APPENDIX C

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

PART 3
ANALYTICAL REPORTS
240-22274-1
240-22281-1

(Note—To be provided on disc only)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-22274-1

Job Description: RVAAP - ECC

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 40
Marlborough, MA 01752

Attention: Mr. Jackson Kiker

Approved for release.
Mark J Loeb
Project Manager II
4/30/2013 8:00 AM

Mark J Loeb
Project Manager II
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04/30/2013

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CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: RVAAP - ECC

Report Number: 240-22274-1

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

The 353.2 Nitrocellulose, 8330 Nitroguanidine and 8330B Explosives analysis were performed at the TestAmerica Sacramento Laboratory. The 6020 Metals analysis was performed at the TestAmerica Pittsburgh Laboratory.

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

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

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

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

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

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

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

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

RECEIPT

The samples were received on 03/20/2013; the samples arrived in good condition, properly preserved and on ice. The temperaturesof the coolers at receipt were 3.2, 3.4 and 4.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were prepared on 03/21/2013 and analyzed on 04/02/2013.

Methylene Chloride was detected in method blank MB 240-80302/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Acetone, Chloroethane and Methylene Chloride failed the recovery criteria high for MRL 240-80302/31. Methylene Chloride failed the recovery criteria high for MRL 240-80302/5. Refer to the QC report for details.

The Method reporting limit (MRL) for DoD had Methylene Chloride's percent recovery failing high in the low level soil analysis. At the lower concentration levels, common lab contaminates are effected more by any back round contamination.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 079SD-0194-0001-TB (240-22274-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 03/28/2013.

Methylene Chloride was detected in method blank MB 240-79725/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), Acetone and Bromoform failed the recovery criteria low for MRL 240-79725/14. Chloromethane, Methylene Chloride and Vinyl chloride failed the recovery criteria high. 2-Butanone (MEK) failed the recovery criteria low for MRL 240-79725/5. Carbon tetrachloride and Methylene Chloride failed the recovery criteria high. Refer to the QC report for details.

The continuing calibration verification (CCV) for Carbon tetrachloride associated with batch 79725 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 80302 on these samples 079SD-0309-0001-SD (240-22274-2).

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/02/2013 and analyzed on 04/05/2013.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-80284/23-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

The initial calibration verification (ICV) for analytical batch 80755 exceeded control criteria for two analytes:4,6-dinitro-2-methylphenol and di-n-butylphthalate. Because neither of these analytes were detected in the samples, no corrective action was required. The data have been qualified and reported.

No other difficulties were encountered during the SVOCs analysis. All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were prepared on 04/01/2013 and analyzed on 04/03/2013.

Sample 079SD-0309-0001-SD (240-22274-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The closing continuing calibration verification (CCV) for 4,4'-DDD associated with batch 80060 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The following samples were diluted due to color. Elevated reporting limits (RL) are provided.

The surrogate recoveries for the following sample was outside acceptance limits (high biased) on the primary column: (240-22274-2 MS). The recoveries are within acceptance limits on the confirmation r column indicating that the extraction process was in control; therefore surrogate data is reported from the confirmation column.

DDD and delta-BHC were reported from the confirmation column for the matrix spike duplicate (MSD) (240-22274-2 MSD) associated with batch 80060.

No other difficulties were encountered during the pesticides analysis. All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were prepared on 03/29/2013 and analyzed on 04/03/2013.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: (240-22274-2 MS), (240-22274-2 MSD), 079SD-0309-0001-SD (240-22274-2). Lot # S65830.

No other difficulties were encountered during the PCBs analysis. All quality control parameters were within the acceptance limits.

NITROGUANIDINE (HPLC)

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for nitroguanidine (HPLC) in accordance with EPA SW-846 Method 8330_Ngu. The samples were prepared on 04/02/2013 and analyzed on 04/09/2013 and 04/10/2013.

No difficulties were encountered during the explosives analysis. All quality control parameters were within the acceptance limits.

EXPLOSIVES

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for explosives in accordance with EPA SW-846 Method 8330B. The samples were prepared on 04/02/2013 and analyzed on 04/13/2013 and 04/18/2013.

Tetryl was detected in method blank MB 320-13509/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Nitroglycerin exceeded the rpd limit for the MSD of sample 079SD-0309-0001-SDMSD (240-22274-2) in batch 320-14179. Refer to the QC report for details.

The continuing calibration verification at the reporting limit (CCVL) for analytical batch 13509, 13728 and 13607 exceeded control criteria for m-Nitrotoluene, 3,5-Dinitroaniline, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene and RDX. The corrective action for this deficiency is an analysis of a standard at approximately 2x the MDL. The acceptance criterion for the 2x MDL standard is detection of the compound. As the compounds were detected, the data have been qualified and reported.

The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 13509 were outside control limits. This is attributed to: non-homogeneity of the sample matrix;matrix interferences.

No other difficulties were encountered during the explosives analysis. All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICPMS)

Samples 079SB-0287M-0001-SB (240-22274-7), 079SB-0288M-0001-SB (240-22274-8), 079SB-0289M-0001-SB (240-22274-9), 079SB-0290M-0001-SB (240-22274-10), 079SB-0291M-0001-SB (240-22274-11), 079SB-0292M-0001-SO (240-22274-12), 079SB-0293M-0001-SO (240-22274-13), 079SB-0256M-0001-SO (240-22274-16), 079SB-0258M-0001-SO (240-22274-17), 079SB-0260M-0001-SO (240-22274-18), 079SB-0261M-0001-SO (240-22274-19), 079SB-0262M-0001-SO (240-22274-20), 079SB-0263M-0001-SO (240-22274-21), 079SB-0264M-0001-SO (240-22274-22), 079SB-0224M-0001-SO (240-22274-25), 079SB-0225M-0001-SO (240-22274-26), 079SB-0227M-0001-SO (240-22274-27), 079SB-0228M-0001-SO (240-22274-28), 079SB-0229M-0001-SO (240-22274-29), 079SB-0230M-0001-SO (240-22274-30), 079SB-0231M-0001-SO (240-22274-31), 079SS-0320M-0001-SO (240-22274-34) and 079SS-0321M-0001-SO (240-22274-35) were analyzed for total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 6020 DoD. Samples 079SD-0309-0001-SD (240-22274-2), 079SD-0305-0001-0002-SD (240-22274-3), 079SD-0306-0001-SD (240-22274-4), 079SD-0307-0001-SD (240-22274-5), 079SD-0310-0001-SD (240-22274-6), 079SS-0294-0001-SO (240-22274-14), 079SS-0295-0001-SO (240-22274-15), 079SS-0265-0001-SO (240-22274-23), 079SS-0266-0001-SO (240-22274-24), 079SS-0232-0001-SO (240-22274-32) and 079SS-0233-0001-SO (240-22274-33) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD and did not go through the incremental process. The samples began the drying process on 03/26/2013, were prepared on 04/02/2013 and analyzed on 04/11/2013, 04/12/2013 and 04/13/2013.

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

Several analytes were detected in method blank MB 180-67960/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Iron was detected in method blank MB 180-67996/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Several analytes were detected in method blank MB 180-67996/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Selenium failed the recovery criteria high for LCS 180-67960/2-A. Refer to the QC report for details.

Aluminum, Iron and Manganese failed the recovery criteria high for the MS of sample 079SB-0264M-0001-SOMS (240-22274-22) in batch 180-69084.

Arsenic, Iron and Lead failed the recovery criteria low for the MS of sample 079SD-0305-0001-0002-SDMS (240-22274-3) in batch 180-68949. Aluminum failed the recovery criteria high.

Selenium exceeded the rpd limit for the duplicate of sample 079SD-0305-0001-0002-SDDU (240-22274-3). Refer to the QC report for details.

Samples 079SD-0310-0001-SD (240-22274-6)[10X], 079SS-0294-0001-SO (240-22274-14)[10X], 079SS-0294-0001-SO (240-22274-14)[1000X], 079SS-0265-0001-SO (240-22274-23)[10X], 079SB-0230M-0001-SO (240-22274-30)[10X], 079SS-0233-0001-SO (240-22274-33)[10X] and 079SS-0320M-0001-SO (240-22274-34)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The closing low level check standard recovery was outside the acceptance criteria for iron. All associated samples had iron concentrations > 10x the CRI concentration

The interference check standard solution (ICSA) showed results for one or more elements at a level greater than the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution.

The method blank associated with batch 67996 contained aluminum and iron greater than one-half the reporting limit (RL). All associated samples had aluminum and iron concentrations > 10x the method blank concentration.

The following samples were diluted to bring the concentration of manganese within the linear range of the instrument: 079SD-0310-0001-SD (240-22274-6), 079SS-0265-0001-SO (240-22274-23), 079SS-0294-0001-SO (240-22274-14). Elevated reporting limits (RLs) are provided.

The following sample was diluted due to the nature of the sample matrix: 079SS-0294-0001-SO (240-22274-14). Elevated reporting limits (RLs) are provided.

The sample duplicate precision for the following sample associated with batch 67996 was outside of the control limits: 079SB-0264M-0001-SO (240-22274-22).

The matrix spike duplicate (MS/MSD) recovery for the following sample associated with batch 67996 was outside of the control limits for antimony.: 079SB-0264M-0001-SO (240-22274-22). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for batch 67996 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike recovery for the following sample associated with batch 67960 was outside of the control limits for antimony.: 079SD-0305-0001-0002-SD (240-22274-3). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for batch 67960 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

MERCURY WITH INCREMENTAL SAMPLE PREPARATION

Samples 079SB-0287M-0001-SB (240-22274-7), 079SB-0288M-0001-SB (240-22274-8), 079SB-0289M-0001-SB (240-22274-9), 079SB-0290M-0001-SB (240-22274-10), 079SB-0291M-0001-SB (240-22274-11), 079SB-0292M-0001-SO (240-22274-12), 079SB-0293M-0001-SO (240-22274-13), 079SB-0256M-0001-SO (240-22274-16), 079SB-0258M-0001-SO (240-22274-17), 079SB-0260M-0001-SO (240-22274-18), 079SB-0261M-0001-SO (240-22274-19), 079SB-0262M-0001-SO (240-22274-20), 079SB-0263M-0001-SO (240-22274-21), 079SB-0264M-0001-SO (240-22274-22), 079SB-0224M-0001-SO (240-22274-25), 079SB-0225M-0001-SO (240-22274-26), 079SB-0227M-0001-SO (240-22274-27), 079SB-0228M-0001-SO (240-22274-28), 079SB-0229M-0001-SO (240-22274-29), 079SB-0230M-0001-SO (240-22274-30), 079SB-0231M-0001-SO (240-22274-31), 079SS-0320M-0001-SO (240-22274-34) and 079SS-0321M-0001-SO (240-22274-35) were analyzed for mercury with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 7471A DOD. The samples began the drying process on 03/26/2013, were prepared on 03/28/2013 and 03/29/2013 and analyzed on 04/02/2013.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

MERCURY

Samples 079SD-0309-0001-SD (240-22274-2), 079SD-0305-0001-0002-SD (240-22274-3), 079SD-0306-0001-SD (240-22274-4), 079SD-0307-0001-SD (240-22274-5), 079SD-0310-0001-SD (240-22274-6), 079SS-0294-0001-SO (240-22274-14), 079SS-0295-0001-SO (240-22274-15), 079SS-0265-0001-SO (240-22274-23), 079SS-0266-0001-SO (240-22274-24), 079SS-0232-0001-SO (240-22274-32) and 079SS-0233-0001-SO (240-22274-33) were analyzed for mercury in accordance with EPA SW-846 Method 7471A DOD. The samples were prepared on 03/26/2013 and analyzed on 03/27/2013.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

NITROCELLULOSE

Sample 079SD-0309-0001-SD (240-22274-2) was analyzed for Nitrocellulose in accordance with EPA Method 353.2. The samples were prepared on 04/01/2013 and analyzed on 04/02/2013.

No difficulties were encountered during the Nitrocellulose analysis. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 079SD-0309-0001-SD (240-22274-2), 079SD-0305-0001-0002-SD (240-22274-3), 079SD-0306-0001-SD (240-22274-4), 079SD-0307-0001-SD (240-22274-5), 079SD-0310-0001-SD (240-22274-6), 079SB-0287M-0001-SB (240-22274-7), 079SB-0288M-0001-SB (240-22274-8), 079SB-0289M-0001-SB (240-22274-9), 079SB-0290M-0001-SB (240-22274-10), 079SB-0291M-0001-SB (240-22274-11), 079SB-0292M-0001-SO (240-22274-12), 079SB-0293M-0001-SO (240-22274-13), 079SS-0294-0001-SO (240-22274-14), 079SS-0295-0001-SO (240-22274-15), 079SB-0256M-0001-SO (240-22274-16), 079SB-0258M-0001-SO (240-22274-17), 079SB-0260M-0001-SO (240-22274-18), 079SB-0261M-0001-SO (240-22274-19), 079SB-0262M-0001-SO (240-22274-20), 079SB-0263M-0001-SO (240-22274-21), 079SB-0264M-0001-SO (240-22274-22), 079SS-0265-0001-SO (240-22274-23), 079SS-0266-0001-SO (240-22274-24), 079SB-0224M-0001-SO (240-22274-25),

079SB-0225M-0001-SO (240-22274-26), 079SB-0227M-0001-SO (240-22274-27), 079SB-0228M-0001-SO (240-22274-28), 079SB-0229M-0001-SO (240-22274-29), 079SB-0230M-0001-SO (240-22274-30), 079SB-0231M-0001-SO (240-22274-31), 079SS-0232-0001-SO (240-22274-32), 079SS-0233-0001-SO (240-22274-33), 079SS-0320M-0001-SO (240-22274-34) and 079SS-0321M-0001-SO (240-22274-35) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 04/01/2013 and 04/02/2013.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 80575

Lab Sample ID: STD5 240-80575/2 IC Client Sample ID:

Date Analyzed: 04/04/13 12:21 Lab File ID: 30404002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.55	Poor Chromatography	ulmanm	04/04/13 12:56
N-Nitrosodiphenylamine	6.84	Poor Chromatography	ulmanm	04/04/13 12:59

Lab Sample ID: STD4 240-80575/3 IC Client Sample ID:

Date Analyzed: 04/04/13 12:47 Lab File ID: 30403003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.53	Poor Chromatography	ulmanm	04/04/13 13:44
N-Nitrosodiphenylamine	6.84	Poor Chromatography	ulmanm	04/05/13 09:37

Lab Sample ID: STD1 240-80575/6 IC Client Sample ID:

Date Analyzed: 04/04/13 13:48 Lab File ID: 30403006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	13.04	Poor Chromatography	ulmanm	04/04/13 14:20
Dibenz(a,h)anthracene	13.07	Poor Chromatography	ulmanm	04/04/13 14:20
Benzo[g,h,i]perylene	13.56	Poor Chromatography	ulmanm	04/04/13 14:20

Lab Sample ID: STD9 240-80575/7 IC Client Sample ID:

Date Analyzed: 04/04/13 14:08 Lab File ID: 30403007.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Fluorophenol (Surr)	2.82	Poor Chromatography	ulmanm	04/04/13 14:35
Phenol-d5 (Surr)	3.47	Poor Chromatography	ulmanm	04/04/13 14:35
Benzoic acid	4.62	Poor Chromatography	ulmanm	04/04/13 14:35
Caprolactam	5.20	Poor Chromatography	ulmanm	04/04/13 14:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 80575

Lab Sample ID: STD8 240-80575/8 IC Client Sample ID:

Date Analyzed: 04/04/13 14:28 Lab File ID: 30403008.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.62	Poor Chromatography	ulmanm	04/04/13 14:53
Caprolactam	5.20	Poor Chromatography	ulmanm	04/04/13 14:53

Lab Sample ID: STD7 240-80575/9 IC Client Sample ID:

Date Analyzed: 04/04/13 14:49 Lab File ID: 30403009.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.60	Poor Chromatography	ulmanm	04/04/13 15:38
Caprolactam	5.19	Poor Chromatography	ulmanm	04/04/13 15:38

Lab Sample ID: STD6 240-80575/10 ICIS Client Sample ID:

Date Analyzed: 04/04/13 15:09 Lab File ID: 30403010.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Fluorophenol (Surr)	2.82	Poor Chromatography	ulmanm	04/04/13 15:41
Phenol-d5 (Surr)	3.47	Poor Chromatography	ulmanm	04/04/13 15:41
Benzoic acid	4.58	Poor Chromatography	ulmanm	04/04/13 15:41

Lab Sample ID: ICV 240-80575/11 Client Sample ID:

Date Analyzed: 04/04/13 15:36 Lab File ID: 30403011.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.59	Poor Chromatography	ulmanm	04/05/13 09:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 80755

Lab Sample ID: CCV 240-80755/2 Client Sample ID:

Date Analyzed: 04/05/13 11:22 Lab File ID: 30405002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.52	Poor Chromatography	ulmanm	04/05/13 11:53
3,3'-Dichlorobenzidine	9.69	Poor Chromatography	ulmanm	04/05/13 11:53

Lab Sample ID: 240-22274-2 Client Sample ID: 079SD-0309-0001-SD

Date Analyzed: 04/05/13 16:06 Lab File ID: 30405015.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Fluorophenol (Surr)	2.78	Poor Chromatography	ulmanm	04/08/13 09:36
Benzo[k]fluoranthene	10.80	Poor Chromatography	ulmanm	04/08/13 09:36

Lab Sample ID: MRL 240-80755/16 Client Sample ID:

Date Analyzed: 04/05/13 16:27 Lab File ID: 30405016.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.49	Poor Chromatography	ulmanm	04/08/13 10:42

Lab Sample ID: mdll1 LODV Client Sample ID:

Date Analyzed: 04/05/13 16:47 Lab File ID: 30405017.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	13.39	Poor Chromatography	ulmanm	04/08/13 10:46

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Analysis Batch Number: 77220

Lab Sample ID: STD 240-77220/12 IC Client Sample ID:

Date Analyzed: 03/06/13 06:18 Lab File ID: P9030612.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.79	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	10.38	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	10.95	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	11.09	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	11.35	Baseline Event	vandorenc	03/07/13 07:53

Lab Sample ID: STD 240-77220/12 IC Client Sample ID:

Date Analyzed: 03/06/13 06:18 Lab File ID: P9030612.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	11.36	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	11.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	12.29	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	13.08	Baseline Event	vandorenc	03/07/13 07:53

Lab Sample ID: STD 240-77220/13 IC Client Sample ID:

Date Analyzed: 03/06/13 06:46 Lab File ID: P9030613.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.79	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	10.38	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	10.95	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	11.10	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	11.35	Baseline Event	vandorenc	03/07/13 07:53

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Analysis Batch Number: 77220

Lab Sample ID: STD 240-77220/13 IC Client Sample ID:

Date Analyzed: 03/06/13 06:46 Lab File ID: P9030613.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	11.36	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	11.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	12.29	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	13.08	Baseline Event	vandorenc	03/07/13 07:53

Lab Sample ID: STD 240-77220/14 IC Client Sample ID:

Date Analyzed: 03/06/13 07:14 Lab File ID: P9030614.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.79	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	10.38	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	10.95	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	11.09	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	11.35	Baseline Event	vandorenc	03/07/13 07:53

Lab Sample ID: STD 240-77220/14 IC Client Sample ID:

Date Analyzed: 03/06/13 07:14 Lab File ID: P9030614.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	11.36	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	11.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	12.29	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	13.08	Baseline Event	vandorenc	03/07/13 07:53

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Analysis Batch Number: 77220

Lab Sample ID: STD 240-77220/15 IC Client Sample ID:

Date Analyzed: 03/06/13 07:42 Lab File ID: P9030615.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.79	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	10.38	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	10.95	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	11.09	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	11.35	Baseline Event	vandorenc	03/07/13 07:53

Lab Sample ID: STD 240-77220/15 IC Client Sample ID:

Date Analyzed: 03/06/13 07:42 Lab File ID: P9030615.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 2	11.36	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 3	11.78	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 4	12.29	Baseline Event	vandorenc	03/07/13 07:53
Toxaphene Peak 5	13.08	Baseline Event	vandorenc	03/07/13 07:53

Lab Sample ID: STD 240-77220/16 IC Client Sample ID:

Date Analyzed: 03/06/13 08:10 Lab File ID: P9030616.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.79	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 2	10.38	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 3	10.95	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 4	11.09	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 5	11.35	Baseline Event	vandorenc	03/07/13 07:54

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Analysis Batch Number: 77220

Lab Sample ID: STD 240-77220/16 IC Client Sample ID:

Date Analyzed: 03/06/13 08:10 Lab File ID: P9030616.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.78	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 2	11.36	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 3	11.78	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 4	12.29	Baseline Event	vandorenc	03/07/13 07:54
Toxaphene Peak 5	13.08	Baseline Event	vandorenc	03/07/13 07:54

Lab Sample ID: ICV 240-77220/17 Client Sample ID:

Date Analyzed: 03/06/13 08:38 Lab File ID: P9030617.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.79	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 2	10.38	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 3	10.95	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 4	11.09	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 5	11.34	Baseline Event	vandorenc	03/07/13 07:56

Lab Sample ID: ICV 240-77220/17 Client Sample ID:

Date Analyzed: 03/06/13 08:38 Lab File ID: P9030617.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.78	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 2	11.36	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 3	11.78	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 4	12.29	Baseline Event	vandorenc	03/07/13 07:56
Toxaphene Peak 5	13.08	Baseline Event	vandorenc	03/07/13 07:56

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Analysis Batch Number: 80447

Lab Sample ID: PEM 240-80447/4 Client Sample ID:

Date Analyzed: 04/03/13 17:56 Lab File ID: P9040304.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDD	11.16	Baseline Event	shockr	04/04/13 15:12

Lab Sample ID: ICV 240-80447/11 Client Sample ID:

Date Analyzed: 04/03/13 21:12 Lab File ID: P9040311.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Heptachlor	5.48	Baseline Event	shockr	04/04/13 15:15

Lab Sample ID: CCV 240-80447/12 Client Sample ID:

Date Analyzed: 04/03/13 21:39 Lab File ID: P9040312.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.78	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 2	10.37	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 3	10.94	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 4	11.09	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 5	11.35	Baseline Event	shockr	04/04/13 12:31

Lab Sample ID: CCV 240-80447/12 Client Sample ID:

Date Analyzed: 04/03/13 21:39 Lab File ID: P9040312.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.76	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 2	11.34	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 3	11.76	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 4	12.28	Baseline Event	shockr	04/04/13 12:31
Toxaphene Peak 5	13.06	Baseline Event	shockr	04/04/13 12:31

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Analysis Batch Number: 80447

Lab Sample ID: CCV 240-80447/22 Client Sample ID:

Date Analyzed: 04/04/13 02:19 Lab File ID: P9040322.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.78	Baseline Event	shockr	04/04/13 15:27
Toxaphene Peak 2	10.37	Baseline Event	shockr	04/04/13 15:27
Toxaphene Peak 3	10.94	Baseline Event	shockr	04/04/13 15:27
Toxaphene Peak 4	11.09	Baseline Event	shockr	04/04/13 15:27
Toxaphene Peak 5	11.35	Baseline Event	shockr	04/04/13 15:27

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Analysis Batch Number: 80043

Lab Sample ID: STD05 240-80043/12 IC Client Sample ID:

Date Analyzed: 04/01/13 12:19 Lab File ID: P1200012.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	1.58	Split Peak	hassl	04/02/13 06:44
PCB-1242 Peak 2	1.87	Split Peak	hassl	04/02/13 06:44
PCB-1242 Peak 3	2.27	Split Peak	hassl	04/02/13 06:44
PCB-1242 Peak 4	2.39	Split Peak	hassl	04/02/13 06:44
PCB-1242 Peak 5	2.78	Split Peak	hassl	04/02/13 06:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Analysis Batch Number: 80431

Lab Sample ID: CCV 240-80431/3 CCVRT Client Sample ID:

Date Analyzed: 04/03/13 13:16 Lab File ID: P1200003.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	1.58	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 2	1.87	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 3	2.27	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 4	2.39	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 5	2.78	Split Peak	hassl	04/04/13 07:09

Lab Sample ID: MRL 240-80431/4 Client Sample ID:

Date Analyzed: 04/03/13 13:31 Lab File ID: P1200004.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	1.58	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 2	1.87	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 3	2.27	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 4	2.39	Split Peak	hassl	04/04/13 07:09
PCB-1016 Peak 5	2.78	Split Peak	hassl	04/04/13 07:09

Lab Sample ID: 240-22274-2 MSD Client Sample ID: 079SD-0309-0001-SD MSD

Date Analyzed: 04/03/13 14:13 Lab File ID: P1200007.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	3.98	Baseline Event	hassl	04/04/13 07:11
PCB-1260 Peak 2	4.27	Baseline Event	hassl	04/04/13 07:11
PCB-1260 Peak 3	4.55	Baseline Event	hassl	04/04/13 07:11
PCB-1260 Peak 4	5.25	Baseline Event	hassl	04/04/13 07:11
PCB-1260 Peak 5	5.53	Baseline Event	hassl	04/04/13 07:11

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Analysis Batch Number: 80431

Lab Sample ID: LCS 240-79894/24-A Client Sample ID:

Date Analyzed: 04/03/13 14:42 Lab File ID: P1200009.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	3.98	Baseline Event	hassl	04/04/13 07:12
PCB-1260 Peak 2	4.27	Baseline Event	hassl	04/04/13 07:12
PCB-1260 Peak 3	4.55	Baseline Event	hassl	04/04/13 07:12
PCB-1260 Peak 4	5.25	Baseline Event	hassl	04/04/13 07:12
PCB-1260 Peak 5	5.53	Baseline Event	hassl	04/04/13 07:12

Lab Sample ID: CCV 240-80431/10 Client Sample ID:

Date Analyzed: 04/03/13 14:56 Lab File ID: P1200010.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	1.58	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 2	1.87	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 3	2.27	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 4	2.39	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 5	2.78	Split Peak	hassl	04/04/13 07:12

Lab Sample ID: MRL 240-80431/11 Client Sample ID:

Date Analyzed: 04/03/13 15:10 Lab File ID: P1200011.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	1.58	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 2	1.87	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 3	2.27	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 4	2.39	Split Peak	hassl	04/04/13 07:12
PCB-1016 Peak 5	2.78	Split Peak	hassl	04/04/13 07:12

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Analysis Batch Number: 13890

Lab Sample ID: LODV 320-13890/12 Client Sample ID:

Date Analyzed: 04/09/13 15:43 Lab File ID: 320-0003774-012-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.19	Split Peak	russellk	04/10/13 09:44

8330 Modified

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Analysis Batch Number: 14050

Lab Sample ID: LODV 320-14050/3 Client Sample ID:

Date Analyzed: 04/10/13 17:28 Lab File ID: 320-0003819-003-1.d GC Column: Hydro RP80A 4 ID: 4(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.47	Split Peak	russellk	04/12/13 15:35

Lab Sample ID: CCVL 320-14050/5 Client Sample ID:

Date Analyzed: 04/10/13 18:08 Lab File ID: 320-0003819-005-1.d GC Column: Hydro RP80A 4 ID: 4(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.47	Baseline	russellk	04/12/13 15:37

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC11 Analysis Batch Number: 1385

Lab Sample ID: STD01 320-1385/2 IC Client Sample ID:

Date Analyzed: 04/30/12 14:52 Lab File ID: M-002.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.95	Split Peak	noonanr	08/27/12 15:40

Lab Sample ID: STD02 320-1385/3 IC Client Sample ID:

Date Analyzed: 04/30/12 15:49 Lab File ID: M-003.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.94	Split Peak	noonanr	08/27/12 15:42

Lab Sample ID: STD03 320-1385/4 IC Client Sample ID:

Date Analyzed: 04/30/12 16:46 Lab File ID: M-004.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.93	Split Peak	noonanr	08/27/12 15:44

Lab Sample ID: STD04 320-1385/5 IC Client Sample ID:

Date Analyzed: 04/30/12 17:43 Lab File ID: M-005.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.93	Split Peak	noonanr	08/27/12 15:48

Lab Sample ID: STD08 320-1385/9 IC Client Sample ID:

Date Analyzed: 04/30/12 21:31 Lab File ID: M-009.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.75	Split Peak	noonanr	08/27/12 16:02

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC11 Analysis Batch Number: 1385

Lab Sample ID: LODV 320-1385/11 Client Sample ID:

Date Analyzed: 04/30/12 23:25 Lab File ID: M-011.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.93	Split Peak	noonanr	08/27/12 16:05

Lab Sample ID: ICV 320-1385/13 Client Sample ID:

Date Analyzed: 05/01/12 10:50 Lab File ID: I-003.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	25.91	Split Peak	noonanr	08/27/12 16:13

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC11 Analysis Batch Number: 14179

Lab Sample ID: CCV 320-14179/23 CCVRT Client Sample ID:

Date Analyzed: 04/13/13 09:52 Lab File ID: L-000023.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	30.34	Baseline	noonanr	04/16/13 08:56

Lab Sample ID: MB 320-13509/1-A Client Sample ID:

Date Analyzed: 04/13/13 16:32 Lab File ID: L-000030.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene	25.36	Baseline	russellk	04/15/13 10:34

Lab Sample ID: LCS 320-13509/2-A Client Sample ID:

Date Analyzed: 04/13/13 17:29 Lab File ID: L-000031.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	30.35	Baseline	noonanr	04/16/13 09:06
PETN	40.14	Baseline	noonanr	04/16/13 09:06

Lab Sample ID: 240-22274-2 MSD Client Sample ID: 079SD-0309-0001-SD MSD

Date Analyzed: 04/13/13 21:17 Lab File ID: L-000035.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	30.35	Baseline	noonanr	04/16/13 09:23
PETN	40.14	Baseline	noonanr	04/16/13 09:23

Lab Sample ID: CCV 320-14179/45 CCVRT Client Sample ID:

Date Analyzed: 04/14/13 06:48 Lab File ID: L-000045.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	30.32	Baseline	noonanr	04/16/13 09:33

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC12 Analysis Batch Number: 14569

Lab Sample ID: MB 320-13509/1-A Client Sample ID:

Date Analyzed: 04/18/13 09:54 Lab File ID: P000050.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,4-Dinitrotoluene	38.61	Split Peak	noonanr	04/18/13 12:09

Lab Sample ID: CCV 320-14569/43 CCVRT Client Sample ID:

Date Analyzed: 04/18/13 17:37 Lab File ID: P000057.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	36.33	Incomplete Integration	noonanr	04/19/13 06:44

Lab Sample ID: CCVL 320-14569/63 Client Sample ID:

Date Analyzed: 04/19/13 04:38 Lab File ID: P000067.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene	28.00	Baseline	noonanr	04/19/13 06:54
2-Nitrotoluene	29.57	Baseline	noonanr	04/19/13 06:54
4-Nitrotoluene	29.57	Baseline	noonanr	04/19/13 06:54
3-Nitrotoluene	30.16	Baseline	noonanr	04/19/13 06:54
3,5-Dinitroaniline	31.43	Baseline	noonanr	04/19/13 06:54
RDX	32.04	Baseline	noonanr	04/19/13 06:54
2,4-Dinitrotoluene	33.24	Baseline	noonanr	04/19/13 06:54
2,6-Dinitrotoluene	34.24	Baseline	noonanr	04/19/13 06:54

SAMPLE SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-22274-1	079SD-0194-0001-TB	Water	03/20/2013 0800	03/20/2013 1727
240-22274-2	079SD-0309-0001-SD	Solid	03/20/2013 1130	03/20/2013 1727
240-22274-3	079SD-0305-0001-0002-SD	Solid	03/19/2013 1400	03/20/2013 1727
240-22274-3MS	079SD-0305-0001-0002-SD	Solid	03/19/2013 1400	03/20/2013 1727
240-22274-3DU	079SD-0305-0001-0002-SD	Solid	03/19/2013 1400	03/20/2013 1727
240-22274-4	079SD-0306-0001-SD	Solid	03/19/2013 1410	03/20/2013 1727
240-22274-5	079SD-0307-0001-SD	Solid	03/19/2013 1410	03/20/2013 1727
240-22274-6	079SD-0310-0001-SD	Solid	03/19/2013 1435	03/20/2013 1727
240-22274-7	079SB-0287M-0001-SB	Solid	03/19/2013 1623	03/20/2013 1727
240-22274-8	079SB-0288M-0001-SB	Solid	03/19/2013 1632	03/20/2013 1727
240-22274-9	079SB-0289M-0001-SB	Solid	03/19/2013 1424	03/20/2013 1727
240-22274-10	079SB-0290M-0001-SB	Solid	03/19/2013 1616	03/20/2013 1727
240-22274-11	079SB-0291M-0001-SB	Solid	03/19/2013 1635	03/20/2013 1727
240-22274-12	079SB-0292M-0001-SO	Solid	03/19/2013 1526	03/20/2013 1727
240-22274-13	079SB-0293M-0001-SO	Solid	03/19/2013 1521	03/20/2013 1727
240-22274-14	079SS-0294-0001-SO	Solid	03/19/2013 1502	03/20/2013 1727
240-22274-15	079SS-0295-0001-SO	Solid	03/19/2013 1505	03/20/2013 1727
240-22274-16	079SB-0256M-0001-SO	Solid	03/19/2013 1206	03/20/2013 1727
240-22274-17	079SB-0258M-0001-SO	Solid	03/19/2013 1202	03/20/2013 1727
240-22274-18	079SB-0260M-0001-SO	Solid	03/19/2013 1053	03/20/2013 1727
240-22274-19	079SB-0261M-0001-SO	Solid	03/19/2013 1129	03/20/2013 1727
240-22274-20	079SB-0262M-0001-SO	Solid	03/19/2013 1205	03/20/2013 1727
240-22274-21	079SB-0263M-0001-SO	Solid	03/19/2013 1142	03/20/2013 1727
240-22274-22	079SB-0264M-0001-SO	Solid	03/19/2013 1058	03/20/2013 1727
240-22274-23	079SS-0265-0001-SO	Solid	03/19/2013 1056	03/20/2013 1727
240-22274-24	079SS-0266-0001-SO	Solid	03/19/2013 1105	03/20/2013 1727
240-22274-25	079SB-0224M-0001-SO	Solid	03/19/2013 1022	03/20/2013 1727
240-22274-26	079SB-0225M-0001-SO	Solid	03/19/2013 1028	03/20/2013 1727
240-22274-27	079SB-0227M-0001-SO	Solid	03/19/2013 0910	03/20/2013 1727
240-22274-28	079SB-0228M-0001-SO	Solid	03/19/2013 0940	03/20/2013 1727
240-22274-29	079SB-0229M-0001-SO	Solid	03/19/2013 0958	03/20/2013 1727
240-22274-30	079SB-0230M-0001-SO	Solid	03/19/2013 1018	03/20/2013 1727
240-22274-31	079SB-0231M-0001-SO	Solid	03/19/2013 0925	03/20/2013 1727
240-22274-32	079SS-0232-0001-SO	Solid	03/19/2013 0926	03/20/2013 1727
240-22274-33	079SS-0233-0001-SO	Solid	03/19/2013 0922	03/20/2013 1727
240-22274-34	079SS-0320M-0001-SO	Solid	03/19/2013 0950	03/20/2013 1727
240-22274-35	079SS-0321M-0001-SO	Solid	03/19/2013 1220	03/20/2013 1727

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-1	**079SD-0194-0001-TB**					
Acetone		6.4	J	10	ug/L	8260B/DoD
Methylene Chloride		0.97	J	1.0	ug/L	8260B/DoD

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-2	**079SD-0309-0001-SD**					
Acetone		54		25	ug/Kg	8260B/DoD
2-Butanone (MEK)		11	J	25	ug/Kg	8260B/DoD
Carbon disulfide		4.1	J	6.1	ug/Kg	8260B/DoD
Methylene Chloride		1.9	J B	6.1	ug/Kg	8260B/DoD
Benzo[a]anthracene		17		9.0	ug/Kg	8270C/DoD
Benzo[a]pyrene		18		9.0	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		31		9.0	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		14		9.0	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		11	M	9.0	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		60	J B	68	ug/Kg	8270C/DoD
Chrysene		23		9.0	ug/Kg	8270C/DoD
Fluoranthene		43		9.0	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		13		9.0	ug/Kg	8270C/DoD
2-Methylnaphthalene		7.2	J	9.0	ug/Kg	8270C/DoD
Naphthalene		5.4	J	9.0	ug/Kg	8270C/DoD
Phenanthrene		22		9.0	ug/Kg	8270C/DoD
Pyrene		34		9.0	ug/Kg	8270C/DoD
Silver		0.053	J	0.13	mg/Kg	6020/DOD
Aluminum		12000		4.0	mg/Kg	6020/DOD
Arsenic		180		0.13	mg/Kg	6020/DOD
Barium		97	Q	1.3	mg/Kg	6020/DOD
Beryllium		0.64		0.13	mg/Kg	6020/DOD
Calcium		720		13	mg/Kg	6020/DOD
Cadmium		0.33		0.13	mg/Kg	6020/DOD
Chromium		13		0.27	mg/Kg	6020/DOD
Cobalt		12	Q	0.067	mg/Kg	6020/DOD
Copper		11	Q	0.27	mg/Kg	6020/DOD
Iron		18000		6.7	mg/Kg	6020/DOD
Magnesium		1800		13	mg/Kg	6020/DOD
Manganese		580		0.67	mg/Kg	6020/DOD
Sodium		75		13	mg/Kg	6020/DOD
Nickel		14		0.13	mg/Kg	6020/DOD
Lead		25		0.13	mg/Kg	6020/DOD
Thallium		0.18		0.13	mg/Kg	6020/DOD
Vanadium		22		0.13	mg/Kg	6020/DOD
Zinc		59		0.67	mg/Kg	6020/DOD
Potassium		1200		13	mg/Kg	6020/DOD
Selenium		0.52	J	0.67	mg/Kg	6020/DOD
Mercury		0.032	J	0.15	mg/Kg	7471/DOD
Percent Solids		74		0.10	%	Moisture
Percent Moisture		26		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-3	**079SD-0305-0001-0002-SD**					
Silver		0.080	J	0.17	mg/Kg	6020/DOD
Aluminum		12000	J	5.0	mg/Kg	6020/DOD
Arsenic		240	J	0.17	mg/Kg	6020/DOD
Barium		71	Q	1.7	mg/Kg	6020/DOD
Beryllium		0.65		0.17	mg/Kg	6020/DOD
Calcium		2400		17	mg/Kg	6020/DOD
Cadmium		0.35		0.17	mg/Kg	6020/DOD
Chromium		28		0.33	mg/Kg	6020/DOD
Cobalt		8.6	Q	0.083	mg/Kg	6020/DOD
Copper		21	Q	0.33	mg/Kg	6020/DOD
Iron		21000	J	8.3	mg/Kg	6020/DOD
Magnesium		2800		17	mg/Kg	6020/DOD
Manganese		710	Q	0.83	mg/Kg	6020/DOD
Sodium		67		17	mg/Kg	6020/DOD
Nickel		29		0.17	mg/Kg	6020/DOD
Lead		51	J	0.17	mg/Kg	6020/DOD
Antimony		0.14	J	0.33	mg/Kg	6020/DOD
Thallium		0.17		0.17	mg/Kg	6020/DOD
Vanadium		27		0.17	mg/Kg	6020/DOD
Zinc		80	Q	0.83	mg/Kg	6020/DOD
Potassium		1500		17	mg/Kg	6020/DOD
Selenium		0.61	J Q	0.83	mg/Kg	6020/DOD
Mercury		0.046	J	0.19	mg/Kg	7471/DOD
Percent Solids		52		0.10	%	Moisture
Percent Moisture		48		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-4	**079SD-0306-0001-SD**					
Silver		0.092	J	0.18	mg/Kg	6020/DOD
Aluminum		13000		5.5	mg/Kg	6020/DOD
Arsenic		180		0.18	mg/Kg	6020/DOD
Barium		74	Q	1.8	mg/Kg	6020/DOD
Beryllium		0.68		0.18	mg/Kg	6020/DOD
Calcium		2100		18	mg/Kg	6020/DOD
Cadmium		0.37		0.18	mg/Kg	6020/DOD
Chromium		29		0.36	mg/Kg	6020/DOD
Cobalt		8.6	Q	0.091	mg/Kg	6020/DOD
Copper		24	Q	0.36	mg/Kg	6020/DOD
Iron		20000		9.1	mg/Kg	6020/DOD
Magnesium		2700		18	mg/Kg	6020/DOD
Manganese		470		0.91	mg/Kg	6020/DOD
Sodium		100		18	mg/Kg	6020/DOD
Nickel		29		0.18	mg/Kg	6020/DOD
Lead		50		0.18	mg/Kg	6020/DOD
Antimony		0.13	J	0.36	mg/Kg	6020/DOD
Thallium		0.21		0.18	mg/Kg	6020/DOD
Vanadium		30		0.18	mg/Kg	6020/DOD
Zinc		81		0.91	mg/Kg	6020/DOD
Potassium		1900		18	mg/Kg	6020/DOD
Selenium		1.0		0.91	mg/Kg	6020/DOD
Mercury		0.045	J	0.21	mg/Kg	7471/DOD
Percent Solids		52		0.10	%	Moisture
Percent Moisture		48		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-5	**079SD-0307-0001-SD**					
Silver		0.077	J	0.18	mg/Kg	6020/DOD
Aluminum		4800		5.5	mg/Kg	6020/DOD
Arsenic		290		0.18	mg/Kg	6020/DOD
Barium		34	Q	1.8	mg/Kg	6020/DOD
Beryllium		0.25		0.18	mg/Kg	6020/DOD
Calcium		5100		18	mg/Kg	6020/DOD
Cadmium		0.36		0.18	mg/Kg	6020/DOD
Chromium		16		0.37	mg/Kg	6020/DOD
Cobalt		5.2	Q	0.092	mg/Kg	6020/DOD
Copper		16	Q	0.37	mg/Kg	6020/DOD
Iron		18000		9.2	mg/Kg	6020/DOD
Magnesium		1200		18	mg/Kg	6020/DOD
Manganese		350		0.92	mg/Kg	6020/DOD
Sodium		74		18	mg/Kg	6020/DOD
Nickel		20		0.18	mg/Kg	6020/DOD
Lead		52		0.18	mg/Kg	6020/DOD
Antimony		0.34	J	0.37	mg/Kg	6020/DOD
Thallium		0.29		0.18	mg/Kg	6020/DOD
Vanadium		16		0.18	mg/Kg	6020/DOD
Zinc		49		0.92	mg/Kg	6020/DOD
Potassium		990		18	mg/Kg	6020/DOD
Selenium		0.98		0.92	mg/Kg	6020/DOD
Mercury		0.045	J	0.23	mg/Kg	7471/DOD
Percent Solids		49		0.10	%	Moisture
Percent Moisture		51		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-6	**079SD-0310-0001-SD**					
Silver		0.059	J	0.12	mg/Kg	6020/DOD
Aluminum		15000		3.7	mg/Kg	6020/DOD
Arsenic		300		0.12	mg/Kg	6020/DOD
Barium		190	Q	1.2	mg/Kg	6020/DOD
Beryllium		1.3		0.12	mg/Kg	6020/DOD
Calcium		1200		12	mg/Kg	6020/DOD
Cadmium		0.42		0.12	mg/Kg	6020/DOD
Chromium		17		0.25	mg/Kg	6020/DOD
Cobalt		31	Q	0.062	mg/Kg	6020/DOD
Copper		12	Q	0.25	mg/Kg	6020/DOD
Iron		35000		6.2	mg/Kg	6020/DOD
Magnesium		2100		12	mg/Kg	6020/DOD
Manganese		4600	D	6.2	mg/Kg	6020/DOD
Sodium		66		12	mg/Kg	6020/DOD
Nickel		21		0.12	mg/Kg	6020/DOD
Lead		34		0.12	mg/Kg	6020/DOD
Antimony		0.057	J	0.25	mg/Kg	6020/DOD
Thallium		0.24		0.12	mg/Kg	6020/DOD
Vanadium		33		0.12	mg/Kg	6020/DOD
Zinc		70		0.62	mg/Kg	6020/DOD
Potassium		1400		12	mg/Kg	6020/DOD
Selenium		0.96		0.62	mg/Kg	6020/DOD
Mercury		0.045	J	0.16	mg/Kg	7471/DOD
Percent Solids		74		0.10	%	Moisture
Percent Moisture		26		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-7	**079SB-0287M-0001-SB**					
Silver		0.017	J	0.084	mg/Kg	6020/DOD
Aluminum		9100		2.5	mg/Kg	6020/DOD
Arsenic		18		0.084	mg/Kg	6020/DOD
Barium		49	Q	0.84	mg/Kg	6020/DOD
Beryllium		0.49		0.084	mg/Kg	6020/DOD
Calcium		750		8.4	mg/Kg	6020/DOD
Cadmium		0.13		0.084	mg/Kg	6020/DOD
Chromium		12		0.17	mg/Kg	6020/DOD
Cobalt		11	Q	0.042	mg/Kg	6020/DOD
Copper		15	Q	0.17	mg/Kg	6020/DOD
Iron		22000		4.2	mg/Kg	6020/DOD
Magnesium		2000		8.4	mg/Kg	6020/DOD
Manganese		550		0.42	mg/Kg	6020/DOD
Sodium		120		8.4	mg/Kg	6020/DOD
Nickel		20		0.084	mg/Kg	6020/DOD
Lead		10		0.084	mg/Kg	6020/DOD
Antimony		0.039	J	0.17	mg/Kg	6020/DOD
Thallium		0.13		0.084	mg/Kg	6020/DOD
Vanadium		15		0.084	mg/Kg	6020/DOD
Zinc		45		0.42	mg/Kg	6020/DOD
Potassium		1100		8.4	mg/Kg	6020/DOD
Selenium		0.28	J	0.42	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.2		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-8	**079SB-0288M-0001-SB**					
Silver		0.011	J	0.093	mg/Kg	6020/DOD
Aluminum		3400		2.8	mg/Kg	6020/DOD
Arsenic		14		0.093	mg/Kg	6020/DOD
Barium		19	Q	0.93	mg/Kg	6020/DOD
Beryllium		0.22		0.093	mg/Kg	6020/DOD
Calcium		240		9.3	mg/Kg	6020/DOD
Cadmium		0.11		0.093	mg/Kg	6020/DOD
Chromium		6.6		0.19	mg/Kg	6020/DOD
Cobalt		6.3	Q	0.046	mg/Kg	6020/DOD
Copper		7.0	Q	0.19	mg/Kg	6020/DOD
Iron		12000		4.6	mg/Kg	6020/DOD
Magnesium		810		9.3	mg/Kg	6020/DOD
Manganese		390		0.46	mg/Kg	6020/DOD
Sodium		35		9.3	mg/Kg	6020/DOD
Nickel		13		0.093	mg/Kg	6020/DOD
Lead		5.1		0.093	mg/Kg	6020/DOD
Thallium		0.055	J	0.093	mg/Kg	6020/DOD
Vanadium		6.8		0.093	mg/Kg	6020/DOD
Zinc		61		0.46	mg/Kg	6020/DOD
Potassium		640		9.3	mg/Kg	6020/DOD
Selenium		0.15	J	0.46	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.48		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-9	**079SB-0289M-0001-SB**					
Silver		0.023	J	0.092	mg/Kg	6020/DOD
Aluminum		10000		2.8	mg/Kg	6020/DOD
Arsenic		14		0.092	mg/Kg	6020/DOD
Barium		53	Q	0.92	mg/Kg	6020/DOD
Beryllium		0.50		0.092	mg/Kg	6020/DOD
Calcium		1200		9.2	mg/Kg	6020/DOD
Cadmium		0.15		0.092	mg/Kg	6020/DOD
Chromium		14		0.18	mg/Kg	6020/DOD
Cobalt		8.4	Q	0.046	mg/Kg	6020/DOD
Copper		20	Q	0.18	mg/Kg	6020/DOD
Iron		24000		4.6	mg/Kg	6020/DOD
Magnesium		2500		9.2	mg/Kg	6020/DOD
Manganese		320		0.46	mg/Kg	6020/DOD
Sodium		50		9.2	mg/Kg	6020/DOD
Nickel		22		0.092	mg/Kg	6020/DOD
Lead		12		0.092	mg/Kg	6020/DOD
Thallium		0.15		0.092	mg/Kg	6020/DOD
Vanadium		16		0.092	mg/Kg	6020/DOD
Zinc		56		0.46	mg/Kg	6020/DOD
Potassium		1100		9.2	mg/Kg	6020/DOD
Selenium		0.25	J	0.46	mg/Kg	6020/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.6		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-10	**079SB-0290M-0001-SB**					
Silver		0.016	J	0.091	mg/Kg	6020/DOD
Aluminum		5900		2.7	mg/Kg	6020/DOD
Arsenic		25		0.091	mg/Kg	6020/DOD
Barium		28	Q	0.91	mg/Kg	6020/DOD
Beryllium		0.27		0.091	mg/Kg	6020/DOD
Calcium		61		9.1	mg/Kg	6020/DOD
Cadmium		0.10		0.091	mg/Kg	6020/DOD
Chromium		8.9		0.18	mg/Kg	6020/DOD
Cobalt		8.9	Q	0.045	mg/Kg	6020/DOD
Copper		8.9	Q	0.18	mg/Kg	6020/DOD
Iron		18000		4.5	mg/Kg	6020/DOD
Magnesium		1100		9.1	mg/Kg	6020/DOD
Manganese		400		0.45	mg/Kg	6020/DOD
Sodium		290		9.1	mg/Kg	6020/DOD
Nickel		14		0.091	mg/Kg	6020/DOD
Lead		8.0		0.091	mg/Kg	6020/DOD
Antimony		0.056	J	0.18	mg/Kg	6020/DOD
Thallium		0.11		0.091	mg/Kg	6020/DOD
Vanadium		10		0.091	mg/Kg	6020/DOD
Zinc		25		0.45	mg/Kg	6020/DOD
Potassium		2000		9.1	mg/Kg	6020/DOD
Selenium		0.21	J	0.45	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.67		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-11	**079SB-0291M-0001-SB**					
Silver		0.014	J	0.090	mg/Kg	6020/DOD
Aluminum		7000		2.7	mg/Kg	6020/DOD
Arsenic		17		0.090	mg/Kg	6020/DOD
Barium		32	Q	0.90	mg/Kg	6020/DOD
Beryllium		0.39		0.090	mg/Kg	6020/DOD
Calcium		330		9.0	mg/Kg	6020/DOD
Cadmium		0.18		0.090	mg/Kg	6020/DOD
Chromium		10		0.18	mg/Kg	6020/DOD
Cobalt		8.5	Q	0.045	mg/Kg	6020/DOD
Copper		10	Q	0.18	mg/Kg	6020/DOD
Iron		17000		4.5	mg/Kg	6020/DOD
Magnesium		1600		9.0	mg/Kg	6020/DOD
Manganese		310		0.45	mg/Kg	6020/DOD
Sodium		120		9.0	mg/Kg	6020/DOD
Nickel		15		0.090	mg/Kg	6020/DOD
Lead		7.0		0.090	mg/Kg	6020/DOD
Thallium		0.10		0.090	mg/Kg	6020/DOD
Vanadium		12		0.090	mg/Kg	6020/DOD
Zinc		86		0.45	mg/Kg	6020/DOD
Potassium		820		9.0	mg/Kg	6020/DOD
Selenium		0.31	J	0.45	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.1		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-12	**079SB-0292M-0001-SO**					
Silver		0.015	J	0.094	mg/Kg	6020/DOD
Aluminum		7100		2.8	mg/Kg	6020/DOD
Arsenic		14		0.094	mg/Kg	6020/DOD
Barium		43	Q	0.94	mg/Kg	6020/DOD
Beryllium		0.34		0.094	mg/Kg	6020/DOD
Calcium		540		9.4	mg/Kg	6020/DOD
Cadmium		0.16		0.094	mg/Kg	6020/DOD
Chromium		9.0		0.19	mg/Kg	6020/DOD
Cobalt		21	Q	0.047	mg/Kg	6020/DOD
Copper		8.8	Q	0.19	mg/Kg	6020/DOD
Iron		16000		4.7	mg/Kg	6020/DOD
Magnesium		1100		9.4	mg/Kg	6020/DOD
Manganese		1400		0.47	mg/Kg	6020/DOD
Sodium		46		9.4	mg/Kg	6020/DOD
Nickel		25		0.094	mg/Kg	6020/DOD
Lead		7.8		0.094	mg/Kg	6020/DOD
Thallium		0.13		0.094	mg/Kg	6020/DOD
Vanadium		13		0.094	mg/Kg	6020/DOD
Zinc		33		0.47	mg/Kg	6020/DOD
Potassium		620		9.4	mg/Kg	6020/DOD
Selenium		0.36	J	0.47	mg/Kg	6020/DOD
Mercury		0.016	J	0.10	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.92		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-13	**079SB-0293M-0001-SO**					
Silver		0.015	J	0.088	mg/Kg	6020/DOD
Aluminum		7900		2.7	mg/Kg	6020/DOD
Arsenic		16		0.088	mg/Kg	6020/DOD
Barium		46	Q	0.88	mg/Kg	6020/DOD
Beryllium		0.43		0.088	mg/Kg	6020/DOD
Calcium		400		8.8	mg/Kg	6020/DOD
Cadmium		0.10		0.088	mg/Kg	6020/DOD
Chromium		12		0.18	mg/Kg	6020/DOD
Cobalt		7.6	Q	0.044	mg/Kg	6020/DOD
Copper		11	Q	0.18	mg/Kg	6020/DOD
Iron		23000		4.4	mg/Kg	6020/DOD
Magnesium		1700		8.8	mg/Kg	6020/DOD
Manganese		560		0.44	mg/Kg	6020/DOD
Sodium		41		8.8	mg/Kg	6020/DOD
Nickel		17		0.088	mg/Kg	6020/DOD
Lead		8.5		0.088	mg/Kg	6020/DOD
Thallium		0.11		0.088	mg/Kg	6020/DOD
Vanadium		14		0.088	mg/Kg	6020/DOD
Zinc		41		0.44	mg/Kg	6020/DOD
Potassium		850		8.8	mg/Kg	6020/DOD
Selenium		0.36	J	0.44	mg/Kg	6020/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.5		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-14	**079SS-0294-0001-SO**					
Aluminum		8000	D	35	mg/Kg	6020/DOD
Arsenic		74	D	1.2	mg/Kg	6020/DOD
Barium		1800	D Q	12	mg/Kg	6020/DOD
Beryllium		0.38	J D	1.2	mg/Kg	6020/DOD
Calcium		18000	D	120	mg/Kg	6020/DOD
Cadmium		0.35	J D	1.2	mg/Kg	6020/DOD
Chromium		14	D	2.3	mg/Kg	6020/DOD
Cobalt		310	D Q	0.58	mg/Kg	6020/DOD
Copper		250	D Q	2.3	mg/Kg	6020/DOD
Iron		15000	D	58	mg/Kg	6020/DOD
Magnesium		7600	D	120	mg/Kg	6020/DOD
Manganese		210000	D	580	mg/Kg	6020/DOD
Sodium		3100	D	120	mg/Kg	6020/DOD
Nickel		73	D	1.2	mg/Kg	6020/DOD
Lead		79	D	1.2	mg/Kg	6020/DOD
Thallium		3.5	D	1.2	mg/Kg	6020/DOD
Vanadium		32	D	1.2	mg/Kg	6020/DOD
Zinc		69	D	5.8	mg/Kg	6020/DOD
Potassium		2200	D	120	mg/Kg	6020/DOD
Percent Solids		77		0.10	%	Moisture
Percent Moisture		23		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-15	**079SS-0295-0001-SO**					
Silver		0.027	J	0.11	mg/Kg	6020/DOD
Aluminum		14000		3.4	mg/Kg	6020/DOD
Arsenic		11		0.11	mg/Kg	6020/DOD
Barium		69	Q	1.1	mg/Kg	6020/DOD
Beryllium		0.47		0.11	mg/Kg	6020/DOD
Calcium		1600		11	mg/Kg	6020/DOD
Cadmium		0.11		0.11	mg/Kg	6020/DOD
Chromium		17		0.23	mg/Kg	6020/DOD
Cobalt		5.6	Q	0.057	mg/Kg	6020/DOD
Copper		14	Q	0.23	mg/Kg	6020/DOD
Iron		24000		5.7	mg/Kg	6020/DOD
Magnesium		2700		11	mg/Kg	6020/DOD
Manganese		330		0.57	mg/Kg	6020/DOD
Sodium		57		11	mg/Kg	6020/DOD
Nickel		15		0.11	mg/Kg	6020/DOD
Lead		11		0.11	mg/Kg	6020/DOD
Thallium		0.17		0.11	mg/Kg	6020/DOD
Vanadium		25		0.11	mg/Kg	6020/DOD
Zinc		42		0.57	mg/Kg	6020/DOD
Potassium		870		11	mg/Kg	6020/DOD
Selenium		0.55	J	0.57	mg/Kg	6020/DOD
Mercury		0.024	J	0.13	mg/Kg	7471/DOD
Percent Solids		82		0.10	%	Moisture
Percent Moisture		18		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-16	**079SB-0256M-0001-SO**					
Silver		0.018	J	0.088	mg/Kg	6020/DOD
Aluminum		9100		2.7	mg/Kg	6020/DOD
Arsenic		21		0.088	mg/Kg	6020/DOD
Barium		52	Q	0.88	mg/Kg	6020/DOD
Beryllium		0.47		0.088	mg/Kg	6020/DOD
Calcium		390		8.8	mg/Kg	6020/DOD
Cadmium		0.093		0.088	mg/Kg	6020/DOD
Chromium		16		0.18	mg/Kg	6020/DOD
Cobalt		6.7	Q	0.044	mg/Kg	6020/DOD
Copper		12	Q	0.18	mg/Kg	6020/DOD
Iron		18000		4.4	mg/Kg	6020/DOD
Magnesium		2000		8.8	mg/Kg	6020/DOD
Manganese		300		0.44	mg/Kg	6020/DOD
Sodium		290		8.8	mg/Kg	6020/DOD
Nickel		15		0.088	mg/Kg	6020/DOD
Lead		9.6		0.088	mg/Kg	6020/DOD
Thallium		0.11		0.088	mg/Kg	6020/DOD
Vanadium		15		0.088	mg/Kg	6020/DOD
Zinc		35		0.44	mg/Kg	6020/DOD
Potassium		1300		8.8	mg/Kg	6020/DOD
Selenium		0.35	J	0.44	mg/Kg	6020/DOD
Mercury		0.015	J	0.086	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.5		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-17	**079SB-0258M-0001-SO**					
Silver		0.012	J	0.089	mg/Kg	6020/DOD
Aluminum		5600		2.7	mg/Kg	6020/DOD
Arsenic		13		0.089	mg/Kg	6020/DOD
Barium		35	Q	0.89	mg/Kg	6020/DOD
Beryllium		0.28		0.089	mg/Kg	6020/DOD
Calcium		390		8.9	mg/Kg	6020/DOD
Cadmium		0.089		0.089	mg/Kg	6020/DOD
Chromium		9.3		0.18	mg/Kg	6020/DOD
Cobalt		6.3	Q	0.045	mg/Kg	6020/DOD
Copper		12	Q	0.18	mg/Kg	6020/DOD
Iron		14000		4.5	mg/Kg	6020/DOD
Magnesium		1400		8.9	mg/Kg	6020/DOD
Manganese		1200		0.45	mg/Kg	6020/DOD
Sodium		210		8.9	mg/Kg	6020/DOD
Nickel		15		0.089	mg/Kg	6020/DOD
Lead		39		0.089	mg/Kg	6020/DOD
Thallium		0.088	J	0.089	mg/Kg	6020/DOD
Vanadium		9.3		0.089	mg/Kg	6020/DOD
Zinc		30		0.45	mg/Kg	6020/DOD
Potassium		760		8.9	mg/Kg	6020/DOD
Selenium		0.26	J	0.45	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.71		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-18	**079SB-0260M-0001-SO**					
Silver		0.023	J	0.094	mg/Kg	6020/DOD
Aluminum		13000		2.8	mg/Kg	6020/DOD
Arsenic		18		0.094	mg/Kg	6020/DOD
Barium		68	Q	0.94	mg/Kg	6020/DOD
Beryllium		0.56		0.094	mg/Kg	6020/DOD
Calcium		120		9.4	mg/Kg	6020/DOD
Cadmium		0.099		0.094	mg/Kg	6020/DOD
Chromium		16		0.19	mg/Kg	6020/DOD
Cobalt		8.5	Q	0.047	mg/Kg	6020/DOD
Copper		16	Q	0.19	mg/Kg	6020/DOD
Iron		25000		4.7	mg/Kg	6020/DOD
Magnesium		2500		9.4	mg/Kg	6020/DOD
Manganese		290		0.47	mg/Kg	6020/DOD
Sodium		820		9.4	mg/Kg	6020/DOD
Nickel		18		0.094	mg/Kg	6020/DOD
Lead		12		0.094	mg/Kg	6020/DOD
Thallium		0.13		0.094	mg/Kg	6020/DOD
Vanadium		20		0.094	mg/Kg	6020/DOD
Zinc		44		0.47	mg/Kg	6020/DOD
Potassium		2500		9.4	mg/Kg	6020/DOD
Selenium		0.34	J	0.47	mg/Kg	6020/DOD
Mercury		0.026	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-19	**079SB-0261M-0001-SO**					
Silver		0.025	J	0.087	mg/Kg	6020/DOD
Aluminum		6500		2.6	mg/Kg	6020/DOD
Arsenic		5.7		0.087	mg/Kg	6020/DOD
Barium		52	Q	0.87	mg/Kg	6020/DOD
Beryllium		0.40		0.087	mg/Kg	6020/DOD
Calcium		730		8.7	mg/Kg	6020/DOD
Cadmium		0.077	J	0.087	mg/Kg	6020/DOD
Chromium		25		0.17	mg/Kg	6020/DOD
Cobalt		5.6	Q	0.043	mg/Kg	6020/DOD
Copper		5.4	Q	0.17	mg/Kg	6020/DOD
Iron		11000		4.3	mg/Kg	6020/DOD
Magnesium		1400		8.7	mg/Kg	6020/DOD
Manganese		580		0.43	mg/Kg	6020/DOD
Sodium		45		8.7	mg/Kg	6020/DOD
Nickel		11		0.087	mg/Kg	6020/DOD
Lead		8.6		0.087	mg/Kg	6020/DOD
Thallium		0.093		0.087	mg/Kg	6020/DOD
Vanadium		11		0.087	mg/Kg	6020/DOD
Zinc		20		0.43	mg/Kg	6020/DOD
Potassium		480		8.7	mg/Kg	6020/DOD
Selenium		0.32	J	0.43	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-20	**079SB-0262M-0001-SO**					
Silver		0.019	J	0.094	mg/Kg	6020/DOD
Aluminum		11000		2.8	mg/Kg	6020/DOD
Arsenic		91		0.094	mg/Kg	6020/DOD
Barium		61	Q	0.94	mg/Kg	6020/DOD
Beryllium		0.56		0.094	mg/Kg	6020/DOD
Calcium		220		9.4	mg/Kg	6020/DOD
Cadmium		0.12		0.094	mg/Kg	6020/DOD
Chromium		14		0.19	mg/Kg	6020/DOD
Cobalt		7.2	Q	0.047	mg/Kg	6020/DOD
Copper		19	Q	0.19	mg/Kg	6020/DOD
Iron		23000		4.7	mg/Kg	6020/DOD
Magnesium		2400		9.4	mg/Kg	6020/DOD
Manganese		210		0.47	mg/Kg	6020/DOD
Sodium		240		9.4	mg/Kg	6020/DOD
Nickel		19		0.094	mg/Kg	6020/DOD
Lead		12		0.094	mg/Kg	6020/DOD
Thallium		0.12		0.094	mg/Kg	6020/DOD
Vanadium		17		0.094	mg/Kg	6020/DOD
Zinc		49		0.47	mg/Kg	6020/DOD
Potassium		2300		9.4	mg/Kg	6020/DOD
Selenium		0.40	J	0.47	mg/Kg	6020/DOD
Mercury		0.015	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.3		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-21	**079SB-0263M-0001-SO**					
Silver		0.021	J	0.091	mg/Kg	6020/DOD
Aluminum		11000		2.7	mg/Kg	6020/DOD
Arsenic		9.9		0.091	mg/Kg	6020/DOD
Barium		55	Q	0.91	mg/Kg	6020/DOD
Beryllium		0.50		0.091	mg/Kg	6020/DOD
Calcium		750		9.1	mg/Kg	6020/DOD
Cadmium		0.10		0.091	mg/Kg	6020/DOD
Chromium		14		0.18	mg/Kg	6020/DOD
Cobalt		6.6	Q	0.045	mg/Kg	6020/DOD
Copper		13	Q	0.18	mg/Kg	6020/DOD
Iron		20000		4.5	mg/Kg	6020/DOD
Magnesium		2500		9.1	mg/Kg	6020/DOD
Manganese		250		0.45	mg/Kg	6020/DOD
Sodium		65		9.1	mg/Kg	6020/DOD
Nickel		17		0.091	mg/Kg	6020/DOD
Lead		9.6		0.091	mg/Kg	6020/DOD
Thallium		0.14		0.091	mg/Kg	6020/DOD
Vanadium		17		0.091	mg/Kg	6020/DOD
Zinc		41		0.45	mg/Kg	6020/DOD
Potassium		1000		9.1	mg/Kg	6020/DOD
Selenium		0.32	J	0.45	mg/Kg	6020/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.5		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-22	**079SB-0264M-0001-SO**					
Silver		0.026	J	0.097	mg/Kg	6020/DOD
Aluminum		12000	B J	2.9	mg/Kg	6020/DOD
Arsenic		23		0.097	mg/Kg	6020/DOD
Barium		94	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.70		0.097	mg/Kg	6020/DOD
Calcium		490		9.7	mg/Kg	6020/DOD
Cadmium		0.16		0.097	mg/Kg	6020/DOD
Chromium		16		0.19	mg/Kg	6020/DOD
Cobalt		12	Q	0.049	mg/Kg	6020/DOD
Copper		22	Q	0.19	mg/Kg	6020/DOD
Iron		26000	B J	4.9	mg/Kg	6020/DOD
Magnesium		3200		9.7	mg/Kg	6020/DOD
Manganese		1700	J	0.49	mg/Kg	6020/DOD
Sodium		1200		9.7	mg/Kg	6020/DOD
Nickel		28		0.097	mg/Kg	6020/DOD
Lead		58		0.097	mg/Kg	6020/DOD
Thallium		0.14		0.097	mg/Kg	6020/DOD
Vanadium		17		0.097	mg/Kg	6020/DOD
Zinc		61		0.49	mg/Kg	6020/DOD
Potassium		1800		9.7	mg/Kg	6020/DOD
Selenium		0.39	J	0.49	mg/Kg	6020/DOD
Mercury		0.019	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-23	**079SS-0265-0001-SO**					
Silver		0.046	J	0.12	mg/Kg	6020/DOD
Aluminum		11000	B	3.7	mg/Kg	6020/DOD
Arsenic		180		0.12	mg/Kg	6020/DOD
Barium		120	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.76		0.12	mg/Kg	6020/DOD
Calcium		1200		12	mg/Kg	6020/DOD
Cadmium		0.27		0.12	mg/Kg	6020/DOD
Chromium		11		0.25	mg/Kg	6020/DOD
Cobalt		23	Q	0.062	mg/Kg	6020/DOD
Copper		7.2	Q	0.25	mg/Kg	6020/DOD
Iron		22000	B	6.2	mg/Kg	6020/DOD
Magnesium		1500		12	mg/Kg	6020/DOD
Manganese		3000	D	6.2	mg/Kg	6020/DOD
Sodium		270		12	mg/Kg	6020/DOD
Nickel		11		0.12	mg/Kg	6020/DOD
Lead		27		0.12	mg/Kg	6020/DOD
Antimony		0.25		0.25	mg/Kg	6020/DOD
Thallium		0.17		0.12	mg/Kg	6020/DOD
Vanadium		22		0.12	mg/Kg	6020/DOD
Zinc		46		0.62	mg/Kg	6020/DOD
Potassium		2200		12	mg/Kg	6020/DOD
Selenium		0.54	J	0.62	mg/Kg	6020/DOD
Mercury		0.046	J	0.15	mg/Kg	7471/DOD
Percent Solids		78		0.10	%	Moisture
Percent Moisture		22		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-24	**079SS-0266-0001-SO**					
Silver		0.035	J	0.12	mg/Kg	6020/DOD
Aluminum		13000	B	3.6	mg/Kg	6020/DOD
Arsenic		8.5		0.12	mg/Kg	6020/DOD
Barium		61	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.44		0.12	mg/Kg	6020/DOD
Calcium		320		12	mg/Kg	6020/DOD
Cadmium		0.19		0.12	mg/Kg	6020/DOD
Chromium		15		0.24	mg/Kg	6020/DOD
Cobalt		7.2	Q	0.061	mg/Kg	6020/DOD
Copper		12	Q	0.24	mg/Kg	6020/DOD
Iron		23000	B	6.1	mg/Kg	6020/DOD
Magnesium		2400		12	mg/Kg	6020/DOD
Manganese		500		0.61	mg/Kg	6020/DOD
Sodium		800		12	mg/Kg	6020/DOD
Nickel		14		0.12	mg/Kg	6020/DOD
Lead		13		0.12	mg/Kg	6020/DOD
Antimony		0.070	J	0.24	mg/Kg	6020/DOD
Thallium		0.13		0.12	mg/Kg	6020/DOD
Vanadium		22		0.12	mg/Kg	6020/DOD
Zinc		36		0.61	mg/Kg	6020/DOD
Potassium		3200		12	mg/Kg	6020/DOD
Selenium		0.33	J	0.61	mg/Kg	6020/DOD
Mercury		0.020	J	0.14	mg/Kg	7471/DOD
Percent Solids		82		0.10	%	Moisture
Percent Moisture		18		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-25	**079SB-0224M-0001-SO**					
Silver		0.029	J	0.10	mg/Kg	6020/DOD
Aluminum		13000	B	3.0	mg/Kg	6020/DOD
Arsenic		20		0.10	mg/Kg	6020/DOD
Barium		84	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.77		0.10	mg/Kg	6020/DOD
Calcium		970		10	mg/Kg	6020/DOD
Cadmium		0.17		0.10	mg/Kg	6020/DOD
Chromium		17		0.20	mg/Kg	6020/DOD
Cobalt		12	Q	0.050	mg/Kg	6020/DOD
Copper		23	Q	0.20	mg/Kg	6020/DOD
Iron		27000	B	5.0	mg/Kg	6020/DOD
Magnesium		3800		10	mg/Kg	6020/DOD
Manganese		1100		0.50	mg/Kg	6020/DOD
Sodium		71		10	mg/Kg	6020/DOD
Nickel		28		0.10	mg/Kg	6020/DOD
Lead		38		0.10	mg/Kg	6020/DOD
Thallium		0.19		0.10	mg/Kg	6020/DOD
Vanadium		19		0.10	mg/Kg	6020/DOD
Zinc		60		0.50	mg/Kg	6020/DOD
Potassium		1200		10	mg/Kg	6020/DOD
Selenium		0.39	J	0.50	mg/Kg	6020/DOD
Mercury		0.019	J	0.11	mg/Kg	7471/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.8		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-26	**079SB-0225M-0001-SO**					
Aluminum		3400	B	3.0	mg/Kg	6020/DOD
Arsenic		17		0.10	mg/Kg	6020/DOD
Barium		20	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.22		0.10	mg/Kg	6020/DOD
Calcium		380		10	mg/Kg	6020/DOD
Cadmium		0.067	J	0.10	mg/Kg	6020/DOD
Chromium		6.3		0.20	mg/Kg	6020/DOD
Cobalt		6.0	Q	0.050	mg/Kg	6020/DOD
Copper		7.6	Q	0.20	mg/Kg	6020/DOD
Iron		14000	B	5.0	mg/Kg	6020/DOD
Magnesium		1000		10	mg/Kg	6020/DOD
Manganese		350		0.50	mg/Kg	6020/DOD
Sodium		32		10	mg/Kg	6020/DOD
Nickel		15		0.10	mg/Kg	6020/DOD
Lead		6.9		0.10	mg/Kg	6020/DOD
Antimony		0.047	J	0.20	mg/Kg	6020/DOD
Thallium		0.090	J	0.10	mg/Kg	6020/DOD
Vanadium		6.4		0.10	mg/Kg	6020/DOD
Zinc		23		0.50	mg/Kg	6020/DOD
Potassium		580		10	mg/Kg	6020/DOD
Selenium		0.11	J	0.50	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.64		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-27	**079SB-0227M-0001-SO**					
Silver		0.024	J	0.097	mg/Kg	6020/DOD
Aluminum		12000	B	2.9	mg/Kg	6020/DOD
Arsenic		14		0.097	mg/Kg	6020/DOD
Barium		72	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.65		0.097	mg/Kg	6020/DOD
Calcium		1700		9.7	mg/Kg	6020/DOD
Cadmium		0.13		0.097	mg/Kg	6020/DOD
Chromium		18		0.19	mg/Kg	6020/DOD
Cobalt		11	Q	0.049	mg/Kg	6020/DOD
Copper		19	Q	0.19	mg/Kg	6020/DOD
Iron		26000	B	4.9	mg/Kg	6020/DOD
Magnesium		3600		9.7	mg/Kg	6020/DOD
Manganese		610		0.49	mg/Kg	6020/DOD
Sodium		51		9.7	mg/Kg	6020/DOD
Nickel		28		0.097	mg/Kg	6020/DOD
Lead		13		0.097	mg/Kg	6020/DOD
Thallium		0.14		0.097	mg/Kg	6020/DOD
Vanadium		17		0.097	mg/Kg	6020/DOD
Zinc		57		0.49	mg/Kg	6020/DOD
Potassium		1200		9.7	mg/Kg	6020/DOD
Selenium		0.26	J	0.49	mg/Kg	6020/DOD
Mercury		0.016	J	0.11	mg/Kg	7471/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.6		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-28	**079SB-0228M-0001-SO**					
Silver		0.021	J	0.097	mg/Kg	6020/DOD
Aluminum		7600	B	2.9	mg/Kg	6020/DOD
Arsenic		15		0.097	mg/Kg	6020/DOD
Barium		47	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.43		0.097	mg/Kg	6020/DOD
Calcium		540		9.7	mg/Kg	6020/DOD
Cadmium		0.10		0.097	mg/Kg	6020/DOD
Chromium		11		0.19	mg/Kg	6020/DOD
Cobalt		9.7	Q	0.049	mg/Kg	6020/DOD
Copper		13	Q	0.19	mg/Kg	6020/DOD
Iron		28000	B	4.9	mg/Kg	6020/DOD
Magnesium		2100		9.7	mg/Kg	6020/DOD
Manganese		720		0.49	mg/Kg	6020/DOD
Sodium		44		9.7	mg/Kg	6020/DOD
Nickel		22		0.097	mg/Kg	6020/DOD
Lead		9.9		0.097	mg/Kg	6020/DOD
Thallium		0.18		0.097	mg/Kg	6020/DOD
Vanadium		12		0.097	mg/Kg	6020/DOD
Zinc		37		0.49	mg/Kg	6020/DOD
Potassium		810		9.7	mg/Kg	6020/DOD
Selenium		0.23	J	0.49	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-29	**079SB-0229M-0001-SO**					
Silver		0.016	J	0.099	mg/Kg	6020/DOD
Aluminum		11000	B	3.0	mg/Kg	6020/DOD
Arsenic		13		0.099	mg/Kg	6020/DOD
Barium		55	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.49		0.099	mg/Kg	6020/DOD
Calcium		140		9.9	mg/Kg	6020/DOD
Cadmium		0.13		0.099	mg/Kg	6020/DOD
Chromium		13		0.20	mg/Kg	6020/DOD
Cobalt		6.9	Q	0.050	mg/Kg	6020/DOD
Copper		17	Q	0.20	mg/Kg	6020/DOD
Iron		22000	B	5.0	mg/Kg	6020/DOD
Magnesium		3000		9.9	mg/Kg	6020/DOD
Manganese		160		0.50	mg/Kg	6020/DOD
Sodium		34		9.9	mg/Kg	6020/DOD
Nickel		17		0.099	mg/Kg	6020/DOD
Lead		11		0.099	mg/Kg	6020/DOD
Thallium		0.15		0.099	mg/Kg	6020/DOD
Vanadium		17		0.099	mg/Kg	6020/DOD
Zinc		45		0.50	mg/Kg	6020/DOD
Potassium		830		9.9	mg/Kg	6020/DOD
Selenium		0.51		0.50	mg/Kg	6020/DOD
Mercury		0.016	J	0.12	mg/Kg	7471/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.6		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-30	**079SB-0230M-0001-SO**					
Silver		0.035	J	0.10	mg/Kg	6020/DOD
Aluminum		11000	B	3.0	mg/Kg	6020/DOD
Arsenic		52		0.10	mg/Kg	6020/DOD
Barium		84	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.69		0.10	mg/Kg	6020/DOD
Calcium		2500		10	mg/Kg	6020/DOD
Cadmium		0.19		0.10	mg/Kg	6020/DOD
Chromium		17		0.20	mg/Kg	6020/DOD
Cobalt		11	Q	0.050	mg/Kg	6020/DOD
Copper		29	Q	0.20	mg/Kg	6020/DOD
Iron		23000	B	5.0	mg/Kg	6020/DOD
Magnesium		3300		10	mg/Kg	6020/DOD
Manganese		4300	D	5.0	mg/Kg	6020/DOD
Sodium		130		10	mg/Kg	6020/DOD
Nickel		26		0.10	mg/Kg	6020/DOD
Lead		130		0.10	mg/Kg	6020/DOD
Thallium		0.19		0.10	mg/Kg	6020/DOD
Vanadium		16		0.10	mg/Kg	6020/DOD
Zinc		58		0.50	mg/Kg	6020/DOD
Potassium		1200		10	mg/Kg	6020/DOD
Selenium		0.50		0.50	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-31	**079SB-0231M-0001-SO**					
Silver		0.022	J	0.099	mg/Kg	6020/DOD
Aluminum		8800	B	3.0	mg/Kg	6020/DOD
Arsenic		12		0.099	mg/Kg	6020/DOD
Barium		86	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.40		0.099	mg/Kg	6020/DOD
Calcium		200		9.9	mg/Kg	6020/DOD
Cadmium		0.11		0.099	mg/Kg	6020/DOD
Chromium		12		0.20	mg/Kg	6020/DOD
Cobalt		7.5	Q	0.050	mg/Kg	6020/DOD
Copper		12	Q	0.20	mg/Kg	6020/DOD
Iron		17000	B	5.0	mg/Kg	6020/DOD
Magnesium		2100		9.9	mg/Kg	6020/DOD
Manganese		220		0.50	mg/Kg	6020/DOD
Sodium		37		9.9	mg/Kg	6020/DOD
Nickel		19		0.099	mg/Kg	6020/DOD
Lead		9.9		0.099	mg/Kg	6020/DOD
Thallium		0.12		0.099	mg/Kg	6020/DOD
Vanadium		13		0.099	mg/Kg	6020/DOD
Zinc		33		0.50	mg/Kg	6020/DOD
Potassium		830		9.9	mg/Kg	6020/DOD
Selenium		0.32	J	0.50	mg/Kg	6020/DOD
Mercury		0.018	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.1		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-32	**079SS-0232-0001-SO**					
Silver		0.029	J	0.12	mg/Kg	6020/DOD
Aluminum		6300	B	3.7	mg/Kg	6020/DOD
Arsenic		5.3		0.12	mg/Kg	6020/DOD
Barium		61	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.27		0.12	mg/Kg	6020/DOD
Calcium		680		12	mg/Kg	6020/DOD
Cadmium		0.15		0.12	mg/Kg	6020/DOD
Chromium		460		0.24	mg/Kg	6020/DOD
Cobalt		10	Q	0.061	mg/Kg	6020/DOD
Copper		5.6	Q	0.24	mg/Kg	6020/DOD
Iron		13000	B	6.1	mg/Kg	6020/DOD
Magnesium		5500		12	mg/Kg	6020/DOD
Manganese		1600		0.61	mg/Kg	6020/DOD
Sodium		32		12	mg/Kg	6020/DOD
Nickel		130		0.12	mg/Kg	6020/DOD
Lead		10		0.12	mg/Kg	6020/DOD
Thallium		0.11	J	0.12	mg/Kg	6020/DOD
Vanadium		13		0.12	mg/Kg	6020/DOD
Zinc		20		0.61	mg/Kg	6020/DOD
Potassium		340		12	mg/Kg	6020/DOD
Selenium		0.22	J	0.61	mg/Kg	6020/DOD
Mercury		0.027	J	0.13	mg/Kg	7471/DOD
Percent Solids		81		0.10	%	Moisture
Percent Moisture		19		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-33	**079SS-0233-0001-SO**					
Silver		0.069	J	0.12	mg/Kg	6020/DOD
Aluminum		13000	B	3.7	mg/Kg	6020/DOD
Arsenic		7.1		0.12	mg/Kg	6020/DOD
Barium		150	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.68		0.12	mg/Kg	6020/DOD
Calcium		700		12	mg/Kg	6020/DOD
Cadmium		0.22		0.12	mg/Kg	6020/DOD
Chromium		14		0.25	mg/Kg	6020/DOD
Cobalt		16	Q	0.062	mg/Kg	6020/DOD
Copper		6.0	Q	0.25	mg/Kg	6020/DOD
Iron		22000	B	6.2	mg/Kg	6020/DOD
Magnesium		1700		12	mg/Kg	6020/DOD
Manganese		3000	D	6.2	mg/Kg	6020/DOD
Sodium		58		12	mg/Kg	6020/DOD
Nickel		12		0.12	mg/Kg	6020/DOD
Lead		18		0.12	mg/Kg	6020/DOD
Thallium		0.23		0.12	mg/Kg	6020/DOD
Vanadium		27		0.12	mg/Kg	6020/DOD
Zinc		42		0.62	mg/Kg	6020/DOD
Potassium		640		12	mg/Kg	6020/DOD
Selenium		0.49	J	0.62	mg/Kg	6020/DOD
Mercury		0.027	J	0.14	mg/Kg	7471/DOD
Percent Solids		78		0.10	%	Moisture
Percent Moisture		22		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-34	**079SS-0320M-0001-SO**					
Silver		0.036	J	0.10	mg/Kg	6020/DOD
Aluminum		13000	B	3.0	mg/Kg	6020/DOD
Arsenic		11		0.10	mg/Kg	6020/DOD
Barium		160	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.63		0.10	mg/Kg	6020/DOD
Calcium		2900		10	mg/Kg	6020/DOD
Cadmium		0.16		0.10	mg/Kg	6020/DOD
Chromium		15		0.20	mg/Kg	6020/DOD
Cobalt		9.7	Q	0.050	mg/Kg	6020/DOD
Copper		17	Q	0.20	mg/Kg	6020/DOD
Iron		24000	B	5.0	mg/Kg	6020/DOD
Magnesium		2500		10	mg/Kg	6020/DOD
Manganese		5500	D	5.0	mg/Kg	6020/DOD
Sodium		50		10	mg/Kg	6020/DOD
Nickel		26		0.10	mg/Kg	6020/DOD
Lead		16		0.10	mg/Kg	6020/DOD
Thallium		0.17		0.10	mg/Kg	6020/DOD
Vanadium		24		0.10	mg/Kg	6020/DOD
Zinc		49		0.50	mg/Kg	6020/DOD
Potassium		760		10	mg/Kg	6020/DOD
Selenium		0.50		0.50	mg/Kg	6020/DOD
Mercury		0.036	J	0.11	mg/Kg	7471/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.9		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22274-35	**079SS-0321M-0001-SO**					
Silver		0.044	J	0.098	mg/Kg	6020/DOD
Aluminum		13000	B	2.9	mg/Kg	6020/DOD
Arsenic		13		0.098	mg/Kg	6020/DOD
Barium		79	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.67		0.098	mg/Kg	6020/DOD
Calcium		2600		9.8	mg/Kg	6020/DOD
Cadmium		0.21		0.098	mg/Kg	6020/DOD
Chromium		57		0.20	mg/Kg	6020/DOD
Cobalt		8.2	Q	0.049	mg/Kg	6020/DOD
Copper		14	Q	0.20	mg/Kg	6020/DOD
Iron		25000	B	4.9	mg/Kg	6020/DOD
Magnesium		2300		9.8	mg/Kg	6020/DOD
Manganese		690		0.49	mg/Kg	6020/DOD
Sodium		59		9.8	mg/Kg	6020/DOD
Nickel		17		0.098	mg/Kg	6020/DOD
Lead		18		0.098	mg/Kg	6020/DOD
Antimony		0.065	J	0.20	mg/Kg	6020/DOD
Thallium		0.23		0.098	mg/Kg	6020/DOD
Vanadium		23		0.098	mg/Kg	6020/DOD
Zinc		48		0.49	mg/Kg	6020/DOD
Potassium		770		9.8	mg/Kg	6020/DOD
Selenium		0.90		0.49	mg/Kg	6020/DOD
Mercury		0.044	J	0.11	mg/Kg	7471/DOD
Percent Solids		98		0.10	%	Moisture
Percent Moisture		2.3		0.10	%	Moisture

METHOD SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B/DoD	
Closed System Purge and Trap	TAL CAN		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL CAN	SW846 8270C/DoD	
Soxhlet Extraction	TAL CAN		SW846 3540C
Organochlorine Pesticides (GC)	TAL CAN	SW846 8081/DOD	
Soxhlet Extraction	TAL CAN		SW846 3540C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CAN	SW846 8082/DOD	
Soxhlet Extraction	TAL CAN		SW846 3540C
Mercury (CVAA)	TAL CAN	SW846 7471/DOD	
Preparation, Mercury	TAL CAN		SW846 7471A
Mercury (CVAA)	TAL CAN	SW846 7471/DOD	
Incremental Sampling Method - Dry, Disaggregate, Split	TAL CAN		EPA Increment, Prep
Preparation, Mercury	TAL CAN		SW846 7471A
Percent Moisture	TAL CAN	EPA Moisture	
Metals (ICP/MS)	TAL PIT	SW846 6020/DOD	
Preparation, Metals	TAL PIT		SW846 3050B
Nitroguanidine (HPLC)	TAL SAC	SW846 8330 Modified	
Sieve and Ultrasonic Water Bath Extraction (Explosives)	TAL SAC		SW846 Sieve/Ultrasoni
Nitroaromatics and Nitramines (HPLC)	TAL SAC	SW846 8330B	
Sonication Extraction (Explosives)	TAL SAC		SW846 8330B
Nitrocellulose	TAL SAC	TAL-SAC WS-WC-0050	
Nitrocellulose Sample Preparation (Hydrolysis)	TAL SAC		MCAWW 353 (NCell-Hyd)
Nitrocellulose Sample Preparation	TAL SAC		MCAWW 353.2 (NCell)
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B/DoD	
Purge and Trap	TAL CAN		SW846 5030B

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

TAL SAC = TestAmerica Sacramento

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

METHOD / ANALYST SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method	Analyst	Analyst ID
SW846 8260B/DoD	Macenczak, Steven	SM
SW846 8260B/DoD	Quayle, Rick	RQ
SW846 8270C/DoD	Ulman, Mark	MU
SW846 8081/DOD	Shock, Ray	RS
SW846 8082/DOD	Hass, Lori	LH
SW846 6020/DOD	Reinheimer, Bill	BR
SW846 7471/DOD	Sutherland, Aaron	AS
SW846 7471/DOD	Toth, Roger	RT
EPA Moisture	Stiller, Jennifer	JS
TAL-SAC WS-WC-0050	Baynes, Jason	JB
SW846 8330 Modified	Russell, Karen	kr
SW846 8330B	Noonan, Robyn	RN
SW846 8330B	Russell, Karen	kr

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0194-0001-TB**

Lab Sample ID: 240-22274-1 Date Sampled: 03/20/2013 0800
Client Matrix: Water Date Received: 03/20/2013 1727

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX129321.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1214			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1214				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1-Trichloroethane	0.25	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.18	1.0
1,1,2-Trichloroethane	0.50	U	0.27	1.0
1,1-Dichloroethane	0.25	U	0.15	1.0
1,1-Dichloroethene	0.25	U	0.19	1.0
1,2-Dichloroethane	0.25	U	0.22	1.0
1,2-Dichloroethene, Total	0.50	U	0.34	2.0
1,2-Dichloropropane	0.25	U	0.18	1.0
2-Butanone (MEK)	0.57	U	0.57	10
2-Hexanone	0.50	U	0.41	10
4-Methyl-2-pentanone (MIBK)	0.50	U	0.32	10
Acetone	6.4	J	1.1	10
Benzene	0.25	U	0.13	1.0
Bromoform	0.64	U	0.64	1.0
Bromomethane	0.50	U	0.41	1.0
Carbon disulfide	0.25	U	0.13	1.0
Carbon tetrachloride	0.25	U	0.13	1.0
Chlorobenzene	0.25	U	0.15	1.0
Chloromethane	0.50	U	0.30	1.0
cis-1,3-Dichloropropene	0.25	U	0.14	1.0
Dibromochloromethane	0.25	U	0.18	1.0
Bromodichloromethane	0.25	U	0.15	1.0
Ethylbenzene	0.25	U	0.17	1.0
Methyl tert-butyl ether	0.25	U	0.17	1.0
Methylene Chloride	0.97	J	0.33	1.0
Styrene	0.25	U	0.11	1.0
Tetrachloroethene	0.50	U	0.29	1.0
Toluene	0.25	U	0.13	1.0
trans-1,3-Dichloropropene	0.25	U	0.19	1.0
Trichloroethene	0.25	U	0.17	1.0
Vinyl chloride	0.25	U	0.22	1.0
Xylenes, Total	0.75	U	0.28	2.0
Chloroform	0.25	U	0.16	1.0
Bromochloromethane	0.50	U	0.29	1.0
1,2-Dibromoethane	0.25	U	0.24	1.0
Chloroethane	0.50	U	0.29	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	109		85 - 120
1,2-Dichloroethane-d4 (Surr)	104		70 - 120
4-Bromofluorobenzene (Surr)	106		75 - 120
Dibromofluoromethane (Surr)	106		85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	240-80302	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-79220	Lab File ID:	141708.D
Dilution:	1.0			Initial Weight/Volume:	5.524 g
Analysis Date:	04/02/2013 1658			Final Weight/Volume:	5 mL
Prep Date:	03/21/2013 1820				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acetone		54		7.7	25
Benzene		0.61	U	0.28	6.1
Bromochloromethane		1.2	U	0.87	6.1
Bromodichloromethane		0.61	U	0.34	6.1
Bromoform		0.61	U	0.41	6.1
Bromomethane		1.2	U	0.66	6.1
2-Butanone (MEK)		11	J	1.7	25
Carbon disulfide		4.1	J	0.54	6.1
Carbon tetrachloride		0.61	U	0.45	6.1
Chlorobenzene		0.61	U	0.41	6.1
Chloroethane		1.2	U	1.1	6.1
Chloroform		0.61	U	0.36	6.1
Chloromethane		0.61	U	0.50	6.1
cis-1,3-Dichloropropene		0.61	U	0.42	6.1
Dibromochloromethane		1.2	U	0.68	6.1
1,2-Dibromoethane		1.2	U	0.61	6.1
1,1-Dichloroethane		0.61	U	0.44	6.1
1,2-Dichloroethane		0.61	U	0.42	6.1
1,1-Dichloroethene		1.2	U	0.64	6.1
1,2-Dichloroethene, Total		1.2	U	0.95	12
1,2-Dichloropropane		1.2	U	0.85	6.1
Ethylbenzene		0.61	U	0.32	6.1
2-Hexanone		1.2	U	0.77	25
Methylene Chloride		1.9	J B	0.82	6.1
4-Methyl-2-pentanone (MIBK)		1.2	U	0.66	25
Styrene		0.61	U	0.18	6.1
1,1,2,2-Tetrachloroethane		0.61	U	0.42	6.1
Tetrachloroethene		1.2	U	0.64	6.1
Toluene		0.61	U	0.33	6.1
trans-1,3-Dichloropropene		1.2	U	0.66	6.1
1,1,1-Trichloroethane		1.2	U	0.69	6.1
1,1,2-Trichloroethane		0.61	U	0.48	6.1
Trichloroethene		0.61	U	0.52	6.1
Vinyl chloride		0.61	U	0.48	6.1
Xylenes, Total		1.8	U	0.82	12

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	116		85 - 120
Dibromofluoromethane (Surr)	89		59 - 138
1,2-Dichloroethane-d4 (Surr)	99		61 - 130
Toluene-d8 (Surr)	109		85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Prep Method:	3540C	Prep Batch:	240-80284	Lab File ID:	30405015.D
Dilution:	1.0			Initial Weight/Volume:	30.15 g
Analysis Date:	04/05/2013 1606			Final Weight/Volume:	2 mL
Prep Date:	04/02/2013 1245			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		4.5	U	4.5	9.0
Acenaphthylene		4.5	U	4.5	9.0
Anthracene		4.5	U	4.5	9.0
Benzo[a]anthracene		17		4.5	9.0
Benzo[a]pyrene		18		4.5	9.0
Benzo[b]fluoranthene		31		4.5	9.0
Benzo[g,h,i]perylene		14		4.5	9.0
Benzoic acid		450	U	450	890
Benzo[k]fluoranthene		11	M	4.5	9.0
Benzyl alcohol		36	U	28	450
Bis(2-chloroethoxy)methane		36	U	30	140
Bis(2-chloroethyl)ether		4.5	U	2.7	140
bis (2-chloroisopropyl) ether		36	U	13	140
Bis(2-ethylhexyl) phthalate		60	J B	26	68
4-Bromophenyl phenyl ether		36	U	18	68
Butyl benzyl phthalate		36	U	14	68
Carbazole		36	U	36	68
4-Chloroaniline		36	U	23	200
4-Chloro-3-methylphenol		36	U	28	200
2-Chloronaphthalene		4.5	U	4.5	68
2-Chlorophenol		36	U	36	68
4-Chlorophenyl phenyl ether		36	U	18	68
Chrysene		23		1.5	9.0
Dibenz(a,h)anthracene		4.5	U	4.5	9.0
Dibenzofuran		4.5	U	4.5	68
1,2-Dichlorobenzene		36	U	13	68
1,3-Dichlorobenzene		36	U	15	68
1,4-Dichlorobenzene		36	U	27	68
3,3'-Dichlorobenzidine		110	U	24	140
2,4-Dichlorophenol		36	U	27	200
Diethyl phthalate		36	U	22	68
2,4-Dimethylphenol		110	U	27	200
Dimethyl phthalate		36	U	23	68
Di-n-butyl phthalate		36	U	20	68
4,6-Dinitro-2-methylphenol		110	U	110	200
2,4-Dinitrophenol		110	U	110	450
2,4-Dinitrotoluene		36	U	36	270
2,6-Dinitrotoluene		36	U	28	270
Di-n-octyl phthalate		36	U	36	68
Fluoranthene		43		4.5	9.0
Fluorene		4.5	U	4.5	9.0
Hexachlorobenzene		4.5	U	2.8	9.0
Hexachlorobutadiene		36	U	36	68
Hexachlorocyclopentadiene		36	U	36	450
Hexachloroethane		36	U	12	68
Indeno[1,2,3-cd]pyrene		13		4.5	9.0

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Prep Method:	3540C	Prep Batch:	240-80284	Lab File ID:	30405015.D
Dilution:	1.0			Initial Weight/Volume:	30.15 g
Analysis Date:	04/05/2013 1606			Final Weight/Volume:	2 mL
Prep Date:	04/02/2013 1245			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		36	U	18	68
2-Methylnaphthalene		7.2	J	4.5	9.0
2-Methylphenol		110	U	110	270
3 & 4 Methylphenol		110	U	27	540
Naphthalene		5.4	J	4.5	9.0
2-Nitroaniline		36	U	12	270
3-Nitroaniline		110	U	22	270
4-Nitroaniline		36	U	35	270
Nitrobenzene		4.5	U	3.0	140
2-Nitrophenol		36	U	36	68
4-Nitrophenol		110	U	110	450
N-Nitrosodi-n-propylamine		36	U	36	68
N-Nitrosodiphenylamine		36	U	28	68
Pentachlorophenol		110	U	110	200
Phenanthrene		22		4.5	9.0
Phenol		36	U	36	68
Pyrene		34		4.5	9.0
1,2,4-Trichlorobenzene		36	U	36	68
2,4,5-Trichlorophenol		36	U	34	200
2,4,6-Trichlorophenol		110	U	110	200

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	60		45 - 105
2-Fluorophenol (Surr)	65	M	35 - 105
Nitrobenzene-d5 (Surr)	56		35 - 100
Phenol-d5 (Surr)	65		40 - 100
Terphenyl-d14 (Surr)	60		30 - 125
2,4,6-Tribromophenol (Surr)	85		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8081/DOD Organochlorine Pesticides (GC)

Analysis Method:	8081/DOD	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Prep Method:	3540C	Prep Batch:	240-80060	Initial Weight/Volume:	29.74 g
Dilution:	2.0			Final Weight/Volume:	10 mL
Analysis Date:	04/03/2013 2359			Injection Volume:	1 uL
Prep Date:	04/01/2013 1009			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
4,4'-DDD		1.8	U J	1.7	5.5
4,4'-DDE		1.8	U	1.1	4.7
4,4'-DDT		1.8	U	1.7	5.5
Aldrin		3.6	U	3.3	11
alpha-BHC		3.6	U	2.0	6.8
alpha-Chlordane		3.6	U	2.6	8.2
beta-BHC		3.6	U	3.0	9.6
delta-BHC		3.6	U J	3.3	11
Dieldrin		1.8	U	1.3	4.7
Endosulfan I		1.8	U	1.4	4.7
Endosulfan II		3.6	U	2.2	6.8
Endosulfan sulfate		3.6	U	2.4	8.2
Endrin		1.8	U	1.4	4.7
Endrin aldehyde		3.6	U	2.7	8.2
Endrin ketone		1.8	U	1.7	5.5
gamma-BHC (Lindane)		3.6	U	2.0	6.8
gamma-Chlordane		1.8	U	1.2	4.7
Heptachlor		3.6	U	3.0	9.6
Heptachlor epoxide		3.6	U	2.2	6.8
Methoxychlor		9.0	U	4.1	14
Toxaphene		55	U	52	180

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		55 - 130
Tetrachloro-m-xylene	117		70 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8081/DOD Organochlorine Pesticides (GC)

Analysis Method:	8081/DOD	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Prep Method:	3540C	Prep Batch:	240-80060	Initial Weight/Volume:	29.74 g
Dilution:	2.0			Final Weight/Volume:	10 mL
Analysis Date:	04/03/2013 2359			Injection Volume:	1 uL
Prep Date:	04/01/2013 1009			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		55 - 130
Tetrachloro-m-xylene	119		70 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082/DOD	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Prep Method:	3540C	Prep Batch:	240-79894	Initial Weight/Volume:	30.65 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/03/2013 1345			Injection Volume:	1 uL
Prep Date:	03/29/2013 0845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Aroclor-1221		33	U	21	66
Aroclor-1016		33	U	28	86
Aroclor-1232		33	U	19	60
Aroclor-1242		33	U	17	53
Aroclor-1248		33	U	23	73
Aroclor-1254		33	U	23	73
Aroclor-1260		33	U	23	73

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	74		40 - 140
DCB Decachlorobiphenyl	78		60 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082/DOD	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Prep Method:	3540C	Prep Batch:	240-79894	Initial Weight/Volume:	30.65 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/03/2013 1345			Injection Volume:	1 uL
Prep Date:	03/29/2013 0845			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		40 - 140
DCB Decachlorobiphenyl	62		60 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid Date Received: 03/20/2013 1727

8330 Modified Nitroguanidine (HPLC)

Analysis Method:	8330 Modified	Analysis Batch:	320-13918	Instrument ID:	PDA1
Prep Method:	Sieve/Ultrasoni	Prep Batch:	320-13506	Lab File ID:	320-0003783-009-1.d
Dilution:	1.0			Initial Weight/Volume:	2.03 g
Analysis Date:	04/09/2013 1841			Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Nitroguanidine		0.097	J	0.020	0.25

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid Date Received: 03/20/2013 1727

8330 Modified Nitroguanidine (HPLC)

Analysis Method:	8330 Modified	Analysis Batch:	320-14050	Instrument ID:	PDA1
Prep Method:	Sieve/Ultrasoni	Prep Batch:	320-13506	Lab File ID:	320-0003819-007-1.d
Dilution:	1.0			Initial Weight/Volume:	2.03 g
Analysis Date:	04/10/2013 1848			Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Nitroguanidine		0.039	U	0.020	0.25

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid Date Received: 03/20/2013 1727

8330B Nitroaromatics and Nitramines (HPLC)

Analysis Method:	8330B	Analysis Batch:	320-14179	Instrument ID:	LC11
Prep Method:	8330B	Prep Batch:	320-13509	Initial Weight/Volume:	10.02 g
Dilution:	1.0			Final Weight/Volume:	80 mL
Analysis Date:	04/13/2013 1826			Injection Volume:	500 uL
Prep Date:	04/02/2013 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene		0.050	U	0.012	0.25
4-Amino-2,6-dinitrotoluene		0.050	U	0.010	0.25
2,4-Dinitrotoluene		0.050	U	0.0053	0.25
2,6-Dinitrotoluene		0.050	U	0.0073	0.25
HMX		0.050	U	0.012	0.25
Nitrobenzene		0.050	U	0.018	0.25
3-Nitrotoluene		0.050	U	0.015	0.25
4-Nitrotoluene		0.050	U	0.018	0.25
PETN		0.25	U	0.025	0.50
RDX		0.050	U	0.012	0.25
Tetryl		0.050	U	0.010	0.25
2,4,6-Trinitrotoluene		0.050	U	0.019	0.25

Surrogate	%Rec	Qualifier	Acceptance Limits
3,4-Dinitrotoluene	91		78 - 118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid Date Received: 03/20/2013 1727

8330B Nitroaromatics and Nitramines (HPLC)

Analysis Method:	8330B	Analysis Batch:	320-14569	Instrument ID:	LC12
Prep Method:	8330B	Prep Batch:	320-13509	Initial Weight/Volume:	10.02 g
Dilution:	1.0			Final Weight/Volume:	80 mL
Analysis Date:	04/18/2013 1100			Injection Volume:	500 uL
Prep Date:	04/02/2013 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3-Dinitrobenzene		0.050	U	0.0042	0.25
Nitroglycerin		0.25	U J	0.015	0.50
2-Nitrotoluene		0.050	U J	0.013	0.25
1,3,5-Trinitrobenzene		0.050	U	0.010	0.25

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid Date Received: 03/20/2013 1727

8330B Nitroaromatics and Nitramines (HPLC)

Analysis Method:	8330B	Analysis Batch:	320-14569	Instrument ID:	LC12
Prep Method:	8330B	Prep Batch:	320-13509	Initial Weight/Volume:	10.02 g
Dilution:	1.0			Final Weight/Volume:	80 mL
Analysis Date:	04/18/2013 1100			Injection Volume:	500 uL
Prep Date:	04/02/2013 1558			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
3,4-Dinitrotoluene	109		78 - 118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/12/2013 2124			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.053	J	0.015	0.13
Aluminum		12000		0.38	4.0
Arsenic		180		0.024	0.13
Barium		97	Q	0.014	1.3
Beryllium		0.64		0.010	0.13
Calcium		720		1.8	13
Cadmium		0.33		0.018	0.13
Chromium		13		0.030	0.27
Cobalt		12	Q	0.0032	0.067
Copper		11	Q	0.044	0.27
Iron		18000		1.4	6.7
Magnesium		1800		1.5	13
Manganese		580		0.021	0.67
Sodium		75		3.6	13
Nickel		14		0.015	0.13
Lead		25		0.021	0.13
Antimony		0.13	U	0.062	0.27
Thallium		0.18		0.014	0.13
Vanadium		22		0.040	0.13
Zinc		59		0.087	0.67
Potassium		1200		4.2	13
Selenium		0.52	J	0.068	0.67

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	03/27/2013 0956			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.032	J	0.020	0.15

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0305-0001-0002-SD**

Lab Sample ID: 240-22274-3 Date Sampled: 03/19/2013 1400
Client Matrix: Solid % Moisture: 48.3 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-68949	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.17 g
Analysis Date:	04/11/2013 0433			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.080	J	0.019	0.17
Aluminum		12000	J	0.47	5.0
Arsenic		240	J	0.030	0.17
Barium		71	Q	0.018	1.7
Beryllium		0.65		0.012	0.17
Calcium		2400		2.2	17
Cadmium		0.35		0.022	0.17
Chromium		28		0.037	0.33
Cobalt		8.6	Q	0.0040	0.083
Copper		21	Q	0.055	0.33
Iron		21000	J	1.8	8.3
Magnesium		2800		1.8	17
Manganese		710	Q	0.026	0.83
Sodium		67		4.4	17
Nickel		29		0.019	0.17
Lead		51	J	0.025	0.17
Antimony		0.14	J	0.076	0.33
Thallium		0.17		0.017	0.17
Vanadium		27		0.049	0.17
Zinc		80	Q	0.11	0.83
Potassium		1500		5.2	17
Selenium		0.61	J Q	0.084	0.83

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0951			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.046	J	0.027	0.19

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0306-0001-SD**

Lab Sample ID: 240-22274-4 Date Sampled: 03/19/2013 1410
Client Matrix: Solid % Moisture: 48.2 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.06 g
Analysis Date:	04/12/2013 2132			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.092	J	0.021	0.18
Aluminum		13000		0.52	5.5
Arsenic		180		0.033	0.18
Barium		74	Q	0.019	1.8
Beryllium		0.68		0.014	0.18
Calcium		2100		2.4	18
Cadmium		0.37		0.024	0.18
Chromium		29		0.041	0.36
Cobalt		8.6	Q	0.0044	0.091
Copper		24	Q	0.060	0.36
Iron		20000		2.0	9.1
Magnesium		2700		2.0	18
Manganese		470		0.029	0.91
Sodium		100		4.8	18
Nickel		29		0.021	0.18
Lead		50		0.028	0.18
Antimony		0.13	J	0.084	0.36
Thallium		0.21		0.019	0.18
Vanadium		30		0.054	0.18
Zinc		81		0.12	0.91
Potassium		1900		5.7	18
Selenium		1.0		0.093	0.91

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.55 g
Analysis Date:	03/27/2013 0957			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.045	J	0.029	0.21

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0307-0001-SD**

Lab Sample ID: 240-22274-5 Date Sampled: 03/19/2013 1410
Client Matrix: Solid % Moisture: 51.1 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.11 g
Analysis Date:	04/12/2013 2140			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.077	J	0.021	0.18
Aluminum		4800		0.52	5.5
Arsenic		290		0.033	0.18
Barium		34	Q	0.020	1.8
Beryllium		0.25		0.014	0.18
Calcium		5100		2.4	18
Cadmium		0.36		0.024	0.18
Chromium		16		0.041	0.37
Cobalt		5.2	Q	0.0044	0.092
Copper		16	Q	0.061	0.37
Iron		18000		2.0	9.2
Magnesium		1200		2.0	18
Manganese		350		0.029	0.92
Sodium		74		4.9	18
Nickel		20		0.021	0.18
Lead		52		0.028	0.18
Antimony		0.34	J	0.085	0.37
Thallium		0.29		0.019	0.18
Vanadium		16		0.055	0.18
Zinc		49		0.12	0.92
Potassium		990		5.8	18
Selenium		0.98		0.094	0.92

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Analysis Date:	03/27/2013 0958			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.045	J	0.032	0.23

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SD-0310-0001-SD**

Lab Sample ID: 240-22274-6 Date Sampled: 03/19/2013 1435
Client Matrix: Solid % Moisture: 26.3 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.09 g
Analysis Date:	04/12/2013 2148			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.059	J	0.014	0.12
Aluminum		15000		0.35	3.7
Arsenic		300		0.023	0.12
Barium		190	Q	0.013	1.2
Beryllium		1.3		0.0093	0.12
Calcium		1200		1.7	12
Cadmium		0.42		0.016	0.12
Chromium		17		0.028	0.25
Cobalt		31	Q	0.0030	0.062
Copper		12	Q	0.041	0.25
Iron		35000		1.3	6.2
Magnesium		2100		1.3	12
Sodium		66		3.3	12
Nickel		21		0.014	0.12
Lead		34		0.019	0.12
Antimony		0.057	J	0.057	0.25
Thallium		0.24		0.013	0.12
Vanadium		33		0.037	0.12
Zinc		70		0.081	0.62
Potassium		1400		3.9	12
Selenium		0.96		0.063	0.62

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	10			Initial Weight/Volume:	00001.09 g
Analysis Date:	04/12/2013 2024			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		4600	D	0.20	6.2

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Analysis Date:	03/27/2013 1000			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.045	J	0.022	0.16

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0287M-0001-SB**

Lab Sample ID: 240-22274-7 Date Sampled: 03/19/2013 1623
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.19 g
Analysis Date:	04/12/2013 2156			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.017	J	0.0096	0.084
Aluminum		9100		0.24	2.5
Arsenic		18		0.015	0.084
Barium		49	Q	0.0090	0.84
Beryllium		0.49		0.0063	0.084
Calcium		750		1.1	8.4
Cadmium		0.13		0.011	0.084
Chromium		12		0.019	0.17
Cobalt		11	Q	0.0020	0.042
Copper		15	Q	0.028	0.17
Iron		22000		0.91	4.2
Magnesium		2000		0.91	8.4
Manganese		550		0.013	0.42
Sodium		120		2.2	8.4
Nickel		20		0.0095	0.084
Lead		10		0.013	0.084
Antimony		0.039	J	0.039	0.17
Thallium		0.13		0.0086	0.084
Vanadium		15		0.025	0.084
Zinc		45		0.054	0.42
Potassium		1100		2.7	8.4
Selenium		0.28	J	0.043	0.42

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.54 g
Analysis Date:	04/02/2013 1403			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0288M-0001-SB**

Lab Sample ID: 240-22274-8 Date Sampled: 03/19/2013 1632
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.08 g
Analysis Date:	04/12/2013 2205			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.011	J	0.011	0.093
Aluminum		3400		0.26	2.8
Arsenic		14		0.017	0.093
Barium		19	Q	0.0099	0.93
Beryllium		0.22		0.0069	0.093
Calcium		240		1.2	9.3
Cadmium		0.11		0.012	0.093
Chromium		6.6		0.021	0.19
Cobalt		6.3	Q	0.0022	0.046
Copper		7.0	Q	0.031	0.19
Iron		12000		1.0	4.6
Magnesium		810		1.0	9.3
Manganese		390		0.015	0.46
Sodium		35		2.5	9.3
Nickel		13		0.010	0.093
Lead		5.1		0.014	0.093
Antimony		0.093	U	0.043	0.19
Thallium		0.055	J	0.0094	0.093
Vanadium		6.8		0.028	0.093
Zinc		61		0.060	0.46
Potassium		640		2.9	9.3
Selenium		0.15	J	0.047	0.46

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1404			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0289M-0001-SB**

Lab Sample ID: 240-22274-9 Date Sampled: 03/19/2013 1424
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.09 g
Analysis Date:	04/12/2013 2213			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.023	J	0.010	0.092
Aluminum		10000		0.26	2.8
Arsenic		14		0.017	0.092
Barium		53	Q	0.0098	0.92
Beryllium		0.50		0.0069	0.092
Calcium		1200		1.2	9.2
Cadmium		0.15		0.012	0.092
Chromium		14		0.020	0.18
Cobalt		8.4	Q	0.0022	0.046
Copper		20	Q	0.030	0.18
Iron		24000		0.99	4.6
Magnesium		2500		0.99	9.2
Manganese		320		0.015	0.46
Sodium		50		2.4	9.2
Nickel		22		0.010	0.092
Lead		12		0.014	0.092
Antimony		0.092	U	0.042	0.18
Thallium		0.15		0.0094	0.092
Vanadium		16		0.027	0.092
Zinc		56		0.059	0.46
Potassium		1100		2.9	9.2
Selenium		0.25	J	0.047	0.46

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.66 g
Analysis Date:	04/02/2013 1406			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.030	U	0.013	0.091

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0290M-0001-SB**

Lab Sample ID: 240-22274-10 Date Sampled: 03/19/2013 1616
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.10 g
Analysis Date:	04/12/2013 2221			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.016	J	0.010	0.091
Aluminum		5900		0.26	2.7
Arsenic		25		0.016	0.091
Barium		28	Q	0.0097	0.91
Beryllium		0.27		0.0068	0.091
Calcium		61		1.2	9.1
Cadmium		0.10		0.012	0.091
Chromium		8.9		0.020	0.18
Cobalt		8.9	Q	0.0022	0.045
Copper		8.9	Q	0.030	0.18
Iron		18000		0.98	4.5
Magnesium		1100		0.98	9.1
Manganese		400		0.014	0.45
Sodium		290		2.4	9.1
Nickel		14		0.010	0.091
Lead		8.0		0.014	0.091
Antimony		0.056	J	0.042	0.18
Thallium		0.11		0.0093	0.091
Vanadium		10		0.027	0.091
Zinc		25		0.059	0.45
Potassium		2000		2.9	9.1
Selenium		0.21	J	0.046	0.45

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.53 g
Analysis Date:	04/02/2013 1407			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0291M-0001-SB**

Lab Sample ID: 240-22274-11 Date Sampled: 03/19/2013 1635
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.11 g
Analysis Date:	04/12/2013 2229			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.014	J	0.010	0.090
Aluminum		7000		0.26	2.7
Arsenic		17		0.016	0.090
Barium		32	Q	0.0096	0.90
Beryllium		0.39		0.0068	0.090
Calcium		330		1.2	9.0
Cadmium		0.18		0.012	0.090
Chromium		10		0.020	0.18
Cobalt		8.5	Q	0.0022	0.045
Copper		10	Q	0.030	0.18
Iron		17000		0.97	4.5
Magnesium		1600		0.97	9.0
Manganese		310		0.014	0.45
Sodium		120		2.4	9.0
Nickel		15		0.010	0.090
Lead		7.0		0.014	0.090
Antimony		0.090	U	0.041	0.18
Thallium		0.10		0.0092	0.090
Vanadium		12		0.027	0.090
Zinc		86		0.058	0.45
Potassium		820		2.8	9.0
Selenium		0.31	J	0.046	0.45

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.52 g
Analysis Date:	04/02/2013 1409			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.038	U	0.016	0.12

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0292M-0001-SO**

Lab Sample ID: 240-22274-12 Date Sampled: 03/19/2013 1526
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.06 g
Analysis Date:	04/12/2013 2238			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J	0.011	0.094
Aluminum		7100		0.27	2.8
Arsenic		14		0.017	0.094
Barium		43	Q	0.010	0.94
Beryllium		0.34		0.0071	0.094
Calcium		540		1.3	9.4
Cadmium		0.16		0.012	0.094
Chromium		9.0		0.021	0.19
Cobalt		21	Q	0.0023	0.047
Copper		8.8	Q	0.031	0.19
Iron		16000		1.0	4.7
Magnesium		1100		1.0	9.4
Manganese		1400		0.015	0.47
Sodium		46		2.5	9.4
Nickel		25		0.011	0.094
Lead		7.8		0.015	0.094
Antimony		0.094	U	0.043	0.19
Thallium		0.13		0.0096	0.094
Vanadium		13		0.028	0.094
Zinc		33		0.061	0.47
Potassium		620		3.0	9.4
Selenium		0.36	J	0.048	0.47

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.59 g
Analysis Date:	04/02/2013 1410			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.016	J	0.014	0.10

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0293M-0001-SO**

Lab Sample ID: 240-22274-13 Date Sampled: 03/19/2013 1521
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.13 g
Analysis Date:	04/12/2013 2302			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J	0.010	0.088
Aluminum		7900		0.25	2.7
Arsenic		16		0.016	0.088
Barium		46	Q	0.0095	0.88
Beryllium		0.43		0.0066	0.088
Calcium		400		1.2	8.8
Cadmium		0.10		0.012	0.088
Chromium		12		0.020	0.18
Cobalt		7.6	Q	0.0021	0.044
Copper		11	Q	0.029	0.18
Iron		23000		0.95	4.4
Magnesium		1700		0.95	8.8
Manganese		560		0.014	0.44
Sodium		41		2.4	8.8
Nickel		17		0.010	0.088
Lead		8.5		0.014	0.088
Antimony		0.088	U	0.041	0.18
Thallium		0.11		0.0090	0.088
Vanadium		14		0.026	0.088
Zinc		41		0.057	0.44
Potassium		850		2.8	8.8
Selenium		0.36	J	0.045	0.44

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.64 g
Analysis Date:	04/02/2013 1411			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.031	U	0.013	0.094

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0294-0001-SO**

Lab Sample ID: 240-22274-14 Date Sampled: 03/19/2013 1502
Client Matrix: Solid % Moisture: 22.6 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	10			Initial Weight/Volume:	00001.11 g
Analysis Date:	04/12/2013 2310			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.35	U	0.13	1.2
Aluminum		8000	D	3.3	35
Arsenic		74	D	0.21	1.2
Barium		1800	D Q	0.12	12
Beryllium		0.38	J D	0.087	1.2
Calcium		18000	D	15	120
Cadmium		0.35	J D	0.15	1.2
Chromium		14	D	0.26	2.3
Cobalt		310	D Q	0.028	0.58
Copper		250	D Q	0.38	2.3
Iron		15000	D	13	58
Magnesium		7600	D	13	120
Sodium		3100	D	31	120
Nickel		73	D	0.13	1.2
Lead		79	D	0.18	1.2
Antimony		1.2	U	0.53	2.3
Thallium		3.5	D	0.12	1.2
Vanadium		32	D	0.35	1.2
Zinc		69	D	0.75	5.8
Potassium		2200	D	37	120
Selenium		1.2	U	0.59	5.8

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1000			Initial Weight/Volume:	00001.11 g
Analysis Date:	04/12/2013 2033			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		210000	D	18	580

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	03/27/2013 1001			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.046	U	0.019	0.14

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0295-0001-SO**

Lab Sample ID: 240-22274-15 Date Sampled: 03/19/2013 1505
Client Matrix: Solid % Moisture: 17.5 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.07 g
Analysis Date:	04/12/2013 2319			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.027	J	0.013	0.11
Aluminum		14000		0.32	3.4
Arsenic		11		0.021	0.11
Barium		69	Q	0.012	1.1
Beryllium		0.47		0.0085	0.11
Calcium		1600		1.5	11
Cadmium		0.11		0.015	0.11
Chromium		17		0.025	0.23
Cobalt		5.6	Q	0.0027	0.057
Copper		14	Q	0.037	0.23
Iron		24000		1.2	5.7
Magnesium		2700		1.2	11
Manganese		330		0.018	0.57
Sodium		57		3.0	11
Nickel		15		0.013	0.11
Lead		11		0.017	0.11
Antimony		0.11	U	0.052	0.23
Thallium		0.17		0.012	0.11
Vanadium		25		0.034	0.11
Zinc		42		0.073	0.57
Potassium		870		3.6	11
Selenium		0.55	J	0.058	0.57

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	03/27/2013 1006			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.024	J	0.018	0.13

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0256M-0001-SO**

Lab Sample ID: 240-22274-16 Date Sampled: 03/19/2013 1206
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.13 g
Analysis Date:	04/12/2013 2327			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.018	J	0.010	0.088
Aluminum		9100		0.25	2.7
Arsenic		21		0.016	0.088
Barium		52	Q	0.0095	0.88
Beryllium		0.47		0.0066	0.088
Calcium		390		1.2	8.8
Cadmium		0.093		0.012	0.088
Chromium		16		0.020	0.18
Cobalt		6.7	Q	0.0021	0.044
Copper		12	Q	0.029	0.18
Iron		18000		0.95	4.4
Magnesium		2000		0.95	8.8
Manganese		300		0.014	0.44
Sodium		290		2.4	8.8
Nickel		15		0.010	0.088
Lead		9.6		0.014	0.088
Antimony		0.088	U	0.041	0.18
Thallium		0.11		0.0090	0.088
Vanadium		15		0.026	0.088
Zinc		35		0.057	0.44
Potassium		1300		2.8	8.8
Selenium		0.35	J	0.045	0.44

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.70 g
Analysis Date:	04/02/2013 1412			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.015	J	0.012	0.086

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0258M-0001-SO**

Lab Sample ID: 240-22274-17 Date Sampled: 03/19/2013 1202
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.12 g
Analysis Date:	04/12/2013 2335			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.012	J	0.010	0.089
Aluminum		5600		0.25	2.7
Arsenic		13		0.016	0.089
Barium		35	Q	0.0096	0.89
Beryllium		0.28		0.0067	0.089
Calcium		390		1.2	8.9
Cadmium		0.089		0.012	0.089
Chromium		9.3		0.020	0.18
Cobalt		6.3	Q	0.0021	0.045
Copper		12	Q	0.029	0.18
Iron		14000		0.96	4.5
Magnesium		1400		0.96	8.9
Manganese		1200		0.014	0.45
Sodium		210		2.4	8.9
Nickel		15		0.010	0.089
Lead		39		0.014	0.089
Antimony		0.089	U	0.041	0.18
Thallium		0.088	J	0.0091	0.089
Vanadium		9.3		0.027	0.089
Zinc		30		0.058	0.45
Potassium		760		2.8	8.9
Selenium		0.26	J	0.045	0.45

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.53 g
Analysis Date:	04/02/2013 1416			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0260M-0001-SO**

Lab Sample ID: 240-22274-18 Date Sampled: 03/19/2013 1053
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.06 g
Analysis Date:	04/12/2013 2343			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.023	J	0.011	0.094
Aluminum		13000		0.27	2.8
Arsenic		18		0.017	0.094
Barium		68	Q	0.010	0.94
Beryllium		0.56		0.0071	0.094
Calcium		120		1.3	9.4
Cadmium		0.099		0.012	0.094
Chromium		16		0.021	0.19
Cobalt		8.5	Q	0.0023	0.047
Copper		16	Q	0.031	0.19
Iron		25000		1.0	4.7
Magnesium		2500		1.0	9.4
Manganese		290		0.015	0.47
Sodium		820		2.5	9.4
Nickel		18		0.011	0.094
Lead		12		0.015	0.094
Antimony		0.094	U	0.043	0.19
Thallium		0.13		0.0096	0.094
Vanadium		20		0.028	0.094
Zinc		44		0.061	0.47
Potassium		2500		3.0	9.4
Selenium		0.34	J	0.048	0.47

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.55 g
Analysis Date:	04/02/2013 1418			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.026	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0261M-0001-SO**

Lab Sample ID: 240-22274-19 Date Sampled: 03/19/2013 1129
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.15 g
Analysis Date:	04/12/2013 2351			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.025	J	0.0099	0.087
Aluminum		6500		0.25	2.6
Arsenic		5.7		0.016	0.087
Barium		52	Q	0.0093	0.87
Beryllium		0.40		0.0065	0.087
Calcium		730		1.2	8.7
Cadmium		0.077	J	0.011	0.087
Chromium		25		0.019	0.17
Cobalt		5.6	Q	0.0021	0.043
Copper		5.4	Q	0.029	0.17
Iron		11000		0.94	4.3
Magnesium		1400		0.94	8.7
Manganese		580		0.014	0.43
Sodium		45		2.3	8.7
Nickel		11		0.0098	0.087
Lead		8.6		0.013	0.087
Antimony		0.087	U	0.040	0.17
Thallium		0.093		0.0089	0.087
Vanadium		11		0.026	0.087
Zinc		20		0.056	0.43
Potassium		480		2.7	8.7
Selenium		0.32	J	0.044	0.43

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.58 g
Analysis Date:	04/02/2013 1419			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.034	U	0.014	0.10

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0262M-0001-SO**

Lab Sample ID: 240-22274-20 Date Sampled: 03/19/2013 1205
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.06 g
Analysis Date:	04/13/2013 0000			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.019	J	0.011	0.094
Aluminum		11000		0.27	2.8
Arsenic		91		0.017	0.094
Barium		61	Q	0.010	0.94
Beryllium		0.56		0.0071	0.094
Calcium		220		1.3	9.4
Cadmium		0.12		0.012	0.094
Chromium		14		0.021	0.19
Cobalt		7.2	Q	0.0023	0.047
Copper		19	Q	0.031	0.19
Iron		23000		1.0	4.7
Magnesium		2400		1.0	9.4
Manganese		210		0.015	0.47
Sodium		240		2.5	9.4
Nickel		19		0.011	0.094
Lead		12		0.015	0.094
Antimony		0.094	U	0.043	0.19
Thallium		0.12		0.0096	0.094
Vanadium		17		0.028	0.094
Zinc		49		0.061	0.47
Potassium		2300		3.0	9.4
Selenium		0.40	J	0.048	0.47

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.55 g
Analysis Date:	04/02/2013 1420			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.015	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0263M-0001-SO**

Lab Sample ID: 240-22274-21 Date Sampled: 03/19/2013 1142
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67960	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.10 g
Analysis Date:	04/13/2013 0008			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.021	J	0.010	0.091
Aluminum		11000		0.26	2.7
Arsenic		9.9		0.016	0.091
Barium		55	Q	0.0097	0.91
Beryllium		0.50		0.0068	0.091
Calcium		750		1.2	9.1
Cadmium		0.10		0.012	0.091
Chromium		14		0.020	0.18
Cobalt		6.6	Q	0.0022	0.045
Copper		13	Q	0.030	0.18
Iron		20000		0.98	4.5
Magnesium		2500		0.98	9.1
Manganese		250		0.014	0.45
Sodium		65		2.4	9.1
Nickel		17		0.010	0.091
Lead		9.6		0.014	0.091
Antimony		0.091	U	0.042	0.18
Thallium		0.14		0.0093	0.091
Vanadium		17		0.027	0.091
Zinc		41		0.059	0.45
Potassium		1000		2.9	9.1
Selenium		0.32	J	0.046	0.45

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1422			Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0264M-0001-SO**

Lab Sample ID: 240-22274-22 Date Sampled: 03/19/2013 1058
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0049			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.026	J	0.011	0.097
Aluminum		12000	B J	0.28	2.9
Arsenic		23		0.018	0.097
Barium		94	Q	0.010	0.97
Beryllium		0.70		0.0073	0.097
Calcium		490		1.3	9.7
Cadmium		0.16		0.013	0.097
Chromium		16		0.022	0.19
Cobalt		12	Q	0.0023	0.049
Copper		22	Q	0.032	0.19
Iron		26000	B J	1.0	4.9
Magnesium		3200		1.0	9.7
Manganese		1700	J	0.015	0.49
Sodium		1200		2.6	9.7
Nickel		28		0.011	0.097
Lead		58		0.015	0.097
Antimony		0.097	U J	0.045	0.19
Thallium		0.14		0.0099	0.097
Vanadium		17		0.029	0.097
Zinc		61		0.063	0.49
Potassium		1800		3.1	9.7
Selenium		0.39	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1427			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.019	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0265-0001-SO**

Lab Sample ID: 240-22274-23 Date Sampled: 03/19/2013 1056
Client Matrix: Solid % Moisture: 22.0 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0132			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.046	J	0.014	0.12
Aluminum		11000	B	0.35	3.7
Arsenic		180		0.023	0.12
Barium		120	Q	0.013	1.2
Beryllium		0.76		0.0093	0.12
Calcium		1200		1.7	12
Cadmium		0.27		0.016	0.12
Chromium		11		0.028	0.25
Cobalt		23	Q	0.0030	0.062
Copper		7.2	Q	0.041	0.25
Iron		22000	B	1.3	6.2
Magnesium		1500		1.3	12
Sodium		270		3.3	12
Nickel		11		0.014	0.12
Lead		27		0.019	0.12
Antimony		0.25		0.057	0.25
Thallium		0.17		0.013	0.12
Vanadium		22		0.037	0.12
Zinc		46		0.081	0.62
Potassium		2200		3.9	12
Selenium		0.54	J	0.063	0.62

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	10			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/12/2013 2041			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		3000	D	0.20	6.2

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Analysis Date:	03/27/2013 1007			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.046	J	0.021	0.15

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0266-0001-SO**

Lab Sample ID: 240-22274-24 Date Sampled: 03/19/2013 1105
Client Matrix: Solid % Moisture: 18.4 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0140			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.035	J	0.014	0.12
Aluminum		13000	B	0.35	3.6
Arsenic		8.5		0.022	0.12
Barium		61	Q	0.013	1.2
Beryllium		0.44		0.0091	0.12
Calcium		320		1.6	12
Cadmium		0.19		0.016	0.12
Chromium		15		0.027	0.24
Cobalt		7.2	Q	0.0029	0.061
Copper		12	Q	0.040	0.24
Iron		23000	B	1.3	6.1
Magnesium		2400		1.3	12
Manganese		500		0.019	0.61
Sodium		800		3.2	12
Nickel		14		0.014	0.12
Lead		13		0.019	0.12
Antimony		0.070	J	0.056	0.24
Thallium		0.13		0.012	0.12
Vanadium		22		0.036	0.12
Zinc		36		0.079	0.61
Potassium		3200		3.8	12
Selenium		0.33	J	0.062	0.61

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	03/27/2013 1009			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.020	J	0.019	0.14

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0224M-0001-SO**

Lab Sample ID: 240-22274-25 Date Sampled: 03/19/2013 1022
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/13/2013 0150			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	J	0.011	0.10
Aluminum		13000	B	0.28	3.0
Arsenic		20		0.018	0.10
Barium		84	Q	0.011	1.0
Beryllium		0.77		0.0075	0.10
Calcium		970		1.3	10
Cadmium		0.17		0.013	0.10
Chromium		17		0.022	0.20
Cobalt		12	Q	0.0024	0.050
Copper		23	Q	0.033	0.20
Iron		27000	B	1.1	5.0
Magnesium		3800		1.1	10
Manganese		1100		0.016	0.50
Sodium		71		2.7	10
Nickel		28		0.011	0.10
Lead		38		0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.19		0.010	0.10
Vanadium		19		0.030	0.10
Zinc		60		0.065	0.50
Potassium		1200		3.2	10
Selenium		0.39	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1441			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.019	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0225M-0001-SO**

Lab Sample ID: 240-22274-26 Date Sampled: 03/19/2013 1028
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/13/2013 0158			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	U	0.011	0.10
Aluminum		3400	B	0.28	3.0
Arsenic		17		0.018	0.10
Barium		20	Q	0.011	1.0
Beryllium		0.22		0.0075	0.10
Calcium		380		1.3	10
Cadmium		0.067	J	0.013	0.10
Chromium		6.3		0.022	0.20
Cobalt		6.0	Q	0.0024	0.050
Copper		7.6	Q	0.033	0.20
Iron		14000	B	1.1	5.0
Magnesium		1000		1.1	10
Manganese		350		0.016	0.50
Sodium		32		2.7	10
Nickel		15		0.011	0.10
Lead		6.9		0.015	0.10
Antimony		0.047	J	0.046	0.20
Thallium		0.090	J	0.010	0.10
Vanadium		6.4		0.030	0.10
Zinc		23		0.065	0.50
Potassium		580		3.2	10
Selenium		0.11	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.59 g
Analysis Date:	04/02/2013 1442			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.034	U	0.014	0.10

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0227M-0001-SO**

Lab Sample ID: 240-22274-27 Date Sampled: 03/19/2013 0910
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0223			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.024	J	0.011	0.097
Aluminum		12000	B	0.28	2.9
Arsenic		14		0.018	0.097
Barium		72	Q	0.010	0.97
Beryllium		0.65		0.0073	0.097
Calcium		1700		1.3	9.7
Cadmium		0.13		0.013	0.097
Chromium		18		0.022	0.19
Cobalt		11	Q	0.0023	0.049
Copper		19	Q	0.032	0.19
Iron		26000	B	1.0	4.9
Magnesium		3600		1.0	9.7
Manganese		610		0.015	0.49
Sodium		51		2.6	9.7
Nickel		28		0.011	0.097
Lead		13		0.015	0.097
Antimony		0.097	U	0.045	0.19
Thallium		0.14		0.0099	0.097
Vanadium		17		0.029	0.097
Zinc		57		0.063	0.49
Potassium		1200		3.1	9.7
Selenium		0.26	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.54 g
Analysis Date:	04/02/2013 1444			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.016	J	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0228M-0001-SO**

Lab Sample ID: 240-22274-28 Date Sampled: 03/19/2013 0940
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0231			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.021	J	0.011	0.097
Aluminum		7600	B	0.28	2.9
Arsenic		15		0.018	0.097
Barium		47	Q	0.010	0.97
Beryllium		0.43		0.0073	0.097
Calcium		540		1.3	9.7
Cadmium		0.10		0.013	0.097
Chromium		11		0.022	0.19
Cobalt		9.7	Q	0.0023	0.049
Copper		13	Q	0.032	0.19
Iron		28000	B	1.0	4.9
Magnesium		2100		1.0	9.7
Manganese		720		0.015	0.49
Sodium		44		2.6	9.7
Nickel		22		0.011	0.097
Lead		9.9		0.015	0.097
Antimony		0.097	U	0.045	0.19
Thallium		0.18		0.0099	0.097
Vanadium		12		0.029	0.097
Zinc		37		0.063	0.49
Potassium		810		3.1	9.7
Selenium		0.23	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1445			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0229M-0001-SO**

Lab Sample ID: 240-22274-29 Date Sampled: 03/19/2013 0958
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0239			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.016	J	0.011	0.099
Aluminum		11000	B	0.28	3.0
Arsenic		13		0.018	0.099
Barium		55	Q	0.011	0.99
Beryllium		0.49		0.0074	0.099
Calcium		140		1.3	9.9
Cadmium		0.13		0.013	0.099
Chromium		13		0.022	0.20
Cobalt		6.9	Q	0.0024	0.050
Copper		17	Q	0.033	0.20
Iron		22000	B	1.1	5.0
Magnesium		3000		1.1	9.9
Manganese		160		0.016	0.50
Sodium		34		2.6	9.9
Nickel		17		0.011	0.099
Lead		11		0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.15		0.010	0.099
Vanadium		17		0.030	0.099
Zinc		45		0.064	0.50
Potassium		830		3.1	9.9
Selenium		0.51		0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.52 g
Analysis Date:	04/02/2013 1447			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.016	J	0.016	0.12

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0230M-0001-SO**

Lab Sample ID: 240-22274-30 Date Sampled: 03/19/2013 1018
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/13/2013 0248			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.035	J	0.011	0.10
Aluminum		11000	B	0.28	3.0
Arsenic		52		0.018	0.10
Barium		84	Q	0.011	1.0
Beryllium		0.69		0.0075	0.10
Calcium		2500		1.3	10
Cadmium		0.19		0.013	0.10
Chromium		17		0.022	0.20
Cobalt		11	Q	0.0024	0.050
Copper		29	Q	0.033	0.20
Iron		23000	B	1.1	5.0
Magnesium		3300		1.1	10
Sodium		130		2.7	10
Nickel		26		0.011	0.10
Lead		130		0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.19		0.010	0.10
Vanadium		16		0.030	0.10
Zinc		58		0.065	0.50
Potassium		1200		3.2	10
Selenium		0.50		0.051	0.50

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	10			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/13/2013 0337			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		4300	D	0.16	5.0

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.55 g
Analysis Date:	04/02/2013 1448			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.036	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SB-0231M-0001-SO**

Lab Sample ID: 240-22274-31 Date Sampled: 03/19/2013 0925
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0256			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.022	J	0.011	0.099
Aluminum		8800	B	0.28	3.0
Arsenic		12		0.018	0.099
Barium		86	Q	0.011	0.99
Beryllium		0.40		0.0074	0.099
Calcium		200		1.3	9.9
Cadmium		0.11		0.013	0.099
Chromium		12		0.022	0.20
Cobalt		7.5	Q	0.0024	0.050
Copper		12	Q	0.033	0.20
Iron		17000	B	1.1	5.0
Magnesium		2100		1.1	9.9
Manganese		220		0.016	0.50
Sodium		37		2.6	9.9
Nickel		19		0.011	0.099
Lead		9.9		0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.12		0.010	0.099
Vanadium		13		0.030	0.099
Zinc		33		0.064	0.50
Potassium		830		3.1	9.9
Selenium		0.32	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.54 g
Analysis Date:	04/02/2013 1449			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.018	J	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0232-0001-SO**

Lab Sample ID: 240-22274-32 Date Sampled: 03/19/2013 0926
Client Matrix: Solid % Moisture: 18.8 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0304			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	J	0.014	0.12
Aluminum		6300	B	0.35	3.7
Arsenic		5.3		0.022	0.12
Barium		61	Q	0.013	1.2
Beryllium		0.27		0.0091	0.12
Calcium		680		1.6	12
Cadmium		0.15		0.016	0.12
Chromium		460		0.027	0.24
Cobalt		10	Q	0.0029	0.061
Copper		5.6	Q	0.040	0.24
Iron		13000	B	1.3	6.1
Magnesium		5500		1.3	12
Manganese		1600		0.019	0.61
Sodium		32		3.2	12
Nickel		130		0.014	0.12
Lead		10		0.019	0.12
Antimony		0.12	U	0.056	0.24
Thallium		0.11	J	0.012	0.12
Vanadium		13		0.036	0.12
Zinc		20		0.079	0.61
Potassium		340		3.8	12
Selenium		0.22	J	0.062	0.61

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	03/27/2013 1010			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.027	J	0.018	0.13

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0233-0001-SO**

Lab Sample ID: 240-22274-33 Date Sampled: 03/19/2013 0922
Client Matrix: Solid % Moisture: 21.7 Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0312			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.069	J	0.014	0.12
Aluminum		13000	B	0.35	3.7
Arsenic		7.1		0.022	0.12
Barium		150	Q	0.013	1.2
Beryllium		0.68		0.0093	0.12
Calcium		700		1.6	12
Cadmium		0.22		0.016	0.12
Chromium		14		0.028	0.25
Cobalt		16	Q	0.0030	0.062
Copper		6.0	Q	0.041	0.25
Iron		22000	B	1.3	6.2
Magnesium		1700		1.3	12
Sodium		58		3.3	12
Nickel		12		0.014	0.12
Lead		18		0.019	0.12
Antimony		0.12	U	0.057	0.25
Thallium		0.23		0.013	0.12
Vanadium		27		0.037	0.12
Zinc		42		0.080	0.62
Potassium		640		3.9	12
Selenium		0.49	J	0.063	0.62

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	10			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0402			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		3000	D	0.20	6.2

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Analysis Date:	03/27/2013 1012			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.027	J	0.020	0.14

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0320M-0001-SO**

Lab Sample ID: 240-22274-34 Date Sampled: 03/19/2013 0950
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/13/2013 0320			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.036	J	0.011	0.10
Aluminum		13000	B	0.28	3.0
Arsenic		11		0.018	0.10
Barium		160	Q	0.011	1.0
Beryllium		0.63		0.0075	0.10
Calcium		2900		1.3	10
Cadmium		0.16		0.013	0.10
Chromium		15		0.022	0.20
Cobalt		9.7	Q	0.0024	0.050
Copper		17	Q	0.033	0.20
Iron		24000	B	1.1	5.0
Magnesium		2500		1.1	10
Sodium		50		2.7	10
Nickel		26		0.011	0.10
Lead		16		0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.17		0.010	0.10
Vanadium		24		0.030	0.10
Zinc		49		0.065	0.50
Potassium		760		3.2	10
Selenium		0.50		0.051	0.50

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	10			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/13/2013 0410			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		5500	D	0.16	5.0

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1451			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.036	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Client Sample ID: **079SS-0321M-0001-SO**

Lab Sample ID: 240-22274-35 Date Sampled: 03/19/2013 1220
Client Matrix: Solid Date Received: 03/20/2013 1727

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-69084	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/13/2013 0329			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.044	J	0.011	0.098
Aluminum		13000	B	0.28	2.9
Arsenic		13		0.018	0.098
Barium		79	Q	0.010	0.98
Beryllium		0.67		0.0074	0.098
Calcium		2600		1.3	9.8
Cadmium		0.21		0.013	0.098
Chromium		57		0.022	0.20
Cobalt		8.2	Q	0.0024	0.049
Copper		14	Q	0.032	0.20
Iron		25000	B	1.1	4.9
Magnesium		2300		1.1	9.8
Manganese		690		0.016	0.49
Sodium		59		2.6	9.8
Nickel		17		0.011	0.098
Lead		18		0.015	0.098
Antimony		0.065	J	0.045	0.20
Thallium		0.23		0.010	0.098
Vanadium		23		0.029	0.098
Zinc		48		0.064	0.49
Potassium		770		3.1	9.8
Selenium		0.90		0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1452			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.044	J	0.015	0.11

General Chemistry

Client Sample ID: **079SD-0309-0001-SD**

Lab Sample ID: 240-22274-2 Date Sampled: 03/20/2013 1130
Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	74		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	26		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Nitrocellulose	2.4	U	mg/Kg	1.0	6.7	1.0	WS-WC-0050
Analysis Batch: 320-13493	Analysis Date: 04/02/2013 1250						DryWt Corrected: Y
Prep Batch: 320-13366	Prep Date: 04/01/2013 0604						

General Chemistry

Client Sample ID: **079SD-0305-0001-0002-SD**

Lab Sample ID: 240-22274-3 Date Sampled: 03/19/2013 1400

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	52		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	48		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SD-0306-0001-SD**

Lab Sample ID: 240-22274-4 Date Sampled: 03/19/2013 1410

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	52		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	48		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SD-0307-0001-SD**

Lab Sample ID: 240-22274-5 Date Sampled: 03/19/2013 1410
Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	49		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	51		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SD-0310-0001-SD**

Lab Sample ID: 240-22274-6 Date Sampled: 03/19/2013 1435

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	74		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	26		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0287M-0001-SB**

Lab Sample ID: 240-22274-7 Date Sampled: 03/19/2013 1623

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	1.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0288M-0001-SB**

Lab Sample ID: 240-22274-8 Date Sampled: 03/19/2013 1632

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	0.48		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0289M-0001-SB**

Lab Sample ID: 240-22274-9 Date Sampled: 03/19/2013 1424

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	1.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

Client: Environmental Chemical Corp. Job Number: 240-22274-1

General Chemistry

Client Sample ID: **079SB-0290M-0001-SB**

Lab Sample ID: 240-22274-10 Date Sampled: 03/19/2013 1616
Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	0.67		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0291M-0001-SB**

Lab Sample ID: 240-22274-11 Date Sampled: 03/19/2013 1635
Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	1.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0292M-0001-SO**

Lab Sample ID: 240-22274-12 Date Sampled: 03/19/2013 1526

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	0.92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0293M-0001-SO**

Lab Sample ID: 240-22274-13 Date Sampled: 03/19/2013 1521

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	1.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0294-0001-SO**

Lab Sample ID: 240-22274-14 Date Sampled: 03/19/2013 1502

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	77		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	23		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0295-0001-SO**

Lab Sample ID: 240-22274-15 Date Sampled: 03/19/2013 1505

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0256M-0001-SO**

Lab Sample ID: 240-22274-16 Date Sampled: 03/19/2013 1206

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	1.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0258M-0001-SO**

Lab Sample ID: 240-22274-17 Date Sampled: 03/19/2013 1202

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	0.71		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0260M-0001-SO**

Lab Sample ID: 240-22274-18 Date Sampled: 03/19/2013 1053

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N
Percent Moisture	1.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80080	Analysis Date: 04/01/2013 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0261M-0001-SO**

Lab Sample ID: 240-22274-19 Date Sampled: 03/19/2013 1129

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0262M-0001-SO**

Lab Sample ID: 240-22274-20 Date Sampled: 03/19/2013 1205

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0263M-0001-SO**

Lab Sample ID: 240-22274-21 Date Sampled: 03/19/2013 1142

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0264M-0001-SO**

Lab Sample ID: 240-22274-22 Date Sampled: 03/19/2013 1058

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0265-0001-SO**

Lab Sample ID: 240-22274-23 Date Sampled: 03/19/2013 1056

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	78		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	22		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0266-0001-SO**

Lab Sample ID: 240-22274-24 Date Sampled: 03/19/2013 1105

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0224M-0001-SO**

Lab Sample ID: 240-22274-25 Date Sampled: 03/19/2013 1022

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0225M-0001-SO**

Lab Sample ID: 240-22274-26 Date Sampled: 03/19/2013 1028

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.64		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0227M-0001-SO**

Lab Sample ID: 240-22274-27 Date Sampled: 03/19/2013 0910

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0228M-0001-SO**

Lab Sample ID: 240-22274-28 Date Sampled: 03/19/2013 0940

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0229M-0001-SO**

Lab Sample ID: 240-22274-29 Date Sampled: 03/19/2013 0958

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0230M-0001-SO**

Lab Sample ID: 240-22274-30 Date Sampled: 03/19/2013 1018

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0231M-0001-SO**

Lab Sample ID: 240-22274-31 Date Sampled: 03/19/2013 0925

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0232-0001-SO**

Lab Sample ID: 240-22274-32 Date Sampled: 03/19/2013 0926

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0233-0001-SO**

Lab Sample ID: 240-22274-33 Date Sampled: 03/19/2013 0922

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	78		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	22		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0320M-0001-SO**

Lab Sample ID: 240-22274-34 Date Sampled: 03/19/2013 0950

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SS-0321M-0001-SO**

Lab Sample ID: 240-22274-35 Date Sampled: 03/19/2013 1220

Client Matrix: Solid Date Received: 03/20/2013 1727

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	2.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
MRL 240-80302/5		91	99	99	97
MRL 240-80302/31		91	103	98	92

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-22274-2	079SD-0309-0001-SD	89	99	109	116
MB 240-80302/7		90	103	98	97
LCS 240-80302/6		87	89	86	85

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	59-138
DCA = 1,2-Dichloroethane-d4 (Surr)	61-130
TOL = Toluene-d8 (Surr)	85-115
BFB = 4-Bromofluorobenzene (Surr)	85-120

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
MRL 240-79725/5		107	105	112	110
MRL 240-79725/14		103	100	106	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-22274-1	079SD-0194-0001-TB	106	104	109	106
MB 240-79725/6		101	103	109	105
LCS 240-79725/4		109	103	110	103

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
240-22274-2	079SD-0309-0001-SD	65M	65	56	60	85	60
MB 240-80284/23-A		72	76	72	71	56	63
LCS 240-80284/24-A		74	74	70	67	52	60

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl (Surr)	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
MRL 240-80755/3		99	97	95	94	96	91
MRL 240-80755/16		94	92	90	94	106	92

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	50-150
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8081/DOD Organochlorine Pesticides (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
MRL 240-80447/15		104	104	107	116
MRL 240-80447/26		111	107	111	116

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8081/DOD Organochlorine Pesticides (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
240-22274-2	079SD-0309-0001-SD	117	119	100	92
MB 240-80060/15-A		106	200Q	88	91
LCS 240-80060/16-A		90	215Q	98	91
240-22274-2 MS	079SD-0309-0001-SD MS	126Q	106	148Q	97
240-22274-2 MSD	079SD-0309-0001-SD MSD	95	113	80	73

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	70-125
DCB = DCB Decachlorobiphenyl	55-130

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
240-22274-2	079SD-0309-0001-SD	80	74	62	78
MB 240-79894/23-A		68	66	62	70
LCS 240-79894/24-A		86	73	74	74
240-22274-2 MS	079SD-0309-0001-SD MS	78	78	66	80
240-22274-2 MSD	079SD-0309-0001-SD MSD	77	79	54Q	66

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	60-125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
MRL 240-80431/4		110	113	108	111
MRL 240-80431/11		116	118	143Q	131Q

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Surrogate Recovery Report

8330B_Nitroaromatics and Nitramines (HPLC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DNT1 %Rec	DNT2 %Rec
240-22274-2	079SD-0309-0001-SD	91	
240-22274-2	079SD-0309-0001-SD		109
MB 320-13509/1-A		92	
MB 320-13509/1-A			117M
LCS 320-13509/2-A		94	
240-22274-2 MS	079SD-0309-0001-SD MS	95	
240-22274-2 MSD	079SD-0309-0001-SD MSD	97	

Surrogate	Acceptance Limits
DNT = 3,4-Dinitrotoluene	78-118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 240-79725/6	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129318.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1055	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1055				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
2-Butanone (MEK)	0.57	U	0.57	10
Acetone	1.1	U	1.1	10
Benzene	0.25	U	0.13	1.0
Bromoform	0.64	U	0.64	1.0
Bromomethane	0.50	U	0.41	1.0
Carbon disulfide	0.25	U	0.13	1.0
Carbon tetrachloride	0.25	U	0.13	1.0
Chlorobenzene	0.25	U	0.15	1.0
1,1-Dichloroethane	0.25	U	0.15	1.0
Chloromethane	0.50	U	0.30	1.0
1,2-Dichloroethane	0.25	U	0.22	1.0
cis-1,3-Dichloropropene	0.25	U	0.14	1.0
1,1-Dichloroethene	0.25	U	0.19	1.0
Dibromochloromethane	0.25	U	0.18	1.0
1,2-Dichloroethene, Total	0.50	U	0.34	2.0
Bromodichloromethane	0.25	U	0.15	1.0
1,2-Dichloropropane	0.25	U	0.18	1.0
Ethylbenzene	0.25	U	0.17	1.0
2-Hexanone	0.50	U	0.41	10
Methyl tert-butyl ether	0.25	U	0.17	1.0
Methylene Chloride	0.344	J	0.33	1.0
4-Methyl-2-pentanone (MIBK)	0.50	U	0.32	10
Styrene	0.25	U	0.11	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.18	1.0
Tetrachloroethene	0.50	U	0.29	1.0
Toluene	0.25	U	0.13	1.0
trans-1,3-Dichloropropene	0.25	U	0.19	1.0
Chloroform	0.25	U	0.16	1.0
Bromochloromethane	0.50	U	0.29	1.0
1,1,1-Trichloroethane	0.25	U	0.22	1.0
1,1,2-Trichloroethane	0.50	U	0.27	1.0
1,2-Dibromoethane	0.25	U	0.24	1.0
Trichloroethene	0.25	U	0.17	1.0
Vinyl chloride	0.25	U	0.22	1.0
Xylenes, Total	0.75	U	0.28	2.0
Chloroethane	0.50	U	0.29	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 120
Toluene-d8 (Surr)	109	85 - 120
4-Bromofluorobenzene (Surr)	105	75 - 120
Dibromofluoromethane (Surr)	101	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	LCS 240-79725/4	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129316.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1002	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1002				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Butanone (MEK)	40.0	34.7	87	30 - 150	
Acetone	40.0	33.8	85	40 - 140	
Benzene	20.0	19.0	95	80 - 120	
Bromoform	20.0	19.2	96	70 - 130	
Bromomethane	20.0	15.2	76	30 - 145	
Carbon disulfide	20.0	19.5	98	35 - 160	
Carbon tetrachloride	20.0	25.6	128	65 - 140	
Chlorobenzene	20.0	19.5	97	80 - 120	
1,1-Dichloroethane	20.0	19.3	96	70 - 135	
Chloromethane	20.0	17.5	87	40 - 125	
1,2-Dichloroethane	20.0	20.2	101	70 - 130	
cis-1,3-Dichloropropene	20.0	18.8	94	70 - 130	
1,1-Dichloroethene	20.0	19.1	95	70 - 130	
Dibromochloromethane	20.0	19.4	97	60 - 135	
Bromodichloromethane	20.0	20.2	101	75 - 120	
1,2-Dichloropropane	20.0	19.0	95	75 - 125	
Ethylbenzene	20.0	19.6	98	75 - 125	
2-Hexanone	40.0	34.6	87	55 - 130	
Methyl tert-butyl ether	20.0	17.8	89	65 - 125	
Methylene Chloride	20.0	19.7	98	55 - 140	
4-Methyl-2-pentanone (MIBK)	40.0	32.1	80	60 - 135	
Styrene	20.0	21.2	106	65 - 135	
1,1,2,2-Tetrachloroethane	20.0	18.1	90	65 - 130	
Tetrachloroethene	20.0	20.3	102	45 - 150	
Toluene	20.0	20.4	102	75 - 120	
trans-1,3-Dichloropropene	20.0	20.4	102	55 - 140	
Chloroform	20.0	18.9	95	65 - 135	
Bromochloromethane	20.0	20.5	102	65 - 130	
1,1,1-Trichloroethane	20.0	22.7	114	65 - 130	
1,1,2-Trichloroethane	20.0	18.2	91	75 - 125	
Trichloroethene	20.0	19.6	98	70 - 125	
Vinyl chloride	20.0	17.7	89	50 - 145	
Xylenes, Total	60.0	59.3	99	75 - 130	
Chloroethane	20.0	17.8	89	60 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 120
Toluene-d8 (Surr)	110	85 - 120
4-Bromofluorobenzene (Surr)	103	75 - 120
Dibromofluoromethane (Surr)	109	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-79725 **Method: 8260B/DoD**
Preparation: 5030B

Lab Sample ID:	MRL 240-79725/5	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129317.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1029	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1029				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Butanone (MEK)	0.0100	0.00675	67	70 - 130	J ^
Acetone	0.0100	0.00824	82	70 - 130	J
Benzene	0.00100	0.000966	97	70 - 130	J
Bromoform	0.00100	0.000857	86	70 - 130	J
Bromomethane	0.00100	0.000956	96	70 - 130	J
Carbon disulfide	0.00100	0.000842	84	70 - 130	J
Carbon tetrachloride	0.00100	0.00136	136	70 - 130	^
Chlorobenzene	0.00100	0.000971	97	70 - 130	J
1,1-Dichloroethane	0.00100	0.000850	85	70 - 130	J
Chloromethane	0.00100	0.000984	98	70 - 130	J
1,2-Dichloroethane	0.00100	0.00115	115	70 - 130	
cis-1,3-Dichloropropene	0.00100	0.000862	86	70 - 130	J
1,1-Dichloroethene	0.00100	0.000973	97	70 - 130	J
Dibromochloromethane	0.00100	0.000769	77	70 - 130	J
Bromodichloromethane	0.00100	0.000830	83	70 - 130	J
1,2-Dichloropropane	0.00100	0.000868	87	70 - 130	J
Ethylbenzene	0.00100	0.000957	96	70 - 130	J
2-Hexanone	0.0100	0.00867	87	70 - 130	J
Methyl tert-butyl ether	0.00100	0.000831	83	70 - 130	J
Methylene Chloride	0.00100	0.00138	138	70 - 130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.00786	79	70 - 130	J
Styrene	0.00100	0.000958	96	70 - 130	J
1,1,2,2-Tetrachloroethane	0.00100	0.00109	109	70 - 130	
Tetrachloroethene	0.00100	0.00116	116	70 - 130	
Toluene	0.00100	0.00113	113	70 - 130	
trans-1,3-Dichloropropene	0.00100	0.000805	81	70 - 130	J
Chloroform	0.00100	0.000796	80	70 - 130	J
Bromochloromethane	0.00100	0.000968	97	70 - 130	J
1,1,1-Trichloroethane	0.00100	0.000959	96	70 - 130	J
1,1,2-Trichloroethane	0.00100	0.000795	80	70 - 130	J
Trichloroethene	0.00100	0.000931	93	70 - 130	J
Vinyl chloride	0.00100	0.000954	95	70 - 130	J
Xylenes, Total	0.00300	0.00310	103	70 - 130	
Chloroethane	0.00100	0.00101	101	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	50 - 150
Toluene-d8 (Surr)	112	50 - 150
4-Bromofluorobenzene (Surr)	110	50 - 150
Dibromofluoromethane (Surr)	107	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-79725 **Method: 8260B/DoD**
Preparation: 5030B

Lab Sample ID:	MRL 240-79725/14	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1426	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1426				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Butanone (MEK)	0.0100	0.00692	69	70 - 130	J ^
Acetone	0.0100	0.00654	65	70 - 130	J ^
Benzene	0.00100	0.000907	91	70 - 130	J
Bromoform	0.00100	0.000641	64	70 - 130	J ^
Bromomethane	0.00100	0.00123	123	70 - 130	
Carbon disulfide	0.00100	0.000845	85	70 - 130	J
Carbon tetrachloride	0.00100	0.000966	97	70 - 130	J
Chlorobenzene	0.00100	0.000923	92	70 - 130	J
1,1-Dichloroethane	0.00100	0.000803	80	70 - 130	J
Chloromethane	0.00100	0.00133	133	70 - 130	^
1,2-Dichloroethane	0.00100	0.00100	100	70 - 130	
cis-1,3-Dichloropropene	0.00100	0.000817	82	70 - 130	J
1,1-Dichloroethene	0.00100	0.000818	82	70 - 130	J
Dibromochloromethane	0.00100	0.000975	97	70 - 130	J
Bromodichloromethane	0.00100	0.000900	90	70 - 130	J
1,2-Dichloropropane	0.00100	0.000871	87	70 - 130	J
Ethylbenzene	0.00100	0.000840	84	70 - 130	J
2-Hexanone	0.0100	0.00702	70	70 - 130	J
Methyl tert-butyl ether	0.00100	0.000814	81	70 - 130	J
Methylene Chloride	0.00100	0.00150	150	70 - 130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.00664	66	70 - 130	J ^
Styrene	0.00100	0.000848	85	70 - 130	J
1,1,2,2-Tetrachloroethane	0.00100	0.000888	89	70 - 130	J
Tetrachloroethene	0.00100	0.00101	101	70 - 130	
Toluene	0.00100	0.000966	97	70 - 130	J
trans-1,3-Dichloropropene	0.00100	0.000873	87	70 - 130	J
Chloroform	0.00100	0.000920	92	70 - 130	J
Bromochloromethane	0.00100	0.000990	99	70 - 130	J
1,1,1-Trichloroethane	0.00100	0.000953	95	70 - 130	J
1,1,2-Trichloroethane	0.00100	0.000755	75	70 - 130	J
Trichloroethene	0.00100	0.000718	72	70 - 130	J
Vinyl chloride	0.00100	0.00133	133	70 - 130	^
Xylenes, Total	0.00300	0.00263	88	70 - 130	
Chloroethane	0.00100	0.00129	129	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	50 - 150
Toluene-d8 (Surr)	106	50 - 150
4-Bromofluorobenzene (Surr)	102	50 - 150
Dibromofluoromethane (Surr)	103	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-80302

Method: 8260B/DoD
Preparation: N/A

Lab Sample ID:	MB 240-80302/7	Analysis Batch:	240-80302	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	141707.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/02/2013 1621	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
2-Butanone (MEK)	2.0	U	1.4	20
Acetone	6.3	U	6.3	20
Benzene	0.50	U	0.23	5.0
Bromoform	0.50	U	0.33	5.0
Bromomethane	1.0	U	0.54	5.0
Carbon disulfide	0.50	U	0.44	5.0
Carbon tetrachloride	0.50	U	0.37	5.0
Chlorobenzene	0.50	U	0.33	5.0
1,1-Dichloroethane	0.50	U	0.36	5.0
Chloromethane	0.50	U	0.41	5.0
1,2-Dichloroethane	0.50	U	0.34	5.0
cis-1,3-Dichloropropene	0.50	U	0.34	5.0
1,1-Dichloroethene	1.0	U	0.52	5.0
Dibromochloromethane	1.0	U	0.55	5.0
1,2-Dichloroethene, Total	1.0	U	0.77	10
Bromodichloromethane	0.50	U	0.28	5.0
1,2-Dichloropropane	1.0	U	0.69	5.0
Ethylbenzene	0.50	U	0.26	5.0
2-Hexanone	1.0	U	0.63	20
Methylene Chloride	4.91	J	0.67	5.0
4-Methyl-2-pentanone (MIBK)	1.0	U	0.54	20
Styrene	0.50	U	0.15	5.0
1,1,2,2-Tetrachloroethane	0.50	U	0.34	5.0
Tetrachloroethene	1.0	U	0.52	5.0
Toluene	0.50	U	0.27	5.0
trans-1,3-Dichloropropene	1.0	U	0.54	5.0
Chloroform	0.50	U	0.29	5.0
Bromochloromethane	1.0	U	0.71	5.0
1,1,1-Trichloroethane	1.0	U	0.56	5.0
1,1,2-Trichloroethane	0.50	U	0.39	5.0
1,2-Dibromoethane	1.0	U	0.50	5.0
Trichloroethene	0.50	U	0.42	5.0
Vinyl chloride	0.50	U	0.39	5.0
Xylenes, Total	1.5	U	0.67	10
Chloroethane	1.0	U	0.86	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	61 - 130
Toluene-d8 (Surr)	98	85 - 115
4-Bromofluorobenzene (Surr)	97	85 - 120
Dibromofluoromethane (Surr)	90	59 - 138

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80302

Method: 8260B/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-80302/5	Analysis Batch:	240-80302	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	141705.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/02/2013 1538	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Butanone (MEK)	0.0100	0.00833	83	70 - 130	J
Acetone	0.0100	0.0129	129	70 - 130	
Benzene	0.00500	0.00449	90	70 - 130	
Bromoform	0.00500	0.00535	107	70 - 130	
Bromomethane	0.00500	0.00550	110	70 - 130	
Carbon disulfide	0.00500	0.00561	112	70 - 130	
Carbon tetrachloride	0.00500	0.00357	71	70 - 130	
Chlorobenzene	0.00500	0.00439	88	70 - 130	
1,1-Dichloroethane	0.00500	0.00432	86	70 - 130	
Chloromethane	0.00500	0.00508	102	70 - 130	
1,2-Dichloroethane	0.00500	0.00457	91	70 - 130	
cis-1,3-Dichloropropene	0.00500	0.00382	76	70 - 130	
1,1-Dichloroethene	0.00500	0.00432	86	70 - 130	
Dibromochloromethane	0.00500	0.00576	115	70 - 130	
Bromodichloromethane	0.00500	0.00379	76	70 - 130	
1,2-Dichloropropane	0.00500	0.00461	92	70 - 130	
Ethylbenzene	0.00500	0.00465	93	70 - 130	
2-Hexanone	0.0100	0.00795	80	70 - 130	J
Methylene Chloride	0.00500	0.00939	188	70 - 130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.00813	81	70 - 130	J
Styrene	0.00500	0.00411	82	70 - 130	
1,1,2,2-Tetrachloroethane	0.00500	0.00425	85	70 - 130	
Tetrachloroethene	0.00500	0.00465	93	70 - 130	
Toluene	0.00500	0.00461	92	70 - 130	
trans-1,3-Dichloropropene	0.00500	0.00363	73	70 - 130	
Chloroform	0.00500	0.00427	85	70 - 130	
Bromochloromethane	0.00500	0.00445	89	70 - 130	
1,1,1-Trichloroethane	0.00500	0.00407	81	70 - 130	
1,1,2-Trichloroethane	0.00500	0.00451	90	70 - 130	
Trichloroethene	0.00500	0.00440	88	70 - 130	
Vinyl chloride	0.00500	0.00487	97	70 - 130	
Xylenes, Total	0.0100	0.00879	88	70 - 130	
Chloroethane	0.00500	0.00507	101	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	50 - 150
Toluene-d8 (Surr)	99	50 - 150
4-Bromofluorobenzene (Surr)	97	50 - 150
Dibromofluoromethane (Surr)	91	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 240-80302

Method: 8260B/DoD
Preparation: N/A

Lab Sample ID:	LCS 240-80302/6	Analysis Batch:	240-80302	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	141706.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/02/2013 1600	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Butanone (MEK)	100	99.1	99	30 - 160	
Acetone	100	110	110	20 - 160	
Benzene	50.0	45.2	90	75 - 125	
Bromoform	50.0	40.0	80	55 - 135	
Bromomethane	50.0	43.5	87	30 - 160	
Carbon disulfide	50.0	41.6	83	45 - 160	
Carbon tetrachloride	50.0	46.0	92	65 - 135	
Chlorobenzene	50.0	43.1	86	75 - 125	
1,1-Dichloroethane	50.0	45.1	90	75 - 125	
Chloromethane	50.0	43.2	86	50 - 130	
1,2-Dichloroethane	50.0	45.4	91	70 - 135	
cis-1,3-Dichloropropene	50.0	40.0	80	70 - 125	
1,1-Dichloroethene	50.0	48.5	97	65 - 135	
Dibromochloromethane	50.0	38.8	78	65 - 130	
Bromodichloromethane	50.0	38.4	77	70 - 130	
1,2-Dichloropropane	50.0	45.5	91	70 - 120	
Ethylbenzene	50.0	44.6	89	75 - 125	
2-Hexanone	100	93.4	93	45 - 145	
Methylene Chloride	50.0	47.1	94	55 - 140	
4-Methyl-2-pentanone (MIBK)	100	96.2	96	45 - 145	
Styrene	50.0	45.2	90	75 - 125	
1,1,2,2-Tetrachloroethane	50.0	48.8	98	55 - 130	
Tetrachloroethene	50.0	45.2	90	65 - 140	
Toluene	50.0	44.4	89	70 - 125	
trans-1,3-Dichloropropene	50.0	40.7	81	65 - 125	
Chloroform	50.0	46.0	92	70 - 125	
Bromochloromethane	50.0	46.8	94	70 - 125	
1,1,1-Trichloroethane	50.0	46.8	94	70 - 135	
1,1,2-Trichloroethane	50.0	46.2	92	60 - 125	
Trichloroethene	50.0	43.3	87	75 - 125	
Vinyl chloride	50.0	45.0	90	60 - 125	
Xylenes, Total	150	132	88	75 - 125	
Chloroethane	50.0	46.7	93	40 - 155	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	61 - 130
Toluene-d8 (Surr)	86	85 - 115
4-Bromofluorobenzene (Surr)	85	85 - 120
Dibromofluoromethane (Surr)	87	59 - 138

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80302

Method: 8260B/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-80302/31	Analysis Batch:	240-80302	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	141731.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/03/2013 0112	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Butanone (MEK)	0.0100	0.00984	98	70 - 130	J
Acetone	0.0100	0.0141	141	70 - 130	^
Benzene	0.00500	0.00560	112	70 - 130	
Bromoform	0.00500	0.00584	117	70 - 130	
Bromomethane	0.00500	0.00628	126	70 - 130	
Carbon disulfide	0.00500	0.00597	119	70 - 130	
Carbon tetrachloride	0.00500	0.00408	82	70 - 130	
Chlorobenzene	0.00500	0.00547	109	70 - 130	
1,1-Dichloroethane	0.00500	0.00532	106	70 - 130	
Chloromethane	0.00500	0.00584	117	70 - 130	
1,2-Dichloroethane	0.00500	0.00574	115	70 - 130	
cis-1,3-Dichloropropene	0.00500	0.00425	85	70 - 130	
1,1-Dichloroethene	0.00500	0.00542	108	70 - 130	
Dibromochloromethane	0.00500	0.00612	122	70 - 130	
Bromodichloromethane	0.00500	0.00432	86	70 - 130	
1,2-Dichloropropane	0.00500	0.00551	110	70 - 130	
Ethylbenzene	0.00500	0.00546	109	70 - 130	
2-Hexanone	0.0100	0.00999	100	70 - 130	J
Methylene Chloride	0.00500	0.00791	158	70 - 130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.0104	104	70 - 130	
Styrene	0.00500	0.00493	99	70 - 130	
1,1,2,2-Tetrachloroethane	0.00500	0.00597	119	70 - 130	
Tetrachloroethene	0.00500	0.00565	113	70 - 130	
Toluene	0.00500	0.00542	108	70 - 130	
trans-1,3-Dichloropropene	0.00500	0.00388	78	70 - 130	
Chloroform	0.00500	0.00530	106	70 - 130	
Bromochloromethane	0.00500	0.00518	104	70 - 130	
1,1,1-Trichloroethane	0.00500	0.00497	99	70 - 130	
1,1,2-Trichloroethane	0.00500	0.00564	113	70 - 130	
Trichloroethene	0.00500	0.00549	110	70 - 130	
Vinyl chloride	0.00500	0.00587	117	70 - 130	
Xylenes, Total	0.0100	0.0106	106	70 - 130	
Chloroethane	0.00500	0.00708	142	70 - 130	^

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	50 - 150
Toluene-d8 (Surr)	98	50 - 150
4-Bromofluorobenzene (Surr)	92	50 - 150
Dibromofluoromethane (Surr)	91	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-80284

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	MB 240-80284/23-A	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-80284	Lab File ID:	30405006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/05/2013 1303	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/02/2013 1245			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Acenaphthene	3.3	U	3.3	6.7
Acenaphthylene	3.3	U	3.3	6.7
Anthracene	3.3	U	3.3	6.7
Benzo[a]anthracene	3.3	U	3.3	6.7
Benzo[a]pyrene	3.3	U	3.3	6.7
Benzo[b]fluoranthene	3.3	U	3.3	6.7
Benzo[g,h,i]perylene	3.3	U	3.3	6.7
Benzoic acid	330	U	330	660
Benzo[k]fluoranthene	3.3	U	3.3	6.7
Benzyl alcohol	27	U	21	330
Bis(2-chloroethoxy)methane	27	U	22	100
Bis(2-chloroethyl)ether	3.3	U	2.0	100
bis (2-chloroisopropyl) ether	27	U	9.5	100
Bis(2-ethylhexyl) phthalate	31.3	J	19	50
4-Bromophenyl phenyl ether	27	U	13	50
Butyl benzyl phthalate	27	U	10	50
Carbazole	27	U	27	50
4-Chloroaniline	27	U	17	150
4-Chloro-3-methylphenol	27	U	21	150
2-Chloronaphthalene	3.3	U	3.3	50
2-Chlorophenol	27	U	27	50
4-Chlorophenyl phenyl ether	27	U	13	50
Chrysene	3.3	U	1.1	6.7
Dibenz(a,h)anthracene	3.3	U	3.3	6.7
Dibenzofuran	3.3	U	3.3	50
1,2-Dichlorobenzene	27	U	9.7	50
1,3-Dichlorobenzene	27	U	11	50
1,4-Dichlorobenzene	27	U	20	50
3,3'-Dichlorobenzidine	80	U	18	100
2,4-Dichlorophenol	27	U	20	150
Diethyl phthalate	27	U	16	50
2,4-Dimethylphenol	80	U	20	150
Dimethyl phthalate	27	U	17	50
Di-n-butyl phthalate	27	U	15	50
4,6-Dinitro-2-methylphenol	80	U	80	150
2,4-Dinitrophenol	80	U	80	330
2,4-Dinitrotoluene	27	U	27	200
2,6-Dinitrotoluene	27	U	21	200
Di-n-octyl phthalate	27	U	27	50
Fluoranthene	3.3	U	3.3	6.7
Fluorene	3.3	U	3.3	6.7
Hexachlorobenzene	3.3	U	2.1	6.7
Hexachlorobutadiene	27	U	27	50
Hexachlorocyclopentadiene	27	U	27	330
Hexachloroethane	27	U	9.0	50

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-80284

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	MB 240-80284/23-A	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-80284	Lab File ID:	30405006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/05/2013 1303	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/02/2013 1245			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Indeno[1,2,3-cd]pyrene	3.3	U	3.3	6.7
Isophorone	27	U	13	50
2-Methylnaphthalene	3.3	U	3.3	6.7
2-Methylphenol	80	U	80	200
3 & 4 Methylphenol	80	U	20	400
Naphthalene	3.3	U	3.3	6.7
2-Nitroaniline	27	U	9.1	200
3-Nitroaniline	80	U	16	200
4-Nitroaniline	27	U	26	200
Nitrobenzene	3.3	U	2.2	100
2-Nitrophenol	27	U	27	50
4-Nitrophenol	80	U	80	330
N-Nitrosodi-n-propylamine	27	U	27	50
N-Nitrosodiphenylamine	27	U	21	50
Pentachlorophenol	80	U	80	150
Phenanthrene	3.3	U	3.3	6.7
Phenol	27	U	27	50
Pyrene	3.3	U	3.3	6.7
1,2,4-Trichlorobenzene	27	U	27	50
2,4,5-Trichlorophenol	27	U	25	150
2,4,6-Trichlorophenol	80	U	80	150

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	71	45 - 105
2-Fluorophenol (Surr)	72	35 - 105
Nitrobenzene-d5 (Surr)	72	35 - 100
Phenol-d5 (Surr)	76	40 - 100
Terphenyl-d14 (Surr)	63	30 - 125
2,4,6-Tribromophenol (Surr)	56	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 240-80284

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	LCS 240-80284/24-A	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-80284	Lab File ID:	30405007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/05/2013 1324	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/02/2013 1245			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	667	508	76	45 - 110	
Acenaphthylene	667	527	79	45 - 105	
Anthracene	667	557	83	55 - 105	
Benzo[a]anthracene	667	570	86	50 - 110	
Benzo[a]pyrene	667	517	78	50 - 110	
Benzo[b]fluoranthene	667	593	89	45 - 115	
Benzo[g,h,i]perylene	667	550	82	40 - 125	
Benzoic acid	667	330	19	0 - 110	U
Benzo[k]fluoranthene	667	504	76	45 - 125	
Benzyl alcohol	667	501	75	20 - 125	
Bis(2-chloroethoxy)methane	667	520	78	45 - 110	
Bis(2-chloroethyl)ether	667	502	75	40 - 105	
bis (2-chloroisopropyl) ether	667	516	77	20 - 115	
Bis(2-ethylhexyl) phthalate	667	551	83	45 - 125	
4-Bromophenyl phenyl ether	667	529	79	45 - 115	
Butyl benzyl phthalate	667	567	85	50 - 125	
Carbazole	667	546	82	45 - 115	
4-Chloroaniline	667	324	49	10 - 110	
4-Chloro-3-methylphenol	667	549	82	45 - 115	
2-Chloronaphthalene	667	500	75	45 - 105	
2-Chlorophenol	667	543	81	45 - 105	
4-Chlorophenyl phenyl ether	667	532	80	45 - 110	
Chrysene	667	583	88	55 - 110	
Dibenz(a,h)anthracene	667	548	82	40 - 125	
Dibenzofuran	667	531	80	50 - 105	
1,2-Dichlorobenzene	667	493	74	45 - 110	
1,3-Dichlorobenzene	667	478	72	40 - 100	
1,4-Dichlorobenzene	667	491	74	35 - 105	
3,3'-Dichlorobenzidine	667	359	54	10 - 130	
2,4-Dichlorophenol	667	522	78	45 - 110	
Diethyl phthalate	667	544	82	50 - 115	
2,4-Dimethylphenol	667	449	67	30 - 105	
Dimethyl phthalate	667	536	80	50 - 110	
Di-n-butyl phthalate	667	590	89	55 - 110	
4,6-Dinitro-2-methylphenol	667	521	78	30 - 135	
2,4-Dinitrophenol	667	361	54	15 - 130	
2,4-Dinitrotoluene	667	564	85	50 - 115	
2,6-Dinitrotoluene	667	549	82	50 - 110	
Di-n-octyl phthalate	667	594	89	40 - 130	
Fluoranthene	667	565	85	55 - 115	
Fluorene	667	527	79	50 - 110	
Hexachlorobenzene	667	516	77	45 - 120	
Hexachlorobutadiene	667	500	75	40 - 115	
Hexachloroethane	667	488	73	35 - 110	
Indeno[1,2,3-cd]pyrene	667	535	80	40 - 120	
Isophorone	667	523	78	45 - 110	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 240-80284

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	LCS 240-80284/24-A	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-80284	Lab File ID:	30405007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/05/2013 1324	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/02/2013 1245			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	667	500	75	45 - 105	
2-Methylphenol	667	521	78	40 - 105	
3 & 4 Methylphenol	1330	1050	79	40 - 105	
Naphthalene	667	523	78	40 - 105	
2-Nitroaniline	667	550	82	45 - 120	
3-Nitroaniline	667	475	71	25 - 110	
4-Nitroaniline	667	553	83	35 - 115	
Nitrobenzene	667	520	78	40 - 115	
2-Nitrophenol	667	539	81	40 - 110	
4-Nitrophenol	667	501	75	15 - 140	
N-Nitrosodi-n-propylamine	667	516	77	40 - 115	
N-Nitrosodiphenylamine	667	588	88	50 - 115	
Pentachlorophenol	667	420	63	25 - 120	
Phenanthrene	667	537	81	50 - 110	
Phenol	667	564	85	40 - 100	
Pyrene	667	568	85	45 - 125	
1,2,4-Trichlorobenzene	667	513	77	45 - 110	
2,4,5-Trichlorophenol	667	490	73	50 - 110	
2,4,6-Trichlorophenol	667	425	64	45 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	67	45 - 105
2-Fluorophenol (Surr)	74	35 - 105
Nitrobenzene-d5 (Surr)	70	35 - 100
Phenol-d5 (Surr)	74	40 - 100
Terphenyl-d14 (Surr)	60	30 - 125
2,4,6-Tribromophenol (Surr)	52	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80755

Method: 8270C/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-80755/3	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30405003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/05/2013 1146	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	5.00	4.97	99	70 - 130	
Acenaphthylene	5.00	5.06	101	70 - 130	
Anthracene	5.00	5.01	100	70 - 130	
Benzo[a]anthracene	5.00	4.61	92	70 - 130	
Benzo[a]pyrene	5.00	4.79	96	70 - 130	
Benzo[b]fluoranthene	5.00	4.74	95	70 - 130	
Benzo[g,h,i]perylene	5.00	4.85	97	70 - 130	
Benzoic acid	10.0	8.72	87	70 - 130	
Benzo[k]fluoranthene	5.00	4.76	95	70 - 130	
Benzyl alcohol	5.00	4.92	98	70 - 130	
Bis(2-chloroethoxy)methane	5.00	4.97	99	70 - 130	
Bis(2-chloroethyl)ether	5.00	4.92	98	70 - 130	
bis (2-chloroisopropyl) ether	5.00	4.95	99	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.66	93	70 - 130	
4-Bromophenyl phenyl ether	5.00	5.00	100	70 - 130	
Butyl benzyl phthalate	5.00	4.75	95	70 - 130	
Carbazole	5.00	4.93	99	70 - 130	
4-Chloroaniline	5.00	4.74	95	70 - 130	
4-Chloro-3-methylphenol	5.00	4.98	100	70 - 130	
2-Chloronaphthalene	5.00	4.84	97	70 - 130	
2-Chlorophenol	5.00	5.03	101	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.91	98	70 - 130	
Chrysene	5.00	4.89	98	70 - 130	
Dibenz(a,h)anthracene	5.00	4.80	96	70 - 130	
Dibenzofuran	5.00	4.92	98	70 - 130	
1,2-Dichlorobenzene	5.00	5.07	101	70 - 130	
1,3-Dichlorobenzene	5.00	5.11	102	70 - 130	
1,4-Dichlorobenzene	5.00	5.10	102	70 - 130	
3,3'-Dichlorobenzidine	10.0	9.78	98	70 - 130	
2,4-Dichlorophenol	5.00	4.98	100	70 - 130	
Diethyl phthalate	5.00	4.89	98	70 - 130	
2,4-Dimethylphenol	5.00	5.07	101	70 - 130	
Dimethyl phthalate	5.00	4.92	98	70 - 130	
Di-n-butyl phthalate	5.00	5.16	103	70 - 130	
4,6-Dinitro-2-methylphenol	10.0	10.2	102	70 - 130	
2,4-Dinitrophenol	10.0	9.29	93	70 - 130	
2,4-Dinitrotoluene	5.00	5.12	102	70 - 130	
2,6-Dinitrotoluene	5.00	5.05	101	70 - 130	
Di-n-octyl phthalate	5.00	5.06	101	70 - 130	
Fluoranthene	5.00	4.91	98	70 - 130	
Fluorene	5.00	4.89	98	70 - 130	
Hexachlorobenzene	5.00	4.67	93	70 - 130	
Hexachlorobutadiene	5.00	5.09	102	70 - 130	
Hexachloroethane	5.00	5.02	100	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	4.76	95	70 - 130	
Isophorone	5.00	5.06	101	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80755 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-80755/3	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30405003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/05/2013 1146	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	5.00	4.79	96	70 - 130	
2-Methylphenol	5.00	4.98	100	70 - 130	
3 & 4 Methylphenol	5.00	4.93	99	70 - 130	
Naphthalene	5.00	4.97	99	70 - 130	
2-Nitroaniline	5.00	5.07	101	70 - 130	
3-Nitroaniline	5.00	4.97	99	70 - 130	
4-Nitroaniline	5.00	5.01	100	70 - 130	
Nitrobenzene	5.00	5.06	101	70 - 130	
2-Nitrophenol	5.00	5.12	102	70 - 130	
4-Nitrophenol	10.0	10.1	101	70 - 130	
N-Nitrosodi-n-propylamine	5.00	4.92	98	70 - 130	
N-Nitrosodiphenylamine	10.0	9.57	96	70 - 130	
Pentachlorophenol	10.0	9.91	99	70 - 130	
Phenanthrene	5.00	4.82	96	70 - 130	
Phenol	5.00	5.06	101	70 - 130	
Pyrene	5.00	4.94	99	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.94	99	70 - 130	
2,4,5-Trichlorophenol	5.00	4.83	97	70 - 130	
2,4,6-Trichlorophenol	5.00	4.79	96	70 - 130	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	94	50 - 150
2-Fluorophenol (Surr)	99	50 - 150
Nitrobenzene-d5 (Surr)	95	50 - 150
Phenol-d5 (Surr)	97	50 - 150
Terphenyl-d14 (Surr)	91	50 - 150
2,4,6-Tribromophenol (Surr)	96	50 - 150

Method Reporting Limit Check - Batch: 240-80755 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-80755/16	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30405016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/05/2013 1627	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	5.00	4.83	97	70 - 130	
Acenaphthylene	5.00	4.91	98	70 - 130	
Anthracene	5.00	5.02	100	70 - 130	
Benzo[a]anthracene	5.00	4.75	95	70 - 130	
Benzo[a]pyrene	5.00	4.75	95	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80755 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-80755/16	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30405016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/05/2013 1627	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzo[b]fluoranthene	5.00	4.60	92	70 - 130	
Benzo[g,h,i]perylene	5.00	4.92	98	70 - 130	
Benzoic acid	10.0	8.55	86	70 - 130	M
Benzo[k]fluoranthene	5.00	4.76	95	70 - 130	
Benzyl alcohol	5.00	4.57	91	70 - 130	
Bis(2-chloroethoxy)methane	5.00	4.94	99	70 - 130	
Bis(2-chloroethyl)ether	5.00	4.91	98	70 - 130	
bis (2-chloroisopropyl) ether	5.00	4.66	93	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	5.00	100	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.99	100	70 - 130	
Butyl benzyl phthalate	5.00	5.06	101	70 - 130	
Carbazole	5.00	4.92	98	70 - 130	
4-Chloroaniline	5.00	4.82	96	70 - 130	
4-Chloro-3-methylphenol	5.00	4.93	99	70 - 130	
2-Chloronaphthalene	5.00	4.74	95	70 - 130	
2-Chlorophenol	5.00	4.84	97	70 - 130	
4-Chlorophenyl phenyl ether	5.00	5.03	101	70 - 130	
Chrysene	5.00	4.90	98	70 - 130	
Dibenz(a,h)anthracene	5.00	4.92	98	70 - 130	
Dibenzofuran	5.00	4.90	98	70 - 130	
1,2-Dichlorobenzene	5.00	4.83	97	70 - 130	
1,3-Dichlorobenzene	5.00	4.91	98	70 - 130	
1,4-Dichlorobenzene	5.00	4.95	99	70 - 130	
3,3'-Dichlorobenzidine	10.0	10.3	103	70 - 130	
2,4-Dichlorophenol	5.00	5.00	100	70 - 130	
Diethyl phthalate	5.00	4.97	99	70 - 130	
2,4-Dimethylphenol	5.00	4.98	100	70 - 130	
Dimethyl phthalate	5.00	4.91	98	70 - 130	
Di-n-butyl phthalate	5.00	5.27	105	70 - 130	
4,6-Dinitro-2-methylphenol	10.0	7.98	80	70 - 130	
2,4-Dinitrophenol	10.0	6.29	63	70 - 130	^
2,4-Dinitrotoluene	5.00	4.88	98	70 - 130	
2,6-Dinitrotoluene	5.00	4.96	99	70 - 130	
Di-n-octyl phthalate	5.00	5.24	105	70 - 130	
Fluoranthene	5.00	5.01	100	70 - 130	
Fluorene	5.00	4.96	99	70 - 130	
Hexachlorobenzene	5.00	4.80	96	70 - 130	
Hexachlorobutadiene	5.00	5.14	103	70 - 130	
Hexachloroethane	5.00	4.52	90	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	4.82	96	70 - 130	
Isophorone	5.00	5.01	100	70 - 130	
2-Methylnaphthalene	5.00	4.87	97	70 - 130	
2-Methylphenol	5.00	4.83	97	70 - 130	
3 & 4 Methylphenol	5.00	4.67	93	70 - 130	
Naphthalene	5.00	4.99	100	70 - 130	
2-Nitroaniline	5.00	4.80	96	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80755 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-80755/16	Analysis Batch:	240-80755	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30405016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/05/2013 1627	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
3-Nitroaniline	5.00	4.90	98	70 - 130	
4-Nitroaniline	5.00	4.94	99	70 - 130	
Nitrobenzene	5.00	4.80	96	70 - 130	
2-Nitrophenol	5.00	4.73	95	70 - 130	
4-Nitrophenol	10.0	9.47	95	70 - 130	
N-Nitrosodi-n-propylamine	5.00	4.77	95	70 - 130	
N-Nitrosodiphenylamine	10.0	10.6	106	70 - 130	
Pentachlorophenol	10.0	10.6	106	70 - 130	
Phenanthrene	5.00	4.84	97	70 - 130	
Phenol	5.00	4.87	97	70 - 130	
Pyrene	5.00	4.93	99	70 - 130	
1,2,4-Trichlorobenzene	5.00	5.04	101	70 - 130	
2,4,5-Trichlorophenol	5.00	4.93	99	70 - 130	
2,4,6-Trichlorophenol	5.00	4.85	97	70 - 130	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	94	50 - 150
2-Fluorophenol (Surr)	94	50 - 150
Nitrobenzene-d5 (Surr)	90	50 - 150
Phenol-d5 (Surr)	92	50 - 150
Terphenyl-d14 (Surr)	92	50 - 150
2,4,6-Tribromophenol (Surr)	106	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-80060

Method: 8081/DOD
Preparation: 3540C

Lab Sample ID:	MB 240-80060/15-A	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	240-80060	Lab File ID:	P9040320.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/04/2013 0123	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/01/2013 1009			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
4,4'-DDD	0.67	U	0.62	2.0
4,4'-DDE	0.67	U	0.39	1.7
4,4'-DDT	0.67	U	0.63	2.0
Aldrin	1.3	U	1.2	4.0
alpha-BHC	1.3	U	0.73	2.5
alpha-Chlordane	1.3	U	0.94	3.0
beta-BHC	1.3	U	1.1	3.5
delta-BHC	1.3	U	1.2	4.0
Dieldrin	0.67	U	0.47	1.7
Endosulfan I	0.67	U	0.52	1.7
Endosulfan II	1.3	U	0.82	2.5
Endosulfan sulfate	1.3	U	0.87	3.0
Endrin	0.67	U	0.50	1.7
Endrin aldehyde	1.3	U	1.0	3.0
Endrin ketone	0.67	U	0.63	2.0
gamma-BHC (Lindane)	1.3	U	0.74	2.5
gamma-Chlordane	0.67	U	0.42	1.7
Heptachlor	1.3	U	1.1	3.5
Heptachlor epoxide	1.3	U	0.80	2.5
Methoxychlor	3.3	U	1.5	5.0
Toxaphene	20	U	19	67

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	88	55 - 130
Tetrachloro-m-xylene	106	70 - 125

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	91		55 - 130
Tetrachloro-m-xylene	200	Q	70 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 240-80060

Method: 8081/DOD
Preparation: 3540C

Lab Sample ID:	LCS 240-80060/16-A	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	240-80060	Lab File ID:	P9040321.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/04/2013 0151	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/01/2013 1009			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	33.3	35.7	107	30 - 135	
4,4'-DDE	33.3	27.5	82	70 - 125	
4,4'-DDT	33.3	25.2	76	45 - 140	
Aldrin	33.3	29.0	87	45 - 140	
alpha-BHC	33.3	28.3	85	60 - 125	
alpha-Chlordane	33.3	24.5	74	65 - 120	
beta-BHC	33.3	26.6	80	60 - 125	
delta-BHC	33.3	30.7	92	55 - 130	
Dieldrin	33.3	28.1	84	65 - 125	
Endosulfan I	33.3	25.7	77	15 - 135	
Endosulfan II	33.3	21.6	65	35 - 140	
Endosulfan sulfate	33.3	26.9	81	60 - 135	
Endrin	33.3	24.6	74	60 - 135	
Endrin aldehyde	33.3	27.7	83	35 - 145	
Endrin ketone	33.3	24.8	74	65 - 135	
gamma-BHC (Lindane)	33.3	25.8	77	60 - 125	
gamma-Chlordane	33.3	27.7	83	65 - 125	
Heptachlor	33.3	21.7	65	50 - 140	
Heptachlor epoxide	33.3	28.3	85	65 - 130	
Methoxychlor	33.3	27.7	83	55 - 145	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	98	55 - 130
Tetrachloro-m-xylene	90	70 - 125

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	91		55 - 130
Tetrachloro-m-xylene	215	Q	70 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-80060

Method: 8081/DOD
Preparation: 3540C

MS Lab Sample ID:	240-22274-2	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	240-80060	Lab File ID:	P9040318.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	29.57 g
Analysis Date:	04/04/2013 0027			Final Weight/Volume:	10 mL
Prep Date:	04/01/2013 1009			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	240-22274-2	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	240-80060	Lab File ID:	P9040319.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	29.80 g
Analysis Date:	04/04/2013 0055			Final Weight/Volume:	10 mL
Prep Date:	04/01/2013 1009			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	141	123	30 - 135	16	30	J	
4,4'-DDE	95	81	70 - 125	17	30		
4,4'-DDT	103	88	45 - 140	16	30		
Aldrin	90	80	45 - 140	12	30		
alpha-BHC	89	77	60 - 125	15	30		
alpha-Chlordane	79	69	65 - 120	15	30		
beta-BHC	95	86	60 - 125	11	30		
delta-BHC	71	85	55 - 130	18	30		
Dieldrin	88	77	65 - 125	14	30		
Endosulfan I	81	73	15 - 135	11	30		
Endosulfan II	69	60	35 - 140	16	30		
Endosulfan sulfate	90	75	60 - 135	19	30		
Endrin	81	66	60 - 135	21	30		
Endrin aldehyde	84	74	35 - 145	15	30		
Endrin ketone	91	76	65 - 135	18	30		
gamma-BHC (Lindane)	80	70	60 - 125	15	30		
gamma-Chlordane	90	79	65 - 125	14	30		
Heptachlor	76	71	50 - 140	8	30		
Heptachlor epoxide	88	78	65 - 130	13	30		
Methoxychlor	105	90	55 - 145	17	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	97	80	55 - 130
Tetrachloro-m-xylene	106	95	70 - 125

Surrogate	MS % Rec		MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	148	Q	73	55 - 130
Tetrachloro-m-xylene	126	Q	113	70 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-80060

Method: 8081/DOD
Preparation: 3540C

MS Lab Sample ID:	240-22274-2	Units: ug/Kg		MSD Lab Sample ID:	240-22274-2
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	2.0			Dilution:	2.0
Analysis Date:	04/04/2013 0027			Analysis Date:	04/04/2013 0055
Prep Date:	04/01/2013 1009			Prep Date:	04/01/2013 1009
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
4,4'-DDD	1.8	U	45.9	45.6	64.9	J	56.1
4,4'-DDE	1.8	U	45.9	45.6	43.7		36.9
4,4'-DDT	1.8	U	45.9	45.6	47.4		40.3
Aldrin	3.6	U	45.9	45.6	41.4		36.6
alpha-BHC	3.6	U	45.9	45.6	40.7		35.1
alpha-Chlordane	3.6	U	45.9	45.6	36.4		31.3
beta-BHC	3.6	U	45.9	45.6	43.7		39.1
delta-BHC	3.6	U	45.9	45.6	32.5		38.8
Dieldrin	1.8	U	45.9	45.6	40.5		35.2
Endosulfan I	1.8	U	45.9	45.6	37.2		33.4
Endosulfan II	3.6	U	45.9	45.6	31.9		27.2
Endosulfan sulfate	3.6	U	45.9	45.6	41.3		34.2
Endrin	1.8	U	45.9	45.6	37.2		30.0
Endrin aldehyde	3.6	U	45.9	45.6	38.7		33.5
Endrin ketone	1.8	U	45.9	45.6	41.7		34.7
gamma-BHC (Lindane)	3.6	U	45.9	45.6	36.9		31.8
gamma-Chlordane	1.8	U	45.9	45.6	41.3		36.0
Heptachlor	3.6	U	45.9	45.6	34.8		32.2
Heptachlor epoxide	3.6	U	45.9	45.6	40.3		35.4
Methoxychlor	9.0	U	45.9	45.6	48.4		40.8

Method Reporting Limit Check - Batch: 240-80447

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-80447/15	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P9040315.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 2303	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00382	76	70 - 130	J
4,4'-DDE	0.00500	0.00438	88	70 - 130	J
4,4'-DDT	0.00500	0.00453	91	70 - 130	J
Aldrin	0.00500	0.00500	100	70 - 130	
alpha-BHC	0.00500	0.00485	97	70 - 130	J
alpha-Chlordane	0.00500	0.00498	100	70 - 130	J
beta-BHC	0.00500	0.00509	102	70 - 130	
delta-BHC	0.00500	0.00439	88	70 - 130	J
Dieldrin	0.00500	0.00489	98	70 - 130	J
Endosulfan I	0.00500	0.00513	103	70 - 130	
Endosulfan II	0.00500	0.00552	110	70 - 130	
Endosulfan sulfate	0.00500	0.00509	102	70 - 130	
Endrin	0.00500	0.00495	99	70 - 130	J
Endrin aldehyde	0.00500	0.00497	99	70 - 130	J
Endrin ketone	0.00500	0.00521	104	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00491	98	70 - 130	J
gamma-Chlordane	0.00500	0.00486	97	70 - 130	J
Heptachlor	0.00500	0.00506	101	70 - 130	
Heptachlor epoxide	0.00500	0.00504	101	70 - 130	
Methoxychlor	0.00500	0.00494	99	70 - 130	J

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	107	50 - 150
Tetrachloro-m-xylene	104	50 - 150

Method Reporting Limit Check - Batch: 240-80447

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-80447/15	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P9040315.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 2303	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00367	73	70 - 130	J
4,4'-DDE	0.00500	0.00468	94	70 - 130	J
4,4'-DDT	0.00500	0.00474	95	70 - 130	J
Aldrin	0.00500	0.00476	95	70 - 130	J
alpha-BHC	0.00500	0.00459	92	70 - 130	J
alpha-Chlordane	0.00500	0.00490	98	70 - 130	J
beta-BHC	0.00500	0.00512	102	70 - 130	
delta-BHC	0.00500	0.00436	87	70 - 130	J

Method Reporting Limit Check - Batch: 240-80447 **Method: 8081/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-80447/15	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P9040315.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 2303	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dieldrin	0.00500	0.00482	96	70 - 130	J
Endosulfan I	0.00500	0.00505	101	70 - 130	
Endosulfan II	0.00500	0.00514	103	70 - 130	
Endosulfan sulfate	0.00500	0.00503	101	70 - 130	
Endrin	0.00500	0.00478	96	70 - 130	J
Endrin aldehyde	0.00500	0.00514	103	70 - 130	
Endrin ketone	0.00500	0.00506	101	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00474	95	70 - 130	J
gamma-Chlordane	0.00500	0.00483	97	70 - 130	J
Heptachlor	0.00500	0.00478	96	70 - 130	J
Heptachlor epoxide	0.00500	0.00499	100	70 - 130	J
Methoxychlor	0.00500	0.00494	99	70 - 130	J

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	116	50 - 150
Tetrachloro-m-xylene	104	50 - 150

Method Reporting Limit Check - Batch: 240-80447 **Method: 8081/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-80447/26	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P9040326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/04/2013 0410	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00578	116	70 - 130	
4,4'-DDE	0.00500	0.00513	103	70 - 130	
4,4'-DDT	0.00500	0.00519	104	70 - 130	
Aldrin	0.00500	0.00523	105	70 - 130	
alpha-BHC	0.00500	0.00503	101	70 - 130	
alpha-Chlordane	0.00500	0.00528	106	70 - 130	
beta-BHC	0.00500	0.00548	110	70 - 130	
delta-BHC	0.00500	0.00507	101	70 - 130	
Dieldrin	0.00500	0.00514	103	70 - 130	
Endosulfan I	0.00500	0.00536	107	70 - 130	
Endosulfan II	0.00500	0.00542	108	70 - 130	
Endosulfan sulfate	0.00500	0.00547	109	70 - 130	
Endrin	0.00500	0.00526	105	70 - 130	
Endrin aldehyde	0.00500	0.00562	112	70 - 130	
Endrin ketone	0.00500	0.00565	113	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00512	102	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80447

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-80447/26	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P9040326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/04/2013 0410	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
gamma-Chlordane	0.00500	0.00522	104	70 - 130	
Heptachlor	0.00500	0.00536	107	70 - 130	
Heptachlor epoxide	0.00500	0.00532	106	70 - 130	
Methoxychlor	0.00500	0.00579	116	70 - 130	J

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	111	50 - 150
Tetrachloro-m-xylene	111	50 - 150

Method Reporting Limit Check - Batch: 240-80447

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-80447/26	Analysis Batch:	240-80447	Instrument ID:	A2HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P9040326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/04/2013 0410	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00592	118	70 - 130	
4,4'-DDE	0.00500	0.00540	108	70 - 130	
4,4'-DDT	0.00500	0.00541	108	70 - 130	
Aldrin	0.00500	0.00502	100	70 - 130	
alpha-BHC	0.00500	0.00490	98	70 - 130	J
alpha-Chlordane	0.00500	0.00525	105	70 - 130	
beta-BHC	0.00500	0.00576	115	70 - 130	
delta-BHC	0.00500	0.00510	102	70 - 130	
Dieldrin	0.00500	0.00502	100	70 - 130	
Endosulfan I	0.00500	0.00522	104	70 - 130	
Endosulfan II	0.00500	0.00532	106	70 - 130	
Endosulfan sulfate	0.00500	0.00566	113	70 - 130	
Endrin	0.00500	0.00518	104	70 - 130	
Endrin aldehyde	0.00500	0.00540	108	70 - 130	
Endrin ketone	0.00500	0.00577	115	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00511	102	70 - 130	
gamma-Chlordane	0.00500	0.00519	104	70 - 130	
Heptachlor	0.00500	0.00516	103	70 - 130	
Heptachlor epoxide	0.00500	0.00527	105	70 - 130	
Methoxychlor	0.00500	0.00593	119	70 - 130	J

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	116	50 - 150
Tetrachloro-m-xylene	107	50 - 150

Method Blank - Batch: 240-79894

Method: 8082/DOD
Preparation: 3540C

Lab Sample ID:	MB 240-79894/23-A	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	240-79894	Lab File ID:	P1200008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/03/2013 1428	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	03/29/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
Aroclor-1221	25	U	16	50
Aroclor-1016	25	U	21	65
Aroclor-1232	25	U	14	45
Aroclor-1242	25	U	13	40
Aroclor-1248	25	U	17	55
Aroclor-1254	25	U	17	55
Aroclor-1260	25	U	17	55

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	66	40 - 140
DCB Decachlorobiphenyl	70	60 - 125

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	68	40 - 140
DCB Decachlorobiphenyl	62	60 - 125

Lab Control Sample - Batch: 240-79894

Method: 8082/DOD
Preparation: 3540C

Lab Sample ID:	LCS 240-79894/24-A	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	240-79894	Lab File ID:	P1200009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/03/2013 1442	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	03/29/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	333	245	73	40 - 140	
Aroclor-1260	333	260	78	60 - 130	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	73	40 - 140
DCB Decachlorobiphenyl	74	60 - 125

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	86	40 - 140
DCB Decachlorobiphenyl	74	60 - 125

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79894

Method: 8082/DOD
Preparation: 3540C

MS Lab Sample ID:	240-22274-2	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	240-79894	Lab File ID:	P1200006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.18 g
Analysis Date:	04/03/2013 1359			Final Weight/Volume:	10 mL
Prep Date:	03/29/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	240-22274-2	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	240-79894	Lab File ID:	P1200007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.27 g
Analysis Date:	04/03/2013 1413			Final Weight/Volume:	10 mL
Prep Date:	03/29/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor-1016	78	75	40 - 140	5	30		
Aroclor-1260	78	67	60 - 130	16	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	78	79	40 - 140
DCB Decachlorobiphenyl	80	66	60 - 125

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
Tetrachloro-m-xylene	78	77		40 - 140
DCB Decachlorobiphenyl	66	54	Q	60 - 125

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79894

Method: 8082/DOD
Preparation: 3540C

MS Lab Sample ID:	240-22274-2	Units:	ug/Kg	MSD Lab Sample ID:	240-22274-2
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/03/2013 1359			Analysis Date:	04/03/2013 1413
Prep Date:	03/29/2013 0845			Prep Date:	03/29/2013 0845
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Aroclor-1016	33	U	450	449	352	336
Aroclor-1260	33	U	450	449	352	299

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80431 **Method: 8082/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-80431/4	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P1200004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 1331	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0559	112	70 - 130	
Aroclor-1260	0.0500	0.0519	104	70 - 130	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	113	50 - 150
DCB Decachlorobiphenyl	111	50 - 150

Method Reporting Limit Check - Batch: 240-80431 **Method: 8082/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-80431/4	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P1200004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 1331	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0549	110	70 - 130	
Aroclor-1260	0.0500	0.0495	99	70 - 130	J

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	110	50 - 150
DCB Decachlorobiphenyl	108	50 - 150

Method Reporting Limit Check - Batch: 240-80431 **Method: 8082/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-80431/11	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P1200011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 1510	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0582	116	70 - 130	
Aroclor-1260	0.0500	0.0545	109	70 - 130	

Surrogate	% Rec		Acceptance Limits
Tetrachloro-m-xylene	118		50 - 150
DCB Decachlorobiphenyl	131	Q	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 240-80431

Method: 8082/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-80431/11	Analysis Batch:	240-80431	Instrument ID:	A2HP12
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P1200011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/03/2013 1510	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0555	111	70 - 130	
Aroclor-1260	0.0500	0.0510	102	70 - 130	

Surrogate	% Rec		Acceptance Limits
Tetrachloro-m-xylene	116		50 - 150
DCB Decachlorobiphenyl	143	Q	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 320-13506

Method: 8330 Modified
Preparation: Sieve/Ultrasoni

Lab Sample ID:	MB 320-13506/1-A	Analysis Batch:	320-13918	Instrument ID:	PDA1
Client Matrix:	Solid	Prep Batch:	320-13506	Lab File ID:	320-0003783-007-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2.00 g
Analysis Date:	04/09/2013 1805	Units:	mg/Kg	Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitroguanidine	0.040	U	0.020	0.25

Method Blank - Batch: 320-13506

Method: 8330 Modified
Preparation: Sieve/Ultrasoni

Lab Sample ID:	MB 320-13506/1-A	Analysis Batch:	320-14050	Instrument ID:	PDA1
Client Matrix:	Solid	Prep Batch:	320-13506	Lab File ID:	320-0003819-006-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2.00 g
Analysis Date:	04/10/2013 1828	Units:	mg/Kg	Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitroguanidine	0.040	U	0.020	0.25

Lab Control Sample - Batch: 320-13506

Method: 8330 Modified
Preparation: Sieve/Ultrasoni

Lab Sample ID:	LCS 320-13506/2-A	Analysis Batch:	320-13918	Instrument ID:	PDA1
Client Matrix:	Solid	Prep Batch:	320-13506	Lab File ID:	320-0003783-008-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2.00 g
Analysis Date:	04/09/2013 1823	Units:	mg/Kg	Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitroguanidine	1.00	0.931	93	72 - 121	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-13506

Method: 8330 Modified
Preparation: Sieve/Ultrasoni

MS Lab Sample ID:	240-22274-2	Analysis Batch:	320-13918	Instrument ID:	PDA1
Client Matrix:	Solid	Prep Batch:	320-13506	Lab File ID:	320-0003783-010-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2.01 g
Analysis Date:	04/09/2013 1858			Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-22274-2	Analysis Batch:	320-13918	Instrument ID:	PDA1
Client Matrix:	Solid	Prep Batch:	320-13506	Lab File ID:	320-0003783-012-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2.04 g
Analysis Date:	04/09/2013 1934			Final Weight/Volume:	10.00 mL
Prep Date:	04/02/2013 1543			Injection Volume:	50 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitroguanidine	72	71	72 - 121	3	20		J

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-13506

Method: 8330 Modified
Preparation: Sieve/Ultrasoni

MS Lab Sample ID:	240-22274-2	Units:	mg/Kg	MSD Lab Sample ID:	240-22274-2
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/09/2013 1858			Analysis Date:	04/09/2013 1934
Prep Date:	04/02/2013 1543			Prep Date:	04/02/2013 1543
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Nitroguanidine	0.097	J	0.995	0.980	0.817	0.792	J

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 320-13509

Method: 8330B
Preparation: 8330B

Lab Sample ID:	MB 320-13509/1-A	Analysis Batch:	320-14179	Instrument ID:	LC11
Client Matrix:	Solid	Prep Batch:	320-13509	Lab File ID:	L-000030.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	04/13/2013 1632	Units:	mg/Kg	Final Weight/Volume:	80 mL
Prep Date:	04/02/2013 1558			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.050	U	0.013	0.25
4-Amino-2,6-dinitrotoluene	0.050	U	0.010	0.25
1,3-Dinitrobenzene	0.050	U	0.0042	0.25
2,4-Dinitrotoluene	0.050	U	0.0053	0.25
2,6-Dinitrotoluene	0.050	U	0.0073	0.25
HMX	0.050	U	0.012	0.25
Nitrobenzene	0.050	U	0.018	0.25
3-Nitrotoluene	0.050	U	0.016	0.25
4-Nitrotoluene	0.050	U	0.018	0.25
PETN	0.25	U	0.025	0.50
RDX	0.050	U	0.012	0.25
Tetryl	0.050	U	0.010	0.25
1,3,5-Trinitrobenzene	0.050	U M	0.010	0.25
2,4,6-Trinitrotoluene	0.050	U	0.019	0.25

Surrogate	% Rec	Acceptance Limits
3,4-Dinitrotoluene	92	78 - 118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 320-13509

Method: 8330B
Preparation: 8330B

Lab Sample ID:	MB 320-13509/1-A	Analysis Batch:	320-14569	Instrument ID:	LC12
Client Matrix:	Solid	Prep Batch:	320-13509	Lab File ID:	P000050.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	04/18/2013 0954	Units:	mg/Kg	Final Weight/Volume:	80 mL
Prep Date:	04/02/2013 1558			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.050	U	0.013	0.25
4-Amino-2,6-dinitrotoluene	0.050	U	0.010	0.25
1,3-Dinitrobenzene	0.050	U	0.0042	0.25
2,4-Dinitrotoluene	0.050	U	0.0053	0.25
2,6-Dinitrotoluene	0.050	U	0.0073	0.25
HMX	0.050	U	0.012	0.25
Nitrobenzene	0.050	U	0.018	0.25
Nitroglycerin	0.25	U	0.015	0.50
2-Nitrotoluene	0.050	U	0.013	0.25
3-Nitrotoluene	0.050	U	0.016	0.25
4-Nitrotoluene	0.050	U	0.018	0.25
PETN	0.25	U	0.025	0.50
RDX	0.050	U	0.012	0.25
Tetryl	0.0105	J	0.010	0.25
1,3,5-Trinitrobenzene	0.050	U	0.010	0.25
2,4,6-Trinitrotoluene	0.050	U	0.019	0.25

Surrogate	% Rec		Acceptance Limits
3,4-Dinitrotoluene	117	M	78 - 118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 320-13509

Method: 8330B
Preparation: 8330B

Lab Sample ID:	LCS 320-13509/2-A	Analysis Batch:	320-14179	Instrument ID:	LC11
Client Matrix:	Solid	Prep Batch:	320-13509	Lab File ID:	L-000031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	04/13/2013 1729	Units:	mg/Kg	Final Weight/Volume:	80 mL
Prep Date:	04/02/2013 1558			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Amino-4,6-dinitrotoluene	0.500	0.451	90	79 - 119	
4-Amino-2,6-dinitrotoluene	0.500	0.454	91	81 - 121	
1,3-Dinitrobenzene	0.500	0.459	92	81 - 121	
2,4-Dinitrotoluene	0.500	0.462	92	79 - 119	
2,6-Dinitrotoluene	0.500	0.452	90	79 - 119	
HMX	0.500	0.473	95	80 - 120	
Nitrobenzene	0.500	0.466	93	80 - 120	
Nitroglycerin	1.00	0.930	93	76 - 116	M
2-Nitrotoluene	0.500	0.496	99	78 - 118	
3-Nitrotoluene	0.500	0.501	100	77 - 117	
4-Nitrotoluene	0.500	0.489	98	78 - 118	
PETN	1.00	0.989	99	76 - 116	M
RDX	0.500	0.466	93	82 - 122	
Tetryl	0.500	0.390	78	63 - 120	
1,3,5-Trinitrobenzene	0.500	0.462	92	81 - 121	
2,4,6-Trinitrotoluene	0.500	0.410	82	65 - 105	

Surrogate	% Rec	Acceptance Limits
3,4-Dinitrotoluene	94	78 - 118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-13509

Method: 8330B
Preparation: 8330B

MS Lab Sample ID:	240-22274-2	Analysis Batch:	320-14179	Instrument ID:	LC11
Client Matrix:	Solid	Prep Batch:	320-13509	Lab File ID:	L-000033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	04/13/2013 1923			Final Weight/Volume:	80 mL
Prep Date:	04/02/2013 1558			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	240-22274-2	Analysis Batch:	320-14179	Instrument ID:	LC11
Client Matrix:	Solid	Prep Batch:	320-13509	Lab File ID:	L-000035.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.03 g
Analysis Date:	04/13/2013 2117			Final Weight/Volume:	80 mL
Prep Date:	04/02/2013 1558			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Amino-4,6-dinitrotoluene	79	80	79 - 119	1	20		
4-Amino-2,6-dinitrotoluene	65	66	81 - 121	1	20	J	J
1,3-Dinitrobenzene	92	92	81 - 121	1	20		
2,4-Dinitrotoluene	92	93	79 - 119	1	20		
2,6-Dinitrotoluene	90	93	79 - 119	2	20		
HMX	92	91	80 - 120	1	20		
Nitrobenzene	93	94	80 - 120	1	20		
Nitroglycerin	153	96	76 - 116	46	20	J	M J
2-Nitrotoluene	150	103	78 - 118	37	20	J	J
3-Nitrotoluene	99	101	77 - 117	2	20		
4-Nitrotoluene	98	98	78 - 118	0	20		
PETN	91	101	76 - 116	9	20		M
RDX	84	85	82 - 122	1	20		
Tetryl	78	77	63 - 120	1	20		
1,3,5-Trinitrobenzene	92	93	81 - 121	1	20		
2,4,6-Trinitrotoluene	82	83	65 - 105	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
3,4-Dinitrotoluene	95	97	78 - 118

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-13509

Method: 8330B
Preparation: 8330B

MS Lab Sample ID:	240-22274-2	Units:	mg/Kg	MSD Lab Sample ID:	240-22274-2
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2013 1923			Analysis Date:	04/13/2013 2117
Prep Date:	04/02/2013 1558			Prep Date:	04/02/2013 1558
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
2-Amino-4,6-dinitrotoluene	0.056	J	0.500	0.499	0.449		0.455	
4-Amino-2,6-dinitrotoluene	0.12	J	0.500	0.499	0.440	J	0.445	J
1,3-Dinitrobenzene	0.050	U	0.500	0.499	0.462		0.457	
2,4-Dinitrotoluene	0.050	U	0.500	0.499	0.462		0.465	
2,6-Dinitrotoluene	0.050	U	0.500	0.499	0.452		0.462	
HMX	0.050	U	0.500	0.499	0.459		0.455	
Nitrobenzene	0.050	U	0.500	0.499	0.466		0.470	
Nitroglycerin	0.25	U	1.00	0.997	1.53	J	0.959	M J
2-Nitrotoluene	0.050	U	0.500	0.499	0.748	J	0.514	J
3-Nitrotoluene	0.050	U	0.500	0.499	0.496		0.505	
4-Nitrotoluene	0.050	U	0.500	0.499	0.488		0.486	
PETN	0.25	U	1.00	0.997	0.915		1.00	M
RDX	0.050	U	0.500	0.499	0.420		0.425	
Tetryl	0.050	U	0.500	0.499	0.390		0.386	
1,3,5-Trinitrobenzene	0.050	U	0.500	0.499	0.461		0.464	
2,4,6-Trinitrotoluene	0.050	U	0.500	0.499	0.408		0.413	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	MB 180-67960/1-A	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/11/2013 0417	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Silver	0.029	U	0.011	0.097
Aluminum	0.817	J	0.28	2.9
Arsenic	0.049	U	0.018	0.097
Barium	0.0193	J Q	0.010	0.97
Beryllium	0.0097	U	0.0073	0.097
Calcium	2.4	U	1.3	9.7
Cadmium	0.029	U	0.013	0.097
Chromium	0.039	U	0.022	0.19
Cobalt	0.0097	U Q	0.0023	0.049
Copper	0.058	U Q	0.032	0.19
Iron	2.31	J	1.0	4.9
Magnesium	1.9	U	1.0	9.7
Manganese	0.0650	J Q	0.015	0.49
Sodium	4.9	U	2.6	9.7
Nickel	0.029	U	0.011	0.097
Lead	0.029	U	0.015	0.097
Antimony	0.097	U	0.045	0.19
Thallium	0.019	U	0.0099	0.097
Vanadium	0.058	U	0.029	0.097
Zinc	0.19	U Q	0.063	0.49
Potassium	5.8	U	3.1	9.7
Selenium	0.097	U	0.049	0.49

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	LCS 180-67960/2-A	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.12 g
Analysis Date:	04/11/2013 0425	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	4.46	4.07	91	60 - 114	
Aluminum	179	181	101	80 - 120	
Arsenic	3.57	3.12	87	73 - 110	
Barium	179	168	94	70 - 110	Q
Beryllium	4.46	4.36	98	79 - 110	
Calcium	4460	4380	98	80 - 120	
Cadmium	4.46	4.18	94	74 - 110	
Chromium	17.9	16.8	94	70 - 110	
Cobalt	44.6	41.9	94	74 - 110	Q
Copper	22.3	21.8	98	73 - 110	Q
Iron	89.3	93.0	104	80 - 120	
Magnesium	4460	4300	96	80 - 120	
Manganese	44.6	39.7	89	80 - 120	Q
Sodium	4460	4280	96	80 - 120	
Nickel	44.6	42.1	94	75 - 110	
Lead	1.79	1.64	92	75 - 110	
Antimony	44.6	41.5	93	68 - 113	
Thallium	4.46	4.01	90	71 - 110	
Vanadium	44.6	42.9	96	72 - 110	
Zinc	44.6	41.5	93	72 - 113	Q
Potassium	4460	4350	97	80 - 120	
Selenium	0.893	0.994	111	65 - 110	Q

Matrix Spike - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-3	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.16 g
Analysis Date:	04/11/2013 0458	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.080	J	8.34	7.53	89	75 - 125	
Aluminum	12000		334	19300	2210	70 - 130	4
Arsenic	240		6.67	219	-346	23 - 131	4
Barium	71		334	387	95	10 - 199	Q
Beryllium	0.65		8.34	8.82	98	58 - 112	
Calcium	2400		8340	10500	98	70 - 130	
Cadmium	0.35		8.34	8.02	92	58 - 110	
Chromium	28		33.4	64.0	108	10 - 199	
Cobalt	8.6		83.4	82.4	88	55 - 110	Q
Copper	21		41.7	55.7	83	10 - 199	Q
Iron	21000		167	19600	-871	70 - 130	4
Magnesium	2800		8340	11000	99	70 - 130	
Manganese	710		83.4	764	58	10 - 199	4 Q
Sodium	67		8340	8180	97	70 - 130	
Nickel	29		83.4	101	87	10 - 176	
Lead	51		3.34	47.6	-112	10 - 199	4
Antimony	0.14	J	83.4	41.3	49	75 - 125	J
Thallium	0.17		8.34	7.63	89	82 - 110	
Vanadium	27		83.4	112	102	39 - 129	
Zinc	80		83.4	158	93	10 - 199	Q
Potassium	1500		8340	10500	107	70 - 130	
Selenium	0.61	J	1.67	2.04	86	39 - 116	

Post Digestion Spike - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-3	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.17 g
Analysis Date:	04/11/2013 0506	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.080	J	8.27	8.40	101	80 - 120	
Aluminum	12000		331	11900	-0.5	80 - 120	
Arsenic	240		6.62	243	12	80 - 120	
Barium	71		331	400	99	80 - 120	Q
Beryllium	0.65		8.27	9.46	107	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Post Digestion Spike - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-3	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.17 g
Analysis Date:	04/11/2013 0506	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Calcium	2400		8270	11000	104	80 - 120	
Cadmium	0.35		8.27	8.70	101	80 - 120	
Chromium	28		33.1	59.5	96	80 - 120	
Cobalt	8.6		82.7	90.8	99	80 - 120	Q
Copper	21		41.3	60.8	96	80 - 120	Q
Iron	21000		165	20300	-450	80 - 120	
Magnesium	2800		8270	11200	102	80 - 120	
Manganese	710		82.7	772	69	80 - 120	Q
Sodium	67		8270	8640	104	80 - 120	
Nickel	29		82.7	109	98	80 - 120	
Lead	51		3.31	53.0	51	80 - 120	
Antimony	0.14	J	82.7	81.0	98	80 - 120	
Thallium	0.17		8.27	8.31	98	80 - 120	
Vanadium	27		82.7	110	100	80 - 120	
Zinc	80		82.7	158	93	80 - 120	Q
Potassium	1500		8270	9850	100	80 - 120	
Selenium	0.61	J	1.65	2.32	103	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Serial Dilution - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-3	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.17 g
Analysis Date:	04/11/2013 0441	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.080	J	0.25	NC	10	U
Aluminum	12000		12100	1.4	10	D
Arsenic	240		240	1.0	10	D
Barium	71		71.4	1.1	10	D Q
Beryllium	0.65		0.613	5.7	10	J D
Calcium	2400		2410	2.1	10	D
Cadmium	0.35		0.306	NC	10	J D
Chromium	28		28.2	1.3	10	D
Cobalt	8.6		8.60	0.08	10	D Q
Copper	21		21.5	1.8	10	D Q
Iron	21000		21300	1.3	10	D
Magnesium	2800		2510	8.7	10	D
Manganese	710		726	1.5	10	D Q
Sodium	67		72.3	NC	10	J D
Nickel	29		29.0	1.4	10	D
Lead	51		51.5	0.29	10	D
Antimony	0.14	J	0.83	NC	10	U
Thallium	0.17		0.162	NC	10	J D
Vanadium	27		27.0	0.06	10	D
Zinc	80		81.6	1.4	10	D Q
Potassium	1500		1630	5.5	10	D
Selenium	0.61	J	0.83	NC	10	U

Duplicate - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-3	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.21 g
Analysis Date:	04/11/2013 0450	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	0.080	J	0.0739	8	20	J
Aluminum	12000		12300	3	20	
Arsenic	240		242	0.2	20	
Barium	71		71.9	2	20	Q
Beryllium	0.65		0.649	0.02	20	
Calcium	2400		2350	0.4	20	
Cadmium	0.35		0.337	3	20	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Duplicate - Batch: 180-67960

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-3	Analysis Batch:	180-68949	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67960	Lab File ID:	M30410A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.21 g
Analysis Date:	04/11/2013 0450	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 0805				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chromium	28		25.3	9	20	
Cobalt	8.6		8.74	1	20	Q
Copper	21		18.8	12	20	Q
Iron	21000		20900	0.6	20	
Magnesium	2800		2630	4	20	
Manganese	710		773	8	20	Q
Sodium	67		61.8	8	20	
Nickel	29		25.9	10	20	
Lead	51		43.9	16	20	
Antimony	0.14	J	0.130	9	20	J
Thallium	0.17		0.171	2	20	
Vanadium	27		27.2	0.7	20	
Zinc	80		77.7	3	20	Q
Potassium	1500		1590	2	20	
Selenium	0.61	J	0.464	27	20	J Q

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	MB 180-67996/1-A	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.10 g
Analysis Date:	04/13/2013 0016	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Silver	0.027	U	0.010	0.091
Aluminum	2.05	J	0.26	2.7
Arsenic	0.045	U	0.016	0.091
Barium	0.0175	J Q	0.0097	0.91
Beryllium	0.0091	U	0.0068	0.091
Calcium	1.52	J	1.2	9.1
Cadmium	0.027	U	0.012	0.091
Chromium	0.036	U	0.020	0.18
Cobalt	0.0091	U Q	0.0022	0.045
Copper	0.0776	J Q	0.030	0.18
Iron	5.12		0.98	4.5
Magnesium	1.8	U	0.98	9.1
Manganese	0.0741	J	0.014	0.45
Sodium	3.44	J	2.4	9.1
Nickel	0.027	U	0.010	0.091
Lead	0.027	U	0.014	0.091
Antimony	0.091	U	0.042	0.18
Thallium	0.018	U	0.0093	0.091
Vanadium	0.055	U	0.027	0.091
Zinc	0.18	U	0.059	0.45
Potassium	5.5	U	2.9	9.1
Selenium	0.091	U	0.046	0.45

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Control Sample - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	LCS 180-67996/2-A	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0041	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	4.85	4.44	91	60 - 114	
Aluminum	194	193	99	80 - 120	
Arsenic	3.88	3.60	93	73 - 110	
Barium	194	184	95	70 - 110	Q
Beryllium	4.85	4.58	94	79 - 110	
Calcium	4850	4710	97	80 - 120	
Cadmium	4.85	4.73	97	74 - 110	
Chromium	19.4	18.7	96	70 - 110	
Cobalt	48.5	47.0	97	74 - 110	Q
Copper	24.3	23.9	98	73 - 110	Q
Iron	97.1	94.9	98	80 - 120	
Magnesium	4850	4800	99	80 - 120	
Manganese	48.5	46.7	96	80 - 120	
Sodium	4850	4720	97	80 - 120	
Nickel	48.5	46.9	97	75 - 110	
Lead	1.94	1.91	98	75 - 110	
Antimony	48.5	45.0	93	68 - 113	
Thallium	4.85	4.71	97	71 - 110	
Vanadium	48.5	47.2	97	72 - 110	
Zinc	48.5	45.2	93	72 - 113	
Potassium	4850	4790	99	80 - 120	
Selenium	0.971	0.981	101	65 - 110	

Matrix Spike - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-22	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0114	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.026	J	4.95	4.87	98	75 - 125	
Aluminum	12000		198	19100	3546	70 - 130	4
Arsenic	23		3.96	27.0	95	23 - 131	4
Barium	94		198	291	99	10 - 199	Q
Beryllium	0.70		4.95	6.00	107	58 - 112	
Calcium	490		4950	5170	94	70 - 130	
Cadmium	0.16		4.95	5.18	101	58 - 110	
Chromium	16		19.8	40.0	120	10 - 199	
Cobalt	12		49.5	60.1	97	55 - 110	Q
Copper	22		24.8	47.1	100	10 - 199	Q
Iron	26000		99.0	27800	2192	70 - 130	4
Magnesium	3200		4950	8900	114	70 - 130	
Manganese	1700		49.5	1820	252	10 - 199	4
Sodium	1200		4950	6300	103	70 - 130	
Nickel	28		49.5	75.8	96	10 - 176	
Lead	58		1.98	61.2	185	10 - 199	4
Antimony	0.097	U	49.5	13.6	27	75 - 125	J
Thallium	0.14		4.95	5.09	100	82 - 110	
Vanadium	17		49.5	73.7	114	39 - 129	
Zinc	61		49.5	108	94	10 - 199	
Potassium	1800		4950	7730	120	70 - 130	
Selenium	0.39	J	0.990	1.27	89	39 - 116	

Post Digestion Spike - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-22	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0124	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.026	J	4.85	5.28	108	80 - 120	
Aluminum	12000		194	11900	-90	80 - 120	
Arsenic	23		3.88	26.4	81	80 - 120	
Barium	94		194	288	100	80 - 120	Q
Beryllium	0.70		4.85	5.96	108	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Post Digestion Spike - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-22	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0124	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Calcium	490		4850	5570	105	80 - 120	
Cadmium	0.16		4.85	5.35	107	80 - 120	
Chromium	16		19.4	35.4	99	80 - 120	
Cobalt	12		48.5	61.7	103	80 - 120	Q
Copper	22		24.3	46.8	101	80 - 120	Q
Iron	26000		97.1	24600	-1030	80 - 120	
Magnesium	3200		4850	8620	111	80 - 120	
Manganese	1700		48.5	1670	-52	80 - 120	
Sodium	1200		4850	6560	111	80 - 120	
Nickel	28		48.5	77.0	100	80 - 120	
Lead	58		1.94	57.9	19	80 - 120	
Antimony	0.097	U	48.5	50.6	104	80 - 120	
Thallium	0.14		4.85	5.41	109	80 - 120	
Vanadium	17		48.5	66.7	102	80 - 120	
Zinc	61		48.5	108	95	80 - 120	
Potassium	1800		4850	6920	105	80 - 120	
Selenium	0.39	J	0.971	1.30	93	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Serial Dilution - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-22	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/13/2013 0057	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.026	J	0.15	NC	10	U
Aluminum	12000		12200	1.0	10	D
Arsenic	23		21.4	8.0	10	D
Barium	94		99.0	5.1	10	D Q
Beryllium	0.70		0.709	1.4	10	D
Calcium	490		520	6.1	10	D
Cadmium	0.16		0.157	NC	10	J D
Chromium	16		16.5	2.3	10	D
Cobalt	12		11.8	0.70	10	D Q
Copper	22		21.4	3.8	10	D Q
Iron	26000		25900	1.2	10	D
Magnesium	3200		3180	1.7	10	D
Manganese	1700		1720	1.0	10	D
Sodium	1200		1160	2.9	10	D
Nickel	28		27.9	1.3	10	D
Lead	58		57.8	0.37	10	D
Antimony	0.097	U	0.49	NC	10	U
Thallium	0.14		0.127	NC	10	J D
Vanadium	17		17.6	0.86	10	D
Zinc	61		58.0	5.4	10	D
Potassium	1800		1750	2.8	10	D
Selenium	0.39	J	0.49	NC	10	U

Duplicate - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-22	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0106	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	0.026	J	0.0269	2	20	J
Aluminum	12000		12200	1	20	
Arsenic	23		23.5	1	20	
Barium	94		91.6	3	20	Q
Beryllium	0.70		0.753	7	20	
Calcium	490		1170	82	20	J
Cadmium	0.16		0.142	13	20	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Duplicate - Batch: 180-67996

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22274-22	Analysis Batch:	180-69084	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-67996	Lab File ID:	M30412A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/13/2013 0106	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1106				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chromium	16		16.4	1	20	
Cobalt	12		11.8	0.8	20	Q
Copper	22		22.4	0.9	20	Q
Iron	26000		26300	3	20	
Magnesium	3200		3270	1	20	
Manganese	1700		1640	4	20	
Sodium	1200		1210	1	20	
Nickel	28		28.2	0.3	20	
Lead	58		50.9	12	20	
Antimony	0.097	U	0.099	NC	20	U
Thallium	0.14		0.132	3	20	
Vanadium	17		17.6	0.6	20	
Zinc	61		61.0	0.6	20	
Potassium	1800		1820	1	20	
Selenium	0.39	J	0.420	8	20	J

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-79493

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-79493/1-A	Analysis Batch:	240-79644	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0948	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-79493

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-79493/2-A	Analysis Batch:	240-79644	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0950	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.888	107	80 - 120	

Matrix Spike - Batch: 240-79493

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22274-3	Analysis Batch:	240-79644	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0954	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.046	J	0.322	0.413	114	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Duplicate - Batch: 240-79493

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22274-3	Analysis Batch:	240-79644	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0953	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.046	J	0.0502	8	20	J

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-79782

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-79782/1-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1344	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-79782

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-79782/2-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79782	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1346	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/28/2013 1510				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.821	99	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 240-79941

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-79941/1-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1423	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-79941

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-79941/2-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1424	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.822	99	80 - 120	

Matrix Spike - Batch: 240-79941

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22274-22	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1430	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.019	J	0.179	0.189	95	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Duplicate - Batch: 240-79941

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22274-22	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79541	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1428	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/26/2013 1527				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.019	J	0.0176	8	20	J

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Duplicate - Batch: 240-80080

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-22274-3	Analysis Batch:	240-80080	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/01/2013 1049	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	52	52	2	20	
Percent Moisture	48	48	2	20	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Duplicate - Batch: 240-80250

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-22274-24	Analysis Batch:	240-80250	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1105	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	82	82	0.02	20	
Percent Moisture	18	18	0.08	20	

Duplicate - Batch: 240-80250

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-22274-25	Analysis Batch:	240-80250	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1105	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	98	98	0.001	20	
Percent Moisture	1.8	1.8	0.07	20	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Blank - Batch: 320-13366

Method: WS-WC-0050
Preparation: 353 (NCell-Hyd)

Lab Sample ID:	MB 320-13300/1-B	Analysis Batch:	320-13493	Instrument ID:	FS4
Client Matrix:	Solid	Prep Batch:	320-13366	Lab File ID:	040213A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	45 mL
Analysis Date:	04/02/2013 1246	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	04/01/2013 0604				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitrocellulose	1.8	U	0.78	5.0

Lab Control Sample - Batch: 320-13366

Method: WS-WC-0050
Preparation: 353 (NCell-Hyd)

Lab Sample ID:	LCS 320-13300/2-B	Analysis Batch:	320-13493	Instrument ID:	FS4
Client Matrix:	Solid	Prep Batch:	320-13366	Lab File ID:	040213A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	45 mL
Analysis Date:	04/02/2013 1248	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	04/01/2013 0604				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrocellulose	50.6	36.8	73	34 - 115	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Method Reporting Limit Check - Batch: 320-13493 **Method: WS-WC-0050**
Preparation: N/A

Lab Sample ID:	MRL 320-13493/10	Analysis Batch:	320-13493	Instrument ID:	FS4
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	040213A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1236	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrocellulose	0.420	1.0	96	70 - 130	U

Method Reporting Limit Check - Batch: 320-13493 **Method: WS-WC-0050**
Preparation: N/A

Lab Sample ID:	MRL 320-13493/21	Analysis Batch:	320-13493	Instrument ID:	FS4
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	040213A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1259	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrocellulose	0.420	1.0	98	70 - 130	U

DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	^	Instrument related QC exceeds the control limits
	U	Undetected at the Limit of Detection.
GC/MS Semi VOA		
	B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	^	Instrument related QC exceeds the control limits
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.
GC Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.
HPLC/IC		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Lab Section	Qualifier	Description
Metals		
	B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
General Chemistry		
	U	Undetected at the Limit of Detection.

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 240-79220					
240-22274-2	079SD-0309-0001-SD	T	Solid	5035	
Analysis Batch:240-79725					
LCS 240-79725/4	Lab Control Sample	T	Water	8260B/DoD	
MB 240-79725/6	Method Blank	T	Water	8260B/DoD	
240-22274-1	079SD-0194-0001-TB	T	Water	8260B/DoD	
Analysis Batch:240-80302					
LCS 240-80302/6	Lab Control Sample	T	Solid	8260B/DoD	
MB 240-80302/7	Method Blank	T	Solid	8260B/DoD	
240-22274-2	079SD-0309-0001-SD	T	Solid	8260B/DoD	240-79220

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 240-80284					
LCS 240-80284/24-A	Lab Control Sample	T	Solid	3540C	
MB 240-80284/23-A	Method Blank	T	Solid	3540C	
240-22274-2	079SD-0309-0001-SD	T	Solid	3540C	
Analysis Batch:240-80755					
LCS 240-80284/24-A	Lab Control Sample	T	Solid	8270C/DoD	240-80284
MB 240-80284/23-A	Method Blank	T	Solid	8270C/DoD	240-80284
240-22274-2	079SD-0309-0001-SD	T	Solid	8270C/DoD	240-80284

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 240-79894					
LCS 240-79894/24-A	Lab Control Sample	T	Solid	3540C	
MB 240-79894/23-A	Method Blank	T	Solid	3540C	
240-22274-2	079SD-0309-0001-SD	T	Solid	3540C	
240-22274-2MS	Matrix Spike	T	Solid	3540C	
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	3540C	
Prep Batch: 240-80060					
LCS 240-80060/16-A	Lab Control Sample	T	Solid	3540C	
MB 240-80060/15-A	Method Blank	T	Solid	3540C	
240-22274-2	079SD-0309-0001-SD	T	Solid	3540C	
240-22274-2MS	Matrix Spike	T	Solid	3540C	
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	3540C	
Analysis Batch:240-80431					
LCS 240-79894/24-A	Lab Control Sample	T	Solid	8082/DOD	240-79894
MB 240-79894/23-A	Method Blank	T	Solid	8082/DOD	240-79894
240-22274-2	079SD-0309-0001-SD	T	Solid	8082/DOD	240-79894
240-22274-2MS	Matrix Spike	T	Solid	8082/DOD	240-79894
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	8082/DOD	240-79894
Analysis Batch:240-80447					
LCS 240-80060/16-A	Lab Control Sample	T	Solid	8081/DOD	240-80060
MB 240-80060/15-A	Method Blank	T	Solid	8081/DOD	240-80060
240-22274-2	079SD-0309-0001-SD	T	Solid	8081/DOD	240-80060
240-22274-2MS	Matrix Spike	T	Solid	8081/DOD	240-80060
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	8081/DOD	240-80060

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-67960					
LCS 180-67960/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-67960/1-A	Method Blank	T	Solid	3050B	
240-22274-2	079SD-0309-0001-SD	T	Solid	3050B	
240-22274-3	079SD-0305-0001-0002-SD	T	Solid	3050B	
240-22274-3DU	Duplicate	T	Solid	3050B	
240-22274-3MS	Matrix Spike	T	Solid	3050B	
240-22274-4	079SD-0306-0001-SD	T	Solid	3050B	
240-22274-5	079SD-0307-0001-SD	T	Solid	3050B	
240-22274-6	079SD-0310-0001-SD	T	Solid	3050B	
240-22274-7	079SB-0287M-0001-SB	T	Solid	3050B	
240-22274-8	079SB-0288M-0001-SB	T	Solid	3050B	
240-22274-9	079SB-0289M-0001-SB	T	Solid	3050B	
240-22274-10	079SB-0290M-0001-SB	T	Solid	3050B	
240-22274-11	079SB-0291M-0001-SB	T	Solid	3050B	
240-22274-12	079SB-0292M-0001-SO	T	Solid	3050B	
240-22274-13	079SB-0293M-0001-SO	T	Solid	3050B	
240-22274-14	079SS-0294-0001-SO	T	Solid	3050B	
240-22274-15	079SS-0295-0001-SO	T	Solid	3050B	
240-22274-16	079SB-0256M-0001-SO	T	Solid	3050B	
240-22274-17	079SB-0258M-0001-SO	T	Solid	3050B	
240-22274-18	079SB-0260M-0001-SO	T	Solid	3050B	
240-22274-19	079SB-0261M-0001-SO	T	Solid	3050B	
240-22274-20	079SB-0262M-0001-SO	T	Solid	3050B	
240-22274-21	079SB-0263M-0001-SO	T	Solid	3050B	
Prep Batch: 180-67996					
LCS 180-67996/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-67996/1-A	Method Blank	T	Solid	3050B	
240-22274-22	079SB-0264M-0001-SO	T	Solid	3050B	
240-22274-22DU	Duplicate	T	Solid	3050B	
240-22274-22MS	Matrix Spike	T	Solid	3050B	
240-22274-23	079SS-0265-0001-SO	T	Solid	3050B	
240-22274-24	079SS-0266-0001-SO	T	Solid	3050B	
240-22274-25	079SB-0224M-0001-SO	T	Solid	3050B	
240-22274-26	079SB-0225M-0001-SO	T	Solid	3050B	
240-22274-27	079SB-0227M-0001-SO	T	Solid	3050B	
240-22274-28	079SB-0228M-0001-SO	T	Solid	3050B	
240-22274-29	079SB-0229M-0001-SO	T	Solid	3050B	
240-22274-30	079SB-0230M-0001-SO	T	Solid	3050B	
240-22274-31	079SB-0231M-0001-SO	T	Solid	3050B	
240-22274-32	079SS-0232-0001-SO	T	Solid	3050B	
240-22274-33	079SS-0233-0001-SO	T	Solid	3050B	
240-22274-34	079SS-0320M-0001-SO	T	Solid	3050B	
240-22274-35	079SS-0321M-0001-SO	T	Solid	3050B	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:180-68949					
LCS 180-67960/2-A	Lab Control Sample	T	Solid	6020/DOD	180-67960
MB 180-67960/1-A	Method Blank	T	Solid	6020/DOD	180-67960
240-22274-3	079SD-0305-0001-0002-SD	T	Solid	6020/DOD	180-67960
240-22274-3DU	Duplicate	T	Solid	6020/DOD	180-67960
240-22274-3MS	Matrix Spike	T	Solid	6020/DOD	180-67960
Analysis Batch:180-69084					
LCS 180-67996/2-A	Lab Control Sample	T	Solid	6020/DOD	180-67996
MB 180-67996/1-A	Method Blank	T	Solid	6020/DOD	180-67996
240-22274-2	079SD-0309-0001-SD	T	Solid	6020/DOD	180-67960
240-22274-4	079SD-0306-0001-SD	T	Solid	6020/DOD	180-67960
240-22274-5	079SD-0307-0001-SD	T	Solid	6020/DOD	180-67960
240-22274-6	079SD-0310-0001-SD	T	Solid	6020/DOD	180-67960
240-22274-7	079SB-0287M-0001-SB	T	Solid	6020/DOD	180-67960
240-22274-8	079SB-0288M-0001-SB	T	Solid	6020/DOD	180-67960
240-22274-9	079SB-0289M-0001-SB	T	Solid	6020/DOD	180-67960
240-22274-10	079SB-0290M-0001-SB	T	Solid	6020/DOD	180-67960
240-22274-11	079SB-0291M-0001-SB	T	Solid	6020/DOD	180-67960
240-22274-12	079SB-0292M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-13	079SB-0293M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-14	079SS-0294-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-15	079SS-0295-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-16	079SB-0256M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-17	079SB-0258M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-18	079SB-0260M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-19	079SB-0261M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-20	079SB-0262M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-21	079SB-0263M-0001-SO	T	Solid	6020/DOD	180-67960
240-22274-22	079SB-0264M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-22DU	Duplicate	T	Solid	6020/DOD	180-67996
240-22274-22MS	Matrix Spike	T	Solid	6020/DOD	180-67996
240-22274-23	079SS-0265-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-24	079SS-0266-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-25	079SB-0224M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-26	079SB-0225M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-27	079SB-0227M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-28	079SB-0228M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-29	079SB-0229M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-30	079SB-0230M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-31	079SB-0231M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-32	079SS-0232-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-33	079SS-0233-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-34	079SS-0320M-0001-SO	T	Solid	6020/DOD	180-67996
240-22274-35	079SS-0321M-0001-SO	T	Solid	6020/DOD	180-67996

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-79493					
LCS 240-79493/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-79493/1-A	Method Blank	T	Solid	7471A	
240-22274-2	079SD-0309-0001-SD	T	Solid	7471A	
240-22274-3	079SD-0305-0001-0002-SD	T	Solid	7471A	
240-22274-3DU	Duplicate	T	Solid	7471A	
240-22274-3MS	Matrix Spike	T	Solid	7471A	
240-22274-4	079SD-0306-0001-SD	T	Solid	7471A	
240-22274-5	079SD-0307-0001-SD	T	Solid	7471A	
240-22274-6	079SD-0310-0001-SD	T	Solid	7471A	
240-22274-14	079SS-0294-0001-SO	T	Solid	7471A	
240-22274-15	079SS-0295-0001-SO	T	Solid	7471A	
240-22274-23	079SS-0265-0001-SO	T	Solid	7471A	
240-22274-24	079SS-0266-0001-SO	T	Solid	7471A	
240-22274-32	079SS-0232-0001-SO	T	Solid	7471A	
240-22274-33	079SS-0233-0001-SO	T	Solid	7471A	
Prep Batch: 240-79541					
240-22274-7	079SB-0287M-0001-SB	T	Solid	Increment, Prep	
240-22274-8	079SB-0288M-0001-SB	T	Solid	Increment, Prep	
240-22274-9	079SB-0289M-0001-SB	T	Solid	Increment, Prep	
240-22274-10	079SB-0290M-0001-SB	T	Solid	Increment, Prep	
240-22274-11	079SB-0291M-0001-SB	T	Solid	Increment, Prep	
240-22274-12	079SB-0292M-0001-SO	T	Solid	Increment, Prep	
240-22274-13	079SB-0293M-0001-SO	T	Solid	Increment, Prep	
240-22274-16	079SB-0256M-0001-SO	T	Solid	Increment, Prep	
240-22274-17	079SB-0258M-0001-SO	T	Solid	Increment, Prep	
240-22274-18	079SB-0260M-0001-SO	T	Solid	Increment, Prep	
240-22274-19	079SB-0261M-0001-SO	T	Solid	Increment, Prep	
240-22274-20	079SB-0262M-0001-SO	T	Solid	Increment, Prep	
240-22274-21	079SB-0263M-0001-SO	T	Solid	Increment, Prep	
240-22274-22	079SB-0264M-0001-SO	T	Solid	Increment, Prep	
240-22274-22DU	Duplicate	T	Solid	Increment, Prep	
240-22274-22MS	Matrix Spike	T	Solid	Increment, Prep	
240-22274-25	079SB-0224M-0001-SO	T	Solid	Increment, Prep	
240-22274-26	079SB-0225M-0001-SO	T	Solid	Increment, Prep	
240-22274-27	079SB-0227M-0001-SO	T	Solid	Increment, Prep	
240-22274-28	079SB-0228M-0001-SO	T	Solid	Increment, Prep	
240-22274-29	079SB-0229M-0001-SO	T	Solid	Increment, Prep	
240-22274-30	079SB-0230M-0001-SO	T	Solid	Increment, Prep	
240-22274-31	079SB-0231M-0001-SO	T	Solid	Increment, Prep	
240-22274-34	079SS-0320M-0001-SO	T	Solid	Increment, Prep	
240-22274-35	079SS-0321M-0001-SO	T	Solid	Increment, Prep	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:240-79644					
LCS 240-79493/2-A	Lab Control Sample	T	Solid	7471/DOD	240-79493
MB 240-79493/1-A	Method Blank	T	Solid	7471/DOD	240-79493
240-22274-2	079SD-0309-0001-SD	T	Solid	7471/DOD	240-79493
240-22274-3	079SD-0305-0001-0002-SD	T	Solid	7471/DOD	240-79493
240-22274-3DU	Duplicate	T	Solid	7471/DOD	240-79493
240-22274-3MS	Matrix Spike	T	Solid	7471/DOD	240-79493
240-22274-4	079SD-0306-0001-SD	T	Solid	7471/DOD	240-79493
240-22274-5	079SD-0307-0001-SD	T	Solid	7471/DOD	240-79493
240-22274-6	079SD-0310-0001-SD	T	Solid	7471/DOD	240-79493
240-22274-14	079SS-0294-0001-SO	T	Solid	7471/DOD	240-79493
240-22274-15	079SS-0295-0001-SO	T	Solid	7471/DOD	240-79493
240-22274-23	079SS-0265-0001-SO	T	Solid	7471/DOD	240-79493
240-22274-24	079SS-0266-0001-SO	T	Solid	7471/DOD	240-79493
240-22274-32	079SS-0232-0001-SO	T	Solid	7471/DOD	240-79493
240-22274-33	079SS-0233-0001-SO	T	Solid	7471/DOD	240-79493
Prep Batch: 240-79782					
LCS 240-79782/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-79782/1-A	Method Blank	T	Solid	7471A	
240-22274-7	079SB-0287M-0001-SB	T	Solid	7471A	240-79541
240-22274-8	079SB-0288M-0001-SB	T	Solid	7471A	240-79541
240-22274-9	079SB-0289M-0001-SB	T	Solid	7471A	240-79541
240-22274-10	079SB-0290M-0001-SB	T	Solid	7471A	240-79541
240-22274-11	079SB-0291M-0001-SB	T	Solid	7471A	240-79541
240-22274-12	079SB-0292M-0001-SO	T	Solid	7471A	240-79541
240-22274-13	079SB-0293M-0001-SO	T	Solid	7471A	240-79541
240-22274-16	079SB-0256M-0001-SO	T	Solid	7471A	240-79541
240-22274-17	079SB-0258M-0001-SO	T	Solid	7471A	240-79541
240-22274-18	079SB-0260M-0001-SO	T	Solid	7471A	240-79541
240-22274-19	079SB-0261M-0001-SO	T	Solid	7471A	240-79541
240-22274-20	079SB-0262M-0001-SO	T	Solid	7471A	240-79541
240-22274-21	079SB-0263M-0001-SO	T	Solid	7471A	240-79541

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-79941					
LCS 240-79941/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-79941/1-A	Method Blank	T	Solid	7471A	
240-22274-22	079SB-0264M-0001-SO	T	Solid	7471A	240-79541
240-22274-22DU	Duplicate	T	Solid	7471A	240-79541
240-22274-22MS	Matrix Spike	T	Solid	7471A	240-79541
240-22274-25	079SB-0224M-0001-SO	T	Solid	7471A	240-79541
240-22274-26	079SB-0225M-0001-SO	T	Solid	7471A	240-79541
240-22274-27	079SB-0227M-0001-SO	T	Solid	7471A	240-79541
240-22274-28	079SB-0228M-0001-SO	T	Solid	7471A	240-79541
240-22274-29	079SB-0229M-0001-SO	T	Solid	7471A	240-79541
240-22274-30	079SB-0230M-0001-SO	T	Solid	7471A	240-79541
240-22274-31	079SB-0231M-0001-SO	T	Solid	7471A	240-79541
240-22274-34	079SS-0320M-0001-SO	T	Solid	7471A	240-79541
240-22274-35	079SS-0321M-0001-SO	T	Solid	7471A	240-79541
Analysis Batch:240-80366					
LCS 240-79782/2-A	Lab Control Sample	T	Solid	7471/DOD	240-79782
MB 240-79782/1-A	Method Blank	T	Solid	7471/DOD	240-79782
LCS 240-79941/2-A	Lab Control Sample	T	Solid	7471/DOD	240-79941
MB 240-79941/1-A	Method Blank	T	Solid	7471/DOD	240-79941
240-22274-7	079SB-0287M-0001-SB	T	Solid	7471/DOD	240-79782
240-22274-8	079SB-0288M-0001-SB	T	Solid	7471/DOD	240-79782
240-22274-9	079SB-0289M-0001-SB	T	Solid	7471/DOD	240-79782
240-22274-10	079SB-0290M-0001-SB	T	Solid	7471/DOD	240-79782
240-22274-11	079SB-0291M-0001-SB	T	Solid	7471/DOD	240-79782
240-22274-12	079SB-0292M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-13	079SB-0293M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-16	079SB-0256M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-17	079SB-0258M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-18	079SB-0260M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-19	079SB-0261M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-20	079SB-0262M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-21	079SB-0263M-0001-SO	T	Solid	7471/DOD	240-79782
240-22274-22	079SB-0264M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-22DU	Duplicate	T	Solid	7471/DOD	240-79941
240-22274-22MS	Matrix Spike	T	Solid	7471/DOD	240-79941
240-22274-25	079SB-0224M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-26	079SB-0225M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-27	079SB-0227M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-28	079SB-0228M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-29	079SB-0229M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-30	079SB-0230M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-31	079SB-0231M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-34	079SS-0320M-0001-SO	T	Solid	7471/DOD	240-79941
240-22274-35	079SS-0321M-0001-SO	T	Solid	7471/DOD	240-79941

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 320-13366					
LCS 320-13300/2-B	Lab Control Sample	T	Solid	353 (NCell-Hyd)	
MB 320-13300/1-B	Method Blank	T	Solid	353 (NCell-Hyd)	
240-22274-2	079SD-0309-0001-SD	T	Solid	353 (NCell-Hyd)	
Analysis Batch:320-13493					
LCS 320-13300/2-B	Lab Control Sample	T	Solid	WS-WC-0050	320-13366
MB 320-13300/1-B	Method Blank	T	Solid	WS-WC-0050	320-13366
240-22274-2	079SD-0309-0001-SD	T	Solid	WS-WC-0050	320-13366
Analysis Batch:240-80080					
240-22274-2	079SD-0309-0001-SD	T	Solid	Moisture	
240-22274-3	079SD-0305-0001-0002-SD	T	Solid	Moisture	
240-22274-3DU	Duplicate	T	Solid	Moisture	
240-22274-4	079SD-0306-0001-SD	T	Solid	Moisture	
240-22274-5	079SD-0307-0001-SD	T	Solid	Moisture	
240-22274-6	079SD-0310-0001-SD	T	Solid	Moisture	
240-22274-7	079SB-0287M-0001-SB	T	Solid	Moisture	
240-22274-8	079SB-0288M-0001-SB	T	Solid	Moisture	
240-22274-9	079SB-0289M-0001-SB	T	Solid	Moisture	
240-22274-10	079SB-0290M-0001-SB	T	Solid	Moisture	
240-22274-11	079SB-0291M-0001-SB	T	Solid	Moisture	
240-22274-12	079SB-0292M-0001-SO	T	Solid	Moisture	
240-22274-13	079SB-0293M-0001-SO	T	Solid	Moisture	
240-22274-14	079SS-0294-0001-SO	T	Solid	Moisture	
240-22274-15	079SS-0295-0001-SO	T	Solid	Moisture	
240-22274-16	079SB-0256M-0001-SO	T	Solid	Moisture	
240-22274-17	079SB-0258M-0001-SO	T	Solid	Moisture	
240-22274-18	079SB-0260M-0001-SO	T	Solid	Moisture	

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-80250					
240-22274-19	079SB-0261M-0001-SO	T	Solid	Moisture	
240-22274-20	079SB-0262M-0001-SO	T	Solid	Moisture	
240-22274-21	079SB-0263M-0001-SO	T	Solid	Moisture	
240-22274-22	079SB-0264M-0001-SO	T	Solid	Moisture	
240-22274-23	079SS-0265-0001-SO	T	Solid	Moisture	
240-22274-24	079SS-0266-0001-SO	T	Solid	Moisture	
240-22274-24DU	Duplicate	T	Solid	Moisture	
240-22274-25	079SB-0224M-0001-SO	T	Solid	Moisture	
240-22274-25DU	Duplicate	T	Solid	Moisture	
240-22274-26	079SB-0225M-0001-SO	T	Solid	Moisture	
240-22274-27	079SB-0227M-0001-SO	T	Solid	Moisture	
240-22274-28	079SB-0228M-0001-SO	T	Solid	Moisture	
240-22274-29	079SB-0229M-0001-SO	T	Solid	Moisture	
240-22274-30	079SB-0230M-0001-SO	T	Solid	Moisture	
240-22274-31	079SB-0231M-0001-SO	T	Solid	Moisture	
240-22274-32	079SS-0232-0001-SO	T	Solid	Moisture	
240-22274-33	079SS-0233-0001-SO	T	Solid	Moisture	
240-22274-34	079SS-0320M-0001-SO	T	Solid	Moisture	
240-22274-35	079SS-0321M-0001-SO	T	Solid	Moisture	

Report Basis

T = Total

Client: Environmental Chemical Corp. Job Number: 240-22274-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 320-13506					
LCS 320-13506/2-A	Lab Control Sample	T	Solid	Sieve/Ultrasoni	
MB 320-13506/1-A	Method Blank	T	Solid	Sieve/Ultrasoni	
240-22274-2	079SD-0309-0001-SD	T	Solid	Sieve/Ultrasoni	
240-22274-2MS	Matrix Spike	T	Solid	Sieve/Ultrasoni	
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	Sieve/Ultrasoni	
Prep Batch: 320-13509					
LCS 320-13509/2-A	Lab Control Sample	T	Solid	8330B	
MB 320-13509/1-A	Method Blank	T	Solid	8330B	
240-22274-2	079SD-0309-0001-SD	T	Solid	8330B	
240-22274-2MS	Matrix Spike	T	Solid	8330B	
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	8330B	
Analysis Batch:320-13918					
LCS 320-13506/2-A	Lab Control Sample	T	Solid	8330 Modified	320-13506
MB 320-13506/1-A	Method Blank	T	Solid	8330 Modified	320-13506
240-22274-2	079SD-0309-0001-SD	T	Solid	8330 Modified	320-13506
240-22274-2MS	Matrix Spike	T	Solid	8330 Modified	320-13506
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	8330 Modified	320-13506
Analysis Batch:320-14050					
MB 320-13506/1-A	Method Blank	T	Solid	8330 Modified	320-13506
240-22274-2	079SD-0309-0001-SD	T	Solid	8330 Modified	320-13506
Analysis Batch:320-14179					
LCS 320-13509/2-A	Lab Control Sample	T	Solid	8330B	320-13509
MB 320-13509/1-A	Method Blank	T	Solid	8330B	320-13509
240-22274-2	079SD-0309-0001-SD	T	Solid	8330B	320-13509
240-22274-2MS	Matrix Spike	T	Solid	8330B	320-13509
240-22274-2MSD	Matrix Spike Duplicate	T	Solid	8330B	320-13509
Analysis Batch:320-14569					
MB 320-13509/1-A	Method Blank	T	Solid	8330B	320-13509
240-22274-2	079SD-0309-0001-SD	T	Solid	8330B	320-13509

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-1 **Client ID: 079SD-0194-0001-TB**

Sample Date/Time: 03/20/2013 08:00 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-22274-A-1		240-79725		03/28/2013 12:14	1	TAL CAN	RQ
A:8260B/DoD	240-22274-A-1		240-79725		03/28/2013 12:14	1	TAL CAN	RQ

Lab ID: 240-22274-2 **Client ID: 079SD-0309-0001-SD**

Sample Date/Time: 03/20/2013 11:30 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	240-22274-C-2-A		240-80302	240-79220	03/21/2013 18:20	1	TAL CAN	LM
A:8260B/DoD	240-22274-C-2-A		240-80302	240-79220	04/02/2013 16:58	1	TAL CAN	SM
P:3540C	240-22274-E-2-H		240-80755	240-80284	04/02/2013 12:45	1	TAL CAN	MM
A:8270C/DoD	240-22274-E-2-H		240-80755	240-80284	04/05/2013 16:06	1	TAL CAN	MU
P:3540C	240-22274-E-2-E		240-80447	240-80060	04/01/2013 10:09	2	TAL CAN	MM
A:8081/DOD	240-22274-E-2-E		240-80447	240-80060	04/03/2013 23:59	2	TAL CAN	RS
P:3540C	240-22274-E-2-B		240-80431	240-79894	03/29/2013 08:45	1	TAL CAN	MM
A:8082/DOD	240-22274-E-2-B		240-80431	240-79894	04/03/2013 13:45	1	TAL CAN	LH
P:Sieve/Ultrasoni	240-22274-F-2-C		320-13918	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	240-22274-F-2-C		320-13918	320-13506	04/09/2013 18:41	1	TAL SAC	kr
P:Sieve/Ultrasoni	240-22274-F-2-C		320-14050	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	240-22274-F-2-C		320-14050	320-13506	04/10/2013 18:48	1	TAL SAC	kr
P:8330B	240-22274-F-2-F		320-14179	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	240-22274-F-2-F		320-14179	320-13509	04/13/2013 18:26	1	TAL SAC	kr
P:8330B	240-22274-F-2-F		320-14569	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	240-22274-F-2-F		320-14569	320-13509	04/18/2013 11:00	1	TAL SAC	RN
P:3050B	240-22274-G-2-A		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-G-2-A		180-69084	180-67960	04/12/2013 21:24	1	TAL PIT	BR
P:7471A	240-22274-E-2-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-E-2-A		240-79644	240-79493	03/27/2013 09:56	1	TAL CAN	RT
A:Moisture	240-22274-D-2		240-80080		04/01/2013 10:49	1	TAL CAN	JS
P:353 (NCell-Hyd)	240-22274-F-2-B		320-13493	320-13366	04/01/2013 06:04	1	TAL SAC	TP
A:WS-WC-0050	240-22274-F-2-B		320-13493	320-13366	04/02/2013 12:50	1	TAL SAC	JB

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-2 MS **Client ID: 079SD-0309-0001-SD**

Sample Date/Time: 03/20/2013 11:30 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22274-E-2-F MS		240-80447	240-80060	04/01/2013 10:09	2	TAL CAN	MM
A:8081/DOD	240-22274-E-2-F MS		240-80447	240-80060	04/04/2013 00:27	2	TAL CAN	RS
P:3540C	240-22274-E-2-C MS		240-80431	240-79894	03/29/2013 08:45	1	TAL CAN	MM
A:8082/DOD	240-22274-E-2-C MS		240-80431	240-79894	04/03/2013 13:59	1	TAL CAN	LH
P:Sieve/Ultrasoni	240-22274-F-2-D MS		320-13918	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	240-22274-F-2-D MS		320-13918	320-13506	04/09/2013 18:58	1	TAL SAC	kr
P:8330B	240-22274-F-2-G MS		320-14179	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	240-22274-F-2-G MS		320-14179	320-13509	04/13/2013 19:23	1	TAL SAC	kr

Lab ID: 240-22274-2 MSD **Client ID: 079SD-0309-0001-SD**

Sample Date/Time: 03/20/2013 11:30 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22274-E-2-G MSD		240-80447	240-80060	04/01/2013 10:09	2	TAL CAN	MM
A:8081/DOD	240-22274-E-2-G MSD		240-80447	240-80060	04/04/2013 00:55	2	TAL CAN	RS
P:3540C	240-22274-E-2-D MSD		240-80431	240-79894	03/29/2013 08:45	1	TAL CAN	MM
A:8082/DOD	240-22274-E-2-D MSD		240-80431	240-79894	04/03/2013 14:13	1	TAL CAN	LH
P:Sieve/Ultrasoni	240-22274-F-2-E MSD		320-13918	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	240-22274-F-2-E MSD		320-13918	320-13506	04/09/2013 19:34	1	TAL SAC	kr
P:8330B	240-22274-F-2-H MSD		320-14179	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	240-22274-F-2-H MSD		320-14179	320-13509	04/13/2013 21:17	1	TAL SAC	kr

Lab ID: 240-22274-3 **Client ID: 079SD-0305-0001-0002-SD**

Sample Date/Time: 03/19/2013 14:00 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-E-3-A		180-68949	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-E-3-A		180-68949	180-67960	04/11/2013 04:33	1	TAL PIT	BR
P:7471A	240-22274-C-3-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-3-A		240-79644	240-79493	03/27/2013 09:51	1	TAL CAN	RT
A:Moisture	240-22274-B-3		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-3 **Client ID: 079SD-0305-0001-0002-SD**

Sample Date/Time: 03/19/2013 14:00 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-A-3-B MS		180-68949	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-A-3-B MS		180-68949	180-67960	04/11/2013 04:58	1	TAL PIT	BR
P:7471A	240-22274-C-3-C MS		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-3-C MS		240-79644	240-79493	03/27/2013 09:54	1	TAL CAN	RT

Lab ID: 240-22274-3 **Client ID: 079SD-0305-0001-0002-SD**

Sample Date/Time: 03/19/2013 14:00 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-A-3-A DU		180-68949	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-A-3-A DU		180-68949	180-67960	04/11/2013 04:50	1	TAL PIT	BR
P:7471A	240-22274-C-3-B DU		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-3-B DU		240-79644	240-79493	03/27/2013 09:53	1	TAL CAN	RT
A:Moisture	240-22274-A-3 DU		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-3 SD **Client ID: 079SD-0305-0001-0002-SD**

Sample Date/Time: 03/19/2013 14:00 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-E-3-A SD ^5		180-68949	180-67960	04/02/2013 08:05	5	TAL PIT	CNS
A:6020/DOD	240-22274-E-3-A SD ^5		180-68949	180-67960	04/11/2013 04:41	5	TAL PIT	BR
P:3050B	240-22274-E-3-A PDS		180-68949	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-E-3-A PDS		180-68949	180-67960	04/11/2013 05:06	1	TAL PIT	BR

Lab ID: 240-22274-4 **Client ID: 079SD-0306-0001-SD**

Sample Date/Time: 03/19/2013 14:10 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-4-A		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-4-A		180-69084	180-67960	04/12/2013 21:32	1	TAL PIT	BR
P:7471A	240-22274-C-4-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-4-A		240-79644	240-79493	03/27/2013 09:57	1	TAL CAN	RT
A:Moisture	240-22274-A-4		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-5 **Client ID: 079SD-0307-0001-SD**

Sample Date/Time: 03/19/2013 14:10 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-5-A		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-5-A		180-69084	180-67960	04/12/2013 21:40	1	TAL PIT	BR
P:7471A	240-22274-C-5-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-5-A		240-79644	240-79493	03/27/2013 09:58	1	TAL CAN	RT
A:Moisture	240-22274-A-5		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-6 **Client ID: 079SD-0310-0001-SD**

Sample Date/Time: 03/19/2013 14:35 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-6-A ^10		180-69084	180-67960	04/02/2013 08:05	10	TAL PIT	CNS
A:6020/DOD	240-22274-B-6-A ^10		180-69084	180-67960	04/12/2013 20:24	10	TAL PIT	BR
P:3050B	240-22274-B-6-A		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-6-A		180-69084	180-67960	04/12/2013 21:48	1	TAL PIT	BR
P:7471A	240-22274-C-6-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-6-A		240-79644	240-79493	03/27/2013 10:00	1	TAL CAN	RT
A:Moisture	240-22274-A-6		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-7 **Client ID: 079SB-0287M-0001-SB**

Sample Date/Time: 03/19/2013 16:23 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-7-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-7-C		180-69084	180-67960	04/12/2013 21:56	1	TAL PIT	BR
P:7471A	240-22274-B-7-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-7-B		240-80366	240-79782	04/02/2013 14:03	1	TAL CAN	AS
A:Moisture	240-22274-A-7		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-8 **Client ID: 079SB-0288M-0001-SB**

Sample Date/Time: 03/19/2013 16:32 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-8-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-8-C		180-69084	180-67960	04/12/2013 22:05	1	TAL PIT	BR
P:7471A	240-22274-B-8-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-8-B		240-80366	240-79782	04/02/2013 14:04	1	TAL CAN	AS
A:Moisture	240-22274-A-8		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-9 **Client ID: 079SB-0289M-0001-SB**

Sample Date/Time: 03/19/2013 14:24 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-9-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-9-C		180-69084	180-67960	04/12/2013 22:13	1	TAL PIT	BR
P:7471A	240-22274-B-9-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-9-B		240-80366	240-79782	04/02/2013 14:06	1	TAL CAN	AS
A:Moisture	240-22274-A-9		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-10 **Client ID: 079SB-0290M-0001-SB**

Sample Date/Time: 03/19/2013 16:16 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-10-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-10-C		180-69084	180-67960	04/12/2013 22:21	1	TAL PIT	BR
P:7471A	240-22274-B-10-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-10-B		240-80366	240-79782	04/02/2013 14:07	1	TAL CAN	AS
A:Moisture	240-22274-A-10		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-11 **Client ID: 079SB-0291M-0001-SB**

Sample Date/Time: 03/19/2013 16:35 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-11-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-11-C		180-69084	180-67960	04/12/2013 22:29	1	TAL PIT	BR
P:7471A	240-22274-B-11-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-11-B		240-80366	240-79782	04/02/2013 14:09	1	TAL CAN	AS
A:Moisture	240-22274-A-11		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-12 **Client ID: 079SB-0292M-0001-SO**

Sample Date/Time: 03/19/2013 15:26 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-12-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-12-C		180-69084	180-67960	04/12/2013 22:38	1	TAL PIT	BR
P:7471A	240-22274-B-12-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-12-B		240-80366	240-79782	04/02/2013 14:10	1	TAL CAN	AS
A:Moisture	240-22274-A-12		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-13 **Client ID: 079SB-0293M-0001-SO**

Sample Date/Time: 03/19/2013 15:21 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-13-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-13-C		180-69084	180-67960	04/12/2013 23:02	1	TAL PIT	BR
P:7471A	240-22274-B-13-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-13-B		240-80366	240-79782	04/02/2013 14:11	1	TAL CAN	AS
A:Moisture	240-22274-A-13		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-14 **Client ID: 079SS-0294-0001-SO**

Sample Date/Time: 03/19/2013 15:02 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-14-A ^1000		180-69084	180-67960	04/02/2013 08:05	1000	TAL PIT	CNS
A:6020/DOD	240-22274-B-14-A ^1000		180-69084	180-67960	04/12/2013 20:33	1000	TAL PIT	BR
P:3050B	240-22274-B-14-A ^10		180-69084	180-67960	04/02/2013 08:05	10	TAL PIT	CNS
A:6020/DOD	240-22274-B-14-A ^10		180-69084	180-67960	04/12/2013 23:10	10	TAL PIT	BR
P:7471A	240-22274-C-14-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-14-A		240-79644	240-79493	03/27/2013 10:01	1	TAL CAN	RT
A:Moisture	240-22274-A-14		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-15 **Client ID: 079SS-0295-0001-SO**

Sample Date/Time: 03/19/2013 15:05 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-15-A		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-15-A		180-69084	180-67960	04/12/2013 23:19	1	TAL PIT	BR
P:7471A	240-22274-C-15-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-15-A		240-79644	240-79493	03/27/2013 10:06	1	TAL CAN	RT
A:Moisture	240-22274-A-15		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-16 **Client ID: 079SB-0256M-0001-SO**

Sample Date/Time: 03/19/2013 12:06 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-16-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-16-C		180-69084	180-67960	04/12/2013 23:27	1	TAL PIT	BR
P:7471A	240-22274-B-16-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-16-B		240-80366	240-79782	04/02/2013 14:12	1	TAL CAN	AS
A:Moisture	240-22274-A-16		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-17 **Client ID: 079SB-0258M-0001-SO**

Sample Date/Time: 03/19/2013 12:02 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-17-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-17-C		180-69084	180-67960	04/12/2013 23:35	1	TAL PIT	BR
P:7471A	240-22274-B-17-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-17-B		240-80366	240-79782	04/02/2013 14:16	1	TAL CAN	AS
A:Moisture	240-22274-A-17		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-18 **Client ID: 079SB-0260M-0001-SO**

Sample Date/Time: 03/19/2013 10:53 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-18-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-18-C		180-69084	180-67960	04/12/2013 23:43	1	TAL PIT	BR
P:7471A	240-22274-B-18-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-18-B		240-80366	240-79782	04/02/2013 14:18	1	TAL CAN	AS
A:Moisture	240-22274-A-18		240-80080		04/01/2013 10:49	1	TAL CAN	JS

Lab ID: 240-22274-19 **Client ID: 079SB-0261M-0001-SO**

Sample Date/Time: 03/19/2013 11:29 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-19-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-19-C		180-69084	180-67960	04/12/2013 23:51	1	TAL PIT	BR
P:7471A	240-22274-B-19-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-19-B		240-80366	240-79782	04/02/2013 14:19	1	TAL CAN	AS
A:Moisture	240-22274-A-19		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-20 **Client ID: 079SB-0262M-0001-SO**

Sample Date/Time: 03/19/2013 12:05 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-20-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-20-C		180-69084	180-67960	04/13/2013 00:00	1	TAL PIT	BR
P:7471A	240-22274-B-20-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-20-B		240-80366	240-79782	04/02/2013 14:20	1	TAL CAN	AS
A:Moisture	240-22274-A-20		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-21 **Client ID: 079SB-0263M-0001-SO**

Sample Date/Time: 03/19/2013 11:42 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-21-C		180-69084	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	240-22274-B-21-C		180-69084	180-67960	04/13/2013 00:08	1	TAL PIT	BR
P:7471A	240-22274-B-21-B		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	240-22274-B-21-B		240-80366	240-79782	04/02/2013 14:22	1	TAL CAN	AS
A:Moisture	240-22274-A-21		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-22 **Client ID: 079SB-0264M-0001-SO**

Sample Date/Time: 03/19/2013 10:58 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-22-E		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-22-E		180-69084	180-67996	04/13/2013 00:49	1	TAL PIT	BR
P:7471A	240-22274-B-22-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-22-B		240-80366	240-79941	04/02/2013 14:27	1	TAL CAN	AS
A:Moisture	240-22274-A-22		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-22 MS **Client ID: 079SB-0264M-0001-SO**

Sample Date/Time: 03/19/2013 10:58 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-22-G MS		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-22-G MS		180-69084	180-67996	04/13/2013 01:14	1	TAL PIT	BR
P:7471A	240-22274-B-22-D MS		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-22-D MS		240-80366	240-79941	04/02/2013 14:30	1	TAL CAN	AS

Lab ID: 240-22274-22 DU **Client ID: 079SB-0264M-0001-SO**

Sample Date/Time: 03/19/2013 10:58 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-22-F DU		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-22-F DU		180-69084	180-67996	04/13/2013 01:06	1	TAL PIT	BR
P:7471A	240-22274-B-22-C DU		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-22-C DU		240-80366	240-79941	04/02/2013 14:28	1	TAL CAN	AS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-22 SD **Client ID: 079SB-0264M-0001-SO**

Sample Date/Time: 03/19/2013 10:58 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-22-E SD ^5		180-69084	180-67996	04/02/2013 11:06	5	TAL PIT	CH
A:6020/DOD	240-22274-B-22-E SD ^5		180-69084	180-67996	04/13/2013 00:57	5	TAL PIT	BR
P:3050B	240-22274-B-22-E PDS		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-22-E PDS		180-69084	180-67996	04/13/2013 01:24	1	TAL PIT	BR

Lab ID: 240-22274-23 **Client ID: 079SS-0265-0001-SO**

Sample Date/Time: 03/19/2013 10:56 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-23-A ^10		180-69084	180-67996	04/02/2013 11:06	10	TAL PIT	CH
A:6020/DOD	240-22274-B-23-A ^10		180-69084	180-67996	04/12/2013 20:41	10	TAL PIT	BR
P:3050B	240-22274-B-23-A		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-23-A		180-69084	180-67996	04/13/2013 01:32	1	TAL PIT	BR
P:7471A	240-22274-C-23-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-23-A		240-79644	240-79493	03/27/2013 10:07	1	TAL CAN	RT
A:Moisture	240-22274-A-23		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-24 **Client ID: 079SS-0266-0001-SO**

Sample Date/Time: 03/19/2013 11:05 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-24-A		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-24-A		180-69084	180-67996	04/13/2013 01:40	1	TAL PIT	BR
P:7471A	240-22274-C-24-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-24-A		240-79644	240-79493	03/27/2013 10:09	1	TAL CAN	RT
A:Moisture	240-22274-A-24		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-24 DU **Client ID: 079SS-0266-0001-SO**

Sample Date/Time: 03/19/2013 11:05 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22274-A-24 DU		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-25 **Client ID:** 079SB-0224M-0001-SO

Sample Date/Time: 03/19/2013 10:22 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-25-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-25-C		180-69084	180-67996	04/13/2013 01:50	1	TAL PIT	BR
P:7471A	240-22274-B-25-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-25-B		240-80366	240-79941	04/02/2013 14:41	1	TAL CAN	AS
A:Moisture	240-22274-A-25		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-25 DU **Client ID:** 079SB-0224M-0001-SO

Sample Date/Time: 03/19/2013 10:22 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22274-A-25 DU		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-26 **Client ID:** 079SB-0225M-0001-SO

Sample Date/Time: 03/19/2013 10:28 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-26-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-26-C		180-69084	180-67996	04/13/2013 01:58	1	TAL PIT	BR
P:7471A	240-22274-B-26-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-26-B		240-80366	240-79941	04/02/2013 14:42	1	TAL CAN	AS
A:Moisture	240-22274-A-26		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-27 **Client ID:** 079SB-0227M-0001-SO

Sample Date/Time: 03/19/2013 09:10 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-27-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-27-C		180-69084	180-67996	04/13/2013 02:23	1	TAL PIT	BR
P:7471A	240-22274-B-27-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-27-B		240-80366	240-79941	04/02/2013 14:44	1	TAL CAN	AS
A:Moisture	240-22274-A-27		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-28 **Client ID: 079SB-0228M-0001-SO**

Sample Date/Time: 03/19/2013 09:40 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-28-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-28-C		180-69084	180-67996	04/13/2013 02:31	1	TAL PIT	BR
P:7471A	240-22274-B-28-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-28-B		240-80366	240-79941	04/02/2013 14:45	1	TAL CAN	AS
A:Moisture	240-22274-A-28		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-29 **Client ID: 079SB-0229M-0001-SO**

Sample Date/Time: 03/19/2013 09:58 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-29-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-29-C		180-69084	180-67996	04/13/2013 02:39	1	TAL PIT	BR
P:7471A	240-22274-B-29-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-29-B		240-80366	240-79941	04/02/2013 14:47	1	TAL CAN	AS
A:Moisture	240-22274-A-29		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-30 **Client ID: 079SB-0230M-0001-SO**

Sample Date/Time: 03/19/2013 10:18 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-30-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-30-C		180-69084	180-67996	04/13/2013 02:48	1	TAL PIT	BR
P:3050B	240-22274-B-30-C ^10		180-69084	180-67996	04/02/2013 11:06	10	TAL PIT	CH
A:6020/DOD	240-22274-B-30-C ^10		180-69084	180-67996	04/13/2013 03:37	10	TAL PIT	BR
P:7471A	240-22274-B-30-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-30-B		240-80366	240-79941	04/02/2013 14:48	1	TAL CAN	AS
A:Moisture	240-22274-A-30		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-31 **Client ID: 079SB-0231M-0001-SO**

Sample Date/Time: 03/19/2013 09:25 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-31-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-31-C		180-69084	180-67996	04/13/2013 02:56	1	TAL PIT	BR
P:7471A	240-22274-B-31-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-31-B		240-80366	240-79941	04/02/2013 14:49	1	TAL CAN	AS
A:Moisture	240-22274-A-31		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-32 **Client ID: 079SS-0232-0001-SO**

Sample Date/Time: 03/19/2013 09:26 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-32-A		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-32-A		180-69084	180-67996	04/13/2013 03:04	1	TAL PIT	BR
P:7471A	240-22274-C-32-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-32-A		240-79644	240-79493	03/27/2013 10:10	1	TAL CAN	RT
A:Moisture	240-22274-A-32		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-33 **Client ID: 079SS-0233-0001-SO**

Sample Date/Time: 03/19/2013 09:22 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-33-A		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-33-A		180-69084	180-67996	04/13/2013 03:12	1	TAL PIT	BR
P:3050B	240-22274-B-33-A ^10		180-69084	180-67996	04/02/2013 11:06	10	TAL PIT	CH
A:6020/DOD	240-22274-B-33-A ^10		180-69084	180-67996	04/13/2013 04:02	10	TAL PIT	BR
P:7471A	240-22274-C-33-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22274-C-33-A		240-79644	240-79493	03/27/2013 10:12	1	TAL CAN	RT
A:Moisture	240-22274-A-33		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22274-34 **Client ID: 079SS-0320M-0001-SO**

Sample Date/Time: 03/19/2013 09:50 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-34-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-34-C		180-69084	180-67996	04/13/2013 03:20	1	TAL PIT	BR
P:3050B	240-22274-B-34-C ^10		180-69084	180-67996	04/02/2013 11:06	10	TAL PIT	CH
A:6020/DOD	240-22274-B-34-C ^10		180-69084	180-67996	04/13/2013 04:10	10	TAL PIT	BR
P:7471A	240-22274-B-34-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-34-B		240-80366	240-79941	04/02/2013 14:51	1	TAL CAN	AS
A:Moisture	240-22274-A-34		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: 240-22274-35 **Client ID: 079SS-0321M-0001-SO**

Sample Date/Time: 03/19/2013 12:20 Received Date/Time: 03/20/2013 17:27

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22274-B-35-C		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	240-22274-B-35-C		180-69084	180-67996	04/13/2013 03:29	1	TAL PIT	BR
P:7471A	240-22274-B-35-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22274-B-35-B		240-80366	240-79941	04/02/2013 14:52	1	TAL CAN	AS
A:Moisture	240-22274-A-35		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 240-79725/6		240-79725		03/28/2013 10:55	1	TAL CAN	RQ
A:8260B/DoD	MB 240-79725/6		240-79725		03/28/2013 10:55	1	TAL CAN	RQ
A:8260B/DoD	MB 240-80302/7		240-80302		04/02/2013 16:21	1	TAL CAN	SM
P:3540C	MB 240-80284/23-A		240-80755	240-80284	04/02/2013 12:45	1	TAL CAN	MM
A:8270C/DoD	MB 240-80284/23-A		240-80755	240-80284	04/05/2013 13:03	1	TAL CAN	MU
P:3540C	MB 240-80060/15-A		240-80447	240-80060	04/01/2013 10:09	1	TAL CAN	MM
A:8081/DOD	MB 240-80060/15-A		240-80447	240-80060	04/04/2013 01:23	1	TAL CAN	RS
P:3540C	MB 240-79894/23-A		240-80431	240-79894	03/29/2013 08:45	1	TAL CAN	MM
A:8082/DOD	MB 240-79894/23-A		240-80431	240-79894	04/03/2013 14:28	1	TAL CAN	LH
P:Sieve/Ultrasoni	MB 320-13506/1-A		320-13918	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	MB 320-13506/1-A		320-13918	320-13506	04/09/2013 18:05	1	TAL SAC	kr
P:Sieve/Ultrasoni	MB 320-13506/1-A		320-14050	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	MB 320-13506/1-A		320-14050	320-13506	04/10/2013 18:28	1	TAL SAC	kr
P:8330B	MB 320-13509/1-A		320-14179	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	MB 320-13509/1-A		320-14179	320-13509	04/13/2013 16:32	1	TAL SAC	kr
P:8330B	MB 320-13509/1-A		320-14569	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	MB 320-13509/1-A		320-14569	320-13509	04/18/2013 09:54	1	TAL SAC	RN
P:3050B	MB 180-67960/1-A		180-68949	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	MB 180-67960/1-A		180-68949	180-67960	04/11/2013 04:17	1	TAL PIT	BR
P:3050B	MB 180-67996/1-A		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	MB 180-67996/1-A		180-69084	180-67996	04/13/2013 00:16	1	TAL PIT	BR
P:7471A	MB 240-79493/1-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	MB 240-79493/1-A		240-79644	240-79493	03/27/2013 09:48	1	TAL CAN	RT
P:7471A	MB 240-79782/1-A		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	MB 240-79782/1-A		240-80366	240-79782	04/02/2013 13:44	1	TAL CAN	AS
P:7471A	MB 240-79941/1-A		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	MB 240-79941/1-A		240-80366	240-79941	04/02/2013 14:23	1	TAL CAN	AS
P:353 (NCell-Hyd)	MB 320-13300/1-B		320-13493	320-13366	04/01/2013 06:04	1	TAL SAC	TP
A:WS-WC-0050	MB 320-13300/1-B		320-13493	320-13366	04/02/2013 12:46	1	TAL SAC	JB

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 240-79725/4		240-79725		03/28/2013 10:02	1	TAL CAN	RQ
A:8260B/DoD	LCS 240-79725/4		240-79725		03/28/2013 10:02	1	TAL CAN	RQ
A:8260B/DoD	LCS 240-80302/6		240-80302		04/02/2013 16:00	1	TAL CAN	SM
P:3540C	LCS 240-80284/24-A		240-80755	240-80284	04/02/2013 12:45	1	TAL CAN	MM
A:8270C/DoD	LCS 240-80284/24-A		240-80755	240-80284	04/05/2013 13:24	1	TAL CAN	MU
P:3540C	LCS 240-80060/16-A		240-80447	240-80060	04/01/2013 10:09	1	TAL CAN	MM
A:8081/DOD	LCS 240-80060/16-A		240-80447	240-80060	04/04/2013 01:51	1	TAL CAN	RS
P:3540C	LCS 240-79894/24-A		240-80431	240-79894	03/29/2013 08:45	1	TAL CAN	MM
A:8082/DOD	LCS 240-79894/24-A		240-80431	240-79894	04/03/2013 14:42	1	TAL CAN	LH
P:Sieve/Ultrasoni	LCS 320-13506/2-A		320-13918	320-13506	04/02/2013 15:43	1	TAL SAC	HA
A:8330 Modified	LCS 320-13506/2-A		320-13918	320-13506	04/09/2013 18:23	1	TAL SAC	kr
P:8330B	LCS 320-13509/2-A		320-14179	320-13509	04/02/2013 15:58	1	TAL SAC	HA
A:8330B	LCS 320-13509/2-A		320-14179	320-13509	04/13/2013 17:29	1	TAL SAC	kr
P:3050B	LCS 180-67960/2-A		180-68949	180-67960	04/02/2013 08:05	1	TAL PIT	CNS
A:6020/DOD	LCS 180-67960/2-A		180-68949	180-67960	04/11/2013 04:25	1	TAL PIT	BR
P:3050B	LCS 180-67996/2-A		180-69084	180-67996	04/02/2013 11:06	1	TAL PIT	CH
A:6020/DOD	LCS 180-67996/2-A		180-69084	180-67996	04/13/2013 00:41	1	TAL PIT	BR
P:7471A	LCS 240-79493/2-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	LCS 240-79493/2-A		240-79644	240-79493	03/27/2013 09:50	1	TAL CAN	RT
P:7471A	LCS 240-79782/2-A		240-80366	240-79782	03/28/2013 15:10	1	TAL CAN	AS
A:7471/DOD	LCS 240-79782/2-A		240-80366	240-79782	04/02/2013 13:46	1	TAL CAN	AS
P:7471A	LCS 240-79941/2-A		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	LCS 240-79941/2-A		240-80366	240-79941	04/02/2013 14:24	1	TAL CAN	AS
P:353 (NCell-Hyd)	LCS 320-13300/2-B		320-13493	320-13366	04/01/2013 06:04	1	TAL SAC	TP
A:WS-WC-0050	LCS 320-13300/2-B		320-13493	320-13366	04/02/2013 12:48	1	TAL SAC	JB

Client: Environmental Chemical Corp. Job Number: 240-22274-1

Laboratory Chronicle

Lab ID: **MRL** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MRL 240-79725/5		240-79725		03/28/2013 10:29	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-79725/5		240-79725		03/28/2013 10:29	1	TAL CAN	RQ
P:5030B	MRL 240-79725/14		240-79725		03/28/2013 14:26	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-79725/14		240-79725		03/28/2013 14:26	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-80302/5		240-80302		04/02/2013 15:38	1	TAL CAN	SM
A:8260B/DoD	MRL 240-80302/31		240-80302		04/03/2013 01:12	1	TAL CAN	SM
A:8270C/DoD	MRL 240-80755/3		240-80755		04/05/2013 11:46	1	TAL CAN	MU
A:8270C/DoD	MRL 240-80755/16		240-80755		04/05/2013 16:27	1	TAL CAN	MU
A:8081/DOD	MRL 240-80447/15		240-80447		04/03/2013 23:03	1	TAL CAN	RS
A:8081/DOD	MRL 240-80447/26		240-80447		04/04/2013 04:10	1	TAL CAN	RS
A:8082/DOD	MRL 240-80431/4		240-80431		04/03/2013 13:31	1	TAL CAN	LH
A:8082/DOD	MRL 240-80431/11		240-80431		04/03/2013 15:10	1	TAL CAN	LH
A:WS-WC-0050	MRL 320-13493/10		320-13493		04/02/2013 12:36	1	TAL SAC	JB
A:WS-WC-0050	MRL 320-13493/21		320-13493		04/02/2013 12:59	1	TAL SAC	JB

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

TAL SAC = TestAmerica Sacramento

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EX10PPMSPK_00007	06/25/13	12/28/12	MEOH, Lot 123279	1000 mL	EXPCB1016_00004	2 mL	Aroclor-1016	10 ug/mL
					EXPCB1260_00004	2 mL	Aroclor-1260	10 ug/mL
.EXPCB1016_00004	12/06/15	AccuStandard, Inc., Lot B5120059			(Purchased Reagent)		Aroclor-1016	5000 ug/mL
.EXPCB1260_00004	06/25/13	AccuStandard, Lot B3060258			(Purchased Reagent)		Aroclor-1260	5000 ug/mL
EX2/.2SURRW_00022	06/28/13	02/05/13	MEOH, Lot 123279	2000 mL	EX2/.2SURR_00002	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EX2/.2SURR_00002	10/01/13	Ultra Scientific, Lot CG-3165			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXBNALCS1_00035	12/13/13	03/27/13	MEOH, Lot 123279	200 mL	EXBNALCS_00010	40 mL	1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Dinitrobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dinitrobenzene	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Aniline	20.02 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzoic acid	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di(2-ethylhexyl)adipate	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20.02 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
.EXBNALCS_00010	12/13/13		SUPELCO, Lot LB96645		(Purchased Reagent)		1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Methylnaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Aniline	100.1 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di(2-ethylhexyl)adipate	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100.1 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
EXBNASURRW_00024	11/12/15	03/07/13	MEOH, Lot 124454	2000 mL	EXBNASURR_00009	400 mL	2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	30 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.EXBNASURR_00009	11/15/15		SUPELCO, Lot lb96723		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	150 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	150 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	150 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
EXPSTNPDESSPW_00012	04/30/13	11/28/12	MEOH, Lot 123279	200 mL	EXPELCSSTOCK_00002	20 mL	4,4'-DDD	1 ug/mL
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							alpha-Chlordane	1 ug/mL
							beta-BHC	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							gamma-Chlordane	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
.EXPELCSSTOCK_00002	04/30/13	08/02/11	MEOH, Lot 117046	100 mL	EXPESTSTOCK_00005	1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							alpha-Chlordane	10 ug/mL
							beta-BHC	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							gamma-Chlordane	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
..EXPESTSTOCK_00005	04/30/13		ULTRA, Lot CH-0689		(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							alpha-Chlordane	1000 ug/mL
							beta-BHC	1000 ug/mL
							delta-BHC	1000 ug/mL
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							Endrin ketone	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							gamma-Chlordane	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
							Methoxychlor	1000 ug/mL
MTAQUAREGIA_00477	03/26/13	03/26/13	NA, Lot NA	160 mL	MTHCL_00056	120 mL	Hydrogen Chloride	0.75 mL/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MTHNO3_00044	40 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00478	03/26/13	03/26/13	NA, Lot NA	80 mL	MTHCL_00056	60 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00044	20 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00481	03/28/13	03/28/13	NA, Lot NA	400 mL	MTHCL_00056	300 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00045	100 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00482	03/29/13	03/29/13	NA, Lot NA	320 mL	MTHCL_00056	240 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00045	80 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00484	04/02/13	04/02/13	NA, Lot NA	320 mL	MTHCL_00057	240 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00045	80 mL	Nitric acid	0.25 mL/mL
.MTHCL_00057	03/22/15		MACRON, Lot 0000013500		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00338	03/26/13	03/26/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00044	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00339	03/26/13	03/26/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00044	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00341	03/28/13	03/28/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00045	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00342	03/29/13	03/29/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00045	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00345	04/02/13	04/02/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00008	1 mL	Mercury	100 ug/L
					MTHNO3_00045	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00008	03/14/14		High Purity, Lot 1306402		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00009	03/08/14		Plasma Pure, Lot 1277101		(Purchased Reagent)		Mercury	1 ug/mL
MTKMN04W_00040	03/12/15	03/12/13	DIWATER, Lot DIWATER	2 L	MTKMN04_00013	100 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00013	10/05/17		Fisher, Lot 121666		(Purchased Reagent)		Potassium Permanganate	1 g/g
SG 1660 ICV_00003	07/03/13	07/03/12	HEXANE, Lot K42e19	10 mL	SG 1016 ICV_00004	1 mL	Aroclor-1016	10 ug/mL
					SG 1260 ICV_00005	1 mL	Aroclor-1260	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SG 1016 ICV_00004	03/31/17		ULTRA, Lot CF-0785		(Purchased Reagent)		Aroclor-1016	100 ug/mL
.SG 1260 ICV_00005	12/31/14		ULTRA, Lot CC-3829		(Purchased Reagent)		Aroclor-1260	100 ug/mL
SG1221ICV_00006	08/27/13	08/27/12	HEXANE, Lot L03E01	10 mL	SG 1221 ICV_00003	1 mL	Aroclor-1221	10000 ug/L
.SG 1221 ICV_00003	12/31/14		Ultra Scientific, Lot CB-1791z		(Purchased Reagent)		Aroclor-1221	100 ug/mL
SG1232@0.05PP_00006	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	0.5 mL	PCB-1232 Peak 1	0.05 ug/mL
							PCB-1232 Peak 2	0.05 ug/mL
							PCB-1232 Peak 3	0.05 ug/mL
							PCB-1232 Peak 4	0.05 ug/mL
							PCB-1232 Peak 5	0.05 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.1PPM_00005	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	1 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.2PPM_00005	06/05/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	2 mL	PCB-1232 Peak 1	0.2 ug/mL
							PCB-1232 Peak 2	0.2 ug/mL
							PCB-1232 Peak 3	0.2 ug/mL
							PCB-1232 Peak 4	0.2 ug/mL
							PCB-1232 Peak 5	0.2 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.5PPM_00010	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	5 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@1.0PPM_00005	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	10 mL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@2.0PPM_00005	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	20 mL	PCB-1232 Peak 1	2 ug/mL
							PCB-1232 Peak 2	2 ug/mL
							PCB-1232 Peak 3	2 ug/mL
							PCB-1232 Peak 4	2 ug/mL
							PCB-1232 Peak 5	2 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	1000 ug/mL
SG1232ICV_00004	01/15/14	01/15/13	HEXANE, Lot 0000017861	10 mL	SG 1232 ICV_00004	1 mL	Aroclor-1232	10 ug/mL
.SG 1232 ICV_00004	10/31/14	Ultra Scientific, Lot CG-3213			(Purchased Reagent)		Aroclor-1232	100 ug/mL
SG1242@.05ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	0.5 mL	PCB-1242 Peak 1	0.05 ug/mL
							PCB-1242 Peak 2	0.05 ug/mL
							PCB-1242 Peak 3	0.05 ug/mL
							PCB-1242 Peak 4	0.05 ug/mL
							PCB-1242 Peak 5	0.05 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18	Restek, Lot A080551			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.1ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	1 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL
							PCB-1242 Peak 5	0.1 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18	Restek, Lot A080551			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.2ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	2 mL	PCB-1242 Peak 1	0.2 ug/mL
							PCB-1242 Peak 2	0.2 ug/mL
							PCB-1242 Peak 3	0.2 ug/mL
							PCB-1242 Peak 4	0.2 ug/mL
							PCB-1242 Peak 5	0.2 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18	Restek, Lot A080551			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.5ppm_00008	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	5 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18		Restek, Lot A080551		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@1.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	10 mL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18		Restek, Lot A080551		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@2.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	20 mL	PCB-1242 Peak 1	2 ug/mL
							PCB-1242 Peak 2	2 ug/mL
							PCB-1242 Peak 3	2 ug/mL
							PCB-1242 Peak 4	2 ug/mL
							PCB-1242 Peak 5	2 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18		Restek, Lot A080551		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1242ICV_00003	08/09/13	08/09/12	HEXANE, Lot L08E17	10 mL	SG 1242 ICV_00003	1 mL	Aroclor-1242	10 ug/mL
.SG 1242 ICV_00003	09/30/19		Ultra Scientific, Lot CH-2711		(Purchased Reagent)		Aroclor-1242	100 ug/mL
SG1248@.05ppm_00007	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.1PPM_00006	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.2ppm_00006	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	2 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL
							PCB-1248 Peak 5	0.2 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00008	07/03/13	01/03/13	HEXANE, Lot 00000017861	100 mL	SG1248@10ppm_00004	5 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@1.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	10 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@2.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	20 mL	PCB-1248 Peak 1	2 ug/mL
							PCB-1248 Peak 2	2 ug/mL
							PCB-1248 Peak 3	2 ug/mL
							PCB-1248 Peak 4	2 ug/mL
							PCB-1248 Peak 5	2 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1248ICV_00006	01/15/14	01/15/13	HEXANE, Lot 0000017861	10 mL	SG 1248 ICV_00004	1 mL	Aroclor-1248	10 ug/mL
.SG 1248 ICV_00004	11/30/19	Ultra Scientific, Lot CH-3256			(Purchased Reagent)		Aroclor-1248	100 ug/mL
SG1254ICV_00005	01/15/14	01/15/13	HEXANE, Lot 0000017861	10 mL	SG 1254 ICV_00004	1 mL	Aroclor-1254	10 ug/mL
.SG 1254 ICV_00004	12/31/19	Ultra Scientific, Lot CH-3706			(Purchased Reagent)		Aroclor-1254	100 ug/mL
SG1660@.05PPM_00006	08/31/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SG1016/1260_00006	0.5 mL	Aroclor-1016	0.05 ug/mL
							Aroclor-1260	0.05 ug/mL
							PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCGSURRSTK_00003	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16	restek, Lot a065184			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.2ppm_00006	08/31/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SG1016/1260_00006	2 mL	PCB-1016 Peak 1	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
					SGPCGSURRSTK_00003	0.5 mL	DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16	restek, Lot a065184			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00015	07/23/13	01/23/13	HEXANE, Lot 0000017861	200 mL	SG1016/1260_00006	10 mL	Aroclor-1016	0.5 ug/mL
							Aroclor-1260	0.5 ug/mL
							PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGPCGSURRSTK_00003	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16	restek, Lot a065184			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.0PPM_00006	08/31/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SG1016/1260_00006	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCGSURRSTK_00003	2.5 mL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@2.0PPM_00006	08/31/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SG1016/1260_00006	20 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
					SGPCGSURRSTK_00003	5 mL	DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660STD@0.1_00006	08/31/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SG1016/1260_00006	1 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCGSURRSTK_00003	0.25 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG2154@0.05PP_00004	07/29/13	01/29/13	HEXANE, Lot 0000021949	100 mL	SG2154@10ppm_00003	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.SG2154@10ppm_00003	01/29/14	01/29/13	HEXANE, Lot 0000021949	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.2PPM_00005	07/29/13	01/29/13	HEXANE, Lot 0000021949	100 mL	SG2154@10ppm_00003	2 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
.SG2154@10ppm_00003	01/29/14	01/29/13	HEXANE, Lot 0000021949	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00008	07/29/13	01/29/13	HEXANE, Lot 00000021949	100 mL	SG2154@10ppm_00003	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00003	01/29/14	01/29/13	HEXANE, Lot 0000021949	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@1.0PPM_00005	07/29/13	01/29/13	HEXANE, Lot 0000021949	100 mL	SG2154@10ppm_00003	10 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00003	01/29/14	01/29/13	HEXANE, Lot 0000021949	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@2.0PPM_00005	07/29/13	01/29/13	HEXANE, Lot 0000021949	100 mL	SG2154@10ppm_00003	20 mL	PCB-1221 Peak 1	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 2	2 ug/mL
							PCB-1221 Peak 3	2 ug/mL
							PCB-1254 Peak 1	2 ug/mL
							PCB-1254 Peak 2	2 ug/mL
							PCB-1254 Peak 3	2 ug/mL
							PCB-1254 Peak 4	2 ug/mL
							PCB-1254 Peak 5	2 ug/mL
.SG2154@10ppm_00003	01/29/14	01/29/13	HEXANE, Lot 0000021949	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@O.1PPM_00005	07/29/13	01/29/13	HEXANE, Lot 0000021949	100 mL	SG2154@10ppm_00003	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.SG2154@10ppm_00003	01/29/14	01/29/13	HEXANE, Lot 0000021949	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SGPestAB1_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	25 uL	4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							alpha-Chlordane	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							gamma-Chlordane	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB2_00004	09/04/13	03/04/13	HEXANE, Lot 00000121949	100 mL	SGPESTABST_00005	50 uL	4,4'-DDD	0.01 ug/mL
							4,4'-DDE	0.01 ug/mL
							4,4'-DDT	0.01 ug/mL
							Aldrin	0.01 ug/mL
							alpha-BHC	0.01 ug/mL
							alpha-Chlordane	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							delta-BHC	0.01 ug/mL
							Dieldrin	0.01 ug/mL
							Endosulfan I	0.01 ug/mL
							Endosulfan II	0.01 ug/mL
							Endosulfan sulfate	0.01 ug/mL
							Endrin	0.01 ug/mL
							Endrin aldehyde	0.01 ug/mL
							Endrin ketone	0.01 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							gamma-Chlordane	0.01 ug/mL
							Heptachlor	0.01 ug/mL
							Heptachlor epoxide	0.01 ug/mL
							Methoxychlor	0.01 ug/mL
							DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB3_00006	09/04/13	03/04/13	HEXANE, Lot 0000021949	200 mL	SGPESTABST_00005	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB4_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	250 uL	4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							alpha-Chlordane	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							gamma-Chlordane	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB5_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	500 uL	4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							alpha-Chlordane	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							gamma-Chlordane	0.1 ug/mL
							Heptachlor	0.1 ug/mL
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB6_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	1 mL	4,4'-DDD	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							alpha-Chlordane	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							gamma-Chlordane	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPESTABCV_00011	07/25/13	01/25/13	HEXANE, Lot 0000017861	100 mL	SGPESTABIC_00005	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
.SGPESTABIC_00005	01/25/14	01/25/13	HEXANE, Lot 0000017861	100 mL	SGPESTABIV_00008	1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							alpha-Chlordane	10 ug/mL
							beta-BHC	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							gamma-Chlordane	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
..SGPESTABIV_00008	11/30/14		Ultra Scientific, Lot CJ-3745		(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							alpha-Chlordane	1000 ug/mL
							beta-BHC	1000 ug/mL
							delta-BHC	1000 ug/mL
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							Endrin ketone	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							gamma-Chlordane	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
							Methoxychlor	1000 ug/mL
SGPESTPEMS_00008	12/31/15		Restek, Lot A085642		(Purchased Reagent)		4,4'-DDT	10 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							Endrin	5 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Methoxychlor	25 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
SGPESTTOXI_00006	01/24/14	01/24/13	HEXANE, Lot 0000017861	100 mL	SGPESTTOX_00014	1 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.SGPESTTOX_00014	12/31/15		SUPELCO, Lot LB96954		(Purchased Reagent)		Toxaphene	1000 ug/mL
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
SGPESTTOXS_00006	07/27/13	07/31/12	HEXANE, Lot L08E17	100 mL	SGPESTTOX_00012	1 mL	Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.SGPESTTOX_00012	06/30/15		Restek, Lot A080394		(Purchased Reagent)		Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
SGPESTTOXS_00010	07/27/13	03/05/13	HEXANE, Lot 0000021949	100 mL	SGPESTTOX_00010	1 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.SGPESTTOX_00010	07/31/13		Restek, Lot A067190		(Purchased Reagent)		Toxaphene	1000 ug/mL
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
SMLIST1 L1 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	2 uL	1,1'-Biphenyl	0.1 ug/mL
							1,2,4-Trichlorobenzene	0.1 ug/mL
							1,2-Dichlorobenzene	0.1 ug/mL
							1,3-Dichlorobenzene	0.1 ug/mL
							1,4-Dichlorobenzene	0.1 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							2,4,5-Trichlorophenol	0.1 ug/mL
							2,4,6-Trichlorophenol	0.1 ug/mL
							2,4-Dichlorophenol	0.1 ug/mL
							2,4-Dimethylphenol	0.1 ug/mL
							2,4-Dinitrophenol	0.2 ug/mL
							2,4-Dinitrotoluene	0.1 ug/mL
							2,6-Dinitrotoluene	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Chlorophenol	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							2-Methylphenol	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	0.1 ug/mL
							2-Nitrophenol	0.1 ug/mL
							3 & 4 Methylphenol	0.1 ug/mL
							3-Nitroaniline	0.1 ug/mL
							4,6-Dinitro-2-methylphenol	0.2 ug/mL
							4-Bromophenyl phenyl ether	0.1 ug/mL
							4-Chloro-3-methylphenol	0.1 ug/mL
							4-Chloroaniline	0.1 ug/mL
							4-Chlorophenyl phenyl ether	0.1 ug/mL
							4-Nitroaniline	0.1 ug/mL
							4-Nitrophenol	0.2 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Benzyl alcohol	0.1 ug/mL
							bis (2-chloroisopropyl) ether	0.1 ug/mL
							Bis(2-chloroethoxy)methane	0.1 ug/mL
							Bis(2-chloroethyl)ether	0.1 ug/mL
							Bis(2-ethylhexyl) phthalate	0.1 ug/mL
							Butyl benzyl phthalate	0.1 ug/mL
							Carbazole	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Di-n-butyl phthalate	0.1 ug/mL
							Di-n-octyl phthalate	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Diethyl phthalate	0.1 ug/mL
							Dimethyl phthalate	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Hexachlorobutadiene	0.1 ug/mL
							Hexachlorocyclopentadiene	0.1 ug/mL
							Hexachloroethane	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Isophorone	0.1 ug/mL
							N-Nitrosodi-n-propylamine	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Nitrobenzene	0.1 ug/mL
							Pentachlorophenol	0.2 ug/mL
							Phenanthrene	0.1 ug/mL
							Phenol	0.1 ug/mL
							Pyrene	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	0.2 ug/mL
							Benzoic acid	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							2-Fluorophenol (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Phenol-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L2 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	0.5 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Atrazine	1 ug/mL
							Benzidine	1 ug/mL
							Caprolactam	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Benzaldehyde	1 ug/mL
							2,4,6-Tribromophenol (Surr)	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L3 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Atrazine	2 ug/mL
							Benzidine	2 ug/mL
							Caprolactam	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Benzaldehyde	2 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L4 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Atrazine	4 ug/mL
							Benzidine	4 ug/mL
							Caprolactam	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Benzaldehyde	4 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L5 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							bis (2-chloroisopropyl) ether	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Atrazine	10 ug/mL
							Benzidine	10 ug/mL
							Caprolactam	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Benzaldehyde	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L6 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							Naphthalene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Atrazine	20 ug/mL
							Benzidine	20 ug/mL
							Caprolactam	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Benzaldehyde	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L7 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,2-Diphenylhydrazine	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,3-Dinitrobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2,3,4,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							bis (2-chloroisopropyl) ether	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	15 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Atrazine	30 ug/mL
							Benzidine	30 ug/mL
							Caprolactam	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Benzaldehyde	30 ug/mL
							2,4,6-Tribromophenol (Surr)	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L8 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Benzaldehyde	40 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L9 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dinitrobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2,3,4,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							bis (2-chloroisopropyl) ether	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	50 ug/mL
							Atrazine	50 ug/mL
							Benzidine	50 ug/mL
							Caprolactam	50 ug/mL
							Benzoic acid	50 ug/mL
							Indene	50 ug/mL
							N-Nitrosodiphenylamine	50 ug/mL
							Benzaldehyde	50 ug/mL
							2,4,6-Tribromophenol (Surr)	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 SS W_00001	03/22/14	04/02/13	MECL2, Lot 0000028522	2 mL	SMLIST1 SS ST_00001	200 uL	1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	7.2 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzoic acid	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMLIST1 SS ST_00001	03/22/14	04/02/13	MECL2, Lot 0000028522	3 mL	SMLIST1 SS S1_00001	300 uL	1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	72 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SS S2_00001	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1 SS S3_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SS S5_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1SS SUR_00001	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 SS S1_00001	04/01/14		Restek, Lot A094002		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	720 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SS S2_00001	04/01/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1 SS S3_00001	04/01/14		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SS S5_00001	04/01/14		Restek, Lot A093671		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1SS SUR_00001	03/22/14		Restek, Lot A092712		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
vm100is_stk_00012	07/18/13	01/18/13	MEOH, Lot 124454	50 mL	VMSTM520_00016	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.VMSTM520_00016	12/31/14		Ultra Scientific, Lot CH-3660		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00012	06/17/13	12/17/12	MEOH, Lot 123279	50 mL	VMstm530_00017	2 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Dibromofluoromethane (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMstm530_00017	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM250SS_00010	06/07/13	12/07/12	MEOH, Lot 123279	100 mL	VMCUS8125_00007	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.VMCUS8125_00007	10/31/14	Ultra Scientific, Lot CG-3334			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	25000 ug/mL
							4-Bromofluorobenzene (Surr)	25000 ug/mL
							Dibromofluoromethane (Surr)	25000 ug/mL
							Toluene-d8 (Surr)	25000 ug/mL
vm50ss_00099	03/26/13	03/19/13	MEOH, Lot na	2 mL	vm50ss_stk_00049	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00049	06/15/13	03/15/13	MEOH, Lot 124454	50 mL	VMstm530_00019	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00019	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00101	04/08/13	04/01/13	MEOH, Lot na	2 mL	vm50ss_stk_00049	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00049	06/15/13	03/15/13	MEOH, Lot 124454	50 mL	VMstm530_00019	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00019	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM567649_00002	02/28/18	restek, Lot A093504			(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
VMCGAS_00114	03/24/13	03/17/13	MEOH, Lot 124454	10 mL	VMDWM544_00012	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMDWM544_00012	06/30/15	ULTRA, Lot CJ-1658			(Purchased Reagent)		Bromomethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMCGAS_00115	04/01/13	03/25/13	MEOH, Lot 124454	10 mL	VMDWM544_00012	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMDWM544_00012	06/30/15		ULTRA, Lot CJ-1658		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMCGAS_00116	04/09/13	04/02/13	MEOH, Lot 124454	10 mL	VMDWM544_00012	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMDWM544_00012	06/30/15		ULTRA, Lot CJ-1658		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASWS_00136	03/20/13	03/17/13	MEOH, Lot na	3 mL	VMFAS_00036	3 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
							Bromochloromethane	25 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
.VMFAS_00036	03/20/13	02/20/13	MEOH, Lot 124454	100 mL	VM48799U_00012	1.25 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VM556005_00011	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylenes, Total	75 ug/mL
					VM563136_00007	1 mL	Bromochloromethane	25 ug/mL
					VM861149_00034	2.5 mL	2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
..VM48799U_00012	06/30/13		Supelco, Lot LB91213		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
..VM556005_00011	05/31/13		Restek, Lot A085142		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloroethene, Total	5000 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	7500 ug/mL
..VM563136_00007	11/30/16		Restek, Lot A085140		(Purchased Reagent)		Bromochloromethane	2500 ug/mL
..VM861149_00034	04/30/15		Supelco, Lot LB96725		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone (MIBK)	2000 ug/mL
							Acetone	2000 ug/mL
VMFASWS_00139	04/04/13	03/28/13	MEOH, Lot na	3 mL	VMFAS_00037	3 mL	Bromomethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
							Bromochloromethane	25 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
.VMFAS_00037	04/20/13	03/20/13	MEOH, Lot 124454	100 mL	VM48799U_00011	1.25 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VM556005_00011	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
					VM563136_00007	1 mL	Bromochloromethane	25 ug/mL
					VM861149_00022	2.5 mL	2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
..VM48799U_00011	06/30/13		Supelco, Lot LB91213		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
..VM556005_00011	05/31/13		Restek, Lot A085142		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloroethene, Total	5000 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	7500 ug/mL
..VM563136_00007	11/30/16		Restek, Lot A085140		(Purchased Reagent)		Bromochloromethane	2500 ug/mL
..VM861149_00022	11/30/13		Supelco, Lot LB85301		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone (MIBK)	2000 ug/mL
							Acetone	2000 ug/mL
VMPRIMARY_00172	03/24/13	03/17/13	MEOH, Lot na	1 mL	VMCUS7814_00021	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
.VMCUS7814_00021	01/31/15		Ultra Scientific, Lot CJ-4366		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
VMPRIMARY_00173	04/01/13	03/25/13	MEOH, Lot na	1 mL	VMCUS7814_00021	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
.VMCUS7814_00021	01/31/15	Ultra Scientific, Lot CJ-4366			(Purchased Reagent)		1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
VMPRIMARY_00174	04/06/13	03/30/13	MEOH, Lot na	1 mL	VMCUS7814_00021	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
.VMCUS7814_00021	01/31/15	Ultra Scientific, Lot CJ-4366			(Purchased Reagent)		1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
VMPRIMARY_00175	04/09/13	04/02/13	MEOH, Lot na	1 mL	VMCUS7814_00021	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
.VMCUS7814_00021	01/31/15		Ultra Scientific, Lot CJ-4366		(Purchased Reagent)		1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMRGAS_00002	04/08/14	04/01/13	MEOH, Lot 124454	10 mL	vm567645_00002	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00002	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00001	04/08/13	04/01/13	MEOH, Lot 124454	1 mL	VMRPRIM_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Acrolein	500 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00003	06/30/13	04/01/13	MEOH, Lot 124454	10 mL	VM567641_00002	250 uL	1,1,1,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00002	100 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00002	500 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567644_00002	1 mL	Acrolein	500 ug/mL
					VM567646_00002	125 uL	Vinyl acetate	50 ug/mL
..VM567641_00002	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00002	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00002	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567644_00002	06/30/13		Restek, Lot A093659		(Purchased Reagent)		Acrolein	5000 ug/mL
..VM567646_00002	08/31/13		Restek, Lot A093363		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMSUPPW_00118	03/24/13	03/17/13	MEOH, Lot na	1 mL	VMSUPP_00019	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Vinyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Acrolein	500 ug/mL
							Acrylonitrile	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMSUPP_00019	04/30/13	01/31/13	MEOH, Lot 124454	50 mL	VM30006_00004	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VMCU5013_00009	1 mL	Vinyl acetate	50 ug/mL
					VMCUS8634_00008	1 mL	Acetonitrile	500 ug/mL
							Acrolein	500 ug/mL
							Acrylonitrile	100 ug/mL
					VMEPA1016_00006	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM30006_00004	11/30/13		Restek, Lot A076449		(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
..VMCU5013_00009	05/31/13		Ultra, Lot CK-0277		(Purchased Reagent)		Vinyl acetate	2500 ug/mL
..VMCUS8634_00008	05/31/13		Ultra, Lot CK-0228		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Acrolein	25000 ug/mL
							Acrylonitrile	5000 ug/mL
..VMEPA1016_00006	06/30/14		Ultra, Lot CG-0850A		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
VMSUPPW_00119	04/01/13	03/25/13	MEOH, Lot na	1 mL	VMSUPP_00019	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
.VMSUPP_00019	04/30/13	01/31/13	MEOH, Lot 124454	50 mL	VM30006_00004	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM30006_00004	11/30/13	Restek, Lot A076449			(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
VMSUPPW_00120	04/09/13	04/02/13	MEOH, Lot na	1 mL	VMSUPP_00019	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
.VMSUPP_00019	04/30/13	01/31/13	MEOH, Lot 124454	50 mL	VM30006_00004	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM30006_00004	11/30/13	Restek, Lot A076449			(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CCVHL1_00002	05/01/13	04/10/13	2% Nitric Acid, Lot 12756	50 mL	MCGAL10-1_00004	2.5 mL	Aluminum	500 ppm
					MCGBA1-1_00003	0.75 mL	Barium	15 ppm
					MCGCR(3)1-1_00003	1 mL	Chromium	20 ppm
					MCGCU1-1_00003	1 mL	Copper	20 ppm
					MCGFE10-1_00003	2.5 mL	Iron	500 ppm
					MCGMN1-1_00003	1 mL	Manganese	20 ppm
					MCGNI1-1_00003	0.5 mL	Nickel	10 ppm
					MCGPB1-1_00003	1 mL	Lead	20 ppm
					MCGZN1-1_00003	1 mL	Zinc	20 ppm
.MCGAL10-1_00004	12/01/13	Inorganic Ventures, Lot E2-AL04115			(Purchased Reagent)		Aluminum	10000 ppm
.MCGBA1-1_00003	12/01/13	Inorganic Ventures, Lot D2-BA02066			(Purchased Reagent)		Barium	1000 ppm
.MCGCR(3)1-1_00003	12/01/13	Inorganic Ventures, Lot E2-CR03060			(Purchased Reagent)		Chromium	1000 ppm
.MCGCU1-1_00003	12/01/13	Inorganic Ventures, Lot D2-CU02130			(Purchased Reagent)		Copper	1000 ppm
.MCGFE10-1_00003	06/01/13	Inorganic Ventures, Lot E2-FE03145			(Purchased Reagent)		Iron	10000 ppm
.MCGMN1-1_00003	08/01/13	Inorganic Ventures, Lot E2-MN02093			(Purchased Reagent)		Manganese	1000 ppm
.MCGNI1-1_00003	12/01/13	Inorganic Ventures, Lot D2-NI02074			(Purchased Reagent)		Nickel	1000 ppm
.MCGPB1-1_00003	05/01/13	Inorganic Ventures, Lot F2-PB03035			(Purchased Reagent)		Lead	1000 ppm
.MCGZN1-1_00003	12/01/13	Inorganic Ventures, Lot D2-ZN02075			(Purchased Reagent)		Zinc	1000 ppm
CCVHL2_00002	05/01/13	04/10/13	2% Nitric Acid, Lot 12756	50 mL	MCGCA10-1_00003	5 mL	Calcium	1000 ppm
					MCGK10-1_00003	2.5 mL	Potassium	500 ppm
					MCGMG10-1_00004	5 mL	Magnesium	1000 ppm
					MCGNA10-1_00003	2.5 mL	Sodium	500 ppm
.MCGCA10-1_00003	06/01/13	Inorganic Ventures, Lot F2-CA04043			(Purchased Reagent)		Calcium	10000 ppm
.MCGK10-1_00003	05/01/13	Inorganic Ventures, Lot F2-K03029			(Purchased Reagent)		Potassium	10000 ppm
.MCGMG10-1_00004	12/01/13	Inorganic Ventures, Lot E2-MG03106			(Purchased Reagent)		Magnesium	10000 ppm
.MCGNA10-1_00003	08/01/13	Inorganic Ventures, Lot E2-NA03095			(Purchased Reagent)		Sodium	10000 ppm
MCCV1X_00039	05/01/13	04/01/13	2% Nitric Acid, Lot K35N55	500 mL	MCALSPECAREV_00004	10 mL	Aluminum	0.5 ppm
							Arsenic	0.1 ppm
							Barium	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Calcium	50 ppm
							Chromium	0.1 ppm
							Cobalt	0.1 ppm
							Copper	0.1 ppm
							Iron	25 ppm
							Lead	0.1 ppm
							Magnesium	50 ppm
							Manganese	0.5 ppm
							Nickel	0.1 ppm
							Potassium	50 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Sodium	50 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Thallium	0.1 ppm
							Vanadium	0.1 ppm
							Zinc	0.1 ppm
					MCALSPECB_00005	10 mL	Antimony	0.1 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MCRIX_00029	05/07/13	04/07/13	HNO3, Lot K09N65	250 mL	MMSCRI-1B_00002	1 mL	Aluminum	0.03 ppm
							Arsenic	0.001 ppm
							Barium	0.01 ppm
							Beryllium	0.001 ppm
							Cadmium	0.001 ppm
							Calcium	0.1 ppm
							Chromium	0.002 ppm
							Cobalt	0.0005 ppm
							Copper	0.002 ppm
							Iron	0.05 ppm
							Lead	0.001 ppm
							Magnesium	0.1 ppm
							Manganese	0.005 ppm
							Nickel	0.001 ppm
							Potassium	0.1 ppm
							Selenium	0.005 ppm
							Silver	0.001 ppm
							Sodium	0.1 ppm
							Thallium	0.001 ppm
							Vanadium	0.001 ppm
							Zinc	0.005 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MMSCRI-2_00004	1 mL	Antimony	0.002 ppm
.MMSCRI-1B_00002	10/01/13	Inorganic Ventures, Lot F2-MEB439152			(Purchased Reagent)		Aluminum	7.5 ppm
							Arsenic	0.25 ppm
							Barium	2.5 ppm
							Beryllium	0.25 ppm
							Cadmium	0.25 ppm
							Calcium	25 ppm
							Chromium	0.5 ppm
							Cobalt	0.125 ppm
							Copper	0.5 ppm
							Iron	12.5 ppm
							Lead	0.25 ppm
							Magnesium	25 ppm
							Manganese	1.25 ppm
							Nickel	0.25 ppm
							Potassium	25 ppm
							Selenium	1.25 ppm
							Silver	0.25 ppm
							Sodium	25 ppm
							Thallium	0.25 ppm
							Vanadium	0.25 ppm
							Zinc	1.25 ppm
.MMSCRI-2_00004	10/01/13	Inorganic Ventures, Lot F2-MEB436153			(Purchased Reagent)		Antimony	0.5 ppm
MICSABX_00033	05/07/13	04/07/13	2% Nitric Acid, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
							Ti	2 ppm
					M6020ICS-0B_00004	1 mL	Arsenic	0.02 ppm
							Cadmium	0.02 ppm
							Chromium	0.02 ppm
							Cobalt	0.02 ppm
							Copper	0.02 ppm
							Manganese	0.0225 ppm
							Nickel	0.02 ppm
							Silver	0.02 ppm
							Zinc	0.025 ppm
					MMSICSAB-1_00006	0.2 mL	Barium	0.02 ppm
							Beryllium	0.02 ppm
							Lead	0.02 ppm
							Sr	0.025 ppm
							Thallium	0.02 ppm
							Vanadium	0.02 ppm
					MMSICSAB-2_00005	0.2 mL	Antimony	0.02 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							B	0.05 ppm
							Selenium	0.05 ppm
							Si	0.5 ppm
							Sn	0.1 ppm
.M6020ICS-0A_00003	11/01/13	Inorganic Ventures, Lot F2-MEB418129			(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm
							Ti	20 ppm
.M6020ICS-0B_00004	11/01/13	Inorganic Ventures, Lot F2-MEB415126			(Purchased Reagent)		Arsenic	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Manganese	2.25 ppm
							Nickel	2 ppm
							Silver	2 ppm
							Zinc	2.5 ppm
.MMSICSAB-1_00006	04/01/14	Inorganic Ventures, Lot F2-MEB415033			(Purchased Reagent)		Barium	10 ppm
							Beryllium	10 ppm
							Lead	10 ppm
							Sr	12.5 ppm
							Thallium	10 ppm
							Vanadium	10 ppm
.MMSICSAB-2_00005	04/01/14	Inorganic Ventures, Lot G2-MEB467043			(Purchased Reagent)		Antimony	10 ppm
							B	25 ppm
							Selenium	25 ppm
							Si	250 ppm
							Sn	50 ppm
MICSAX_00029	05/07/13	04/07/13	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
							Ti	2 ppm
.M6020ICS-0A_00003	11/01/13	Inorganic Ventures, Lot F2-MEB418129			(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ti	20 ppm
MICVX_00003	04/17/13	03/17/13	2% Nitric Acid, Lot K09N65	250 mg/L	MICPMSICV_00013	10 mg/L	Aluminum	0.4 mg/L
							Antimony	0.08 mg/L
							Arsenic	0.08 mg/L
							Barium	0.08 mg/L
							Beryllium	0.08 mg/L
							Cadmium	0.08 mg/L
							Calcium	40 mg/L
							Chromium	0.08 mg/L
							Cobalt	0.08 mg/L
							Copper	0.08 mg/L
							Iron	20 mg/L
							Lead	0.08 mg/L
							Magnesium	40 mg/L
							Manganese	0.4 mg/L
							Nickel	0.08 mg/L
							Potassium	40 mg/L
							Selenium	0.08 mg/L
							Silver	0.08 mg/L
							Sodium	40 mg/L
							Thallium	0.08 mg/L
							Vanadium	0.08 mg/L
							Zinc	0.08 mg/L
.MICPMSICV_00013	12/30/13	SPEX CertiPrep, Lot 17-147CR			(Purchased Reagent)		Aluminum	10 ppm
							Antimony	2 ppm
							Arsenic	2 ppm
							Barium	2 ppm
							Beryllium	2 ppm
							Cadmium	2 ppm
							Calcium	1000 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Iron	500 ppm
							Lead	2 ppm
							Magnesium	1000 ppm
							Manganese	10 ppm
							Nickel	2 ppm
							Potassium	1000 ppm
							Selenium	2 ppm
							Silver	2 ppm
							Sodium	1000 ppm
							Thallium	2 ppm
							Vanadium	2 ppm
							Zinc	2 ppm
MSTD2X_00019	05/01/13	04/01/13	DI Water, Lot K35N55	250 mL	MCALSPECAREV_00004	10 mg/L	Aluminum	1 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Arsenic	0.2 ppm
							Barium	0.2 ppm
							Beryllium	0.2 ppm
							Cadmium	0.2 ppm
							Calcium	100 ppm
							Chromium	0.2 ppm
							Cobalt	0.2 ppm
							Copper	0.2 ppm
							Iron	50 ppm
							Lead	0.2 ppm
							Magnesium	100 ppm
							Manganese	1 ppm
							Nickel	0.2 ppm
							Potassium	100 ppm
							Selenium	0.2 ppm
							Silver	0.2 ppm
							Sodium	100 ppm
							Thallium	0.2 ppm
							Vanadium	0.2 ppm
							Zinc	0.2 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
MSTD3X_00020	05/01/13	04/01/13	2% Nitric Acid, Lot K35N55	250 mL	MCALSPECB_00005	10 mg/L	Antimony	0.2 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MTAPITTICPMS_00011	02/01/14	INORGANIC VENTURES, Lot G2-MEB455121			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							Barium	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Iron	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTICPMS_00014	02/01/14	INORGANIC VENTURES, Lot E2-MEB379097			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							B	100 ug/mL
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Iron	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Sr	100 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTMSA_00014	03/01/14	INORGANIC VENTURES, Lot G2-MEB458093			(Purchased Reagent)		Calcium	5000 ug/mL
							Magnesium	5000 ug/mL
							Potassium	5000 ug/mL
							Sodium	5000 ug/mL
MTAPITTMSC_00018	03/01/14	Inorganic Ventures, Lot G2-MEB458094			(Purchased Reagent)		Antimony	50 ug/mL
							Mo	100 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sn	200 ug/mL
							Ti	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP34DNTSU_00012	09/14/13	03/14/13	Acetonitrile, Lot Acetonitrite_00005	50 mL	HP8330SU_00011	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
.HP8330SU_00011	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
HP8330IC_00003	06/10/12	05/01/12	25% 0.1%HOAc in ACN, Lot 4457-41A	100 mL	HP8330TA_00007	0.1 mL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGTA_00011	0.02 mL	Nitroglycerin	200 ng/mL
					HPPETNTA_00006	0.02 mL	PETN	200 ng/mL
.HP8330TA_00007	10/30/12		Cerilliant, Lot ER083011-01		(Purchased Reagent)		1,3,5-Trinitrobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							2,4,6-Trinitrotoluene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Amino-4,6-dinitrotoluene	200 ug/mL
							2-Nitrotoluene	200 ug/mL
							3-Nitrotoluene	200 ug/mL
							4-Amino-2,6-dinitrotoluene	200 ug/mL
							4-Nitrotoluene	200 ug/mL
							HMX	200 ug/mL
							Nitrobenzene	200 ug/mL
							RDX	200 ug/mL
							Tetryl	200 ug/mL
.HPNGTA_00011	10/31/12		Cerilliant, Lot FN052106-01		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPETNTA_00006	10/30/12		Cerilliant, Lot FN102810-02		(Purchased Reagent)		PETN	1000 ug/mL
HP8330IC_00007	05/31/13	06/13/12	25% 0.1%HOAc in ACN, Lot 4457-73G	10 mL	HP8330TA_00010	25 uL	1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPNGTA_00013	50 uL	Nitroglycerin	500 ng/mL
					HPPETNTA_00011	5 uL	PETN	500 ng/mL
.HP8330TA_00010	08/30/16	Cerilliant, Lot ER083011-01			(Purchased Reagent)		1,3,5-Trinitrobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							2,4,6-Trinitrotoluene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Amino-4,6-dinitrotoluene	200 ug/mL
							2-Nitrotoluene	200 ug/mL
							3-Nitrotoluene	200 ug/mL
							4-Amino-2,6-dinitrotoluene	200 ug/mL
							4-Nitrotoluene	200 ug/mL
							HMX	200 ug/mL
							Nitrobenzene	200 ug/mL
							RDX	200 ug/mL
							Tetryl	200 ug/mL
.HPNGTA_00013	03/28/14	Accustandard, Lot 212031351			(Purchased Reagent)		Nitroglycerin	100 ug/mL
.HPPETNTA_00011	05/31/13	Accustandard, Lot 211051150			(Purchased Reagent)		PETN	1000 ug/mL
HP8330ICL_00003	05/11/13	12/11/12	25:75 HOAc/ACN, Lot 4457-69F	50 mL	HP34DNTSU_00008	20 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00011	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00001	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00008	05/15/13	11/15/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00008	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00008	05/15/13	Restek, Lot A087054			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330ICL_00004	05/30/13	04/17/13	25:75 HOAc/ACN, Lot 4457-91F	50 mL	HP34DNTSU_00013	20 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00011	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00006	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00013	09/13/13	04/13/13	Acetonitrile, Lot 0000000516	50 mL	HP8330SU_00012	2.5 mL	3,4-Dinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HP8330SU_00012	03/01/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00006	09/14/13	04/13/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00016	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00015	1.25 mL	PETN	50 ug/mL
..HPNGTA_00016	03/01/17		Restek, Lot A087039		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00015	06/01/17		Restek, Lot A088943		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L1_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	50 mL	HP8330L4_00001	5 mL	3,4-Dinitrotoluene	5 ng/mL
							3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
							Nitroglycerin	5 ng/mL
							2,4,6-Trinitrophenol	10 ng/mL
							PETN	5 ng/mL
.HP8330L4_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	50 mL	HP34DNTSU_00001	0.05 mL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00002	0.05 mL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPNGSP_00001	0.05 mL	Nitroglycerin	50 ng/mL
					HPPASP_00001	0.1 mL	2,4,6-Trinitrophenol	100 ng/mL
					HPPETNSP_00001	0.05 mL	PETN	50 ng/mL
..HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00001	04/30/16	Restek, Lot A081013			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP35DNATA_00001	07/24/12	Restek, Lot A080341			(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
...HP8330TA_00001	07/24/12	Restek, Lot A078069			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
...HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
...HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
..HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
...HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L1_00005	05/04/13	08/29/12	25% 1%HoAC in ACN 75, Lot 4457-51G	50 mL	HP8330L4_00004	5 mL	3,4-Dinitrotoluene	5 ng/mL
							3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
.HP8330L4_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	50 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00011	50 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
..HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
...HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
HP8330L2_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	50 mL	HP34DNTSU_00001	0.01 mL	3,4-Dinitrotoluene	10 ng/mL
					HP8330SP_00002	0.01 mL	3,5-Dinitroaniline	10 ng/mL
							1,3,5-Trinitrobenzene	10 ng/mL
							1,3-Dinitrobenzene	10 ng/mL
							2,4,6-Trinitrotoluene	10 ng/mL
							2,4-Dinitrotoluene	10 ng/mL
							2,6-Dinitrotoluene	10 ng/mL
							2-Amino-4,6-dinitrotoluene	10 ng/mL
							2-Nitrotoluene	10 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitrotoluene	10 ng/mL
							4-Amino-2,6-dinitrotoluene	10 ng/mL
							4-Nitrotoluene	10 ng/mL
							HMX	10 ng/mL
							Nitrobenzene	10 ng/mL
							RDX	10 ng/mL
							Tetryl	10 ng/mL
					HPNGSP_00001	0.01 mL	Nitroglycerin	10 ng/mL
					HPPASP_00001	0.02 mL	2,4,6-Trinitrophenol	20 ng/mL
					HPPETNSP_00001	0.01 mL	PETN	10 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16		Restek, Lot A081013		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00001	07/24/12		Restek, Lot A080341		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12		Restek, Lot A078069		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L2_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	10 uL	3,4-Dinitrotoluene	10 ng/mL
					HP8330SP_00011	10 uL	3,5-Dinitroaniline	10 ng/mL
							1,3,5-Trinitrobenzene	10 ng/mL
							1,3-Dinitrobenzene	10 ng/mL
							2,4,6-Trinitrotoluene	10 ng/mL
							2,4-Dinitrotoluene	10 ng/mL
							2,6-Dinitrotoluene	10 ng/mL
							2-Amino-4,6-dinitrotoluene	10 ng/mL
							2-Nitrotoluene	10 ng/mL
							3-Nitrotoluene	10 ng/mL
							4-Amino-2,6-dinitrotoluene	10 ng/mL
							4-Nitrotoluene	10 ng/mL
							HMX	10 ng/mL
							Nitrobenzene	10 ng/mL
							RDX	10 ng/mL
							Tetryl	10 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
HP8330L3_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	50 mL	HP34DNTSU_00001	0.02 mL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00002	0.02 mL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							2-Nitrotoluene	20 ng/mL
							3-Nitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							4-Nitrotoluene	20 ng/mL
							HMX	20 ng/mL
							Nitrobenzene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPNGSP_00001	0.02 mL	Nitroglycerin	20 ng/mL
					HPPASP_00001	0.05 mL	2,4,6-Trinitrophenol	50 ng/mL
					HPPETNSP_00001	0.02 mL	PETN	20 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16	Restek, Lot A081013			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00001	07/24/12	Restek, Lot A080341			(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12	Restek, Lot A078069			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L3_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	20 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00011	20 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							2-Nitrotoluene	20 ng/mL
							3-Nitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							4-Nitrotoluene	20 ng/mL
							HMX	20 ng/mL
							Nitrobenzene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPEGDNSP_00005	20 uL	Ethylene glycol dinitrate	20 ng/mL
					HPNGPETNSP_00001	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L4_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	50 mL	HP34DNTSU_00001	0.05 mL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00002	0.05 mL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HPNGSP_00001	0.05 mL	Nitroglycerin	50 ng/mL
					HPPASP_00001	0.1 mL	2,4,6-Trinitrophenol	100 ng/mL
					HPPETNSP_00001	0.05 mL	PETN	50 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16		Restek, Lot A081013		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00001	07/24/12		Restek, Lot A080341		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12		Restek, Lot A078069		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L4_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	50 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00011	50 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00005	50 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00001	50 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	500 mL	HP34DNTSU_00001	1 mL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00002	1 mL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPNGSP_00001	1 mL	Nitroglycerin	100 ng/mL
					HPPASP_00001	2 mL	2,4,6-Trinitrophenol	200 ng/mL
					HPPETNSP_00001	1 mL	PETN	100 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16		Restek, Lot A081013		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HP35DNATA_00001	07/24/12		Restek, Lot A080341		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12		Restek, Lot A078069		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00008	05/04/13	01/23/13	25% 1%HoAC in ACN 75, Lot 4457-63F	100 mL	HP34DNTSU_00009	200 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00013	200 uL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNSP_00005	200 uL	Ethylene glycol dinitrate	100 ng/mL
					HPNGPETNSP_00002	200 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00013	07/23/13	01/23/13	Acetonitrile, Lot 732	50 mL	HP35DNATA_00012	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00011	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00012	01/31/17		Restek, Lot A088938		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00011	04/30/16		Restek, Lot A090823		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00002	07/22/13	01/22/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00014	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00012	1.25 mL	PETN	50 ug/mL
..HPNGTA_00014	07/22/13		Restek, Lot A087039		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00012	07/22/13		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00010	05/04/13	03/12/13	25% 1%HoAC in ACN 75, Lot 4457-79F	50 mL	HP8330L6_00008	25 mL	3,4-Dinitrotoluene	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
							Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP8330L6_00008	05/04/13	01/23/13	25% 0.1%HoAC in ACN, Lot 4457-63F	100 mL	HP34DNTSU_00009	400 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00013	400 uL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGPETNSP_00002	400 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL
..HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00009	03/31/17	Restek, Lot A087054			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00013	07/23/13	01/23/13	Acetonitrile, Lot 732	50 mL	HP8330TA_00011	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP8330TA_00011	04/30/16	Restek, Lot A090823			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..HPNGPETNSP_00002	07/22/13	01/22/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00014	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00012	1.25 mL	PETN	50 ug/mL
...HPNGTA_00014	07/22/13		Restek, Lot A087039		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
...HPPETNTA_00012	07/22/13		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00015	05/04/13	04/16/13	25% 1%HoAC in ACN 75, Lot 4457-91G	20 mL	HP8330L6_00008	10 mL	3,4-Dinitrotoluene	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
							Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP8330L6_00008	05/04/13	01/23/13	25% 0.1%HoAC in ACN, Lot 4457-63F	100 mL	HP34DNTSU_00009	400 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00013	400 uL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGPETNSP_00002	400 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00013	07/23/13	01/23/13	Acetonitrile, Lot 732	50 mL	HP8330TA_00011	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP8330TA_00011	04/30/16		Restek, Lot A090823		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..HPNGPETNSP_00002	07/22/13	01/22/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00014	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00012	1.25 mL	PETN	50 ug/mL
...HPNGTA_00014	07/22/13		Restek, Lot A087039		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
...HPPETNTA_00012	07/22/13		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L6_00001	07/20/12	03/06/12	25% 1%HoAC in ACN 75, Lot 4457-17F	100 mL	HP34DNTSU_00001	0.4 mL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00002	0.4 mL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGSP_00001	0.4 mL	Nitroglycerin	200 ng/mL
					HPPASP_00001	1 mL	2,4,6-Trinitrophenol	500 ng/mL
					HPPETNSP_00001	0.4 mL	PETN	200 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16		Restek, Lot A081013		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00001	07/24/12		Restek, Lot A080341		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12		Restek, Lot A078069		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L6_00008	05/04/13	01/23/13	25% 0.1%HoAC in ACN, Lot 4457-63F	100 mL	HP34DNTSU_00009	400 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00013	400 uL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPEGDNSP_00005	400 uL	Ethylene glycol dinitrate	200 ng/mL
					HPNGPETNSP_00002	400 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00013	07/23/13	01/23/13	Acetonitrile, Lot 732	50 mL	HP35DNATA_00012	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00011	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00012	01/31/17		Restek, Lot A088938		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00011	04/30/16		Restek, Lot A090823		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00002	07/22/13	01/22/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00014	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00012	1.25 mL	PETN	50 ug/mL
..HPNGTA_00014	07/22/13		Restek, Lot A087039		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00012	07/22/13		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L7_00001	07/20/12	03/06/12	25% 1%HOAc in ACN 75, Lot 4457-17F	50 mL	HP34DNTSU_00001	0.35 mL	3,4-Dinitrotoluene	350 ng/mL
					HP8330SP_00002	0.5 mL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPNGSP_00001	0.5 mL	Nitroglycerin	500 ng/mL
					HPPASP_00001	1 mL	2,4,6-Trinitrophenol	1000 ng/mL
					HPPETNSP_00001	0.5 mL	PETN	500 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16		Restek, Lot A081013		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00001	07/24/12		Restek, Lot A080341		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12		Restek, Lot A078069		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L7_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	25 mL	HP34DNTSU_00009	150 uL	3,4-Dinitrotoluene	300 ng/mL
					HP8330SP_00011	250 uL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPEGDNSP_00005	250 uL	Ethylene glycol dinitrate	500 ng/mL
					HPNGPETNSP_00001	250 uL	Nitroglycerin	500 ng/mL
							PETN	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L8_00001	07/20/12	03/06/12	25% 0.1%HoAC in ACN, Lot 4457-17F	50 mL	HP34DNTSU_00001	0.5 mL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00002	1 mL	3,5-Dinitroaniline	1000 ng/mL
							1,3,5-Trinitrobenzene	1000 ng/mL
							1,3-Dinitrobenzene	1000 ng/mL
							2,4,6-Trinitrotoluene	1000 ng/mL
							2,4-Dinitrotoluene	1000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ng/mL
							2-Amino-4,6-dinitrotoluene	1000 ng/mL
							2-Nitrotoluene	1000 ng/mL
							3-Nitrotoluene	1000 ng/mL
							4-Amino-2,6-dinitrotoluene	1000 ng/mL
							4-Nitrotoluene	1000 ng/mL
							HMX	1000 ng/mL
							Nitrobenzene	1000 ng/mL
							RDX	1000 ng/mL
							Tetryl	1000 ng/mL
					HPNGSP_00001	1 mL	Nitroglycerin	1000 ng/mL
					HPPASP_00001	2 mL	2,4,6-Trinitrophenol	2000 ng/mL
					HPPETNSP_00001	1 mL	PETN	1000 ng/mL
.HP34DNTSU_00001	07/20/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HP8330SU_00001	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00001	04/30/16		Restek, Lot A081013		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00002	07/24/12	03/05/12	Acetonitrile, Lot K41815	50 mL	HP35DNATA_00001	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00001	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00001	07/24/12		Restek, Lot A080341		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00001	07/24/12		Restek, Lot A078069		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGSP_00001	07/24/12	03/06/12	Methanol, Lot K18E18	50 mL	HPNGTA_00001	2.5 mL	Nitroglycerin	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPNGTA_00001	07/24/12		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00001	07/24/12	03/06/12	Acetonitrile, Lot K41815	50 mL	HPPATA_00004	2.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00004	07/24/12		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
.HPPETNSP_00001	07/24/12	03/06/12	Methanol, Lot K41815	50 mL	HPPETNTA_00007	2.5 mL	PETN	50 ug/mL
..HPPETNTA_00007	07/24/12		Restek, Lot A081240		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L8_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	25 mL	HP34DNTSU_00009	250 uL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00011	500 uL	3,5-Dinitroaniline	1000 ng/mL
							1,3,5-Trinitrobenzene	1000 ng/mL
							1,3-Dinitrobenzene	1000 ng/mL
							2,4,6-Trinitrotoluene	1000 ng/mL
							2,4-Dinitrotoluene	1000 ng/mL
							2,6-Dinitrotoluene	1000 ng/mL
							2-Amino-4,6-dinitrotoluene	1000 ng/mL
							2-Nitrotoluene	1000 ng/mL
							3-Nitrotoluene	1000 ng/mL
							4-Amino-2,6-dinitrotoluene	1000 ng/mL
							4-Nitrotoluene	1000 ng/mL
							HMX	1000 ng/mL
							Nitrobenzene	1000 ng/mL
							RDX	1000 ng/mL
							Tetryl	1000 ng/mL
					HPEGDNSP_00005	500 uL	Ethylene glycol dinitrate	1000 ng/mL
					HPNGPETNSP_00001	500 uL	Nitroglycerin	1000 ng/mL
							PETN	1000 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330SP_00013	07/23/13	01/23/13	Acetonitrile, Lot 732	50 mL	HP35DNATA_00012	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00011	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
.HP35DNATA_00012	01/31/17		Restek, Lot A088938		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.HP8330TA_00011	04/30/16		Restek, Lot A090823		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	1000 ug/mL
HPNCSP_00008	09/13/13	03/14/13	Acetone, Lot Acetone_00009	200 mL	HPNCTA_00004	0.1012 g	Nitrocellulose	506 ug/mL
.HPNCTA_00004	01/01/15	Theater Affects, Lot 031912			(Purchased Reagent)		Nitrocellulose	1 g/g
HPNGPETNSP_00004	09/14/13	03/14/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00015	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00013	1.25 mL	PETN	50 ug/mL
.HPNGTA_00015	03/01/17	Restek, Lot A087039			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPETNTA_00013	11/01/16	Restek, Lot A085138			(Purchased Reagent)		PETN	1000 ug/mL
HPNQ2xMDL_00004	10/05/13	04/05/13	DI Water, Lot m04032013	4 mL	HPNQL2_00004	1 mL	Nitroguanidine	5 ng/mL
.HPNQL2_00004	10/05/13	04/05/13	Water, Lot M10152012	50 mL	HPNQSP_00008	20 uL	Nitroguanidine	20 ng/mL
..HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
...HPNQTA_00003	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQIC_00002	12/12/12	06/12/12	Water, Lot NA	50 mL	HPNQTA_00009	0.1 mL	Nitroguanidine	200 ng/mL
.HPNQTA_00009	12/12/12	AccuStandard, Inc, Lot 211111014			(Purchased Reagent)		Nitroguanidine	100 ug/mL
HPNQIC_00003	06/26/13	12/26/12	Water, Lot NA	50 mL	HPNQTA_00010	100 uL	Nitroguanidine	200 ng/mL
.HPNQTA_00010	06/26/13	AccuStandard, Inc, Lot 211111014			(Purchased Reagent)		Nitroguanidine	100 ug/mL
HPNQL2_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	20 uL	Nitroguanidine	20 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL2_00004	10/05/13	04/05/13	Water, Lot M10152012	50 mL	HPNQSP_00008	20 uL	Nitroguanidine	20 ng/mL
.HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00003	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL3_00003	04/15/13	10/12/12	Water, Lot M10152012	50 mL	HPNQSP_00006	50 uL	Nitroguanidine	50 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL3_00004	10/05/13	04/05/13	Water, Lot M04032103	50 mL	HPNQSP_00008	50 uL	Nitroguanidine	50 ng/mL
.HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00003	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL4_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	100 uL	Nitroguanidine	100 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL4_00004	10/05/13	04/05/13	Water, Lot M04032103	50 mL	HPNQSP_00008	100 uL	Nitroguanidine	100 ng/mL
.HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00003	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL5_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	200 uL	Nitroguanidine	200 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL5_00004	10/05/13	04/05/13	Water, Lot M04032103	50 mL	HPNQSP_00008	200 uL	Nitroguanidine	200 ng/mL
.HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00003	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL6_00003	04/15/13	10/16/12	Water, Lot M10152012	25 mL	HPNQSP_00006	250 uL	Nitroguanidine	500 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPNQTA_00002	04/15/13		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL6_00004	10/05/13	04/05/13	Water, Lot M04032103	25 mL	HPNQSP_00008	250 uL	Nitroguanidine	500 ng/mL
.HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00003	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL7_00003	04/15/13	10/16/12	Water, Lot M10152012	25 mL	HPNQSP_00006	500 uL	Nitroguanidine	1000 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL7_00004	10/05/13	04/05/13	Water, Lot M04032103	25 mL	HPNQSP_00008	500 uL	Nitroguanidine	1000 ng/mL
.HPNQSP_00008	10/05/13	04/05/13	Methanol, Lot K18E18	25 mL	HPNQTA_00003	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00003	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
.HPNQTA_00002	04/15/13		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
WC-353.2-ICV_00021	04/19/13	04/02/13	DI Water, Lot xxxxxxx	100 mL	WC-N02-1000_00016	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.403 mg/L as N
					WC-N03-1000_00006	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.403 mg/L as N
.WC-N02-1000_00016	08/14/13		CPI International, Lot 12B200		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N
.WC-N03-1000_00006	08/14/13		RICCA, Lot 1204143		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N
WC-353.2-L1_00020	04/19/13	04/02/13	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00020	0.05 mL	Nitrocellulose	0.42015 mg/L as N
.WC-353.2-INT_00020	04/19/13	04/02/13	DI Water, Lot xxxxxxx	10 mL	WC-N02-1000_00017	0.5 mL	Nitrocellulose	840.3 mg/L as N
					WC-N03-1000_00007	0.5 mL	Nitrocellulose	840.3 mg/L as N
..WC-N02-1000_00017	11/09/13		ERA, Lot 210912		(Purchased Reagent)		Nitrocellulose	8403 mg/L as N
..WC-N03-1000_00007	04/19/13		ERA, Lot 2040212		(Purchased Reagent)		Nitrocellulose	8403 mg/L as N
WC-353.2-L4_00015	04/19/13	04/02/13	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00020	1 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.403 mg/L as N
.WC-353.2-INT_00020	04/19/13	04/02/13	DI Water, Lot xxxxxxx	10 mL	WC-N02-1000_00017	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	840.3 mg/L as N
					WC-N03-1000_00007	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	840.3 mg/L as N
..WC-N02-1000_00017	11/09/13		ERA, Lot 210912		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrocellulose	8403 mg/L as N
..WC-N03-1000_00007	04/19/13		ERA, Lot 2040212		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

rec'd SG 8-24-12

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**10 33-1**	Material Purity:	99.9998%
Lot Number:	**1221902**	Matrix:	5% (v/v) HNO_3

Certified Value: 10.0 µg/mL ± 0.1 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 mega ohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the NBS 602 method.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date: August 6, 2012
Shipped Date: AUG 2 0 2012
Expiration Date: AUG 2 0 2013
Certificate Issue Date: August 7, 2012

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Certificate of Analysis

Rec. 3-18-13 DE

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**10 33-1**	Material Purity:	99.9998%
Lot Number:	**1306402**	Matrix:	5% (v/v) HNO_3

Certified Value: 10.0 µg/mL ± 0.1 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 mega ohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
   The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
b. **Volumetric Device**
   The calibration of volumetric vessels is checked annually using the NBS 602 method.
c. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
d. **Calibration Standards:**
   The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**March 5, 2013**
Shipped Date:	**March 14, 2013**
Expiration Date:	**March 14, 2013**
Certificate Issue Date:	**March 7, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

PLASMA-PURE ™

Standard Certificate

Catalog Number: 610-0000 **Lot Number:** 1287101

Starting Material: 99.9999% purity Hg metal **Diluent/Matrix:** 2% HCl

Preparation Date: Mar-13 **Expiration Date:** Mar-14

Element	Concentration
Hg	1.00 ± 0.02 µg/ml

Received 3/8/2013
ADS

Residual Impurities *	Concentration
None Detected	

* **Impurities were determined via ICP Emission Spectroscopy. Only elements detected are reported.**

Traceability

1. **This standard is certified using wet chemistry assay procedures and/or plasma emission spectroscopy, traceable to primary or well-characterized secondary standards. Traceable to:** NIST SRM 3133, Hg Lot#991304
2. **Analytical balances are routinely calibrated using NIST weight sets.**

Certification

Leeman Labs, Inc. certifies that PLASMA-PURE Standards have been formulated to the concentrations listed above (±0.5% of reported value). This certification does not apply and will be considered null and void if PLASMA-PURE Standards are used in a manner or in an environment not consistent with their intended purpose or are modified by the Customer in any manner.

Limitations

THE ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MECHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitation of Liability

In no event shall Leeman Labs, Inc. be liable for any indirect, incidental, special, or consequential damages, including loss of profits, revenue, or used incurred by Customer or any third party, whether in an action in contract or tort. Leeman Labs Inc's liability for damages hereunder shall in no event exceed the amounts paid for the PLASMA-PURE Standards.

QC Analyst:

Date: March 5, 2013

ISO 9001:2000 QUALITY

TELEDYNE *Leeman Labs*
A Teledyne Technologies Company
6 Wentworth Drive . Hudson, NH 03051
Tel: 603.886.8400 Fax: 603.886.9141

Printed on recycled paper

Certificate of Analysis

Aroclor 1016 Solution

Product Number: PP-281 **Page:** 1 of 1

Lot Number: CF-0785 **Lot Issue Date:** 26-Feb-2009 **Expiration Date:** 31-Mar-2017

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	F216A	100.3 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

Aroclor 1221 Solution

Product Number: PP-291 **Page:** 1 of 1

Lot Number: CB-1791Z **Lot Issue Date:** 01-Nov-2011 **Expiration Date:** 31-Dec-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1221	011104-28-2	AM-24	100.4 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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Analytical Solutions

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Aroclor 1232 Solution

Product Number: PP-301 **Page:** 1 of 1

Lot Number: CG-3213 **Lot Issue Date:** Sep-2010 **Expiration Date:** Oct-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.3 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

Received 2/28/12

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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www.ultrasci.com

William J. Leahy
Quality Assurance Manager

Certificate of Analysis

Aroclor 1242 Solution

Product Number: PP-311 **Page:** 1 of 1

Lot Number: CH-2711 **Lot Issue Date:** 25-Aug-2011 **Expiration Date:** 30-Sep-2019

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

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Aroclor 1248 Solution

Product Number: PP-341 **Page:** 1 of 1

Lot Number: CH-3256 **Lot Issue Date:** 27-Oct-2011 **Expiration Date:** 30-Nov-2019

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1248	012672-29-6	NT01718	100.5 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

RECEIVED 2/28/12

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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Certificate of Analysis

Aroclor 1254 Solution

Product Number: PP-351 **Page:** 1 of 1

Lot Number: CH-3706 **Lot Issue Date:** 28-Nov-2011 **Expiration Date:** 31-Dec-2019

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.3 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

RECEIVED 2/28/12

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

Aroclor 1260 Solution

Product Number: PP-361 **Page:** 1 of 1

Lot Number: CG-3829 **Lot Issue Date:** 04-Nov-2010 **Expiration Date:** 31-Dec-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1260	011096-82-5	NT01023	100.5 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
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ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

RESTEK

TVIMS Received 12/13/11

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32039 **Lot No.:** A082781

Description : Aroclor® 1016/1260 Mix

PCB Mix, Aroclor 1016/1260, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] August 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Aroclor 1016	12674-11-2	----%	1,000.0 ug/mL	+/- 5.8275 ug/mL
2	Aroclor 1260	11096-82-5	----%	1,000.0 ug/mL	+/- 5.8275 ug/mL
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

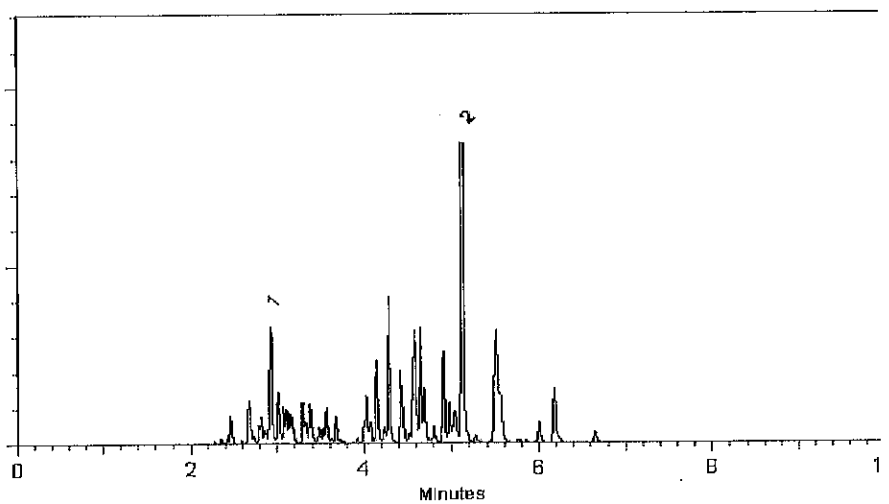
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32009 **Lot No.:** A080551

Description : Aroclor® 1242 Standard

PCB Mix, Aroclor 1242, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] April 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	% Grav.Uncert. (95% C.L.; K=2) [4]
1	Aroclor 1242	53469-21-9	----%	1,000.0 ug/ml	+/-0.58 %
Solvent:	Hexane	110-54-3	99%		

1 vial

RECEIVED 11/12/12 CSH

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

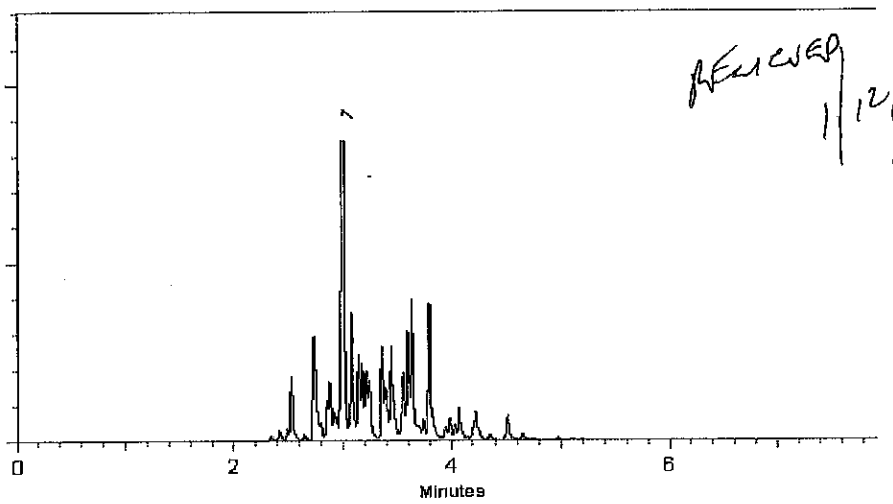
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Received 1/12/12
1 vial
L9F

Catalog No. : 32010 **Lot No.:** A082482

Description : Aroclor® 1248 Standard

PCB Mix, Aroclor 1248, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5,1] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : July 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Aroclor 1248	12672-29-6	----%	1,000.0 ug/mL	+/- 5.9 ug/mL
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

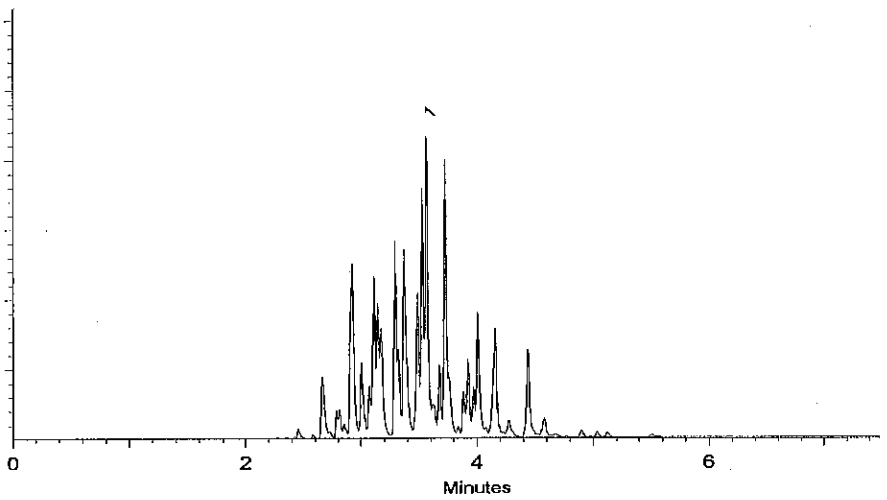
Carrier Gas:
hellium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



RESTEK

Certificate of Analysis

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32007 **Lot No.:** A074947

Description : Aroclor® 1221 Standard

Expiration Date[1]**:** June 2017 **Storage:** Room Temperature

Handling: Contains PCB's. Warm & Sonicate Prior to Use

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1221	11104-28-2	----%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLPesticides (cat.# 11323)

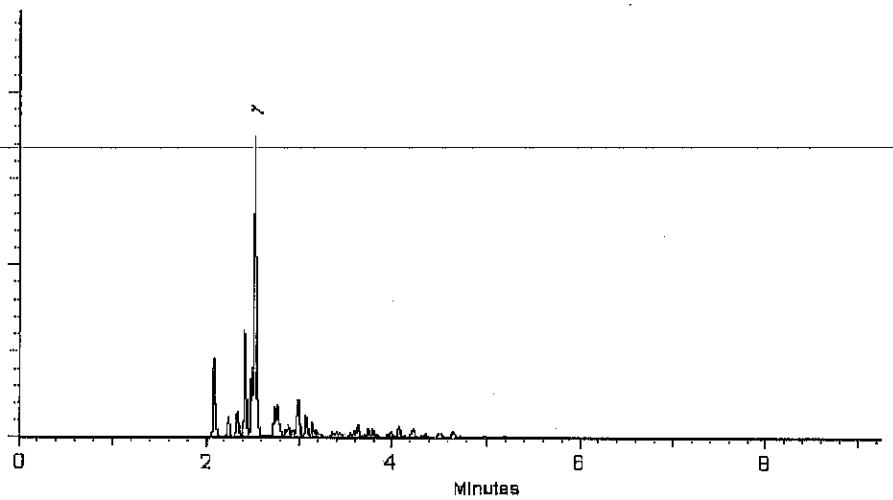
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst **Date Passed:** 24-May-2010 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Received 2 vials
E
7/27/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: VGINTSTD_00001

		Expiration Date:	10/08/2011
Description:	INTERNAL STANDARD	Laboratory:	TestAmerica North Canton
No. of Bottles:	2	Prepared By:	Bolgrin, Deborah
Storage Location:	F022	Solvent:	MEOH
Reagent Volume:	50.000 mL	Solvent Lot:	50349
Creation Date:	04/08/2011		
Container(s):	12414, 12415		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
Fluorobenzene	VGISSTOCK_00001	12/31/2012	2000.000	ug/mL	50.00000	ug/mL

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
VGISSTOCK_00001	IS FLOROBENZENE	ASTD	12/31/12	ULTRA SCIENTIFIC	CE-4128	STS-160	1.2500	mL

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32011 **Lot No.:** A076437

Description : Aroclor® 1254 Standard

Expiration Date[1]**:** September 2017 **Storage:** Room Temperature

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1254	11097-69-1	----%	1,001.600 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

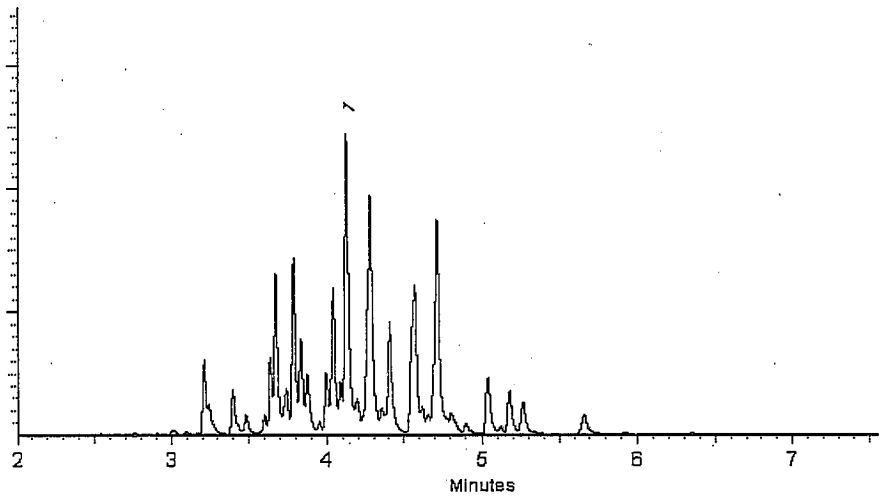
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst **Date Passed:** 23-Aug-2010 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Received 2 units 3/23/11

Certificate of Analysis

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

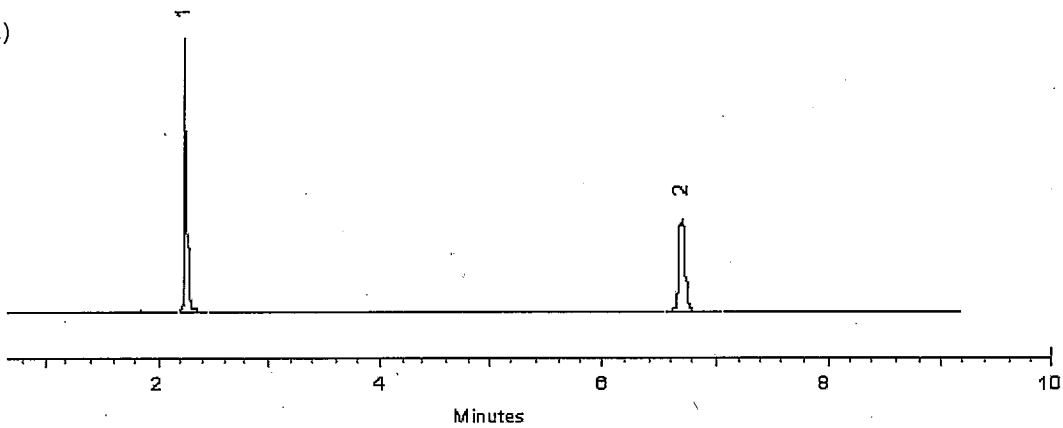
FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32000 **Lot No.:** A057014
Description : Pesticide Surrogate Mix
Expiration Date[1]**:** June 2015 **Storage:** Refrigerate
Handling: Warm & Sonicate prior to use

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	Percent Uncertainty [4]
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	98%	200.018 ug/ml	+/-0.03 %
2	Decachlorobiphenyl	2051-24-3	99%	200.000 ug/ml	+/-0.03 %
Solvent:	Acetone	67-64-1	99%		

LEC 7/13/08
LOT

Column: 30m x .32mm x .25um
Rtx-CLPesticides II
Carrier Gas: helium @ 40cm/sec.
Temp. Program: 200°C to 300°C
@ 15°C/min. (hold 12 min.)
Inj. Temp: 250°C
Det. Temp: 300°C
Det. Type: ECD



Sara Eyster QA Analyst

Balance 1128342313

1 Expiration date of the unopened ampul stored at recommended temperature.
2 Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest LOWER whole percentage. In addition to detectors listed above, chemical identity and purity are confirmed using 1 or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
3 Based upon gravimetric preperation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Percent Uncertainty based upon balance AND ASTM Class A volumetric glassware accuracy.

ISO 9001 REGISTERED
Manufactured under Restek's ISO 9001 Registered Quality System
Certificate #FM80397

Tech Tip:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Rcvd 12-8-11 Recd 3 vials

RESTEK

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 32291 **Lot No.:** A076528

Description : Organochlorine Pesticide Mix AB #1

Expiration Date[1]**:** August 2014 **Storage:** Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	alpha-BHC	319-84-6	99%	200.000 ug/ml	+/-0.59 %
2	gamma-BHC (Lindane)	58-89-9	99%	200.200 ug/ml	+/-0.59 %
3	beta-BHC	319-85-7	99%	200.000 ug/ml	+/-0.59 %
4	delta-BHC	319-86-8	99%	200.000 ug/ml	+/-0.59 %
5	Heptachlor	76-44-8	99%	200.000 ug/ml	+/-0.59 %
6	Aldrin	309-00-2	99%	200.000 ug/ml	+/-0.59 %
7	Heptachlor epoxide (isomer B)	1024-57-3	99%	200.000 ug/ml	+/-0.59 %
8	trans-Chlordane	5103-74-2	99%	200.000 ug/ml	+/-0.59 %
9	cis-Chlordane	5103-71-9	97%	200.014 ug/ml	+/-0.59 %
10	4,4'-DDE	72-55-9	99%	200.200 ug/ml	+/-0.59 %
11	Endosulfan I	959-98-8	99%	200.000 ug/ml	+/-0.59 %
12	Dieldrin	60-57-1	99%	200.200 ug/ml	+/-0.59 %
13	Endrin	72-20-8	97%	200.208 ug/ml	+/-0.59 %
14	4,4'-DDD	72-54-8	97%	200.014 ug/ml	+/-0.59 %
15	Endosulfan II	33213-65-9	99%	200.000 ug/ml	+/-0.59 %
16	4,4'-DDT	50-29-3	99%	200.000 ug/ml	+/-0.59 %
17	Endrin aldehyde	7421-93-4	98%	200.116 ug/ml	+/-0.59 %
18	Methoxychlor	72-43-5	99%	200.000 ug/ml	+/-0.59 %
19	Endosulfan sulfate	1031-07-8	99%	200.000 ug/ml	+/-0.59 %
20	Endrin ketone	53494-70-5	95%	200.260 ug/ml	+/-0.59 %
Solvent:	Hexane/Toluene (50:50)	110-54-3/108-88-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

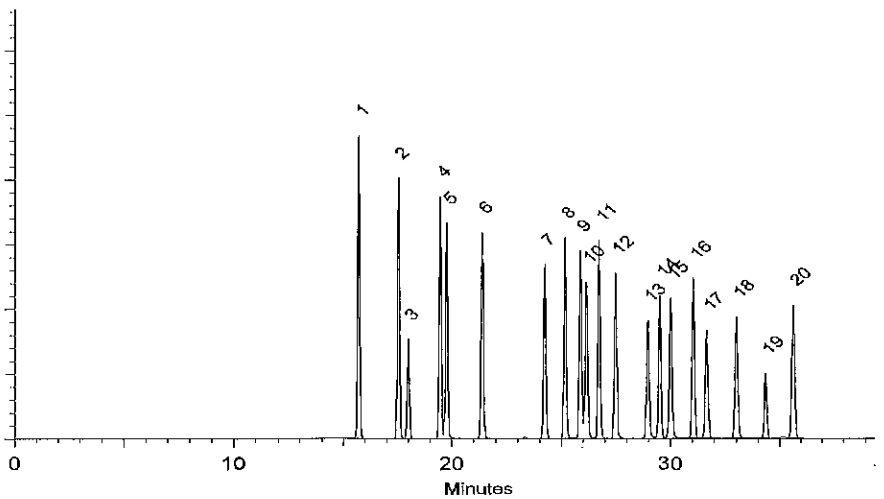
Carrier Gas:
hellium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 1 of 2

Lot Number: CJ-3745 **Lot Issue Date:** 18-Oct-2012 **Expiration Date:** 30-Nov-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
aldrin	000309-00-2	RM00635	1005 ± 5 µg/mL
alpha-BHC	000319-84-6	RM02725	1005 ± 5 µg/mL
beta-BHC	000319-85-7	RM02724	1004 ± 5 µg/mL
delta-BHC	000319-86-8	RM02723	1002 ± 5 µg/mL
gamma-BHC	000058-89-9	RM02694	1003 ± 5 µg/mL
alpha-chlordane	005103-71-9	RM02742	1002 ± 5 µg/mL
gamma-chlordane	005103-74-2	RM02726	1005 ± 5 µg/mL
4,4'-DDD	000072-54-8	RM00615	1003 ± 5 µg/mL
4,4'-DDE	000072-55-9	RM02892	1004 ± 5 µg/mL
4,4'-DDT	000050-29-3	RM02881	1004 ± 5 µg/mL
dieldrin	000060-57-1	RM03957	1004 ± 5 µg/mL
endosulfan I	000959-98-8	RM00834	1004 ± 5 µg/mL
endosulfan II	033213-65-9	RM02905	1004 ± 5 µg/mL
endosulfan sulfate	001031-07-8	NT00714	1004 ± 5 µg/mL
endrin	000072-20-8	RM00557	1003 ± 5 µg/mL
endrin aldehyde	007421-93-4	RM04131	1004 ± 5 µg/mL
endrin ketone	053494-70-5	RM00212	1005 ± 5 µg/mL
heptachlor	000076-44-8	RM03111	1004 ± 5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM05373	1002 ± 5 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

Recd 12/19/12

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 2 of 2

Lot Number: CJ-3745 **Lot Issue Date:** 18-Oct-2012 **Expiration Date:** 30-Nov-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

methoxychlor	000072-43-5	RM04555	1005 ± 5 µg/mL

Matrix: hexane/toluene (1:1)

Storage: Store at Room Temperature (18-25°C). Do Not Refrigerate.

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1069

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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ACCREDITED
Reference Material Producer
Certificate #3222.01

ACCREDITED
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 7-24-12 2 vials

Catalog No. : 32074 **Lot No.:** A085642

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 877-09-8		+/- 0.0770	ug/mL	Unstressed
	Purity 98%		+/- 0.1256	ug/mL	Stressed
2	alpha-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-84-6		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
3	gamma-BHC (Lindane)	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
4	beta-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-85-7		+/- 0.0385	ug/mL	Unstressed
	Purity 98%		+/- 0.0628	ug/mL	Stressed
5	Endrin	5.0 ug/mL	+/- 0.0808	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.1917	ug/mL	Unstressed
	Purity 99%		+/- 0.3135	ug/mL	Stressed
6	4,4'-DDT	10.0 ug/mL	+/- 0.1615	ug/mL	Gravimetric
	CAS # 50-29-3		+/- 0.3834	ug/mL	Unstressed
	Purity 99%		+/- 0.6269	ug/mL	Stressed
7	Methoxychlor	25.0 ug/mL	+/- 0.4032	ug/mL	Gravimetric
	CAS # 72-43-5		+/- 0.9583	ug/mL	Unstressed
	Purity 99%		+/- 1.5672	ug/mL	Stressed
8	Decachlorobiphenyl	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 2051-24-3		+/- 0.0771	ug/mL	Unstressed
	Purity 99%		+/- 0.1256	ug/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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Tel: (800)356-1688
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www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Rec'd 12-8-11 3 vials

Catalog No. : 32000 **Lot No.:** A084532

Description : Pesticide Surrogate Mix

Pesticide Mix, EPA 8080, 8081, Surrogate Std 200µg/ml, Acetone, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] April 2019 **Storage:** 10°C or colder

Handling: This product contains PCBs.

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	98%	200.0 ug/mL	+/- 1.1656 ug/mL
2	Decachlorobiphenyl	2051-24-3	99%	200.0 ug/mL	+/- 1.1655 ug/mL
Solvent:	Acetone	67-64-1	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

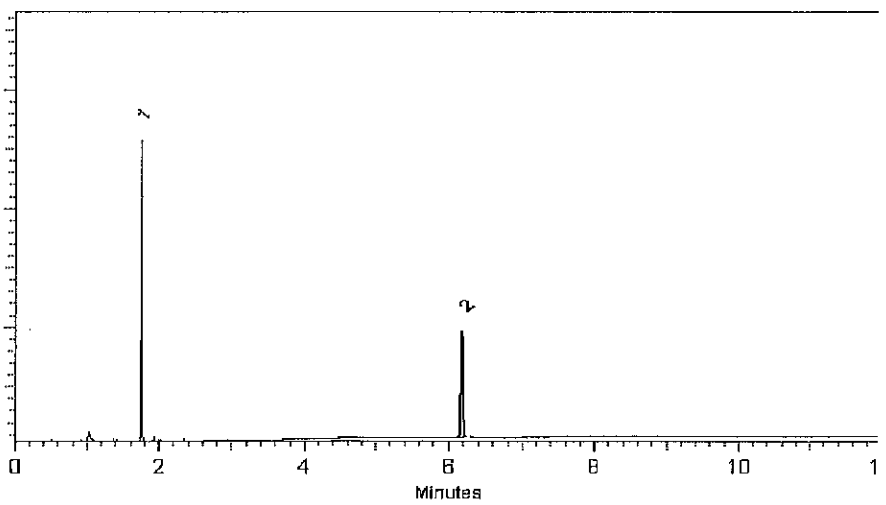
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Rec'd 12-8-11. 2 vials

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32005 **Lot No.:** A080394

Description : Toxaphene Standard

Pesticide Mix, toxaphene, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] June 2015 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	% Grav.Uncert. (95% C.L.; K=2) [4]
1	Toxaphene	8001-35-2	99%	1,000.0 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

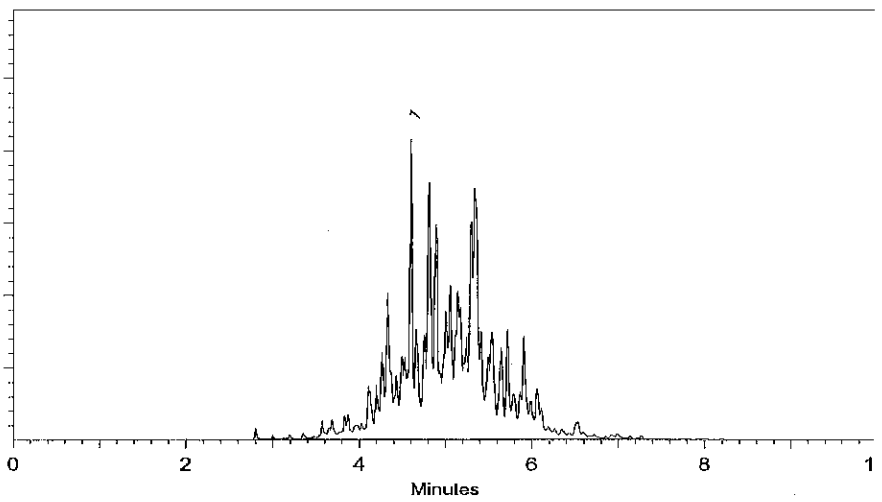
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Certificate of Analysis

DESCRIPTION: Toxaphene

Rec'd 1-14-13 1vial

CATALOG NO.: 48103 MFG DATE: Dec-2012

LOT NO.: LB96954 EXPIRATION DATE: Dec-2015

SOLVENT: ISOOCTANE

ANALYTE	CAS NUMBER	PERCENT PURITY(1)	WEIGHT(2) CONCENTRATION	ANALYTICAL(3) CONCENTRATION	STD DEV	SUPELCO LOT NO
TOXAPHENE	8001-35-2	N/A (a)	1000	1010	+/- 18.6	LA47407

(1) Determined by capillary GC-FID, unless otherwise noted.
a) Complex mix - Can't Determine

(2) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(3) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

SUPELCO
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Phone (814) 359-3441

SMIS R_00002

RESTEK

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Certificate #3222.01

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A093676

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
2	Naphthalene-d8	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1146-65-2		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
3	Acenaphthene-d10	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 15067-26-2		+/- 92.7163	µg/mL	Unstressed
	Purity 97%		+/- 101.3771	µg/mL	Stressed
4	Phenanthrene-d10	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1517-22-2		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
5	Chrysene-d12	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 1719-03-5		+/- 92.7150	µg/mL	Unstressed
	Purity 98%		+/- 101.3758	µg/mL	Stressed
6	Perylene-d12	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1520-96-3		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

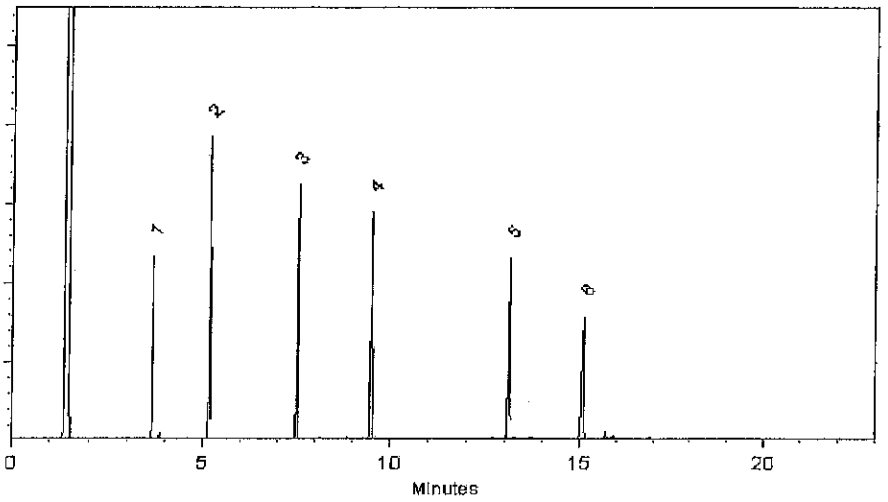
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SMLIST1 51 00002

RESTEK

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Certificate #3232.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567672 **Lot No.:** A093709

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
5	Phenol **CAS #** 108-95-2 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
6	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
7	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
8	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed

10	1,2-Dichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
11	Benzyl alcohol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-51-6			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
12	Bis(2-chloroisopropyl)ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-60-1 2,2'-oxybis(1-chloropropane)			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
13	2-Methylphenol (o-cresol)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-48-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
14	Acetophenone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-86-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
15	Hexachloroethane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 67-72-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 621-64-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
17	4-Methylphenol (p-cresol)	500.0	µg/mL	+/-	2.9070	µg/mL	Gravimetric
	CAS # 106-44-5			+/-	4.3978	µg/mL	Unstressed
	Purity 99%			+/-	8.6943	µg/mL	Stressed
18	3-Methylphenol (m-cresol)	500.0	µg/mL	+/-	2.9070	µg/mL	Gravimetric
	CAS # 108-39-4			+/-	4.3978	µg/mL	Unstressed
	Purity 99%			+/-	8.6943	µg/mL	Stressed
19	n-Decane (C10)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 124-18-5			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
20	n-Octadecane (C18)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 593-45-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
21	Nitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-95-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
22	Isophorone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 78-59-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
23	2-Nitrophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
24	2,4-Dimethylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 105-67-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
25	Bis(2-chloroethoxy)methane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 111-91-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
26	2,4-Dichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
27	1,2,4-Trichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
28	Naphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 106-47-8			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	8.7956	µg/mL	Unstressed
	Purity 97%			+/-	17.3886	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6			+/-	8.7957	µg/mL	Unstressed
	Purity 96%			+/-	17.3887	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-06-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 208-96-8			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0			+/-	8.7956	µg/mL	Unstressed
	Purity 97%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2			+/-	8.7956	µg/mL	Unstressed
	Purity 97%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

48	Dibenzofuran	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 132-64-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
49	2,4-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 121-14-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
50	4-Nitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-02-7			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 58-90-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
52	Fluorene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 86-73-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 7005-72-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
54	Diethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-66-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
55	4-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-01-6			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
56	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 534-52-1			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
57	Azobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 103-33-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
58	4-Bromophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 101-55-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
59	Hexachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 118-74-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
60	Pentachlorophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-86-5			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
61	Phenanthrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 85-01-8			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
62	Anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
63	n-Hexadecane (C16)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 544-76-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
64	Carbazole	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 86-74-8			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
65	Di-n-butylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
66	Fluoranthene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 206-44-0			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed

67	Pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 129-00-0			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
68	Benzyl butyl phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 85-68-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
69	Benz(a)anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 56-55-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
70	Chrysene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 218-01-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 117-81-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
72	Di-n-octyl phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 117-84-0			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
73	Benzo(b)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 205-99-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
74	Benzo(k)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 207-08-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
75	Benzo(a)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 50-32-8			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
76	Indeno(1,2,3-cd)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 193-39-5			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
77	Dibenz(a,h)anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 53-70-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
78	Benzo(g,h,i)perylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567673 **Lot No.:** A093755

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9		+/- 17.5914	µg/mL	Unstressed
	Purity 98%		+/- 34.7774	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

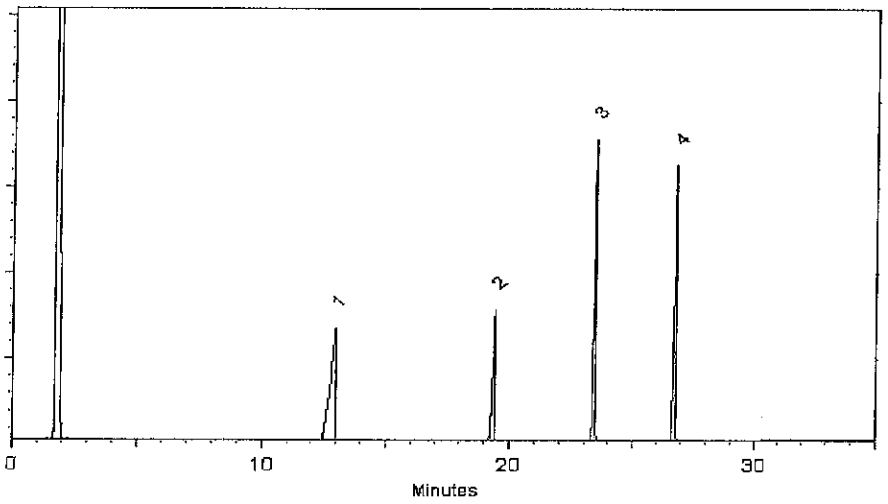
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 Balance: 1128360905

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567674 **Lot No.:** A093441

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 65-85-0		+/- 96.5249	µg/mL	Unstressed
	Purity 99%		+/- 96.6077	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

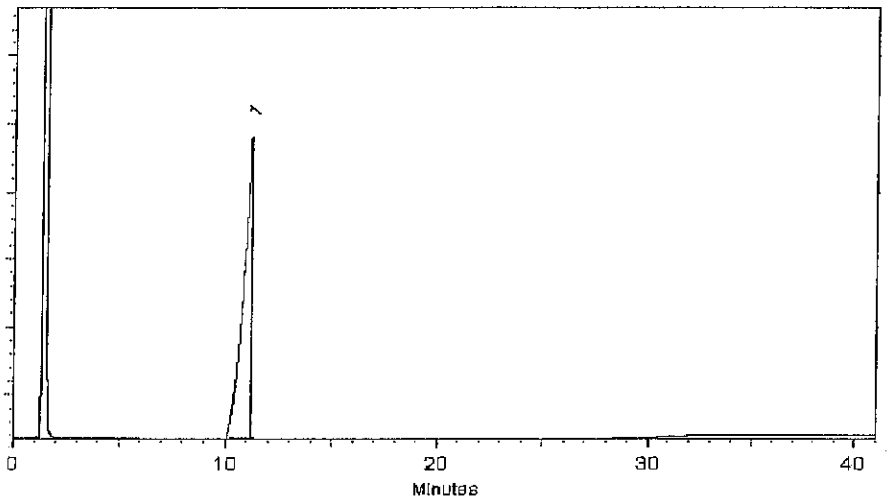
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567675 **Lot No.:** A093730

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

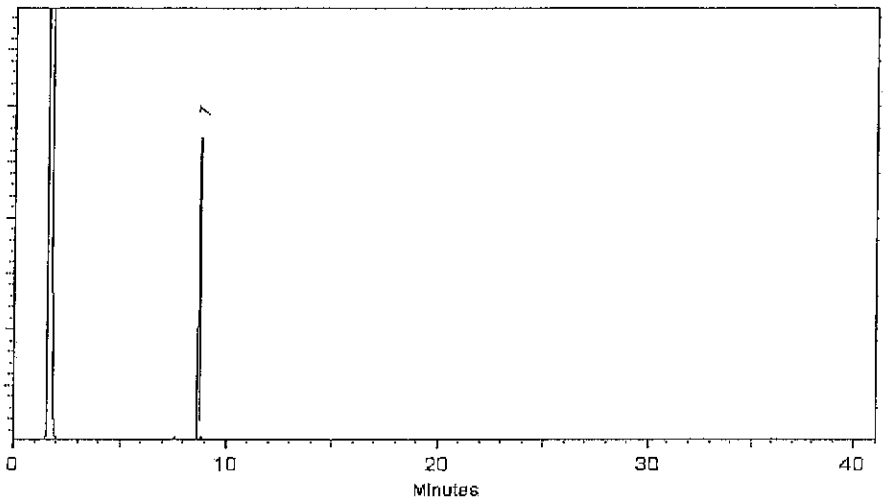
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914	µg/mL	Unstressed
	Purity 97%		+/- 34.7774	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

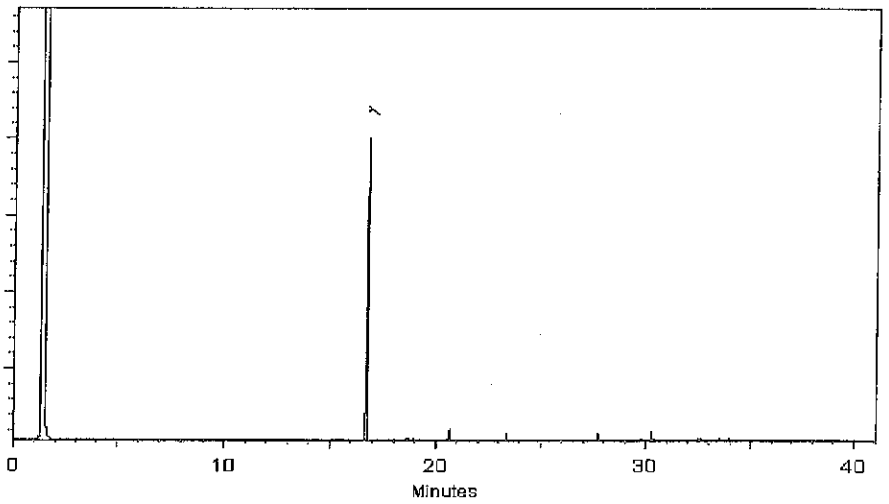
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SMLIST1 56-00002

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

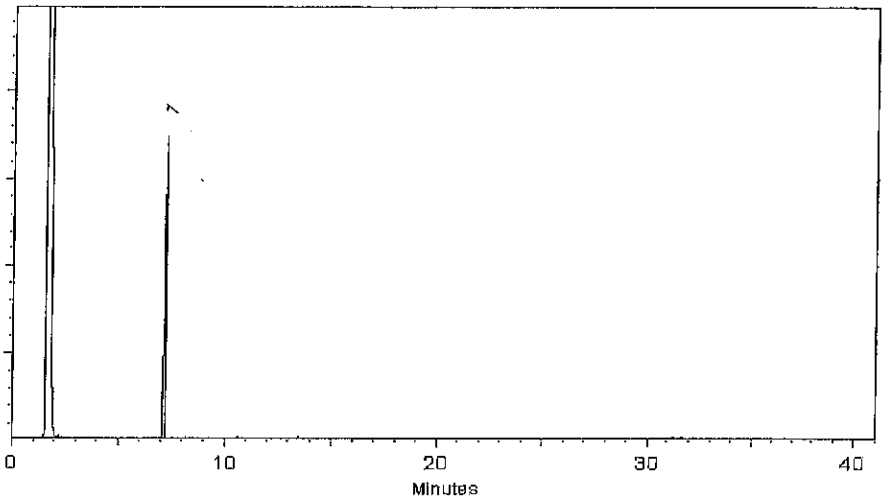
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567672.sec **Lot No.:** A094002

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 2014 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 123-91-1.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
2	Pyridine	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 110-86-1.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
3	N-Nitrosodimethylamine	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 62-75-9.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
4	Aniline	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 62-53-3.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
5	Phenol	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 108-95-2.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 111-44-4.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
7	2-Chlorophenol	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 95-57-8.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
8	1,3-Dichlorobenzene	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 541-73-1.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
9	1,4-Dichlorobenzene	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 106-46-7.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed

10	1,2-Dichlorobenzene **CAS #** 95-50-1.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Benzyl alcohol **CAS #** 100-51-6.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Bis(2-chloroisopropyl)ether **CAS #** 108-60-1.SEC **Purity** 72%	720.0	µg/mL	+/- +/- +/-	4.1861 6.3329 12.5198	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	2-Methylphenol (o-cresol) **CAS #** 95-48-7.SEC **Purity** 98%	1,000.0	µg/mL	+/- +/- +/-	5.8140 8.7956 17.3885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Acetophenone **CAS #** 98-86-2.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Hexachloroethane **CAS #** 67-72-1.SEC **Purity** 98%	1,000.0	µg/mL	+/- +/- +/-	5.8140 8.7956 17.3885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	N-Nitroso-di-n-propylamine **CAS #** 621-64-7.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	4-Methylphenol (p-cresol) **CAS #** 106-44-5.SEC **Purity** 99%	500.0	µg/mL	+/- +/- +/-	2.9138 4.4023 8.6966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	3-Methylphenol (m-cresol) **CAS #** 108-39-4.SEC **Purity** 99%	500.0	µg/mL	+/- +/- +/-	2.9138 4.4023 8.6966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Decane (C10) **CAS #** 124-18-5.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Octadecane (C18) **CAS #** 593-45-3.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Nitrobenzene **CAS #** 98-95-3.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Isophorone **CAS #** 78-59-1.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	2-Nitrophenol **CAS #** 88-75-5.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
24	2,4-Dimethylphenol **CAS #** 105-67-9.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	2,4-Dichlorophenol **CAS #** 120-83-2.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,2,4-Trichlorobenzene **CAS #** 120-82-1.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Naphthalene **CAS #** 91-20-3.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-47-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 88-06-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 208-96-8.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

48	Dibenzofuran	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 132-64-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
49	2,4-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 121-14-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
50	4-Nitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-02-7.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 58-90-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
52	Fluorene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 86-73-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
54	Diethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-66-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
55	4-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-01-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
56	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 534-52-1.SEC			+/-	17.5912	µg/mL	Unstressed
	Purity 98%			+/-	34.7769	µg/mL	Stressed
57	Azobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 103-33-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
58	4-Bromophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 101-55-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
59	Hexachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 118-74-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
60	Pentachlorophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-86-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
61	Phenanthrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 85-01-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
62	Anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
63	n-Hexadecane (C16)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 544-76-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
64	Carbazole	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 86-74-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
65	Di-n-butylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
66	Fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 206-44-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

67	Pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 129-00-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
68	Benzyl butyl phthalate	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 85-68-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
69	Benz(a)anthracene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 56-55-3.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
70	chrysene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 218-01-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 117-81-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
72	Di-n-octyl phthalate	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 117-84-0.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
73	Benzo(b)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 205-99-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
74	Benzo(k)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 207-08-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
75	Benzo(a)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 50-32-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
76	Indeno(1,2,3-cd)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 193-39-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
77	Dibenz(a,h)anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 53-70-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
78	Benzo(g,h,i)perylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
The Bis(2-chloroisopropyl)ether contains a 28% impurity of Propane, 1,1'oxybis,, 3-chloro.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

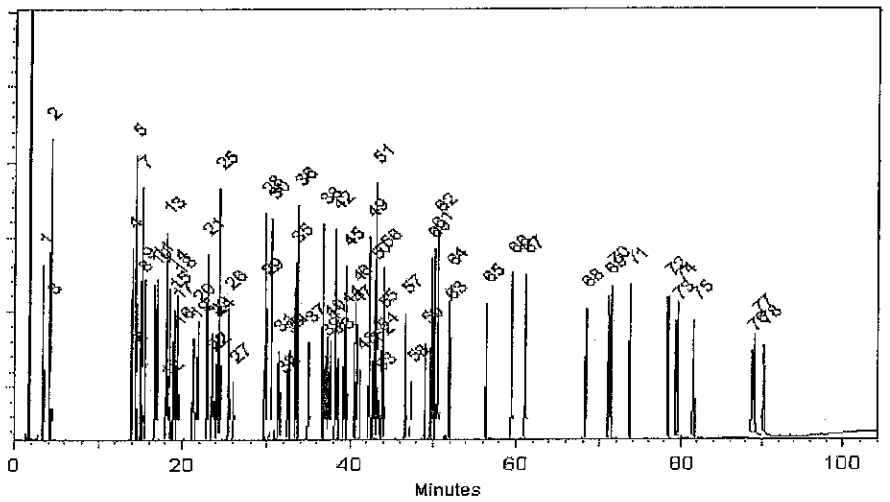
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 27-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567673.sec **Lot No.:** A093775

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

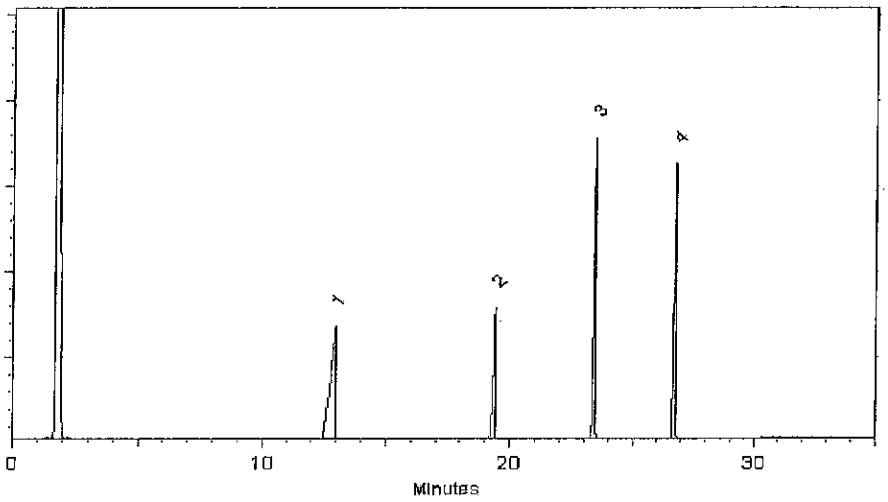
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC		+/- 96.5270	µg/mL	Unstressed
	Purity 97%		+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

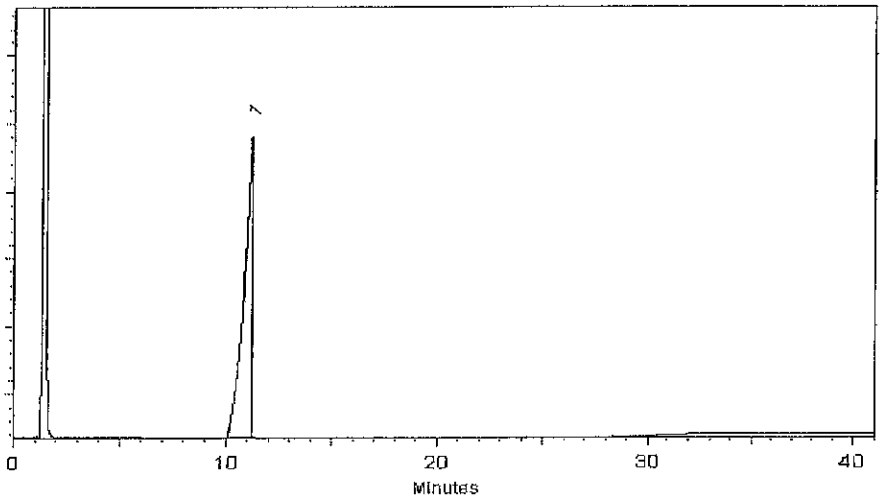
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567676.sec **Lot No.:** A093671

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	1,999.9 µg/mL	+/- 11.6278	µg/mL	Gravimetric
	CAS # 86-30-6.SEC		+/- 17.5908	µg/mL	Unstressed
	Purity 95%		+/- 34.7762	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

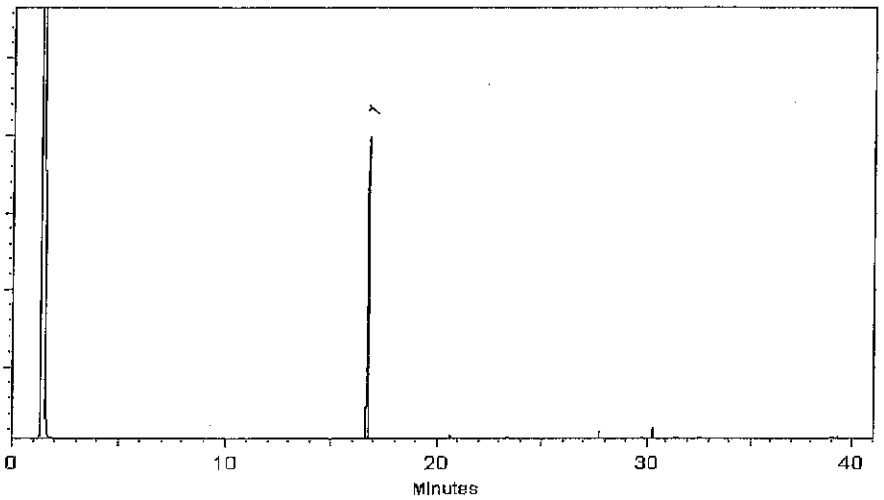
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

5MLIST1 SURR-00002

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

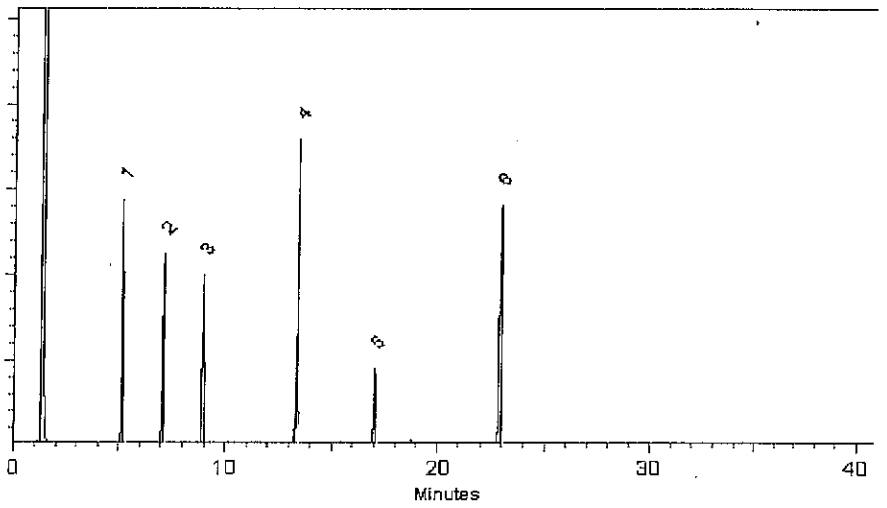
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Diane Shaffer - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A092712

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

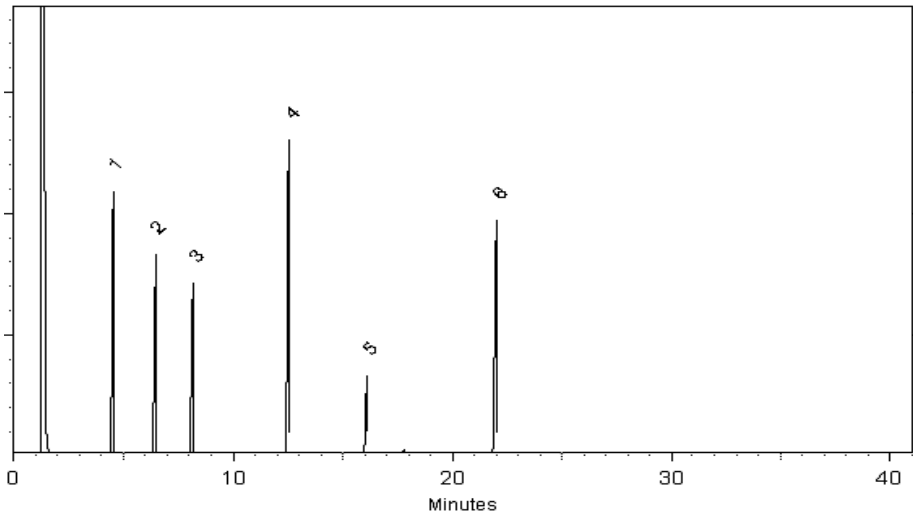
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2013 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

REVIEWED
By jlidgett at 8:46 am, Jan 15, 2013

3/15/11
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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 30006 **Lot No.:** A076449

Description : VOA Calibration Mix #1

Expiration Date[1]**:** November 2013 **Storage:** Freezer

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Acetone	67-64-1	99%	5,000.000 ug/ml	+/-0.58 %
2	2-Butanone (MEK)	78-93-3	99%	5,000.000 ug/ml	+/-0.58 %
3	4-Methyl-2-pentanone (MIBK)	108-10-1	99%	5,000.000 ug/ml	+/-0.58 %
4	2-Hexanone	591-78-6	99%	5,000.000 ug/ml	+/-0.58 %
Solvent:	P&T Methanol/Water (90:10)	67-56-1/7732-18-5	99%		

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

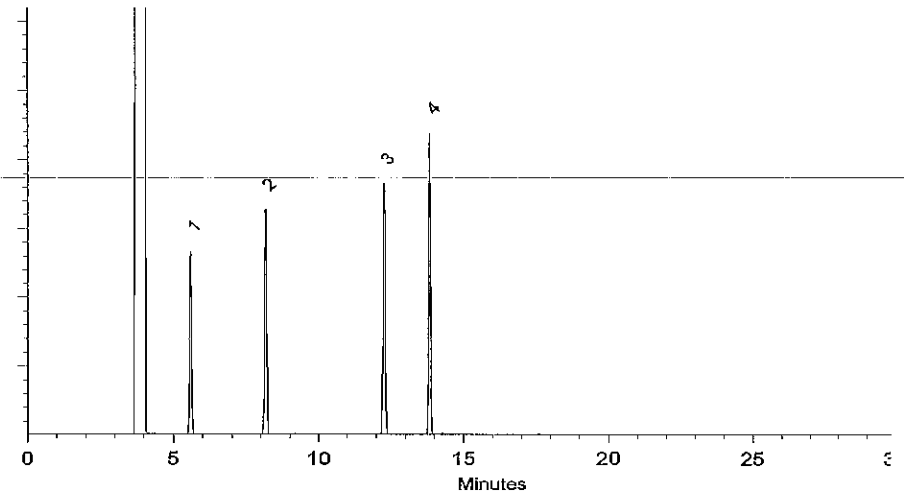
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Sara Eyster QA Analyst

Date Passed: 25-Aug-2010 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Certificate of Analysis

8/23/12 TS

DESCRIPTION: Volatile Organic Compounds Mix 6

CATALOG NO.: 48799-U MFG DATE: Mar-2012

LOT NO.: LB91213 EXPIRATION DATE: Jun-2013

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
BROMOMETHANE	74-83-9	99.9 (a)	2000	2041	+/-	35.1	LB68220
CHLOROETHANE	75-00-3	99.9 (a)	2000	2079	+/-	46.9	LB55667
CHLOROMETHANE	74-87-3	99.9	2000	2116	+/-	61.9	LB64986
DICHLORODIFLUOROMETHANE	75-71-8	99.9 (a)	2000	2044	+/-	88.1	LB68837
TRICHLOROFLUOROMETHANE	75-69-4	99.9 (a)	2000	2088	+/-	44.9	LA91320
VINYL CHLORIDE	75-01-4	99.9 (a)	2000	2141	+/-	45.7	LB89571

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) GC; detector HALL

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

8/23/12 TS

DESCRIPTION: Volatile Organic Compounds Mix 6

CATALOG NO.: 48799-U MFG DATE: Mar-2012

LOT NO.: LB91213 EXPIRATION DATE: Jun-2013

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
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CHLOROMETHANE	74-87-3	99.9	2000	2116	+/-	61.9	LB64986
DICHLORODIFLUOROMETHANE	75-71-8	99.9 (a)	2000	2044	+/-	88.1	LB68837
TRICHLOROFLUOROMETHANE	75-69-4	99.9 (a)	2000	2088	+/-	44.9	LA91320
VINYL CHLORIDE	75-01-4	99.9 (a)	2000	2141	+/-	45.7	LB89571

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) GC; detector HALL

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 556005 **Lot No.:** A085142

Description : Custom Volatiles Mix 2

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] May 2013 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	97%	2,500.2 ug/mL	+/- 14.6724 ug/mL
2	1,1-dichloroethene	75-35-4	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
3	Methyl acetate	79-20-9	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
4	Carbon disulfide	75-15-0	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
5	Methylene chloride (dichloromethane)	75-09-2	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
6	Methyl-tert-butyl ether (MTBE)	1634-04-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
7	cis-1,2-Dichloroethene	156-59-2	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
8	n-Hexane (C6)	110-54-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
9	1,1-Dichloroethane	75-34-3	98%	2,500.0 ug/mL	+/- 17.8401 ug/mL
10	trans-1,2-Dichloroethene	156-60-5	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
11	chloroform	67-66-3	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
12	1,1,1-trichloroethane	71-55-6	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
13	Cyclohexane	110-82-7	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
14	carbon tetrachloride	56-23-5	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
15	1,2-Dichloroethane	107-06-2	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
16	Benzene	71-43-2	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
17	Trichloroethene	79-01-6	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
18	Methylcyclohexane	108-87-2	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
19	1,2-Dichloropropane	78-87-5	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
20	bromodichloromethane	75-27-4	98%	2,500.0 ug/mL	+/- 17.8401 ug/mL
21	cis-1,3-Dichloropropene	10061-01-5	97%	2,500.0 ug/mL	+/- 17.8401 ug/mL
22	Toluene	108-88-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
23	trans-1,3-Dichloropropene	10061-02-6	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
24	1,1,2-Trichloroethane	79-00-5	98%	2,500.0 ug/mL	+/- 17.8401 ug/mL
25	Tetrachloroethene	127-18-4	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
26	dibromochloromethane	124-48-1	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
27	1,2-Dibromoethane (EDB)	106-93-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
28	Chlorobenzene	108-90-7	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
29	Ethylbenzene	100-41-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
30	m-Xylene	108-38-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
31	p-Xylene	106-42-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
32	o-Xylene	95-47-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
33	Styrene	100-42-5	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 563136 **Lot No.:** A085140

Description : Custom Revised Supplemental Spike Mix

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] November 2016 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Diethyl ether (ethyl ether)	60-29-7	98%	2,500.2 ug/mL	+/- 14.6724 ug/mL
2	tert-Butanol (TBA)	75-65-0	99%	50,001.6 ug/mL	+/- 292.755 ug/mL
3	Iodomethane (methyl iodide)	74-88-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
4	Diisopropyl ether (DIPE)	108-20-3	99%	2,500.4 ug/mL	+/- 14.6737 ug/mL
5	2,2-Dichloropropane	594-20-7	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
6	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	125,004.4 ug/mL	+/- 731.89 ug/mL
7	Bromochloromethane	74-97-5	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
8	Tetrahydrofuran	109-99-9	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
9	1,1-Dichloropropene	563-58-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
10	Dibromomethane	74-95-3	98%	2,500.2 ug/mL	+/- 14.6724 ug/mL
11	1,3-Dichloropropane	142-28-9	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
12	1,1,1,2-Tetrachloroethane	630-20-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
13	1,2,3-Trichloropropane	96-18-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
14	trans-1,4-dichloro-2-butene	110-57-6	98%	5,008.2 ug/mL	+/- 29.3241 ug/mL
15	n-Propylbenzene	103-65-1	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
16	Bromobenzene	108-86-1	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
17	1,3,5-Trimethylbenzene	108-67-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
18	2-Chlorotoluene	95-49-8	99%	2,501.2 ug/mL	+/- 14.6784 ug/mL
19	4-Chlorotoluene	106-43-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
20	tert-Butylbenzene	98-06-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
21	1,2,4-Trimethylbenzene	95-63-6	99%	2,500.4 ug/mL	+/- 14.6737 ug/mL
22	sec-Butylbenzene	135-98-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
23	4-Isopropyltoluene (p-Cymene)	99-87-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
24	1,2,3-Trimethylbenzene	526-73-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
25	n-Butylbenzene	104-51-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
26	Hexachlorobutadiene	87-68-3	98%	2,500.2 ug/mL	+/- 14.6724 ug/mL
27	Naphthalene	91-20-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
28	1,2,3-Trichlorobenzene	87-61-6	99%	2,500.4 ng/mL	+/- 14.6737 ug/mL

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 **Purity** 97%	1,999.9 µg/mL	+/- 11.6279 +/- 44.2519 +/- 44.4323	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

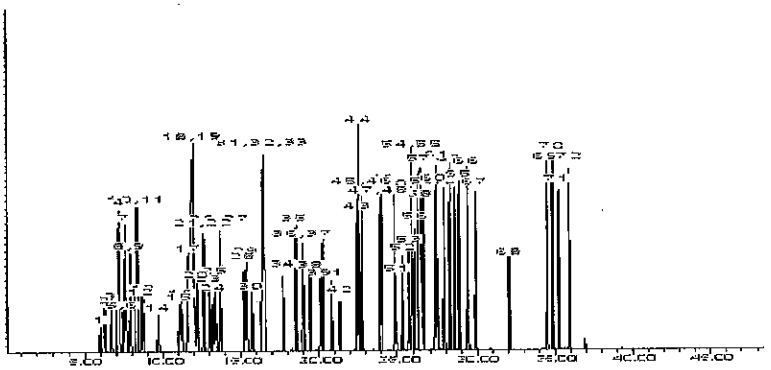
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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Catalog No. : 567644 **Lot No.:** A093659

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 2013 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 107-02-8		+/- 134.3543	µg/mL	Unstressed
	Purity 99%		+/- 167.4846	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

RESTEK

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 **Purity** 99%	2,000.0 µg/mL	+/- 13.8716 +/- 25.2661 +/- 28.2336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 **Purity** 99%	1,999.8 µg/mL	+/- 13.9993 +/- 25.3348 +/- 28.2945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 **Purity** 99%	2,000.1 µg/mL	+/- 13.9625 +/- 25.3168 +/- 28.2792	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 **Purity** 99%	2,000.0 µg/mL	+/- 13.3773 +/- 24.9981 +/- 27.9940	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 **Purity** 99%	2,000.1 µg/mL	+/- 14.2856 +/- 25.4963 +/- 28.4399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 **Purity** 99%	2,000.0 µg/mL	+/- 13.2200 +/- 24.9143 +/- 27.9191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 **Purity** 99%	2,000.0 µg/mL	+/- 13.5174 +/- 25.0735 +/- 28.0614	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	1,999.9 µg/mL	+/- 13.1170 +/- 24.8590 +/- 27.8696	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567646 **Lot No.:** A093363

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 2013 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	4,000.0 µg/mL	+/- 23.2563	µg/mL	Gravimetric
	CAS # 108-05-4		+/- 319.4759	µg/mL	Unstressed
	Purity 99%		+/- 319.6324	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

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Catalog No. : 567649 **Lot No.:** A093504

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 **Purity** 99%	5,000.0 µg/mL	+/- 29.0689 +/- 110.6323 +/- 111.0833	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Fluorobenzene **CAS #** 462-06-6 **Purity** 99%	250.0 µg/mL	+/- 1.4535 +/- 5.5316 +/- 5.5542	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dioxane-d8 **CAS #** 17647-74-4 **Purity** 99%	5,000.0 µg/mL	+/- 29.0689 +/- 110.6323 +/- 111.0833	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99%	250.0 µg/mL	+/- 1.4535 +/- 5.5316 +/- 5.5542	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	250.0 µg/mL	+/- 1.4535 +/- 5.5316 +/- 5.5542	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Certificate of Analysis

Rec'd 9/27/12 TB

DESCRIPTION: 8260 Ketones Mix

CATALOG NO.: 861149 MFG DATE: Jun-2011

LOT NO.: LB85301 EXPIRATION DATE: Nov-2013

SOLVENT: METHANOL:WATER (30:70)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
ACETONE	67-64-1	99.9	2000	1891	+/-	75.1	LB60265
CYCLOHEXANONE	108-94-1	99.5	20002	18806	+/-	673.6	LB67851
2-BUTANONE	78-93-3	99.9	2001	1888	+/-	78.2	LB38154
2-HEXANONE	591-78-6	99.9	2001	1877	+/-	70.9	LB57500
4-METHYL-2-PENTANONE	108-10-1	99.9	2001	1910	+/-	71.4	LB80301

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

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Rec'd 11-26-12

DESCRIPTION: 8260 Ketones Mix

CATALOG NO.: 861149 MFG DATE: Nov-2012

LOT NO.: LB96725 EXPIRATION DATE: Apr-2015

SOLVENT: METHANOL:WATER (30:70)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION	STD DEV	SUPELCO LOT NO
ACETONE	67-64-1	99.8	2000	1884	+/- 14.5	LB79319
CYCLOHEXANONE	108-94-1	99.9	20000	19687	+/- 124.1	LB86837
2-BUTANONE	78-93-3	99.9	2000	1890	+/- 11.6	LB38154
2-HEXANONE	591-78-6	99.9	2000	1908	+/- 14.6	LB82424
4-METHYL-2-PENTANONE	108-10-1	99.9	2000	1886	+/- 14.9	LB88392

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Duane Funk

Duane Funk
Quality Manager

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Rec: 1/31/13

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Product Number: CUS-5013 **Page:** 1 of 1

Lot Number: CK-0277 **Lot Issue Date:** 29-Jan-2013 **Expiration Date:** 31-May-2013

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
vinyl acetate	000108-05-4	RM04478	2511 ± 13 µg/mL
methyl acetate	000079-20-9	NT02091	2511 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VMCU5013-00009

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Product Number: CUS-7814 **Page:** 1 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,1,2-trichlorotrifluoroethane	000076-13-1	RM04487	50.2 ± 0.3 µg/mL
methyl iodide	000074-88-4	RM04128	50.2 ± 0.3 µg/mL
carbon disulfide	000075-15-0	RM04258	50.2 ± 0.3 µg/mL
methylene chloride	000075-09-2	RM01647	50.2 ± 0.3 µg/mL
tert-butanol	000075-65-0	RM00555	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	RM01356	50.2 ± 0.3 µg/mL
1,1-dichloroethane	000075-34-3	RM00019	50.2 ± 0.3 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	50.2 ± 0.3 µg/mL
MTBE	001634-04-4	RM05302	50.2 ± 0.3 µg/mL
n-hexane	000110-54-3	NT00436	50.2 ± 0.3 µg/mL
cis-1,2-dichloroethene	000156-59-2	RM01500	50.2 ± 0.3 µg/mL
tetrahydrofuran	000109-99-9	RM05587	50.2 ± 0.3 µg/mL
chloroform	000067-66-3	RM01693	50.2 ± 0.3 µg/mL
1,2-dichloroethane	000107-06-2	RM02111	50.2 ± 0.3 µg/mL
dibromomethane	000074-95-3	RM02090	50.2 ± 0.3 µg/mL
1,4-dioxane	000123-91-1	RM02104	2503 ± 13 µg/mL
1,1,1-trichloroethane	000071-55-6	RM00027	50.2 ± 0.3 µg/mL
carbon tetrachloride	000056-23-5	RM00012	50.2 ± 0.3 µg/mL
bromodichloromethane	000075-27-4	10529HD	50.2 ± 0.3 µg/mL

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Product Number: CUS-7814 **Page:** 2 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

1,2-dichloropropane	000078-87-5	RM02091	50.2 ± 0.3 µg/mL
cis-1,3-dichloropropene	010061-01-5	RM01442	50.2 ± 0.3 µg/mL
trichloroethene	000079-01-6	RM00029	50.2 ± 0.3 µg/mL
dibromochloromethane	000124-48-1	07705AN	50.2 ± 0.3 µg/mL
1,2-dibromoethane	000106-93-4	RM00018	50.2 ± 0.3 µg/mL
1,2,3-trichloropropane	000096-18-4	RM02562	50.2 ± 0.3 µg/mL
1,1,2-trichloroethane	000079-00-5	RM02575	50.2 ± 0.3 µg/mL
benzene	000071-43-2	RM03830	50.2 ± 0.3 µg/mL
ethyl methacrylate	000097-63-2	RM04592	50.2 ± 0.3 µg/mL
trans-1,3-dichloropropene	010061-02-6	RM01443	50.2 ± 0.3 µg/mL
bromoform	000075-25-2	RM01801	50.2 ± 0.3 µg/mL
tetrachloroethene	000127-18-4	RM00026	50.2 ± 0.3 µg/mL
toluene	000108-88-3	RM02555	50.2 ± 0.3 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	RM02540	50.2 ± 0.3 µg/mL
chlorobenzene	000108-90-7	RM01874	50.2 ± 0.3 µg/mL
ethylbenzene	000100-41-4	RM00783	50.2 ± 0.3 µg/mL
styrene	000100-42-5	LR-11228MQ	50.2 ± 0.3 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	RM04930	50.2 ± 0.3 µg/mL
m-xylene	000108-38-3	RM00053	50.2 ± 0.3 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Product Number: CUS-7814 **Page:** 3 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

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p-xylene	000106-42-3	RM02647	50.2 ± 0.3 µg/mL
o-xylene	000095-47-6	RM00052	50.2 ± 0.3 µg/mL
1,3-dichlorobenzene	000541-73-1	RM00061	50.2 ± 0.3 µg/mL
1,4-dichlorobenzene	000106-46-7	RM01501	50.2 ± 0.3 µg/mL
1,2-dichlorobenzene	000095-50-1	RM00060	50.2 ± 0.3 µg/mL
bromochloromethane	000074-97-5	RM00009	50.2 ± 0.3 µg/mL
bromobenzene	000108-86-1	RM00056	50.2 ± 0.3 µg/mL
isopropylbenzene	000098-82-8	RM02285	50.2 ± 0.3 µg/mL
n-propylbenzene	000103-65-1	RM02468	50.2 ± 0.3 µg/mL
n-butylbenzene	000104-51-8	RM01802	50.2 ± 0.3 µg/mL
sec-butylbenzene	000135-98-8	RM01800	50.2 ± 0.3 µg/mL
tert-butylbenzene	000098-06-6	RM01814	50.2 ± 0.3 µg/mL
1,2,4-trimethylbenzene	000095-63-6	RM00050	50.2 ± 0.3 µg/mL
1,3,5-trimethylbenzene	000108-67-8	RM02563	50.2 ± 0.3 µg/mL
1,2,3-trichlorobenzene	000087-61-6	RM02563	50.2 ± 0.3 µg/mL
1,2,4-trichlorobenzene	000120-82-1	RM00063	50.2 ± 0.3 µg/mL
1,1-dichloropropene	000563-58-6	RM01234	50.2 ± 0.3 µg/mL
1,3-dichloropropane	000142-28-9	RM02080	50.2 ± 0.3 µg/mL
2,2-dichloropropane	000594-20-7	01104EE	50.2 ± 0.3 µg/mL

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Product Number: CUS-7814 **Page:** 4 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

2-chlorotoluene	000095-49-8	NT00290	50.2 ± 0.3 µg/mL
4-chlorotoluene	000106-43-4	RM01866	50.2 ± 0.3 µg/mL
4-isopropyltoluene	000099-87-6	RM00046	50.2 ± 0.3 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	RM02088	50.2 ± 0.3 µg/mL
hexachlorobutadiene	000087-68-3	RM02247	50.1 ± 0.3 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	RM02567	50.2 ± 0.3 µg/mL
naphthalene	000091-20-3	RM02406	50.2 ± 0.3 µg/mL
methyl acetate	000079-20-9	NT02091	50.2 ± 0.3 µg/mL
methylcyclohexane	000108-87-2	RM04641	50.2 ± 0.3 µg/mL
cyclohexane	000110-82-7	RM01880	50.2 ± 0.3 µg/mL
1,3,5-trichlorobenzene	000108-70-3	RM02554	50.2 ± 0.3 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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2/1/12 TS

Custom Standard

Product Number: CUS-8125 **Page:** 1 of 1

Lot Number: CG-3334 **Lot Issue Date:** Sep-2010 **Expiration Date:** Oct-2012

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	01127CO	25046 ± 125 µg/mL
dibromofluoromethane	001868-53-7	RM01021	25120 ± 126 µg/mL
1,2-dichloroethane-d4	017060-07-0	9H-136	25058 ± 125 µg/mL
toluene-d8	002037-26-5	E90P1	25096 ± 125 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VM CUS 8125- 00007

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J Leahy
Quality Assurance Manager

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Rec: 1/29/13

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Product Number: CUS-8634 **Page:** 1 of 1

Lot Number: CK-0228 **Lot Issue Date:** 24-Jan-2013 **Expiration Date:** 31-May-2013

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
acrylonitrile	000107-13-1	RM05172	5023 ± 25 µg/mL
acetonitrile	000075-05-8	RM01645	25123 ± 126 µg/mL
acrolein	000107-02-8	RM04210	25123 ± 126 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VMCUS 8634_ 00008

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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6/11/12
TB

VOC Gas Mixture

Product Number: DWM-544 **Page:** 1 of 1

Lot Number: CJ-1658 **Lot Issue Date:** 09-May-2012 **Expiration Date:** 30-Jun-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
bromomethane	000074-83-9	06623AQ	2008 ± 10 µg/mL
chloroethane	000075-00-3	00223KG	2008 ± 10 µg/mL
chloromethane	000074-87-3	07-44048	2008 ± 10 µg/mL
dichlorodifluoromethane	000075-71-8	Q96-67	2007 ± 10 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	2006 ± 10 µg/mL
vinyl chloride	000075-01-4	1201FC10	2008 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VM DWM544 00012

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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2-Chloroethylvinyl Ether Solution

Product Number: EPA-1016 **Page:** 1 of 1

Lot Number: CG-0850A **Lot Issue Date:** 03-May-2012 **Expiration Date:** 30-Jun-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-chloroethylvinyl ether	000110-75-8	04606CJ	5015 ± 25 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

RCC'D 5-15-12

ULTRA SCIENTIFIC
Analytical Solutions

Internal Standard Mixture

Product Number: STM-520 **Page:** 1 of 1

Lot Number: CH-3660 **Lot Issue Date:** 15-Nov-2011 **Expiration Date:** 31-Dec-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
chlorobenzene-d5	003114-55-4	RM01430-01	2503 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-06	2500 ± 13 µg/mL
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VMSTM520_00016

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

Method 8260 Surrogate Standard Mixture

Product Number: STM-530 **Page:** 1 of 1

Lot Number: CJ-1280 **Lot Issue Date:** 17-Apr-2012 **Expiration Date:** 31-May-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03908-	2512 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871-01	2512 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM04304-	2512 ± 13 µg/mL
toluene-d8	002037-26-5	RM04138-	2512 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

2/15/13
TS

Method 8260 Surrogate Standard Mixture

Product Number: STM-530 **Page:** 1 of 1

Lot Number: CJ-1280 **Lot Issue Date:** 17-Apr-2012 **Expiration Date:** 31-May-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03908-	2512 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871-01	2512 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM04304-	2512 ± 13 µg/mL
toluene-d8	002037-26-5	RM04138-	2512 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005
Accredited
A2LA
Cert. No. 0861-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1008

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William J. Leary
Quality Assurance Manager

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CERTIFICATE OF ANALYSIS

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765217

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-CAL-SPECA-REV

Lot Number: **F2-MEB415031**

Matrix: 3% HNO3(v/v)

2,500 µg/mL ea:
Ca, K, Mg, Na,

1,250 µg/mL ea:
Fe,

25 µg/mL ea:
Al, Mn,

5 µg/mL ea:
Ag, As, Ba, Be, Cd, Co, Cr3, Cu, Ni,
Pb, Se, Sr, Tl, V, Zn

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	25.00 ± 0.18 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL	Barium, Ba	4.999 ± 0.036 µg/mL
Beryllium, Be	5.002 ± 0.036 µg/mL	Cadmium, Cd	5.000 ± 0.032 µg/mL	Calcium, Ca	2,500 ± 16 µg/mL
Chromium+3, Cr3	5.001 ± 0.032 µg/mL	Cobalt, Co	5.003 ± 0.032 µg/mL	Copper, Cu	5.001 ± 0.032 µg/mL
Iron, Fe	1,250 ± 8 µg/mL	Lead, Pb	5.002 ± 0.032 µg/mL	Magnesium, Mg	2,500 ± 16 µg/mL
Manganese, Mn	25.02 ± 0.15 µg/mL	Nickel, Ni	4.999 ± 0.028 µg/mL	Potassium, K	2,500 ± 16 µg/mL
Selenium, Se	5.002 ± 0.028 µg/mL	Silver, Ag	4.999 ± 0.032 µg/mL	Sodium, Na	2,500 ± 16 µg/mL
Strontium, Sr	5.001 ± 0.032 µg/mL	Thallium, Tl	5.002 ± 0.032 µg/mL	Vanadium, V	4.999 ± 0.032 µg/mL
Zinc, Zn	5.001 ± 0.028 µg/mL				

Certified Density: 1.051 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	010728
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	030721
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	080123
Zn	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

REC: 31313

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

765240

is an ISO Guide 34 "General Requirements for the
e Material Producers" and ISO 9001 registered
icturing laboratory is accredited to ISO/IEC 17025
or the Competence of Testing and Calibration

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

Custom Solution

TAPITT-CAL-SPECB

F2-MEB415032

3% HNO3(v/v), tr. HF

Sn, Ti

UNCERTAINTIES

	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
nL	Boron, B	5.000 ± 0.032 µg/mL	Molybdenum, Mo	5.002 ± 0.035 µg/mL
nL	Tin, Sn	5.002 ± 0.041 µg/mL	Titanium, Ti	5.002 ± 0.039 µg/mL

6 g/mL (measured at 20 ± 1° C)

alculation of the certified value and the uncertainty. Reported uncertainties represent expanded
the 95% confidence level using a coverage factor of k = 2.

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

4.2 **BALANCE CALIBRATION -** All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION -** All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION -** An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
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- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

L35052

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 — ACCREDITED Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Aluminum in 7% (v/v) HNO3**

Catalog Number:	CGAL10-1, CGAL10-2, and CGAL10-5
Lot Number:	**F2-AL04115**
Starting Material:	Al ingot
Starting Material Purity (%):	99.9991
Starting Material Lot No:	1629
Matrix:	7% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,041 ± 51 µg/mL - weighted mean

Certified Density: 1.089 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) $= 2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,039 ± 31 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 060502

Assay Method #2 **10,043 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al	M	Dy < 0.036903	O	Li 0.000033	M	Pr < 0.001845	M	Te < 0.184517
M	Sb < 0.003075	M	Er < 0.030753	M	Lu < 0.002460	M	Re < 0.006151	M	Tb < 0.001845
M	As < 0.061506	M	Eu < 0.018452	O	Mg 0.002764	M	Rh < 0.006151	M	Tl < 0.006151
M	Ba < 0.061506	M	Gd < 0.006151	O	Mn 0.000488	M	Rb < 0.006151	M	Th < 0.006151
O	Be < 0.000170	M	Ga < 0.006151	O	Hg < 0.007000	M	Ru < 0.012301	M	Tm < 0.002460
M	Bi 0.006000	M	Ge < 0.036903	M	Mo < 0.012301	M	Sm < 0.006151	M	Sn < 0.030753
O	B 0.001626	M	Au < 0.018452	M	Nd < 0.012301	M	Sc < 0.061506	O	Ti 0.006016
M	Cd < 0.018452	M	Hf < 0.012301	O	Ni 0.001301	M	Se < 0.049205	M	W < 0.061506
O	Ca 0.013495	M	Ho < 0.003075	M	Nb < 0.003075	O	Si 0.048777	M	U < 0.012301
M	Ce < 0.030753	M	In < 0.061506	n	Os	M	Ag < 0.012301	M	V < 0.012301
M	Cs < 0.001845	M	Ir < 0.030753	M	Pd < 0.030753	O	Na 0.022763	M	Yb < 0.006151
O	Cr < 0.001500	O	Fe 0.003252	O	P < 0.030000	M	Sr < 0.003075	M	Y < 0.246023
M	Co < 0.018452	M	La < 0.003075	M	Pt < 0.012301	O	S < 0.100000	O	Zn 0.016259
M	Cu < 0.036903	M	Pb < 0.018452	O	K 0.019511	M	Ta < 0.043054	M	Zr < 0.030753

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4 °C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98154; +3; 6;Al(H2O)6+3

Chemical Compatibility - Soluble in HCl, HNO3, HF and H2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Al Containing Samples (Preparation and Solution) - Metal (Best dissolved in HCl / HNO3); α- Al2O3 (Na2CO3 fusion in Pt0); γ- Al2O3 (Soluble in acids such as HCl) ; Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (sulfuric/peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES394.401 nm	0.05 / 0.006 µg/mL	1	atom	U, Ce
ICP-OES396.152 nm	0.03 / 0.006 µg/mL	1	atom	Mo, Zr, Ce
ICP-OES167.078 nm	0.1 / 0.009 µg/mL	1	ion	Fe
ICP-MS27 amu	30 ppt	n/a	M+	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 27, 2012

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Stephan Blaakman Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

6350560

INORGANIC VENTURES™
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Barium in 0.1% (v/v) HNO3**

Catalog Number:	CGBA1-1, CGBA1-2, and CGBA1-5
Lot Number:	**E2-BA02066**
Starting Material:	Ba(NO3)2
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1514_1599
Matrix:	0.1% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 997 ± 6 µg/mL - weighted mean

Certified Density: 1.000 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **997 ± 4 µg/mL**
ICP Assay NIST SRM 3104a Lot Number: 070222

Assay Method #2 **996 ± 3 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.012010	O Li < 0.004000	M Pr < 0.000601	M Te < 0.060052
M Sb < 0.001001	M Er < 0.010009	M Lu < 0.000801	M Re < 0.002002	O Tb < 0.003900
M As < 0.020017	O Eu < 0.000400	O Mg 0.000130	M Rh < 0.002002	M Tl < 0.002002
s Ba	O Gd < 0.000520	M Mn < 0.008007	M Rb < 0.002002	M Th < 0.002002
M Be < 0.001001	M Ga < 0.002002	O Hg < 0.012000	M Ru < 0.004003	M Tm < 0.000801
M Bi < 0.000801	M Ge < 0.012010	M Mo < 0.004003	O Sm < 0.000710	M Sn < 0.010009
M B < 0.140121	M Au < 0.006005	O Nd < 0.001400	M Sc < 0.020017	M Ti < 0.100087
M Cd < 0.006005	M Hf < 0.004003	O Ni < 0.000900	M Se < 0.016014	M W < 0.020017
O Ca 0.000999	M Ho < 0.001001	M Nb < 0.001001	O Si < 0.003400	M U < 0.004003
M Ce < 0.010009	M In < 0.020017	n Os	M Ag < 0.004003	M V < 0.004003
M Cs < 0.000601	M Ir < 0.010009	M Pd < 0.010009	O Na < 0.010000	M Yb < 0.002002
M Cr < 0.010009	O Fe 0.001149	O P < 0.002600	O Sr 0.001449	O Y < 0.001000
M Co < 0.006005	O La < 0.000200	M Pt < 0.004003	O S < 0.025000	O Zn < 0.000390
M Cu < 0.012010	M Pb < 0.006005	O K < 0.001800	O Ta < 0.006900	M Zr < 0.010009

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33; +2; 6; $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) - Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 455.403 nm	0.002 / 0.0001 µg/mL	1	ion	Zr, U
ICP-OES 233.527 nm	0.004 / 0.0003 µg/mL	1	ion	
ICP-OES 230.424 nm	0.004 / 0.0005 µg/mL	1	ion	Mo, Ir, Co
ICP-MS 138 amu	1 ppt	n/a	M+	122Sn16O, 122Te16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

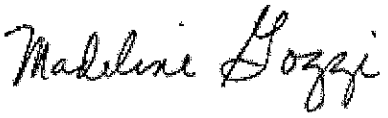
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: October 31, 2011

Expiration Date: EXPIRES 01 Sep 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Madeline Gozzi Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

#424659

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 — ACCREDITED Reference Material Producer Certificate 863.02

Received 5/24/12 RJR

2.0 DESCRIPTION OF CRM **10000 µg/mL Calcium in 2% (v/v) HNO3**

Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
Lot Number:	**F2-CA04043**
Starting Material:	CaO
Starting Material Purity (%):	99.9980
Starting Material Lot No:	1635
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,025 ± 56 µg/mL - weighted mean

Certified Density: 1.039 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{½}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{½}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,026 ± 41 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 050825

Assay Method #2 **10,022 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.000900	M	Dy	< 0.044386	O	Li	< 0.000024	M	Pr	< 0.002219	M	Te	< 0.221932
M	Sb	< 0.003699	M	Er	< 0.036989	M	Lu	< 0.002959	M	Re	< 0.007398	M	Tb	< 0.002219
M	As	< 0.073977	M	Eu	< 0.022193	O	Mg	0.047315	M	Rh	< 0.007398	M	Tl	< 0.007398
O	Ba	0.004732	M	Gd	< 0.007398	O	Mn	< 0.000300	M	Rb	< 0.007398	M	Th	< 0.007398
O	Be	< 0.000085	M	Ga	< 0.007398	O	Hg	< 0.011000	M	Ru	< 0.014795	M	Tm	< 0.002959
M	Bi	< 0.002959	M	Ge	< 0.044386	M	Mo	< 0.014795	M	Sm	< 0.007398	M	Sn	< 0.036989
O	B	< 0.000540	M	Au	< 0.022193	M	Nd	< 0.014795	O	Sc	< 0.000020	O	Ti	< 0.005000
O	Cd	< 0.004500	M	Hf	< 0.014795	O	Ni	< 0.002300	O	Se	< 0.006200	M	W	< 0.073977
s	Ca		M	Ho	< 0.003699	M	Nb	< 0.003699	O	Si	0.013519	M	U	< 0.014795
M	Ce	< 0.036989	O	In	< 0.002000	n	Os		M	Ag	< 0.014795	O	V	< 0.000900
M	Cs	< 0.002219	M	Ir	< 0.036989	M	Pd	< 0.036989	O	Na	0.021630	M	Yb	< 0.007398
O	Cr	< 0.000800	O	Fe	< 0.001100	O	P	< 0.004800	O	Sr	0.189261	M	Y	< 0.295910
O	Co	< 0.001200	M	La	< 0.003699	M	Pt	< 0.014795	O	S	0.108149	O	Zn	< 0.000190
O	Cu	< 0.004000	M	Pb	< 0.022193	O	K	0.008111	M	Ta	< 0.051784	M	Zr	< 0.036989

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.078; +2; 6; Ca(H2O)6+2

Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Ca Containing Samples (Preparation and Solution) - Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2) .The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	ion	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	ion	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	atom	Ge
ICP-MS 44 amu	1200 ppt	n/a	M+	16O212C, 28Si16O, 88Sr

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

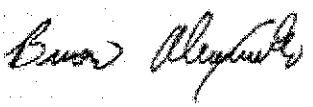
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 12, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Chromium (+3) in 2% (v/v) HNO3**

Catalog Number:	CGCR(3)1-1, CGCR(3)1-2, and CGCR(3)1-5
Lot Number:	**E2-CR03060**
Starting Material:	Cr pieces
Starting Material Purity (%):	99.9958
Starting Material Lot No:	1604
Matrix:	2% (v/v) HNO3

received 11/20/12 JR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 998 ± 5 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**997 ± 3 µg/mL** ICP Assay NIST SRM 3112a Lot Number: 030730
	Assay Method #2	**998 ± 3 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.001480	M	Dy < 0.032554	O	Li < 0.000020	M	Pr < 0.001628	M	Te < 0.162771
M	Sb < 0.002713		M	Er < 0.027128	M	Lu < 0.002170	M	Re < 0.005426	M	Tb < 0.001628
M	As < 0.054257		M	Eu < 0.016277	O	Mg < 0.000300	M	Rh < 0.005426	M	Tl < 0.005426
M	Ba < 0.054257		M	Gd < 0.005426	M	Mn < 0.021703	M	Rb < 0.005426	M	Th < 0.005426
M	Be < 0.002713		M	Ga < 0.005426	O	Hg < 0.015000	M	Ru < 0.010851	M	Tm < 0.002170
M	Bi < 0.002170		M	Ge < 0.032554	M	Mo < 0.010851	M	Sm < 0.005426	M	Sn < 0.027128
O	B < 0.010000		M	Au < 0.016277	M	Nd < 0.010851	M	Sc < 0.054257	O	Ti < 0.001000
M	Cd < 0.016277		M	Hf < 0.010851	O	Ni < 0.020000	M	Se < 0.043406	M	W < 0.054257
O	Ca	0.003885	M	Ho < 0.002713	M	Nb < 0.002713	O	Si < 0.200000	M	U < 0.010851
M	Ce < 0.027128		M	In < 0.054257	n	Os	M	Ag < 0.010851	O	V < 0.020000
M	Cs < 0.001628		M	Ir < 0.027128	M	Pd < 0.027128	O	Na 0.004625	M	Yb < 0.005426
s	Cr		O	Fe 0.022572	O	P < 0.040000	M	Sr < 0.002713	M	Y < 0.217028
M	Co < 0.016277		M	La < 0.002713	M	Pt < 0.010851	i	S	O	Zn < 0.004000
M	Cu	0.006023	M	Pb < 0.016277	O	K 0.004070	M	Ta < 0.037980	M	Zr < 0.027128

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 51.9961; +3; 6; $Cr(H_2O)_6^{3+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr Containing Samples (Preparation and Solution) - Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used:

A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1.
B. Fusion with $NaKSO_4$ and NaF, 2:1.
C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1.
D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2.

Nickel, iron, copper, or silver crucibles should be used for **D**. Platinum may be used for **A, B and C**);
Organic Matrices (Ash at 450EC followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 205.552 nm	0.006 / 0.0008 µg/mL	1	ion	Os
ICP-OES 284.325 nm	0.008 / 0.0007 µg/mL	1	ion	
ICP-OES 276.654 nm	0.01 / 0.001 µg/mL	1	ion	Cu, Ta, V
ICP-MS 52 amu	40 ppt	n/a	M+	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

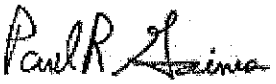
11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 13, 2012
Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Copper in 3% (v/v) HNO3**

Catalog Number:	CGCU1-1, CGCU1-2, and CGCU1-5
Lot Number:	**E2-CU02130**
Starting Material:	Cu shot
Starting Material Purity (%):	100.0000
Starting Material Lot No:	1612
Matrix:	3% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,002 ± 5 µg/mL - weighted mean

Certified Density: 1.016 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**1,001 ± 3 µg/mL** ICP Assay NIST SRM 3114 Lot Number: 011017
	Assay Method #2	**1,003 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.059973	O Li < 0.000020	M Pr < 0.002999	M Te < 0.299865
M Sb < 0.004998	M Er < 0.049978	M Lu < 0.003998	M Re < 0.009996	M Tb < 0.002999
M As < 0.099955	M Eu < 0.029987	O Mg < 0.000030	M Rh < 0.009996	M Tl < 0.009996
M Ba < 0.099955	M Gd < 0.009996	O Mn < 0.000200	M Rb < 0.009996	M Th < 0.009996
M Be < 0.004998	M Ga < 0.009996	O Hg < 0.015000	M Ru < 0.019991	M Tm < 0.003998
M Bi < 0.003998	M Ge < 0.059973	M Mo < 0.019991	M Sm < 0.009996	O Sn < 0.004000
M B < 0.699685	M Au < 0.029987	M Nd < 0.019991	M Sc < 0.099955	M Ti < 0.499775
M Cd < 0.029987	M Hf < 0.019991	O Ni < 0.003000	M Se < 0.079964	M W < 0.099955
O Ca 0.000040	M Ho < 0.004998	M Nb < 0.004998	O Si < 0.003400	M U < 0.019991
M Ce < 0.049978	M In < 0.099955	n Os	M Ag < 0.019991	O V < 0.003000
M Cs < 0.002999	M Ir < 0.049978	M Pd < 0.049978	O Na 0.000060	M Yb < 0.009996
M Cr < 0.049978	O Fe < 0.001100	O P < 0.002600	M Sr < 0.004998	M Y < 0.399820
M Co < 0.029987	M La < 0.004998	M Pt < 0.019991	n S	O Zn < 0.010000
s Cu	O Pb < 0.010000	O K < 0.001800	M Ta < 0.069969	M Zr < 0.049978

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.546; +2; 6; $Cu(H_2O)_6^{2+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 324.754 nm	0.06/.001 µg/mL		atom	Nb, U, Th, Mo, Hf
ICP-OES 224.700 nm	0.01/.001µg/mL	1	ion	Pb, Ir, Ni, W
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	atom	Th, Ta, Nb, U, Hf
ICP-MS 63 amu	10 ppt	n/a	M+	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: November 18, 2011

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

#424660

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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

Ron Rowland
RECEIVED
5/29/12

2.0 DESCRIPTION OF CRM **10000 µg/mL Iron in 5% (v/v) HNO3**

Catalog Number:	CGFE10-1, CGFE10-2, and CGFE10-5
Lot Number:	**E2-FE03145**
Starting Material:	Fe powder
Starting Material Purity (%):	99.9983
Starting Material Lot No:	1618
Matrix:	5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,032 ± 54 µg/mL - weighted mean

Certified Density: 1.053 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,023 ± 38 µg/mL**
ICP Assay NIST SRM 3126a Lot Number: 051031

Assay Method #2 **10,052 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.002700	M Dy < 0.039911	O Li < 0.000030	M Pr < 0.001996	M Te < 0.199556
M Sb < 0.003326	M Er < 0.033259	M Lu < 0.002661	M Re < 0.006652	M Tb < 0.001996
M As < 0.066519	M Eu < 0.019956	O Mg < 0.000060	M Rh < 0.006652	M Tl < 0.006652
O Ba < 0.000100	M Gd < 0.006652	O Mn 0.054322	M Rb < 0.006652	M Th < 0.006652
O Be < 0.000050	M Ga < 0.006652	O Hg < 0.011000	M Ru < 0.013304	M Tm < 0.002661
M Bi < 0.002661	i Ge	M Mo < 0.013304	M Sm < 0.006652	M Sn < 0.033259
O B < 0.020000	M Au < 0.019956	M Nd < 0.013304	M Sc < 0.066519	M Ti < 0.332594
M Cd < 0.019956	M Hf < 0.013304	O Ni 0.055831	M Se < 0.053215	M W < 0.066519
O Ca 0.004527	M Ho < 0.003326	M Nb < 0.003326	O Si < 0.010000	M U < 0.013304
M Ce < 0.033259	M In < 0.066519	n Os	M Ag < 0.013304	M V < 0.013304
M Cs < 0.001996	M Ir < 0.033259	M Pd < 0.033259	O Na 0.004678	M Yb < 0.006652
M Cr < 0.033259	s Fe	i P	M Sr < 0.003326	M Y < 0.266075
O Co 0.057340	M La < 0.003326	M Pt < 0.013304	i S	M Zn < 0.133038
M Cu < 0.039911	M Pb < 0.019956	O K < 0.001700	M Ta < 0.046563	M Zr < 0.033259

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 55.847; +3; 6; $Fe(H_2O)_6^{3+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4 ,HF and H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Fe Containing Samples (Preparation and Solution) - Metal (Soluble in HCl); Oxides (If the oxide has been at a high temperature then Na_2CO_3 fusion in Pt0 followed by HCl dissolution otherwise dissolve in dilute HCl); Ores (See Oxides above using only the fusion approach).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 238.204 nm	0.005 / 0.001 µg/mL	1	ion	Ru, Co
ICP-OES 239.562 nm	0.005 / 0.001 µg/mL	1	ion	Co, W, Cr
ICP-OES 259.940 nm	0.006 / 0.001 µg/mL	1	ion	Hf, Nb
ICP-MS 56 amu	970 ppt	n/a	M+	40Ar15N1H, 40Ar16O, 36Ar17O1H , 38Ar18O, 37Cl18O1H, 40Ca16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

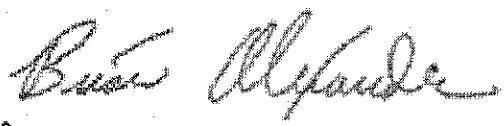
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 16, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel 800.669.6799 • 540.585.3033
fax 540.585.3012
info@inorganicventures.com

381729

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **10000 µg/mL Potassium in 2% (v/v) HNO3**

Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	**F2-K03029**
Starting Material:	KNO3
Starting Material Purity (%):	99.9981
Starting Material Lot No:	B19P01
Matrix:	2% (v/v) HNO3

Received 4/17/12

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 9,979 ± 55 µg/mL - weighted mean

Certified Density: 1.024 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9,981 ± 40 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 051220

Assay Method #2 **9,971 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.000900	M	Dy	< 0.037817	O	Li	0.000065	M	Pr	< 0.001891	M	Te	< 0.189084
M	Sb	< 0.003151	M	Er	< 0.031514	M	Lu	< 0.002521	M	Re	< 0.006303	M	Tb	< 0.001891
M	As	< 0.063028	M	Eu	< 0.018908	O	Mg	0.001032	M	Rh	< 0.006303	M	Tl	< 0.006303
O	Ba	0.000055	M	Gd	< 0.006303	O	Mn	0.000161	M	Rb	0.416797	M	Th	< 0.006303
O	Be	< 0.000200	M	Ga	< 0.006303	O	Hg	< 0.015000	M	Ru	< 0.012606	M	Tm	< 0.002521
M	Bi	< 0.002521	O	Ge	< 0.001500	M	Mo	< 0.012606	M	Sm	< 0.006303	M	Sn	< 0.031514
O	B	< 0.000600	O	Au	< 0.003000	M	Nd	< 0.012606	O	Sc	< 0.000100	O	Ti	< 0.000700
M	Cd	< 0.018908	M	Hf	< 0.012606	O	Ni	0.000806	O	Se	< 0.050000	M	W	< 0.063028
O	Ca	0.003548	M	Ho	< 0.003151	M	Nb	< 0.003151	O	Si	< 0.003400	M	U	< 0.012606
M	Ce	< 0.031514	M	In	< 0.063028	n	Os		M	Ag	< 0.012606	O	V	< 0.000900
M	Cs	< 0.001891	M	Ir	< 0.031514	M	Pd	< 0.031514	O	Na	0.051613	M	Yb	< 0.006303
M	Cr	< 0.031514	O	Fe	0.000500	O	P	< 0.002500	M	Sr	< 0.003151	M	Y	< 0.252111
M	Co	< 0.018908	M	La	< 0.003151	M	Pt	< 0.012606	O	S	< 0.072000	O	Zn	0.000403
M	Cu	< 0.037817	M	Pb	< 0.018908	s	K		M	Ta	< 0.044119	M	Zr	< 0.031514

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.0983; +1; (6); K+(aq)
(Coordination Number in parentheses is assumed, not certain.)

Chemical Compatibility - Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	atom	U, Ce,
ICP-MS 39 amu	10 ppt	n/a	M+	38ArH, 23Na16O, 78Se

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 29, 2012
Expiration Date: EXPIRES 01-2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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INORGANIC VENTURES™

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Magnesium in 2% (v/v) HNO3**

Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	**E2-MG03106**
Starting Material:	Mg metal
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1484
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,000 ± 54 µg/mL - weighted mean

Certified Density: 1.053 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	**9,999 ± 38 µg/mL** ICP Assay NIST SRM 3131a Lot Number: 050302
	Assay Method #2	**10,001 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000600	M Dy < 0.022339	O Li 0.011947	M Pr < 0.001117	M Te < 0.111693
M Sb < 0.001862	M Er < 0.018615	M Lu < 0.001489	M Re < 0.003723	M Tb < 0.001117
M As < 0.037231	M Eu < 0.011169	s Mg	M Rh < 0.003723	M Tl < 0.003723
M Ba < 0.037231	M Gd < 0.003723	O Mn < 0.000024	M Rb < 0.003723	M Th < 0.003723
O Be < 0.000170	M Ga < 0.003723	O Hg < 0.009000	M Ru < 0.007446	M Tm < 0.001489
M Bi < 0.001489	M Ge < 0.022339	M Mo < 0.007446	M Sm < 0.003723	M Sn < 0.018615
O B < 0.003000	M Au < 0.011169	M Nd < 0.007446	M Sc < 0.037231	O Ti < 0.001100
M Cd < 0.011169	M Hf < 0.007446	O Ni < 0.002700	M Se < 0.029785	M W < 0.037231
O Ca 0.003982	M Ho < 0.001862	M Nb < 0.001862	O Si < 0.006000	M U < 0.007446
M Ce < 0.018615	M In < 0.037231	n Os	M Ag < 0.007446	M V < 0.007446
M Cs < 0.001117	M Ir < 0.018615	M Pd < 0.018615	O Na 0.011947	M Yb < 0.003723
O Cr < 0.000300	O Fe < 0.001600	O P < 0.016000	M Sr < 0.001862	M Y < 0.148924
M Co < 0.011169	M La < 0.001862	M Pt < 0.007446	n S	O Zn < 0.000900
O Cu < 0.004000	M Pb 0.004942	O K < 0.050000	M Ta < 0.026062	M Zr < 0.018615

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.305; +2; 6; $Mg(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HNO_3, and H_2SO_4 avoid HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Mg Containing Samples (Preparation and Solution) - Metal (Best dissolved in diluted HNO_3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	ion	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	ion	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	atom	U, Hf, Cr, Zr
ICP-MS 24 amu	42 ppt	n/a	M+	$^{7}Li^{17}O$, $^{48}Ti^{+2}$, $^{48}Ca^{+2}$

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

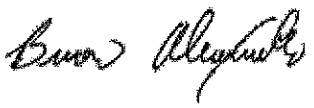
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: November 30, 2011

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Manganese in 3% (v/v) HNO3**

Catalog Number:	CGMN1-1, CGMN1-2, and CGMN1-5
Lot Number:	**E2-MN02093**
Starting Material:	Mn pieces
Starting Material Purity (%):	99.9940
Starting Material Lot No:	1573
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 5 µg/mL - weighted mean

Certified Density: 1.017 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **998 ± 3 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **1,000 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.000806	M	Dy	< 0.049987	O	Li	< 0.000020	M	Pr	< 0.002499	M	Te	< 0.249933
M	Sb	< 0.004166	M	Er	< 0.041656	M	Lu	< 0.003332	M	Re	< 0.008331	M	Tb	< 0.002499
M	As	< 0.083311	M	Eu	< 0.024993	O	Mg	0.041735	M	Rh	< 0.008331	M	Tl	< 0.008331
M	Ba	< 0.083311	M	Gd	< 0.008331	s	Mn		M	Rb	< 0.008331	M	Th	< 0.008331
M	Be	< 0.004166	O	Ga	< 0.050000	i	Hg		M	Ru	< 0.016662	M	Tm	< 0.003332
M	Bi	< 0.003332	O	Ge	< 0.003000	M	Mo	< 0.016662	M	Sm	< 0.008331	M	Sn	< 0.041656
O	B	0.002646	M	Au	< 0.024993	M	Nd	< 0.016662	M	Sc	< 0.083311	O	Ti	< 0.002000
M	Cd	< 0.024993	M	Hf	< 0.016662	M	Ni	< 0.066649	M	Se	< 0.066649	M	W	< 0.083311
O	Ca	0.003247	M	Ho	< 0.004166	M	Nb	< 0.004166	O	Si	< 0.050000	M	U	< 0.016662
M	Ce	< 0.041656	M	In	< 0.083311	n	Os		M	Ag	< 0.016662	M	V	< 0.016662
M	Cs	< 0.002499	M	Ir	< 0.041656	M	Pd	< 0.041656	O	Na	0.006375	M	Yb	< 0.008331
M	Cr	0.004208	O	Fe	< 0.010000	i	P		M	Sr	< 0.004166	M	Y	< 0.333244
M	Co	0.001804	M	La	< 0.004166	M	Pt	< 0.016662	i	S		O	Zn	< 0.000600
M	Cu	< 0.049987	M	Pb	< 0.024993	O	K	0.000842	M	Ta	< 0.058318	M	Zr	< 0.041656

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of “working reference samples”
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.
Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.9380; +2; **6**; Mn(H2O)62+
Chemical Compatibility - Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3/LDPE container.
Mn Containing Samples (Preparation and Solution) - Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H2SO4 and heat to SO3 fumes - dense white fumes).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	ion	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	ion	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	ion	Co
ICP-MS 55 amu	10 ppt	n/a	M+	40Ar14N1H, 39K16O, 37Cl18O, 40Ar15N, 38Ar17O, 36Ar18O1H , 38Ar16O1H, 37Cl17O1H, 23Na32S

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 03, 2012
Expiration Date:

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Sodium in 2% (v/v) HNO3**

Catalog Number:	CGNA10-1, CGNA10-2, and CGNA10-5
Lot Number:	**E2-NA03095**
Starting Material:	Na2CO3
Starting Material Purity (%):	99.9994
Starting Material Lot No:	C18157
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,986 ± 55 µg/mL - weighted mean

Certified Density: 1.033 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9,983 ± 39 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 010728

Assay Method #2 **9,998 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.002434	M	Dy	< 0.051831	O	Li	< 0.000030	M	Pr	< 0.002592	M	Te	< 0.259157
M	Sb	< 0.004319	M	Er	< 0.043193	M	Lu	< 0.003455	M	Re	< 0.008639	M	Tb	< 0.002592
M	As	< 0.086386	M	Eu	< 0.025916	O	Mg	0.003361	M	Rh	< 0.008639	M	Tl	< 0.008639
O	Ba	0.001043	M	Gd	< 0.008639	O	Mn	< 0.000030	M	Rb	< 0.008639	M	Th	< 0.008639
O	Be	< 0.000200	M	Ga	< 0.008639	O	Hg	< 0.015000	M	Ru	< 0.017277	M	Tm	< 0.003455
M	Bi	< 0.003455	O	Ge	< 0.001500	M	Mo	< 0.017277	M	Sm	< 0.008639	M	Sn	< 0.043193
O	B	< 0.000600	M	Au	< 0.025916	M	Nd	< 0.017277	O	Sc	< 0.000020	O	Ti	< 0.000700
M	Cd	< 0.025916	M	Hf	< 0.017277	O	Ni	< 0.002300	O	Se	< 0.050000	M	W	< 0.086386
O	Ca	0.026656	M	Ho	< 0.004319	M	Nb	< 0.004319	O	Si	0.008113	M	U	< 0.017277
M	Ce	< 0.043193	M	In	< 0.086386	n	Os		M	Ag	< 0.017277	O	V	< 0.000900
M	Cs	< 0.002592	M	Ir	< 0.043193	M	Pd	< 0.043193	S	Na		M	Yb	< 0.008639
M	Cr	< 0.043193	O	Fe	< 0.001100	O	P	< 0.040000	O	Sr	0.000174	M	Y	< 0.345543
M	Co	< 0.025916	M	La	< 0.004319	M	Pt	< 0.017277	O	S	< 0.072000	O	Zn	0.000116
O	Cu	< 0.001400	M	Pb	< 0.025916	O	K	0.023179	M	Ta	< 0.060470	M	Zr	< 0.043193

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of “working reference samples”
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.98977; +1; (6); Na+(aq) largely ionic in nature (Coordination Number in parentheses is assumed, not certain.)

Chemical Compatibility - Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	atom	Pd, Zn
ICP-MS 23 amu	310 ppt	n/a	M+	46Ti+2 , 46Ca+2

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: December 12, 2011

Expiration Date:

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Nickel in 2% (v/v) HNO3**

Catalog Number:	CGNI1-1, CGNI1-2, and CGNI1-5
Lot Number:	**E2-NI02074**
Starting Material:	Ni pieces
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1559
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,003 ± 5 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**1,002 ± 3 µg/mL** ICP Assay NIST SRM 3136 Lot Number: 000612
	Assay Method #2	**1,003 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.003000	M Dy < 0.070404	O Li < 0.000020	M Pr < 0.003520	M Te < 0.352022
M Sb < 0.005867	M Er < 0.058670	M Lu < 0.004694	M Re < 0.011734	M Tb < 0.003520
O As < 0.005400	M Eu < 0.035202	O Mg 0.000033	M Rh < 0.011734	M Tl < 0.011734
M Ba < 0.117341	M Gd < 0.011734	M Mn < 0.046936	M Rb < 0.011734	M Th < 0.011734
O Be < 0.002000	M Ga < 0.011734	O Hg < 0.011000	M Ru < 0.023468	M Tm < 0.004694
M Bi < 0.004694	M Ge < 0.070404	M Mo < 0.023468	M Sm < 0.011734	M Sn < 0.058670
O B < 0.009900	M Au < 0.035202	M Nd < 0.023468	M Sc < 0.117341	M Ti < 0.586704
M Cd < 0.035202	M Hf < 0.023468	s Ni	O Se < 0.006000	M W < 0.117341
O Ca 0.000327	M Ho < 0.005867	M Nb < 0.005867	O Si < 0.003400	M U < 0.023468
M Ce < 0.058670	M In < 0.117341	n Os	M Ag < 0.023468	M V < 0.023468
M Cs < 0.003520	M Ir < 0.058670	M Pd < 0.058670	O Na 0.000435	M Yb < 0.011734
M Cr < 0.058670	O Fe 0.000762	O P < 0.100000	M Sr < 0.005867	M Y < 0.469363
O Co < 0.002000	M La < 0.005867	M Pt < 0.023468	O S < 0.025000	M Zn < 0.234682
M Cu < 0.070404	M Pb < 0.035202	O K 0.000163	M Ta < 0.082139	M Zr < 0.058670

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69; +2; 6; $Ni(H_2O)_6^{2+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ni Containing Samples (Preparation and Solution) - Metal (Soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	ion	Si
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	atom	Cr, Re, Os, Nb, Ag, Pt, Fe
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	ion	Sb, Ta, Co
ICP-MS 60 amu	100 ppt	n/a	M+	43Ca16O1H , 44Ca16O, 23Na37Cl

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

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10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 10, 2012

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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381731

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	**DESCRIPTION OF CRM**	**1000 µg/mL Lead in 0.5% (v/v) HNO3**
	Catalog Number:	CGPB1-1, CGPB1-2, and CGPB1-5
	Lot Number:	**F2-PB03035**
	Starting Material:	Pb(NO3)2
	Starting Material Purity (%):	99.9998
	Starting Material Lot No:	1717
	Matrix:	0.5% (v/v) HNO3

Received 4/17/12

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,001 ± 5 µg/mL - weighted mean

Certified Density: 1.002 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	**1,000 ± 3 µg/mL**
		ICP Assay NIST SRM 3128 Lot Number: 101026
	Assay Method #2	**1,002 ± 3 µg/mL**
		EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.000477	M	Dy	< 0.017590	O	Li	0.000136	M	Pr	< 0.000880	M	Te	< 0.067952
M	Sb	< 0.001466	M	Er	< 0.014659	M	Lu	< 0.001173	M	Re	< 0.002932	M	Tb	< 0.000880
M	As	< 0.029317	M	Eu	< 0.008795	O	Mg	0.000102	O	Rh	< 0.009000	O	Tl	< 0.022000
O	Ba	0.000545	M	Gd	< 0.002932	M	Mn	< 0.011727	M	Rb	< 0.002932	M	Th	< 0.002932
M	Be	< 0.001466	M	Ga	< 0.002932	O	Hg	< 0.015000	M	Ru	< 0.005863	M	Tm	< 0.001173
O	Bi	< 0.020000	M	Ge	< 0.017590	M	Mo	< 0.005863	M	Sm	< 0.002932	M	Sn	< 0.014659
O	B	< 0.040000	M	Au	< 0.008795	M	Nd	< 0.005863	M	Sc	< 0.029317	M	Ti	< 0.146587
M	Cd	< 0.008795	M	Hf	< 0.005863	O	Ni	< 0.003000	M	Se	< 0.023454	M	W	< 0.029317
O	Ca	0.000682	M	Ho	< 0.001466	M	Nb	< 0.001466	O	Si	< 0.003400	M	U	< 0.005863
M	Ce	< 0.014659	M	In	< 0.029317	n	Os		M	Ag	< 0.005863	M	V	< 0.005863
M	Cs	< 0.000880	M	Ir	< 0.014659	M	Pd	< 0.014659	O	Na	< 0.006000	M	Yb	< 0.002932
M	Cr	< 0.014659	O	Fe	0.000545	O	P	< 0.005000	O	Sr	0.000204	M	Y	< 0.117270
M	Co	< 0.008795	M	La	< 0.001466	M	Pt	< 0.005863	O	S	< 0.100000	O	Zn	< 0.000200
M	Cu	< 0.017590	s	Pb		O	K	< 0.001800	M	Ta	< 0.020522	M	Zr	< 0.014659

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.2; +2; 6; $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) - Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	ion	Co
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	ion	Bi, Nb
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	atom	W, Ir, Hf, Sb, Th
ICP-MS 208 amu	5 ppt	n/a	M+	192Pt16O, 192Os16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 10, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

INORGANIC VENTURES™
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1635014

CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Zinc in 2% (v/v) HNO3**

Catalog Number:	CGZN1-1, CGZN1-2, and CGZN1-5
Lot Number:	**F2-ZN02075**
Starting Material:	Zn shot
Starting Material Purity (%):	99.9999
Starting Material Lot No:	1676 1677
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,000 ± 5 µg/mL - weighted mean

Certified Density: 1.007 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
$\sum s_i$ = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **998 ± 3 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 080123

Assay Method #2 **1,001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.007000	M Dy < 0.031427	O Li < 0.000030	M Pr < 0.001571	M Te < 0.157134
M Sb < 0.002619	M Er < 0.026189	M Lu < 0.002095	M Re < 0.005238	M Tb < 0.001571
M As < 0.052378	M Eu < 0.015713	M Mg 0.000330	M Rh < 0.005238	M Tl 0.000020
M Ba < 0.052378	M Gd < 0.005238	O Mn < 0.000300	M Rb < 0.005238	M Th < 0.005238
M Be < 0.002619	M Ga < 0.005238	O Hg < 0.010000	M Ru < 0.010476	M Tm < 0.002095
M Bi < 0.002095	M Ge < 0.031427	M Mo < 0.010476	M Sm < 0.005238	M Sn < 0.026189
O B < 0.001000	M Au < 0.015713	M Nd < 0.010476	M Sc < 0.052378	M Ti < 0.261891
M Cd < 0.015713	M Hf < 0.010476	O Ni < 0.000900	M Se < 0.041903	M W < 0.052378
O Ca 0.000134	M Ho < 0.002619	M Nb < 0.002619	O Si < 0.004000	M U < 0.010476
M Ce < 0.026189	M In < 0.052378	n Os	M Ag < 0.010476	M V < 0.010476
M Cs < 0.001571	M Ir < 0.026189	M Pd < 0.026189	O Na 0.000153	M Yb < 0.005238
O Cr < 0.001000	O Fe < 0.001000	O P < 0.003000	M Sr < 0.002619	M Y < 0.209513
M Co < 0.015713	M La < 0.002619	M Pt < 0.010476	O S < 0.020000	s Zn
O Cu < 0.000500	M Pb < 0.015713	O K < 0.003000	M Ta < 0.036665	M Zr < 0.026189

M - Checked by ICP-MS O - Checked by ICP-OES I - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± °4C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39; +2; 4; Zn(OH)(aq)1+

Chemical Compatibility - Stable in HCl, HNO3, H2SO4 ,HF, H3PO4 Avoid basic media that promotes the formation of insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Zn Containing Samples (Preparation and Solution) - Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl /HNO3); Organic based (Dry ash at 450EC and dissolve ash in HCl) (Sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 213.856 nm	0.002 / 0.0004 µg/mL	1	atom	Ni, Cu, V
ICP-OES 202.548 nm	0.004 / 0.0002 µg/mL	1	ion	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006 / 0.0006 µg/mL	1	ion	Sb, Ta, Bi, Os
ICP-MS 66 amu	7 ppt	n/a	M+	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 13, 2012

Expiration Date: EXPIRES: 01 Dec 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

Chemical Testing
Cert #2495.02

Catalog Number: ZCAL-60-250 **Lot No.** 17-147CR

Description: Custom Claritas Standard

Matrix: 5% HNO_3 / Tr. Tart. Acid / Tr. HF

This CLARITAS PPT® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for inorganic spectroscopic instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared from high purity single element concentrates of individual elements using Class A laboratory ware to give precise concentrations.

Instrumental Analysis by ICP Spectrometer:

Analyte	Labeled	Uncertainty	SRM	Analyte	Labeled	Uncertainty	SRM
Ca	1000 mg/L	±5 mg/L	3109a*	Co	2 mg/L	±0.01 mg/L	3113*
K	1000 mg/L	±5 mg/L	3141a*	Cr	2 mg/L	±0.01 mg/L	3112a*
Mg	1000 mg/L	±5 mg/L	3131a*	Cu	2 mg/L	±0.01 mg/L	3114*
Na	1000 mg/L	±5 mg/L	3152a*	Mo	2 mg/L	±0.01 mg/L	3134*
Fe	500 mg/L	±3 mg/L	3126a*	Ni	2 mg/L	±0.01 mg/L	3136*
Si	100 mg/L	±0.5 mg/L	3150*	Pb	2 mg/L	±0.01 mg/L	3128*
Al	10 mg/L	±0.05 mg/L	3101a*	Sb	2 mg/L	±0.01 mg/L	3102a*
Mn	10 mg/L	±0.05 mg/L	3132*	Se	2 mg/L	±0.01 mg/L	3149*
Ag	2 mg/L	±0.01 mg/L	3151*	Sn	2 mg/L	±0.01 mg/L	3161a*
As	2 mg/L	±0.01 mg/L	3103a*	Sr	2 mg/L	±0.01 mg/L	3153a*
B	2 mg/L	±0.01 mg/L	3107*	Tl	2 mg/L	±0.01 mg/L	3162a*
Ba	2 mg/L	±0.01 mg/L	3104a*	Tl	2 mg/L	±0.01 mg/L	3158*
Be	2 mg/L	±0.01 mg/L	3105a*	V	2 mg/L	±0.01 mg/L	3165*
Cd	2 mg/L	±0.01 mg/L	3108*	Zn	2 mg/L	±0.01 mg/L	3168a*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

SPEX CertiPrep Reference Multi: Lot# ALL8

Trace Metallic Impurities in the Actual Solution via ICP/ICP-MS Analysis:

Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L
Au	<0.7	Ga	<3	Ir	20	Pd	<2	Sc	<1	Tm	<0.1
Bi	6	Gd	<0.01	La	1	Pr	<0.05	Sm	<0.4	U	<0.2
Ce	1	Ge	<6	Li	<30	Pt	<1	Ta	20	W	<7
Cs	<0.3	Hf	0.2	Lu	<0.05	Rb	40	Tb	0.1	Y	0.4
Dy	<0.2	Hg	<4	Nb	2	Re	<0.4	Te	<6	Yb	<0.3
Er	<0.2	Ho	<0.1	Nd	<0.2	Rh	<0.8	Th	0.4	Zr	<50
Eu	<0.1	In	<6	P	<400	Ru	<0.8				

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867 and others. This CRM is guaranteed stable and accurate to ±0.5% of the labeled value. This includes uncertainty components due to preparation, measurement, homogeneity, short-term and long-term stability, as well as transpiration loss. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly closed and stored under ambient laboratory conditions.

Date of Certification: DEC 2012 Certifying Officer:

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Rec 3B13

CERTIFICATE OF ANALYSIS

773262

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-MSICSAB-1

Lot Number: **F2-MEB415033**

Matrix: 3% HNO3(v/v)

10 µg/mL ea:

Ba, Be, Pb, Sr, Tl, V

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.07 µg/mL	Beryllium, Be	10.00 ± 0.07 µg/mL	Lead, Pb	10.00 ± 0.06 µg/mL
Strontium, Sr	10.00 ± 0.06 µg/mL	Thallium, Tl	10.00 ± 0.06 µg/mL	Vanadium, V	10.00 ± 0.06 µg/mL

Certified Density: 1.014 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 **TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Pb	ICP Assay	3128	030721
Pb	EDTA	928	928
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

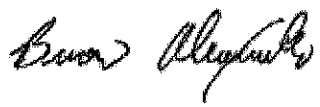
Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director



Certifying Officer: Paul Gaines
PhD., Senior Technical Director

INORGANIC VENTURES™
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Christiansburg, VA 24073 • USA
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Rec 3B13

CERTIFICATE OF ANALYSIS

773263

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-MSICSAB-2

Lot Number: **G2-MEB467043**

Matrix: 3% HNO3(v/v), tr. HF

250 µg/mL ea:
Si,

50 µg/mL ea:
Sn,

25 µg/mL ea:
B, Se,

10 µg/mL ea:
Sb

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	10.00 ± 0.06 µg/mL	Boron, B	24.98 ± 0.17 µg/mL	Selenium, Se	25.01 ± 0.21 µg/mL
Silicon, Si	249.9 ± 1.6 µg/mL	Tin, Sn	50.04 ± 0.36 µg/mL		

Certified Density: 1.018 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	070514
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 08, 2013

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-ICPMS

Lot Number: **G2-MEB455121**

Matrix: 0.7% HNO3(v/v)

200 µg/mL ea:
Al, Ba,

100 µg/mL ea:
B, Fe, Sr,

50 µg/mL ea:
Co, Mn, Ni, V, Zn,

25 µg/mL ea:
Cu,

20 µg/mL ea:
Cr3,

5 µg/mL ea:
Ag, Be, Cd, Tl,

4 µg/mL ea:
As,

2 µg/mL ea:
Pb,

1 µg/mL ea:
Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	200.1 ± 1.3 µg/mL	Arsenic, As	4.001 ± 0.026 µg/mL	Barium, Ba	200.0 ± 1.3 µg/mL
Beryllium, Be	5.001 ± 0.028 µg/mL	Boron, B	100.0 ± 0.7 µg/mL	Cadmium, Cd	5.001 ± 0.032 µg/mL
Chromium+3, Cr3	20.01 ± 0.13 µg/mL	Cobalt, Co	50.02 ± 0.33 µg/mL	Copper, Cu	25.00 ± 0.17 µg/mL
Iron, Fe	100.0 ± 0.6 µg/mL	Lead, Pb	2.000 ± 0.013 µg/mL	Manganese, Mn	50.01 ± 0.32 µg/mL
Nickel, Ni	50.01 ± 0.33 µg/mL	Selenium, Se	1.001 ± 0.007 µg/mL	Silver, Ag	5.001 ± 0.032 µg/mL
Strontium, Sr	100.0 ± 0.6 µg/mL	Thallium, Tl	5.001 ± 0.032 µg/mL	Vanadium, V	50.00 ± 0.35 µg/mL
Zinc, Zn	50.00 ± 0.33 µg/mL				

Certified Density: 1.005 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i= individual results

n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma(s_i)^2]^{\frac{1}{2}}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{\frac{1}{2}}$ = The square root of the sum of the squares of the most common errors (where's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212	Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502	Al	EDTA	928	928
As	Calculated		See Sec. 4.2	As	ICP Assay	3103a	100818
B	ICP Assay	3107	070514	Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222	Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514	Cd	ICP Assay	3108	060531
Cd	EDTA	928	928	Co	ICP Assay	3113	00630
Co	EDTA	928	928	Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730	Cu	ICP Assay	3114	011017
Cu	EDTA	928	928	Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928	Mn	ICP Assay	3132	050429
Mn	EDTA	928	928	Ni	ICP Assay	3136	000612
Ni	EDTA	928	928	Pb	ICP Assay	3128	101026
Pb	EDTA	928	928	Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901	Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928	Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012	V	ICP Assay	3165	992706
V	EDTA	928	928	Zn	ICP Assay	3168a	080123
Zn	EDTA	928	928				

4.2 **BALANCE CALIBRATION -** All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION -** All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION -** An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001 Quality Management System Registration**
- QMI File Number 010105

10.2 **ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"**
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"**
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission**
- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission**
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 09, 2013

Expiration Date: EXPIRES 01/2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Brian Alexander

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

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ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-ICPMS

Lot Number: **E2-MEB379097**

Matrix: 0.7% HNO3(v/v)

200 µg/mL ea:
Al, Ba,

100 µg/mL ea:
B, Fe, Sr,

50 µg/mL ea:
Co, Mn, Ni, V, Zn,

25 µg/mL ea:
Cu,

20 µg/mL ea:
Cr3,

5 µg/mL ea:
Ag, Be, Cd, Tl,

4 µg/mL ea:
As,

2 µg/mL ea:
Pb,

1 µg/mL ea:
Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	200.0 ± 1.1 µg/mL	Arsenic, As	4.001 ± 0.016 µg/mL	Barium, Ba	200.0 ± 1.5 µg/mL
Beryllium, Be	5.000 ± 0.030 µg/mL	Boron, B	100.0 ± 0.5 µg/mL	Cadmium, Cd	5.000 ± 0.020 µg/mL
Chromium+3, Cr3	20.01 ± 0.15 µg/mL	Cobalt, Co	50.00 ± 0.33 µg/mL	Copper, Cu	25.01 ± 0.07 µg/mL
Iron, Fe	100.0 ± 0.6 µg/mL	Lead, Pb	2.001 ± 0.004 µg/mL	Manganese, Mn	50.00 ± 0.38 µg/mL
Nickel, Ni	50.01 ± 0.31 µg/mL	Selenium, Se	1.000 ± 0.004 µg/mL	Silver, Ag	5.000 ± 0.025 µg/mL
Strontium, Sr	100.1 ± 0.5 µg/mL	Thallium, Tl	5.000 ± 0.020 µg/mL	Vanadium, V	50.00 ± 0.39 µg/mL
Zinc, Zn	50.00 ± 0.16 µg/mL				

Certified Density: 1.006 g/mL (measured at 20 ± 1° C)

uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $\frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$ Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

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4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Al	ICP Assay	3101a	060502
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	ICP Assay	3104a	070222
Be	ICP Assay	3105a	892707
Cd	EDTA	928	928
Co	EDTA	928	928
Cr3	ICP Assay	3112a	030730
Cu	EDTA	928	928
Fe	EDTA	928	928
Mn	EDTA	928	928
Ni	EDTA	928	928
Pb	EDTA	928	928
Se	ICP Assay	3149	992106
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	EDTA	928	928
Zn	EDTA	928	928

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	Volhard	999b	999b
Al	EDTA	928	928
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Be	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	060531
Co	ICP Assay	3113	00630
Cr3	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	011017
Fe	ICP Assay	3126a	051031
Mn	ICP Assay	3132	050429
Ni	ICP Assay	3136	000612
Pb	ICP Assay	3128	030721
Se	Calculated		See Sec. 4.2
Sr	ICP Assay	3153a	990906
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	992706
Zn	ICP Assay	3168a	080123

4.2 **BALANCE CALIBRATION -** All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

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5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

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Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

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Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

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10.1 **ISO 9001 Quality Management System Registration**
- QMI File Number 010105

10.2 **ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"**
- Chemical Testing - Accredited A2LA Certificate Number 883.01

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- Reference Materials Production - Accredited A2LA Certificate Number 883.02

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- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission**
- Reporting Defects and Non-Compliance

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11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 16, 2011

Expiration Date: EXPIRES 01 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Donna Senn

Certificate Approved By: Madeline Gozzi
Quality Control Supervisor

Madeline Gozzi

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

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CERTIFICATE OF ANALYSIS

CH 2/14/13

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-A

Lot Number: **G2-MEB458093**

Matrix: 3% HNO3(v/v)

5,000 µg/mL ea:
Ca, K, Mg, Na

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Calcium, Ca	5,000 ± 35 µg/mL	Magnesium, Mg	5,000 ± 33 µg/mL	Potassium, K	5,000 ± 37 µg/mL
Sodium, Na	5,000 ± 34 µg/mL				

Certified Density: 1.073 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

· The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ca	ICP Assay	3109a	050825	Ca	EDTA	928	928
K	Gravimetric		See Sec. 4.2	K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302	Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2	Na	ICP Assay	3152a	010728

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

Page 569 of 2386

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

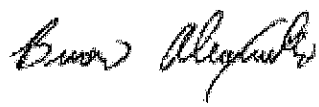
Certification Date: February 01, 2013

Expiration Date: EXPIRES 01 MAR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor



Certifying Officer: Paul Gaines
PhD., Senior Technical Director

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

CH 2/14/13

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-C

Lot Number: **G2-MEB458094**

Matrix: 3% HNO3(v/v), tr. HF

1,000 µg/mL ea:
Si,

200 µg/mL ea:
Sn,

100 µg/mL ea:
Mo, Ti,

50 µg/mL ea:
Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	50.02 ± 0.38 µg/mL	Molybdenum, Mo	100.0 ± 0.7 µg/mL	Silicon, Si	1,000 ± 7 µg/mL
Tin, Sn	200.0 ± 1.4 µg/mL	Titanium, Ti	100.1 ± 0.7 µg/mL		

Certified Density: 1.020 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

· The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2	Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2	Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2	Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2	Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808				

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep Tightly sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 01, 2013

Expiration Date: EXPIRES 01 MAR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

F-72 Revd. 8/19/11

HP35DNA TA_00001, 02, 03, 04

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31661 **Lot No.:** A080341

Description : 3,5-Dinitroaniline Standard

SV Stock Solution, 3,5-Dinitroaniline Std, 1000µg/ml, Acetonitrile, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] November 2015 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	% Grav.Uncert. [4] (95% C.L., K=2)
1	3,5-Dinitroaniline	618-87-1	99%	1,000.0 ug/ml	+/-0.59 %
Solvent:	Acetonitrile	75-05-8	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

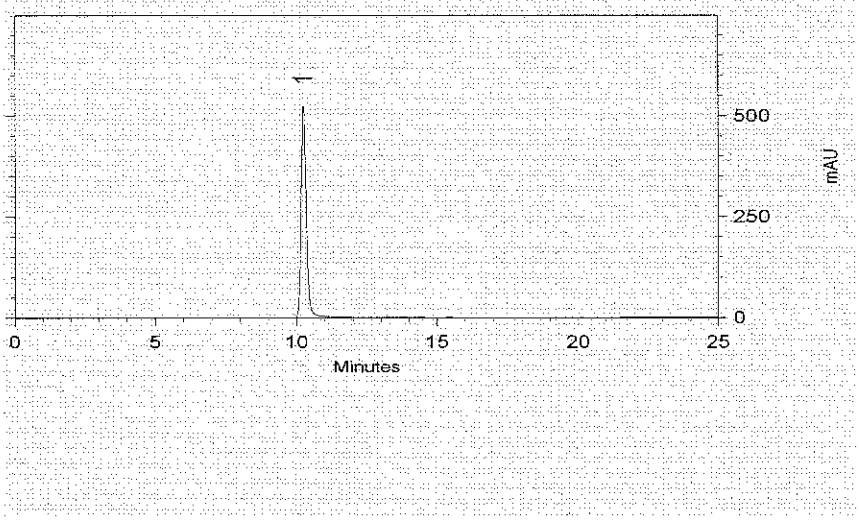
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QAA Analyst

Date Passed: 14-Mar-2011 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory, as a custom ordered item. Contact your Restek sales or customer service representative for details.

Rcvd 8/28/12 RM

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www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31661 **Lot No.:** A085338

Description : 3,5-Dinitroaniline Standard

SV Stock Solution, 3,5-Dinitroaniline Std, 1000µg/ml, Acetonitrile, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] July 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	3,5-Dinitroaniline	618-87-1	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
Solvent:	Acetonitrile	75-05-8	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

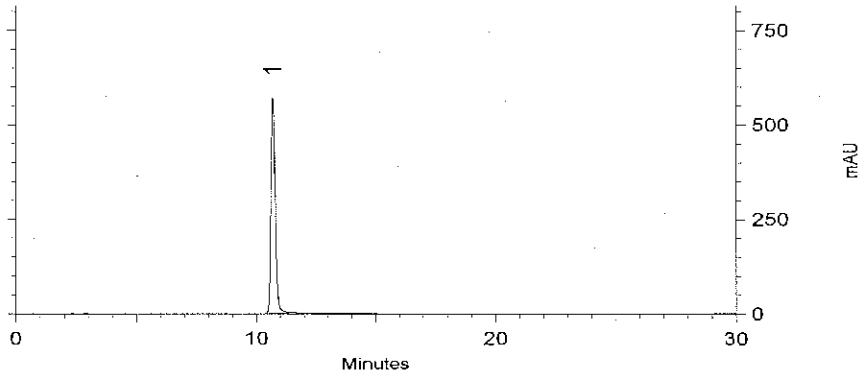
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 02-Dec-2011 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition is the last day of the month listed.

2A Purity and chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Purity value is rounded to the nearest whole number. See data pack or contact Restek for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory, as a custom ordered item. Contact your Restek sales or customer service representative for details.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Rcvd 8/28/17 RM

ACCREDITED
Reference Material Producer
Certificate #3222.01

ACCREDITED
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31452 **Lot No.:** A087054

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000ug/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene	1,000.0 ug/mL	+/- 5.9397	ug/mL	Gravimetric
	CAS # 610-39-9		+/- 12.1149	ug/mL	Unstressed
	Purity 99%		+/- 13.6550	ug/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

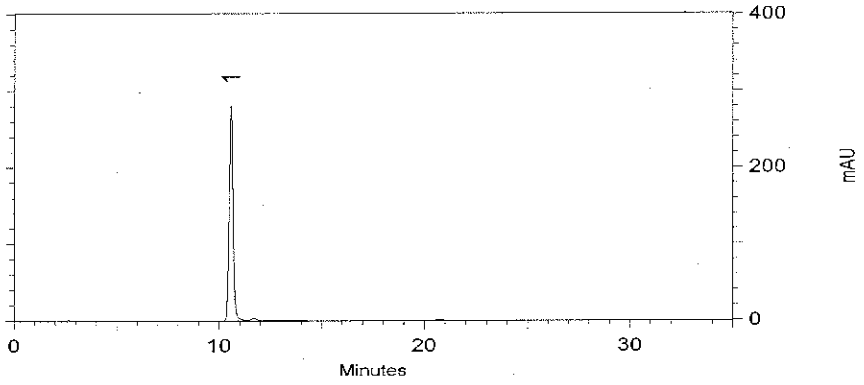
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Valerie N. Walters - QA Analyst

Date Passed: 06-Apr-2012 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Rcvd 8/28/17 RM

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

ACCREDITED
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31452 **Lot No.:** A087054

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000ug/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene	1,000.0 ug/mL	+/- 5.9397	ug/mL	Gravimetric
	CAS # 610-39-9		+/- 12.1149	ug/mL	Unstressed
	Purity 99%		+/- 13.6550	ug/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

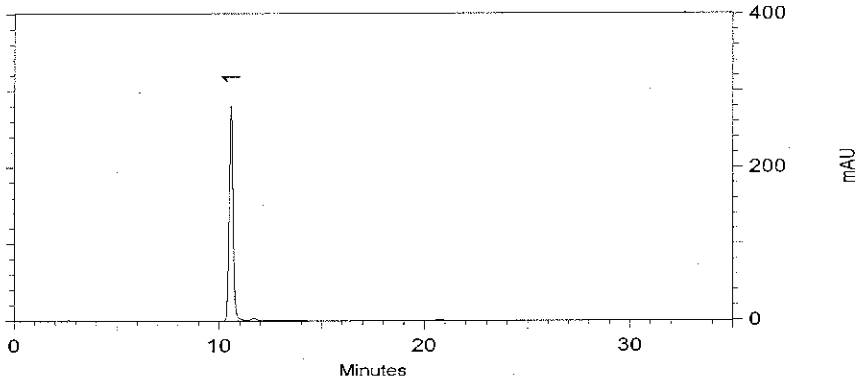
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Valerie N. Walters - QA Analyst

Date Passed: 06-Apr-2012 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

Recvd 3/11/11 Scanned 4/19/11

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 33905 **Lot No.:** A078069

Description : 8330 Calibration Standard

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] June 2014 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	% Grav.Uncert. (95% C.L.; K=2) [4]
1	HMX	2691-41-0	99%	1,000.0 ug/ml	+/-0.59 %
2	RDX	121-82-4	98%	999.6 ug/ml	+/-0.59 %
3	1,3,5-Trinitrobenzene	99-35-4	99%	1,000.0 ug/ml	+/-0.59 %
4	1,3-Dinitrobenzene	99-65-0	97%	1,000.1 ug/ml	+/-0.59 %
5	Nitrobenzene	98-95-3	99%	1,000.0 ug/ml	+/-0.59 %
6	Tetryl	479-45-8	99%	1,000.0 ug/ml	+/-0.59 %
7	2,4,6-Trinitrotoluene	118-96-7	98%	999.6 ug/ml	+/-0.59 %
8	2-Amino-4,6-dinitrotoluene	35572-78-2	99%	1,000.0 ug/ml	+/-0.59 %
9	4-Amino-2,6-dinitrotoluene	19406-51-0	98%	999.6 ug/ml	+/-0.59 %
10	2,4-Dinitrotoluene	121-14-2	99%	1,000.0 ug/ml	+/-0.59 %
11	2,6-Dinitrotoluene	606-20-2	99%	1,000.0 ug/ml	+/-0.59 %
12	2-Nitrotoluene	88-72-2	99%	1,000.0 ug/ml	+/-0.59 %
13	4-Nitrotoluene	99-99-0	99%	1,000.0 ug/ml	+/-0.59 %
14	3-Nitrotoluene	99-08-1	99%	1,000.0 ug/ml	+/-0.59 %
Solvent:	Acetonitrile	75-05-8	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

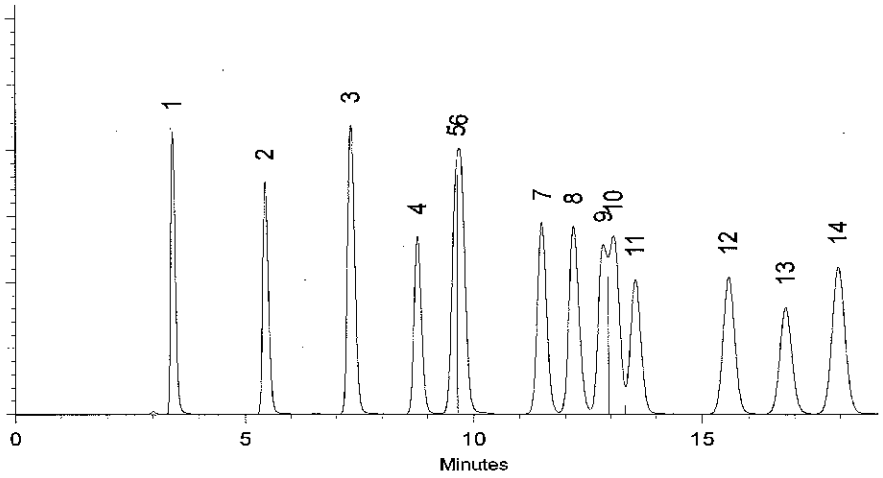
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Standard Solution Assay Parameters

Analysis Method:	HPLC/UV
Column:	Prodigy ODS 3, 4.6 x 250 mm
Mobile Phase:	A: Water B: Methanol

Gradient Program:

Time (mins)	%A	%B
0.0	50	50
10.0	40	60
25.0	40	60

Flow Rate:	0.8 mL/min
Wavelength:	254 nm

Calibration Curve

Calibration Curve:	Linear Regression
Number of Points:	1

Solution Standard Verification and Homogeneity

Compound	Verified Concentration µg/mL	Acceptance Criteria	%RSD - Homogeneity %	Acceptance Criteria
2-Amino-4,6-dinitrotoluene	199.9	± 10%	0.8	≤ 3%
4-Amino-2,6-dinitrotoluene	201.3	± 10%	1.4	≤ 3%
1,3-Dinitrobenzene	199.5	± 10%	0.7	≤ 3%
2,4-Dinitrotoluene	200.1	± 10%	0.6	≤ 3%
2,6-Dinitrotoluene	197.7	± 10%	0.9	≤ 3%
HMX	199.5	± 10%	0.7	≤ 3%
Nitrobenzene	199.8	± 10%	0.5	≤ 3%
2-Nitrotoluene	199.5	± 10%	0.2	≤ 3%
3-Nitrotoluene	199.0	± 10%	0.5	≤ 3%
4-Nitrotoluene	199.4	± 10%	0.6	≤ 3%
RDX	199.4	± 10%	0.7	≤ 3%
Tetryl	197.8	± 10%	0.7	≤ 3%
1,3,5-Trinitrobenzene	199.3	± 10%	0.7	≤ 3%
2,4,6-Trinitrotoluene (TNT)	198.6	± 10%	1.0	≤ 3%

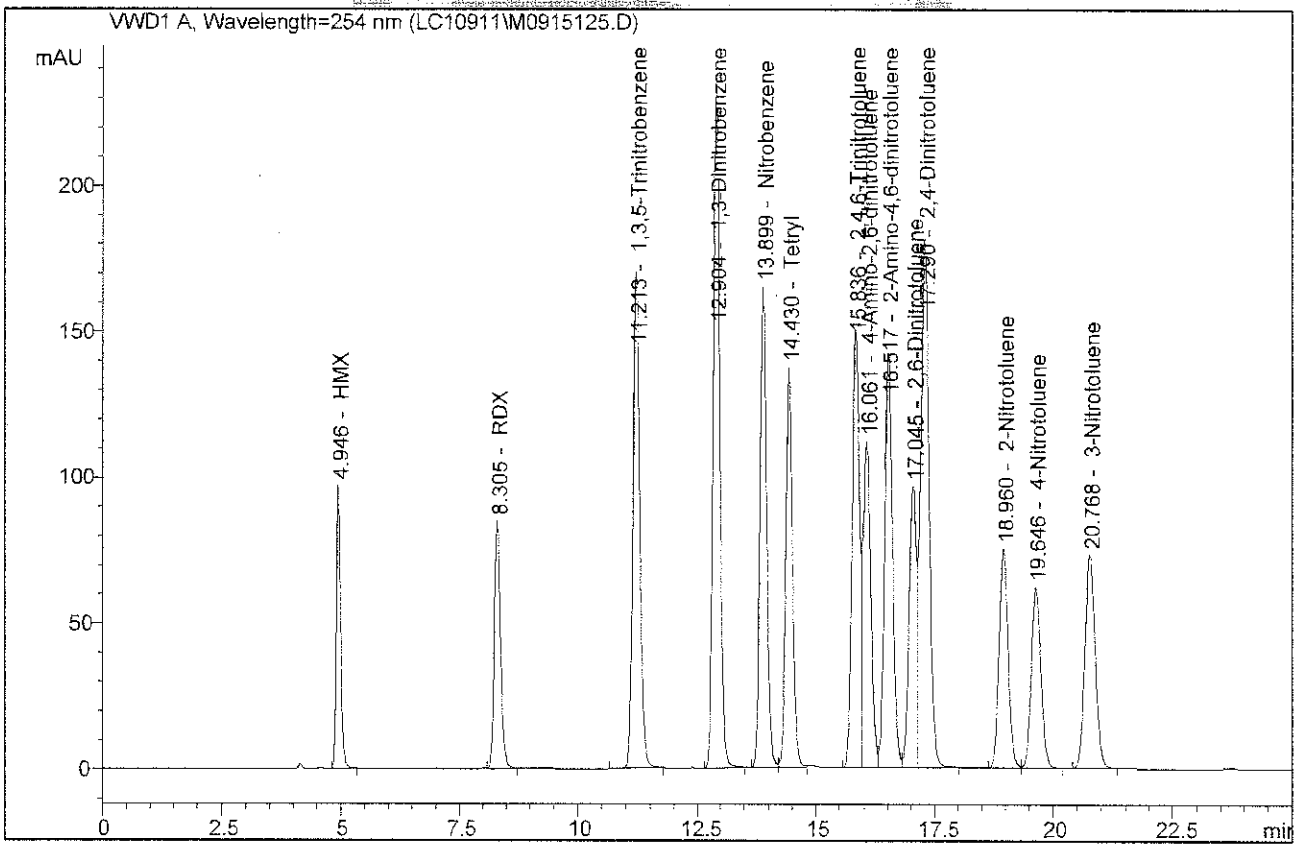
- Concentration is verified through multiple analyses and is calculated as the average of multiple analyses compared to an independently prepared calibration curve.
- Homogeneity is ensured through rigorous production process controls statistically analyzed to evaluate risk and verified by analysis. The %RSD of samples pulled from across the lot demonstrate homogeneity.
- Product is compared to prior lot and meets acceptance criteria of ± 10%.

Neat Material Data

Compound	Lot Number	CAS Number	Chemical Formula	Molecular Weight	Chromatographic Purity
2-Amino-4,6-dinitrotoluene	29550-55	35572-78-2	$C_7H_7N_3O_4$	197.15	99.98%
4-Amino-2,6-dinitrotoluene	ER070908-01	19406-51-0	$C_7H_7N_3O_4$	197.15	99.88%
1,3-Dinitrobenzene	EB-1876	99-65-0	$C_6H_4N_2O_4$	168.11	98.72%
2,4-Dinitrotoluene	EB-1379	121-14-2	$C_7H_6N_2O_4$	182.14	99.00%
2,6-Dinitrotoluene	PER-083-93401	606-20-2	$C_7H_6N_2O_4$	182.14	99.59%
HMX	ER052908-01	2691-41-0	$C_4H_8N_8O_8$	296.16	98.41%
Nitrobenzene	PR090310-01	98-95-3	$C_6H_5NO_2$	123.11	99.96%
2-Nitrotoluene	EB-1509	88-72-2	$C_7H_7NO_2$	137.14	99.95%
3-Nitrotoluene	EB-1519	99-08-1	$C_7H_7NO_2$	137.14	99.94%
4-Nitrotoluene	EB-1816	99-99-0	$C_7H_7NO_2$	137.14	99.81%
RDX	ER091609-04	121-82-4	$C_3H_6N_6O_6$	222.12	99.94%
Tetryl	34268-43	479-45-8	$C_7H_5N_5O_8$	287.15	98.67%
1,3,5-Trinitrobenzene	PR122706-01	99-35-4	$C_6H_3N_3O_6$	213.11	99.96%
2,4,6-Trinitrotoluene (TNT)	PR041911-01	118-96-7	$C_7H_5N_3O_6$	227.13	99.89%

♦ Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics) x Chromatographic Purity/100].

Product Analysis



RESTEK

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Rcvd 8/28/12

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 33905 **Lot No.:** A084334

Description : 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1,000µg/ml, Acetonitrile, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] May 2015 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	HMX	2691-41-0	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
2	RDX	121-82-4	98%	999.6 ug/mL	+/- 5.9373 ug/mL
3	1,3,5-Trinitrobenzene	99-35-4	98%	999.6 ug/mL	+/- 5.9373 ug/mL
4	1,3-Dinitrobenzene	99-65-0	97%	1,000.1 ug/mL	+/- 5.9401 ug/mL
5	Nitrobenzene	98-95-3	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
6	Tetryl	479-45-8	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
7	2,4,6-Trinitrotoluene	118-96-7	98%	999.6 ug/mL	+/- 5.9373 ug/mL
8	2-Amino-4,6-dinitrotoluene	35572-78-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
9	4-Amino-2,6-dinitrotoluene	19406-51-0	98%	999.6 ug/mL	+/- 5.9373 ug/mL
10	2,4-Dinitrotoluene	121-14-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
11	2,6-Dinitrotoluene	606-20-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
12	2-Nitrotoluene	88-72-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
13	4-Nitrotoluene	99-99-0	97%	970.0 ug/mL	+/- 5.7615 ug/mL
14	3-Nitrotoluene	99-08-1	97%	1,000.1 ug/mL	+/- 5.9401 ug/mL

Solvent: Acetonitrile 75-05-8 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

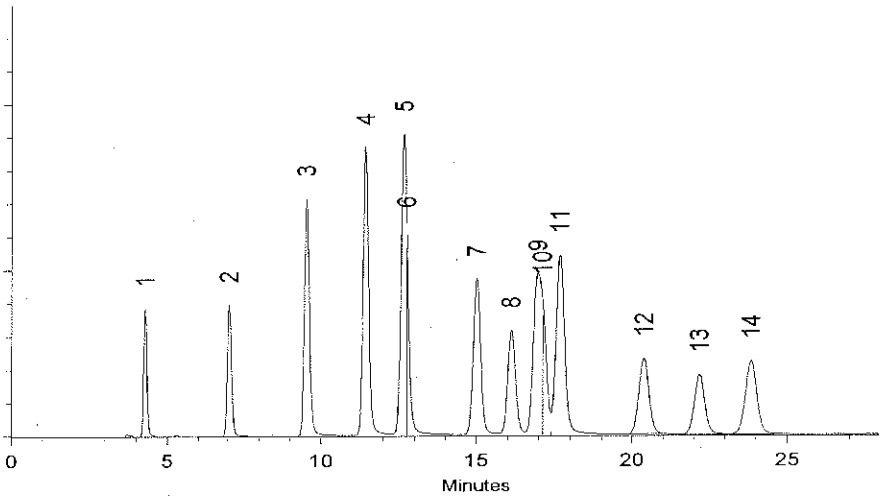
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 22-Nov-2011 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition is the last day of the month listed.

2A Purity and chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Purity value is rounded to the nearest whole number. See data pack or contact Restek for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory, as a custom ordered item. Contact your Restek sales or customer service representative for details.

Note:

Baynes, Jason

From: Jen Massey [massey@msi.ucsb.edu]
Sent: Wednesday, March 28, 2012 1:17 PM
To: Baynes, Jason
Cc: Georges Paradis
Subject: CHN results (AL3786)

AL3806 report.xls
(21 KB)

Hi Jason,

Attached are the data for the sample that was submitted for rushed CHN analysis on March 19th.

We were hesitant to dry your sample in a drying oven considering the flash point of nitrocellulose. We dried the sample over the weekend in a desiccator purged with dry N2 and analyzed your sample in triplicate.

Those data showed no improvement in precision when compared to your initial submission. We decided to take a very small subsample and isolate it a 60°C drying oven overnight to try and rid of residual water. The precision is much better using this drying technique. Those data are attached.

Please feel free to contact us with any questions.

Take care,
Jen

-
Jennifer Massey
Staff Research Associate
massey@msi.ucsb.edu
Voice: 805-893-3802
Fax: 805-893-2122

Analytical Lab
Marine Science Institute
University of California
Santa Barbara, CA 93106-6150
http://www.msi.ucsb.edu/services/analytical-lab
-

Sample Batch: Baynes AL3806					Run Date: 28-Mar-12	
Sample ID	Wt. (ug)	Weight Percent			C/N ratio	Flags
		C	H	N		
rep 1	1867	23.9	2.19	11.9	2.02	
rep 2	1865	24.0	2.31	11.8	2.03	
rep 3	1871	24.1	2.35	11.9	2.02	

HP NGTA – 00001

RESTEK

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Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31498 **Lot No.:** A082035

Description : Nitroglycerin Standard

SV Mix, Nitroglycerin Standard, 1,000µg/ml, Methanol, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] May 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Nitroglycerin	55-63-0	99%	1,000.0 ug/mL	+/- 5.9 ug/mL
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

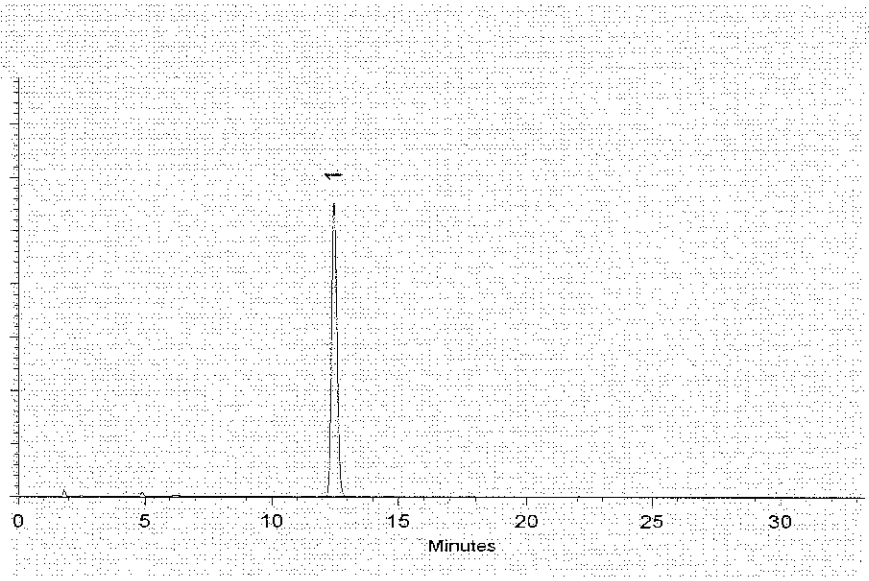
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Recd 11/27/12

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

ACCREDITED
Reference Material Producer
Certificate #3222.01

ACCREDITED
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 **Lot No.:** A087039

Description : Nitroglycerin Standard

1000ug/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	1,000.0 ug/mL	+/- 5.8686	ug/mL	Gravimetric
	CAS # 55-63-0		+/- 32.1907	ug/mL	Unstressed
	Purity 99%		+/- 44.7599	ug/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Recd 11/27/12

HPNGTA-00001

5

10

RESTEK

Certificate of Analysis

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. :	31602	**Lot No.:**	A076817
Description :	Nitroguanidine Standard		
Container Size :	2 mL	**Pkg Amt:**	> 1 mL
Expiration Date : [1]	September 2015	**Storage:**	Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	% Grav.Uncert. [4] (95% C.L., K=2)
1	Nitroguanidine	556-88-7	99%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

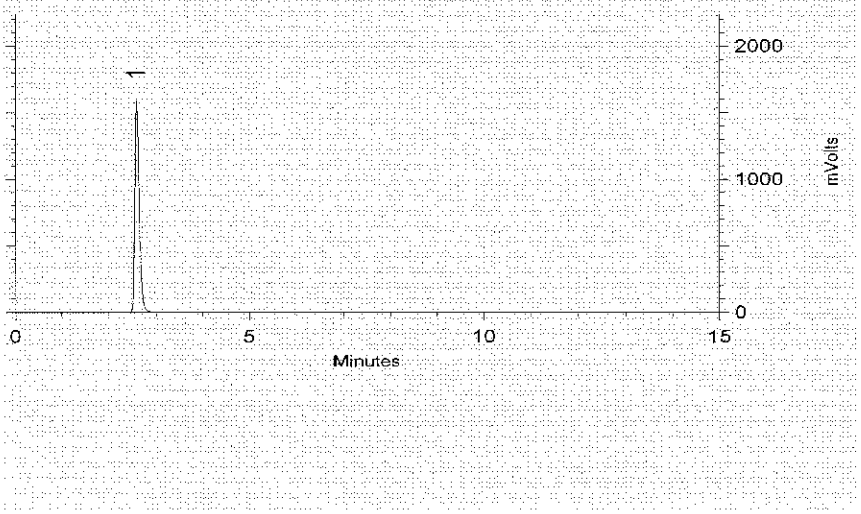
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 16-Sep-2010 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-6
Description: Nitroguanidine
Lot: 211111014
Solvent: Methanol

Date Certified: Nov 1, 2011
Expiration: Nov 1, 2013
Sample Size: 1 mL
Storage Condition: Freeze (<-10° C)
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroguanidine	556-88-7	100	100.5	100.5

Rcvd 5/25/12

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-6
Description: Nitroguanidine
Lot: 211111014
Solvent: Methanol

Date Certified: Nov 1, 2011
Expiration: Nov 1, 2013
Sample Size: 1 mL
Storage Condition: Freeze (<-10° C)
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroguanidine	556-88-7	100	100.5	100.5

Rcvd 5/25/12

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31499 **Lot No.:** A080173

Description : Picric Acid Standard

SV Mix, Picric Acid Standard, 1,000µg/ml, Methanol, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] February 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	% Grav.Uncert. (95% C.L.; K=2) [4]
1	Picric Acid	88-89-1	99%	1,000.0 ug/ml	+/-0.59 %
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

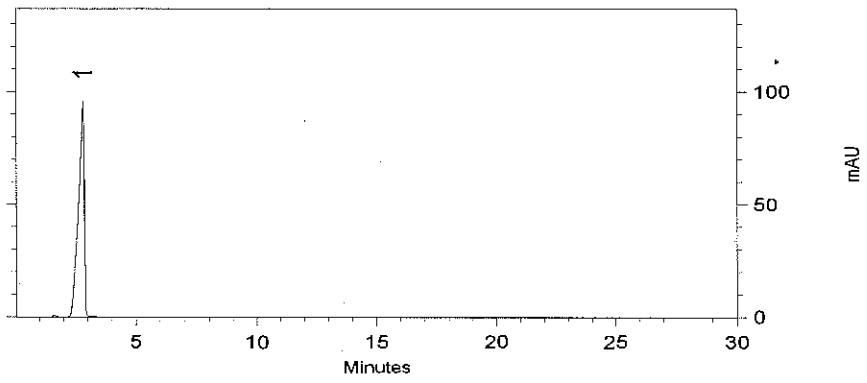
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Recvd: 8/11/11
Scanned: 8/30/11
WA 8/30/11

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31600 **Lot No.:** A081240

Description : PETN Standard

SV Mix, PETN Standard, 1,000µg/ml, Methanol, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] April 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	PETN	78-11-5	99%	1,000.0 ug/mL	+/- 5.9 ug/mL
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

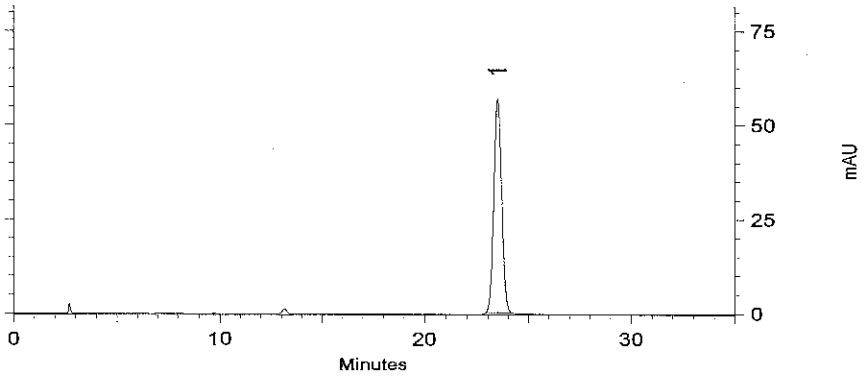
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Rcvd 8/28/12/mm

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31600 **Lot No.:** A085138

Description : PETN Standard

SV Mix, PETN Standard, 1,000µg/ml, Methanol, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] November 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	PETN	78-11-5	99%	1,000.0 ug/mL	+/- 5.8686 ug/mL
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

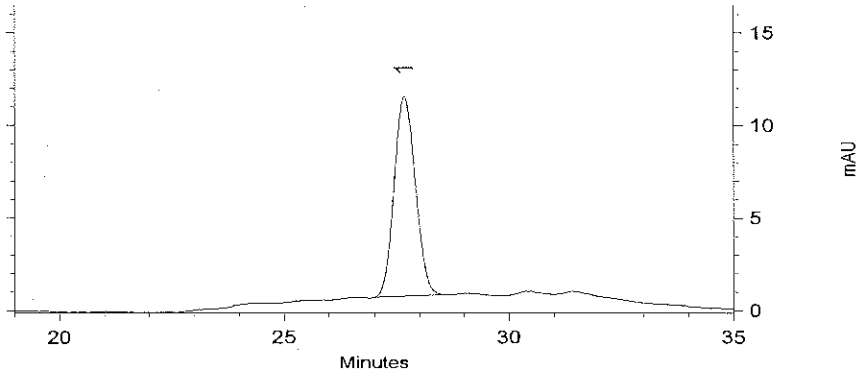
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 23-Nov-2011 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition is the last day of the month listed.

2A Purity and chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Purity value is rounded to the nearest whole number. See data pack or contact Restek for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory, as a custom ordered item. Contact your Restek sales or customer service representative for details.

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-22274-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAP	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAP	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAP	4	E871008
TestAmerica Pittsburgh	Illinois	NELAP	5	002602
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAP	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAP	1	203011
TestAmerica Pittsburgh	New Jersey	NELAP	2	PA005
TestAmerica Pittsburgh	New York	NELAP	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAP	3	02-00416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014
TestAmerica Pittsburgh	US Fish & Wildlife	Federal		LE94312A-1
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAP	8	STLP
TestAmerica Pittsburgh	Virginia	NELAP	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800
TestAmerica Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica Sacramento	Alaska (UST)	State Program	10	UST-055
TestAmerica Sacramento	Arizona	State Program	9	AZ0708
TestAmerica Sacramento	Arkansas DEQ	State Program	6	88-0691
TestAmerica Sacramento	California	NELAP	9	1119CA
TestAmerica Sacramento	Colorado	State Program	8	N/A
TestAmerica Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica Sacramento	Florida	NELAP	4	E87570
TestAmerica Sacramento	Guam	State Program	9	N/A
TestAmerica Sacramento	Hawaii	State Program	9	N/A
TestAmerica Sacramento	Illinois	NELAP	5	200060
TestAmerica Sacramento	Kansas	NELAP	7	E-10375
TestAmerica Sacramento	Louisiana	NELAP	6	30612
TestAmerica Sacramento	Michigan	State Program	5	9947

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-22274-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Sacramento	Nevada	State Program	9	CA44
TestAmerica Sacramento	New Jersey	NELAP	2	CA005
TestAmerica Sacramento	New York	NELAP	2	11666
TestAmerica Sacramento	Northern Mariana Islands	State Program	9	MP0007
TestAmerica Sacramento	Oregon	NELAP	10	CA200005
TestAmerica Sacramento	Pennsylvania	NELAP	3	68-01272
TestAmerica Sacramento	South Carolina	State Program	4	87014
TestAmerica Sacramento	Texas	NELAP	6	T104704399-08-TX
TestAmerica Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica Sacramento	USDA	Federal		P330-11-00436
TestAmerica Sacramento	USEPA UCMR	Federal	1	CA00044
TestAmerica Sacramento	Utah	NELAP	8	QUAN1
TestAmerica Sacramento	Washington	State Program	10	C581
TestAmerica Sacramento	West Virginia	State Program	3	9930C
TestAmerica Sacramento	West Virginia DEP	State Program	3	334
TestAmerica Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B DOD

Volatile Organic Compounds (GC/MS) by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-80302/5	91	99	99	97
	MRL 240-80302/31	91	103	98	92

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
079SD-0309-0001-SD	240-22274-2	89	99	109	116
	MB 240-80302/7	90	103	98	97
	LCS 240-80302/6	87	89	86	85

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	59-138
DCA = 1,2-Dichloroethane-d4 (Surr)	61-130
TOL = Toluene-d8 (Surr)	85-115
BFB = 4-Bromofluorobenzene (Surr)	85-120

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-79725/5	107	105	112	110
	MRL 240-79725/14	103	100	106	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
079SD-0194-0001-TB	240-22274-1	106	104	109	106
	MB 240-79725/6	101	103	109	105
	LCS 240-79725/4	109	103	110	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129316.D

Lab ID: LCS 240-79725/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2-Butanone (MEK)	40.0	34.7	87	30-150	
Acetone	40.0	33.8	85	40-140	
Benzene	20.0	19.0	95	80-120	
Bromoform	20.0	19.2	96	70-130	
Bromomethane	20.0	15.2	76	30-145	
Carbon disulfide	20.0	19.5	98	35-160	
Carbon tetrachloride	20.0	25.6	128	65-140	
1,1-Dichloroethane	20.0	19.3	96	70-135	
Chlorobenzene	20.0	19.5	97	80-120	
1,2-Dichloroethane	20.0	20.2	101	70-130	
Chloromethane	20.0	17.5	87	40-125	
1,1-Dichloroethene	20.0	19.1	95	70-130	
cis-1,3-Dichloropropene	20.0	18.8	94	70-130	
Dibromochloromethane	20.0	19.4	97	60-135	
1,2-Dichloropropane	20.0	19.0	95	75-125	
Bromodichloromethane	20.0	20.2	101	75-120	
Ethylbenzene	20.0	19.6	98	75-125	
2-Hexanone	40.0	34.6	87	55-130	
Methyl tert-butyl ether	20.0	17.8	89	65-125	
Methylene Chloride	20.0	19.7	98	55-140	
4-Methyl-2-pentanone (MIBK)	40.0	32.1	80	60-135	
Styrene	20.0	21.2	106	65-135	
1,1,2,2-Tetrachloroethane	20.0	18.1	90	65-130	
Tetrachloroethene	20.0	20.3	102	45-150	
Toluene	20.0	20.4	102	75-120	
Chloroform	20.0	18.9	95	65-135	
trans-1,3-Dichloropropene	20.0	20.4	102	55-140	
1,1,1-Trichloroethane	20.0	22.7	114	65-130	
Bromochloromethane	20.0	20.5	102	65-130	
1,1,2-Trichloroethane	20.0	18.2	91	75-125	
Trichloroethene	20.0	19.6	98	70-125	
Vinyl chloride	20.0	17.7	89	50-145	
Chloroethane	20.0	17.8	89	60-135	
Xylenes, Total	60.0	59.3	99	75-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 141706.D

Lab ID: LCS 240-80302/6 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2-Butanone (MEK)	100	99.1	99	30-160	
Acetone	100	110	110	20-160	
Benzene	50.0	45.2	90	75-125	
Bromoform	50.0	40.0	80	55-135	
Bromomethane	50.0	43.5	87	30-160	
Carbon disulfide	50.0	41.6	83	45-160	
Carbon tetrachloride	50.0	46.0	92	65-135	
1,1-Dichloroethane	50.0	45.1	90	75-125	
Chlorobenzene	50.0	43.1	86	75-125	
1,2-Dichloroethane	50.0	45.4	91	70-135	
Chloromethane	50.0	43.2	86	50-130	
1,1-Dichloroethene	50.0	48.5	97	65-135	
cis-1,3-Dichloropropene	50.0	40.0	80	70-125	
Dibromochloromethane	50.0	38.8	78	65-130	
1,2-Dichloropropane	50.0	45.5	91	70-120	
Bromodichloromethane	50.0	38.4	77	70-130	
Ethylbenzene	50.0	44.6	89	75-125	
2-Hexanone	100	93.4	93	45-145	
Methylene Chloride	50.0	47.1	94	55-140	
4-Methyl-2-pentanone (MIBK)	100	96.2	96	45-145	
Styrene	50.0	45.2	90	75-125	
1,1,2,2-Tetrachloroethane	50.0	48.8	98	55-130	
Tetrachloroethene	50.0	45.2	90	65-140	
Toluene	50.0	44.4	89	70-125	
Chloroform	50.0	46.0	92	70-125	
trans-1,3-Dichloropropene	50.0	40.7	81	65-125	
1,1,1-Trichloroethane	50.0	46.8	94	70-135	
Bromochloromethane	50.0	46.8	94	70-125	
1,1,2-Trichloroethane	50.0	46.2	92	60-125	
Trichloroethene	50.0	43.3	87	75-125	
Vinyl chloride	50.0	45.0	90	60-125	
Chloroethane	50.0	46.7	93	40-155	
Xylenes, Total	150	132	88	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129317.D

Lab ID: MRL 240-79725/5 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2-Butanone (MEK)	0.0100	0.00675 J	67	70-130	^
Acetone	0.0100	0.00824 J	82	70-130	
Benzene	0.00100	0.000966 J	97	70-130	
Bromoform	0.00100	0.000857 J	86	70-130	
Bromomethane	0.00100	0.000956 J	96	70-130	
Carbon disulfide	0.00100	0.000842 J	84	70-130	
Carbon tetrachloride	0.00100	0.00136	136	70-130	^
1,1-Dichloroethane	0.00100	0.000850 J	85	70-130	
Chlorobenzene	0.00100	0.000971 J	97	70-130	
1,2-Dichloroethane	0.00100	0.00115	115	70-130	
Chloromethane	0.00100	0.000984 J	98	70-130	
1,1-Dichloroethene	0.00100	0.000973 J	97	70-130	
cis-1,3-Dichloropropene	0.00100	0.000862 J	86	70-130	
Dibromochloromethane	0.00100	0.000769 J	77	70-130	
1,2-Dichloropropane	0.00100	0.000868 J	87	70-130	
Bromodichloromethane	0.00100	0.000830 J	83	70-130	
Ethylbenzene	0.00100	0.000957 J	96	70-130	
2-Hexanone	0.0100	0.00867 J	87	70-130	
Methyl tert-butyl ether	0.00100	0.000831 J	83	70-130	
Methylene Chloride	0.00100	0.00138	138	70-130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.00786 J	79	70-130	
Styrene	0.00100	0.000958 J	96	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.00109	109	70-130	
Tetrachloroethene	0.00100	0.00116	116	70-130	
Toluene	0.00100	0.00113	113	70-130	
Chloroform	0.00100	0.000796 J	80	70-130	
trans-1,3-Dichloropropene	0.00100	0.000805 J	81	70-130	
1,1,1-Trichloroethane	0.00100	0.000959 J	96	70-130	
Bromochloromethane	0.00100	0.000968 J	97	70-130	
1,1,2-Trichloroethane	0.00100	0.000795 J	80	70-130	
Trichloroethene	0.00100	0.000931 J	93	70-130	
Vinyl chloride	0.00100	0.000954 J	95	70-130	
Chloroethane	0.00100	0.00101	101	70-130	
Xylenes, Total	0.00300	0.00310	103	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129326.D

Lab ID: MRL 240-79725/14 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2-Butanone (MEK)	0.0100	0.00692 J	69	70-130	^
Acetone	0.0100	0.00654 J	65	70-130	^
Benzene	0.00100	0.000907 J	91	70-130	
Bromoform	0.00100	0.000641 J	64	70-130	^
Bromomethane	0.00100	0.00123	123	70-130	
Carbon disulfide	0.00100	0.000845 J	85	70-130	
Carbon tetrachloride	0.00100	0.000966 J	97	70-130	
1,1-Dichloroethane	0.00100	0.000803 J	80	70-130	
Chlorobenzene	0.00100	0.000923 J	92	70-130	
1,2-Dichloroethane	0.00100	0.00100	100	70-130	
Chloromethane	0.00100	0.00133	133	70-130	^
1,1-Dichloroethene	0.00100	0.000818 J	82	70-130	
cis-1,3-Dichloropropene	0.00100	0.000817 J	82	70-130	
Dibromochloromethane	0.00100	0.000975 J	97	70-130	
1,2-Dichloropropane	0.00100	0.000871 J	87	70-130	
Bromodichloromethane	0.00100	0.000900 J	90	70-130	
Ethylbenzene	0.00100	0.000840 J	84	70-130	
2-Hexanone	0.0100	0.00702 J	70	70-130	
Methyl tert-butyl ether	0.00100	0.000814 J	81	70-130	
Methylene Chloride	0.00100	0.00150	150	70-130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.00664 J	66	70-130	^
Styrene	0.00100	0.000848 J	85	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.000888 J	89	70-130	
Tetrachloroethene	0.00100	0.00101	101	70-130	
Toluene	0.00100	0.000966 J	97	70-130	
Chloroform	0.00100	0.000920 J	92	70-130	
trans-1,3-Dichloropropene	0.00100	0.000873 J	87	70-130	
1,1,1-Trichloroethane	0.00100	0.000953 J	95	70-130	
Bromochloromethane	0.00100	0.000990 J	99	70-130	
1,1,2-Trichloroethane	0.00100	0.000755 J	75	70-130	
Trichloroethene	0.00100	0.000718 J	72	70-130	
Vinyl chloride	0.00100	0.00133	133	70-130	^
Chloroethane	0.00100	0.00129	129	70-130	
Xylenes, Total	0.00300	0.00263	88	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 141705.D

Lab ID: MRL 240-80302/5 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2-Butanone (MEK)	0.0100	0.00833 J	83	70-130	
Acetone	0.0100	0.0129	129	70-130	
Benzene	0.00500	0.00449	90	70-130	
Bromoform	0.00500	0.00535	107	70-130	
Bromomethane	0.00500	0.00550	110	70-130	
Carbon disulfide	0.00500	0.00561	112	70-130	
Carbon tetrachloride	0.00500	0.00357	71	70-130	
1,1-Dichloroethane	0.00500	0.00432	86	70-130	
Chlorobenzene	0.00500	0.00439	88	70-130	
1,2-Dichloroethane	0.00500	0.00457	91	70-130	
Chloromethane	0.00500	0.00508	102	70-130	
1,1-Dichloroethene	0.00500	0.00432	86	70-130	
cis-1,3-Dichloropropene	0.00500	0.00382	76	70-130	
Dibromochloromethane	0.00500	0.00576	115	70-130	
1,2-Dichloropropane	0.00500	0.00461	92	70-130	
Bromodichloromethane	0.00500	0.00379	76	70-130	
Ethylbenzene	0.00500	0.00465	93	70-130	
2-Hexanone	0.0100	0.00795 J	80	70-130	
Methylene Chloride	0.00500	0.00939	188	70-130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.00813 J	81	70-130	
Styrene	0.00500	0.00411	82	70-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00425	85	70-130	
Tetrachloroethene	0.00500	0.00465	93	70-130	
Toluene	0.00500	0.00461	92	70-130	
Chloroform	0.00500	0.00427	85	70-130	
trans-1,3-Dichloropropene	0.00500	0.00363	73	70-130	
1,1,1-Trichloroethane	0.00500	0.00407	81	70-130	
Bromochloromethane	0.00500	0.00445	89	70-130	
1,1,2-Trichloroethane	0.00500	0.00451	90	70-130	
Trichloroethene	0.00500	0.00440	88	70-130	
Vinyl chloride	0.00500	0.00487	97	70-130	
Chloroethane	0.00500	0.00507	101	70-130	
Xylenes, Total	0.0100	0.00879	88	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 141731.D

Lab ID: MRL 240-80302/31 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2-Butanone (MEK)	0.0100	0.00984 J	98	70-130	
Acetone	0.0100	0.0141	141	70-130	^
Benzene	0.00500	0.00560	112	70-130	
Bromoform	0.00500	0.00584	117	70-130	
Bromomethane	0.00500	0.00628	126	70-130	
Carbon disulfide	0.00500	0.00597	119	70-130	
Carbon tetrachloride	0.00500	0.00408	82	70-130	
1,1-Dichloroethane	0.00500	0.00532	106	70-130	
Chlorobenzene	0.00500	0.00547	109	70-130	
1,2-Dichloroethane	0.00500	0.00574	115	70-130	
Chloromethane	0.00500	0.00584	117	70-130	
1,1-Dichloroethene	0.00500	0.00542	108	70-130	
cis-1,3-Dichloropropene	0.00500	0.00425	85	70-130	
Dibromochloromethane	0.00500	0.00612	122	70-130	
1,2-Dichloropropane	0.00500	0.00551	110	70-130	
Bromodichloromethane	0.00500	0.00432	86	70-130	
Ethylbenzene	0.00500	0.00546	109	70-130	
2-Hexanone	0.0100	0.00999 J	100	70-130	
Methylene Chloride	0.00500	0.00791	158	70-130	^
4-Methyl-2-pentanone (MIBK)	0.0100	0.0104	104	70-130	
Styrene	0.00500	0.00493	99	70-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00597	119	70-130	
Tetrachloroethene	0.00500	0.00565	113	70-130	
Toluene	0.00500	0.00542	108	70-130	
Chloroform	0.00500	0.00530	106	70-130	
trans-1,3-Dichloropropene	0.00500	0.00388	78	70-130	
1,1,1-Trichloroethane	0.00500	0.00497	99	70-130	
Bromochloromethane	0.00500	0.00518	104	70-130	
1,1,2-Trichloroethane	0.00500	0.00564	113	70-130	
Trichloroethene	0.00500	0.00549	110	70-130	
Vinyl chloride	0.00500	0.00587	117	70-130	
Chloroethane	0.00500	0.00708	142	70-130	^
Xylenes, Total	0.0100	0.0106	106	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: 141707.D Lab Sample ID: MB 240-80302/7

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: A3UX14 Date Analyzed: 04/02/2013 16:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-80302/6	141706.D	04/02/2013 16:00
079SD-0309-0001-SD	240-22274-2	141708.D	04/02/2013 16:58

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: UX129318.D Lab Sample ID: MB 240-79725/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 03/28/2013 10:55

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-79725/4	UX129316.D	03/28/2013 10:02
079SD-0194-0001-TB	240-22274-1	UX129321.D	03/28/2013 12:14

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: BFB2145.D BFB Injection Date: 03/19/2013

Instrument ID: A3UX12 BFB Injection Time: 17:39

Analysis Batch No.: 78761

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	73.0	
175	5.0 - 9.0 % of mass 174	5.0	(6.8)1
176	95.0 - 101.0 % of mass 174	71.0	(97.3)1
177	5.0 - 9.0 % of mass 176	5.0	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-78761/3	UX129104.D	03/19/2013	18:52
	STD8260 240-78761/4	UX129105.D	03/19/2013	19:19
	STD8260 240-78761/5	UX129106.D	03/19/2013	19:45
	STD8260 240-78761/6	UX129107.D	03/19/2013	20:12
	STD8260 240-78761/7	UX129108.D	03/19/2013	20:38
	STD8260 240-78761/8	UX129109.D	03/19/2013	21:04
	ICV 240-78761/9	UX129110.D	03/19/2013	21:32

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: BFB2151.D BFB Injection Date: 03/28/2013

Instrument ID: A3UX12 BFB Injection Time: 08:11

Analysis Batch No.: 79725

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	72.6	
175	5.0 - 9.0 % of mass 174	6.0	(8.3)1
176	95.0 - 101.0 % of mass 174	69.6	(95.9)1
177	5.0 - 9.0 % of mass 176	5.0	(7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-79725/2	UX129315.D	03/28/2013	09:36
	LCS 240-79725/4	UX129316.D	03/28/2013	10:02
	MRL 240-79725/5	UX129317.D	03/28/2013	10:29
	MB 240-79725/6	UX129318.D	03/28/2013	10:55
079SD-0194-0001-TB	240-22274-1	UX129321.D	03/28/2013	12:14
	MRL 240-79725/14	UX129326.D	03/28/2013	14:26
	LODV 240-79725/16	UX129328.D	03/28/2013	15:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: BFB14383.D BFB Injection Date: 04/01/2013

Instrument ID: A3UX14 BFB Injection Time: 13:20

Analysis Batch No.: 80127

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	
75	30.0 - 60.0 % of mass 95	47.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	82.0	
175	5.0 - 9.0 % of mass 174	6.1	(7.4)1
176	95.0 - 101.0 % of mass 174	78.6	(95.7)1
177	5.0 - 9.0 % of mass 176	5.1	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 240-80127/3	141665.D	04/01/2013	14:03
	IC 240-80127/4	141666.D	04/01/2013	14:25
	IC 240-80127/5	141667.D	04/01/2013	14:46
	ICIS 240-80127/6	141668.D	04/01/2013	15:08
	IC 240-80127/7	141669.D	04/01/2013	15:29
	IC 240-80127/8	141670.D	04/01/2013	15:51
	IC 240-80127/9	141671.D	04/01/2013	16:12
	IC 240-80127/10	141672.D	04/01/2013	16:34
	IC 240-80127/11	141673.D	04/01/2013	16:55
	ICV 240-80127/21	141683.D	04/01/2013	20:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: BFB14385.D BFB Injection Date: 04/02/2013

Instrument ID: A3UX14 BFB Injection Time: 14:12

Analysis Batch No.: 80302

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.6	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	84.2	
175	5.0 - 9.0 % of mass 174	6.0	(7.2)1
176	95.0 - 101.0 % of mass 174	80.2	(95.2)1
177	5.0 - 9.0 % of mass 176	5.5	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-80302/3	141703.D	04/02/2013	14:55
	CCV 240-80302/4	141704.D	04/02/2013	15:17
	MRL 240-80302/5	141705.D	04/02/2013	15:38
	LCS 240-80302/6	141706.D	04/02/2013	16:00
	MB 240-80302/7	141707.D	04/02/2013	16:21
079SD-0309-0001-SD	240-22274-2	141708.D	04/02/2013	16:58
	MRL 240-80302/31	141731.D	04/03/2013	01:12

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: STD8260 240-78761/6 Date Analyzed: 03/19/2013 20:12

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX129107.D Heated Purge: (Y/N) N

Calibration ID: 14180

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1625112	5.33	1252380	8.00	586319	10.24
UPPER LIMIT		3250224	5.83	2504760	8.50	1172638	10.74
LOWER LIMIT		812556	4.83	626190	7.50	293160	9.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-78761/9		1642021	5.33	1253876	8.00	594297	10.24
CCV 240-79725/2		1705438	5.32	1258697	8.00	612869	10.23
LCS 240-79725/4		1659289	5.33	1231555	8.00	591377	10.23
MRL 240-79725/5		1624775	5.33	1192131	8.00	561153	10.23
MB 240-79725/6		1681282	5.32	1222361	8.00	567766	10.23
240-22274-1	079SD-0194-0001-TB	1671745	5.33	1215939	8.00	566557	10.23
MRL 240-79725/14		1721180	5.33	1262794	8.00	582422	10.24

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: ICIS 240-80127/6 Date Analyzed: 04/01/2013 15:08

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 141668.D Heated Purge: (Y/N) Y

Calibration ID: 14354

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1285361	6.93	847501	9.64	381352	11.61
UPPER LIMIT		2570722	7.43	1695002	10.14	762704	12.11
LOWER LIMIT		642681	6.43	423751	9.14	190676	11.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-80127/21		1276199	6.93	859219	9.64	404592	11.61
CCV 240-80302/3		1188120	6.93	802228	9.64	374148	11.61
CCV 240-80302/4		1234591	6.93	800247	9.64	356652	11.61
MRL 240-80302/5		1254745	6.93	818251	9.64	371725	11.61
LCS 240-80302/6		1177838	6.93	795972	9.64	356899	11.61
MB 240-80302/7		1173521	6.93	784575	9.64	351562	11.61
240-22274-2	079SD-0309-0001-SD	1133566	6.93	699096	9.64	249960	11.61
MRL 240-80302/31		1054750	6.93	694380	9.64	316483	11.61

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0194-0001-TB | Lab Sample ID: 240-22274-1

Matrix: Water | Lab File ID: UX129321.D

Analysis Method: 8260B/DoD | Date Collected: 03/20/2013 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 12:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 79725 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.25	U	1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	0.25	U	1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	0.25	U	1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	0.50	U	2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	0.57	U	10	0.57	0.57
591-78-6	2-Hexanone	0.50	U	10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	U	10	0.50	0.32
67-64-1	Acetone	6.4	J	10	1.1	1.1
71-43-2	Benzene	0.25	U	1.0	0.25	0.13
75-25-2	Bromoform	0.64	U	1.0	0.64	0.64
74-83-9	Bromomethane	0.50	U	1.0	0.50	0.41
75-15-0	Carbon disulfide	0.25	U	1.0	0.25	0.13
56-23-5	Carbon tetrachloride	0.25	U	1.0	0.25	0.13
108-90-7	Chlorobenzene	0.25	U	1.0	0.25	0.15
74-87-3	Chloromethane	0.50	U	1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	0.25	U	1.0	0.25	0.14
124-48-1	Dibromochloromethane	0.25	U	1.0	0.25	0.18
75-27-4	Bromodichloromethane	0.25	U	1.0	0.25	0.15
100-41-4	Ethylbenzene	0.25	U	1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	0.25	U	1.0	0.25	0.17
75-09-2	Methylene Chloride	0.97	J	1.0	0.50	0.33
100-42-5	Styrene	0.25	U	1.0	0.25	0.11
127-18-4	Tetrachloroethene	0.50	U	1.0	0.50	0.29
108-88-3	Toluene	0.25	U	1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	0.25	U	1.0	0.25	0.19
79-01-6	Trichloroethene	0.25	U	1.0	0.25	0.17
75-01-4	Vinyl chloride	0.25	U	1.0	0.25	0.22
1330-20-7	Xylenes, Total	0.75	U	2.0	0.75	0.28
67-66-3	Chloroform	0.25	U	1.0	0.25	0.16
74-97-5	Bromochloromethane	0.50	U	1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	0.25	U	1.0	0.25	0.24
75-00-3	Chloroethane	0.50	U	1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0194-0001-TB Lab Sample ID: 240-22274-1

Matrix: Water Lab File ID: UX129321.D

Analysis Method: 8260B/DoD Date Collected: 03/20/2013 08:00

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 12:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-120
460-00-4	4-Bromofluorobenzene (Surr)	106		75-120
1868-53-7	Dibromofluoromethane (Surr)	106		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129321.D
Lims ID: 240-22274-A-1 Client ID: 079SD-0194-0001-TB
Inject. Date: 28-Mar-2013 12:14:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0018335-009
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 9
Lims Batch ID: 79725 Lims Sample ID: 9
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1671745	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1215939	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	95	566557	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	56	383980	21.1	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	90	456901	20.9	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	92	1588688	21.8	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	561775	21.2	
13 Chloromethane	50		1.795					
14 Vinyl chloride	62		1.902					
15 Bromomethane	94		2.198					
16 Chloroethane	64		2.304					
22 Acetone	43	2.955	2.955	0.0	97	38619	6.44	
21 1,1-Dichloroethene	61		2.955					
26 Carbon disulfide	76		3.156					
30 Methylene Chloride	49	3.369	3.369	0.0	79	47080	0.9726	
34 Methyl tert-butyl ether	73		3.547					
33 trans-1,2-Dichloroethene	61		3.559					
36 1,1-Dichloroethane	63		3.902					
42 cis-1,2-Dichloroethene	61		4.375					
41 2-Butanone (MEK)	72		4.375					
47 Chlorobromomethane	49		4.576					
49 Chloroform	83		4.624					
50 1,1,1-Trichloroethane	97		4.801					
53 Carbon tetrachloride	117		4.943					
55 Benzene	78		5.109					
56 1,2-Dichloroethane	62		5.109					
60 Trichloroethene	130		5.641					
62 1,2-Dichloropropane	63		5.830					
67 Dichlorobromomethane	83		6.055					
70 cis-1,3-Dichloropropene	75		6.434					
71 4-Methyl-2-pentanone (MIBK)	43		6.564					9
72 Toluene	91		6.742					

	Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
73	trans-1,3-Dichloropropene	75		6.919					
75	1,1,2-Trichloroethane	97		7.097					
77	Tetrachloroethene	166		7.239					
78	2-Hexanone	43		7.298					
79	Chlorodibromomethane	129		7.463					
123	Ethylene Dibromide	107		7.570					
82	Chlorobenzene	112		8.020					
84	Ethylbenzene	106		8.114					
10	m-Xylene & p-Xylene	106		8.221					
85	o-Xylene	106		8.599					
86	Styrene	104		8.611					
87	Bromoform	173		8.801					
90	1,1,2,2-Tetrachloroethane	83		9.227					
S 11	1,2-Dichloroethene, Total	96		1.140					
S 114	Xylenes, Total	106		16.530					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

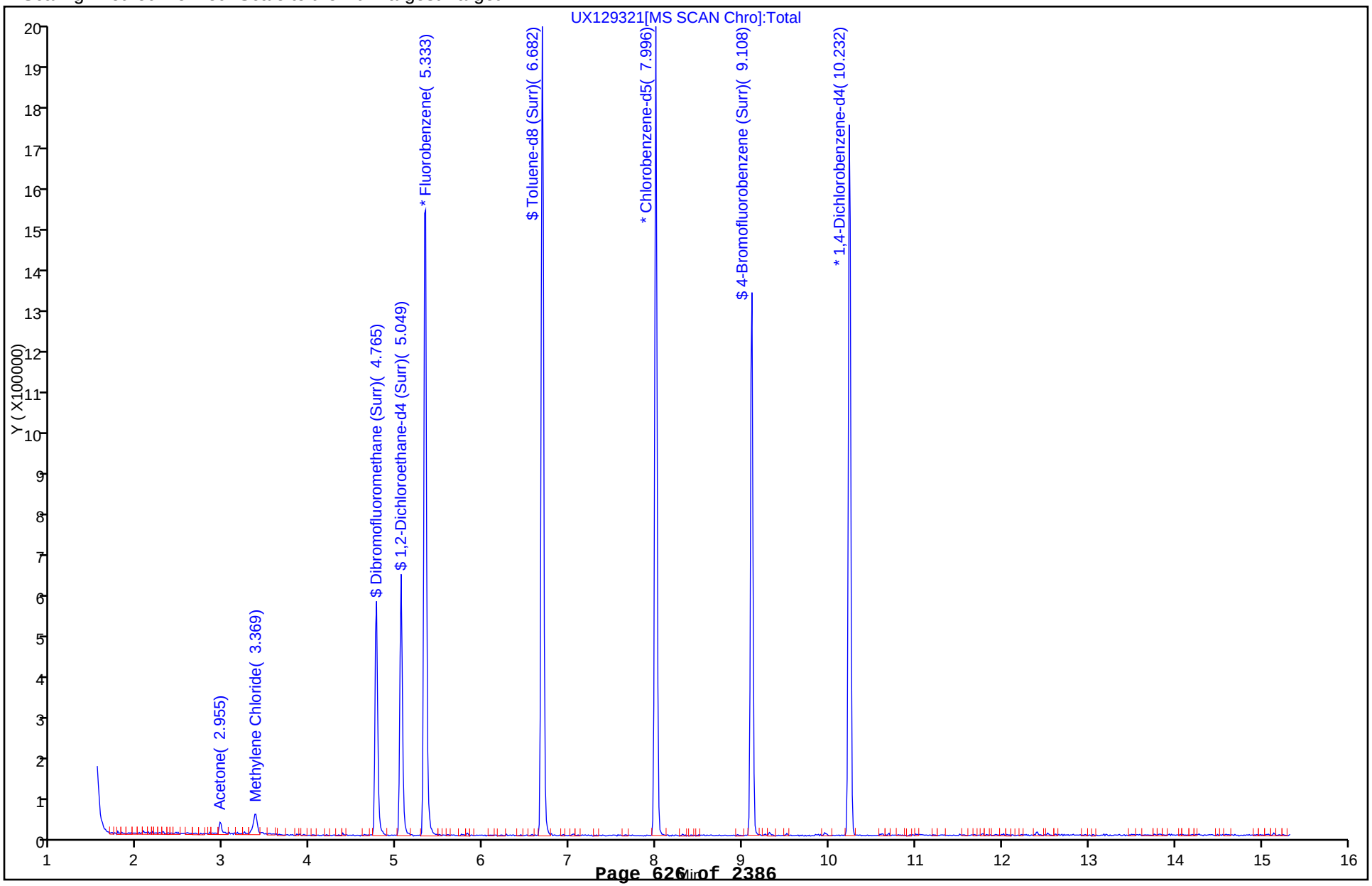
Report Date: 29-Mar-2013 09:09:30 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129321.D

Injection Date:	28-Mar-2013 12:14:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0194-0001-TB	Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



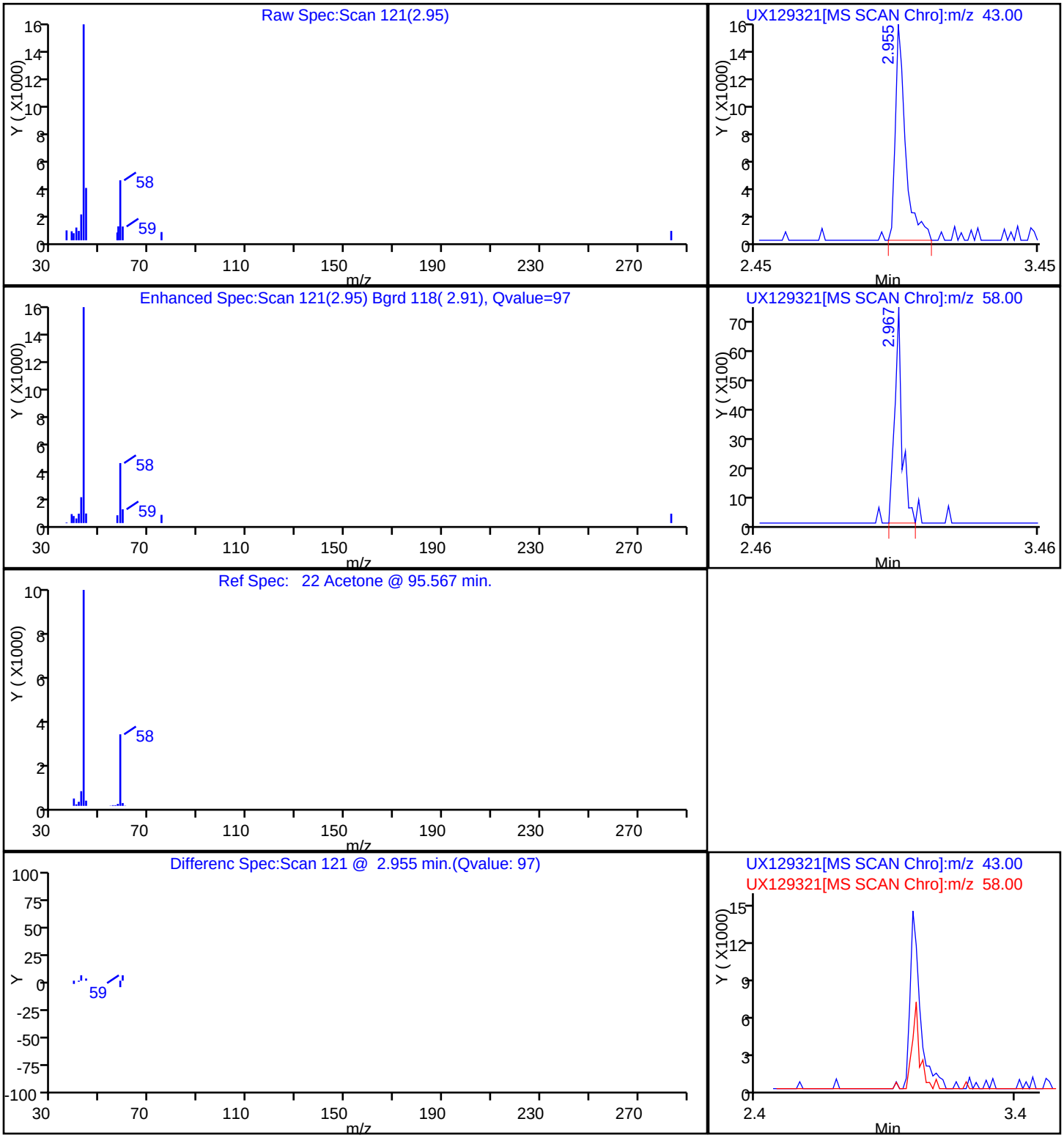
Report Date: 29-Mar-2013 09:09:30 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129321.D

Injection Date:	28-Mar-2013 12:14:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0194-0001-TB	Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

22 Acetone



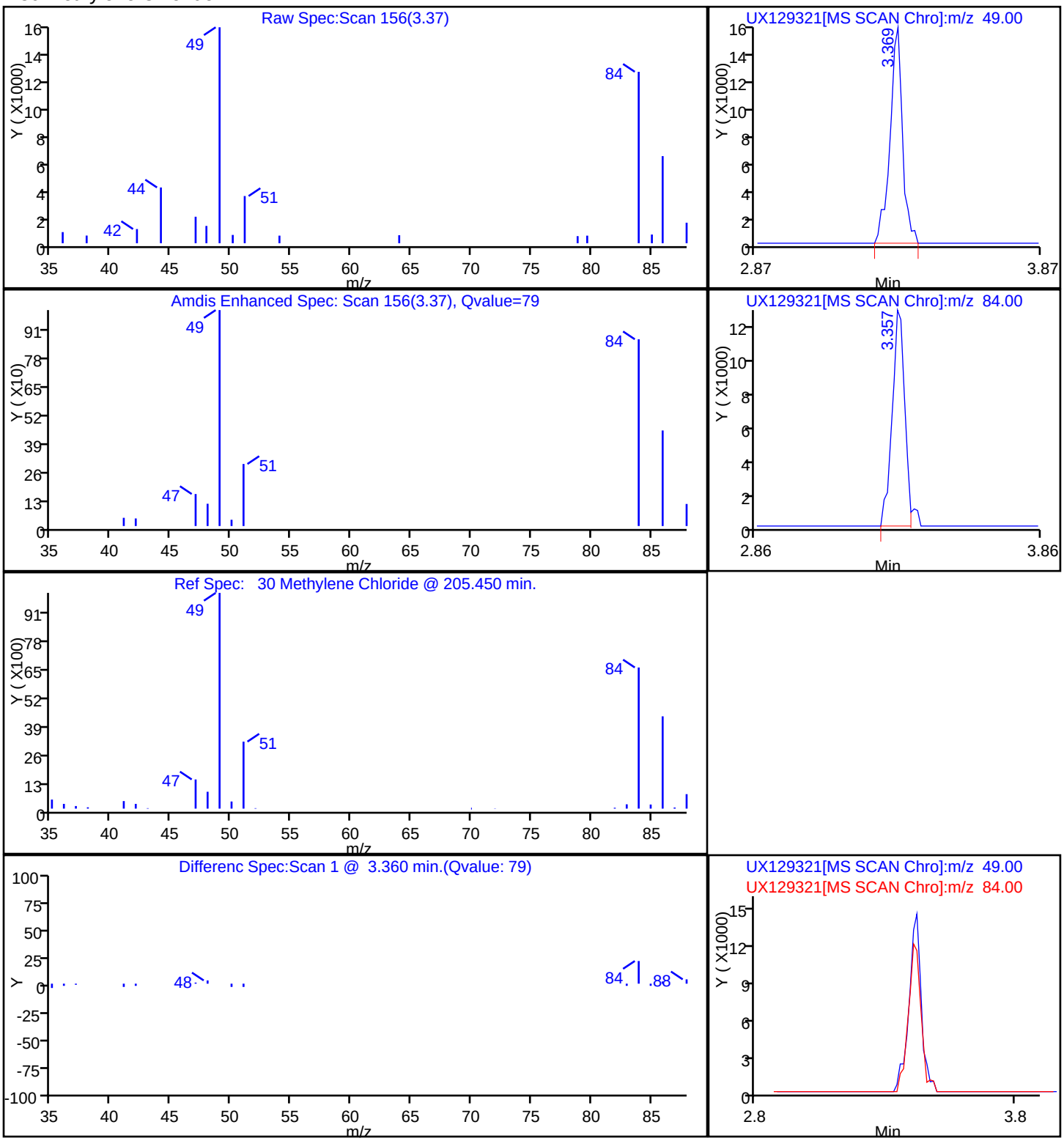
Report Date: 29-Mar-2013 09:09:30 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129321.D

Injection Date:	28-Mar-2013 12:14:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0194-0001-TB	Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD | Lab Sample ID: 240-22274-2

Matrix: Solid | Lab File ID: 141708.D

Analysis Method: 8260B/DoD | Date Collected: 03/20/2013 11:30

Sample wt/vol: 5.524(g) | Date Analyzed: 04/02/2013 16:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 26.3 | Level: (low/med) Low

Analysis Batch No.: 80302 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-64-1	Acetone	54		25	7.7	7.7
71-43-2	Benzene	0.61	U	6.1	0.61	0.28
74-97-5	Bromochloromethane	1.2	U	6.1	1.2	0.87
75-27-4	Bromodichloromethane	0.61	U	6.1	0.61	0.34
75-25-2	Bromoform	0.61	U	6.1	0.61	0.41
74-83-9	Bromomethane	1.2	U	6.1	1.2	0.66
78-93-3	2-Butanone (MEK)	11	J	25	2.5	1.7
75-15-0	Carbon disulfide	4.1	J	6.1	0.61	0.54
56-23-5	Carbon tetrachloride	0.61	U	6.1	0.61	0.45
108-90-7	Chlorobenzene	0.61	U	6.1	0.61	0.41
75-00-3	Chloroethane	1.2	U	6.1	1.2	1.1
67-66-3	Chloroform	0.61	U	6.1	0.61	0.36
74-87-3	Chloromethane	0.61	U	6.1	0.61	0.50
10061-01-5	cis-1,3-Dichloropropene	0.61	U	6.1	0.61	0.42
124-48-1	Dibromochloromethane	1.2	U	6.1	1.2	0.68
106-93-4	1,2-Dibromoethane	1.2	U	6.1	1.2	0.61
75-34-3	1,1-Dichloroethane	0.61	U	6.1	0.61	0.44
107-06-2	1,2-Dichloroethane	0.61	U	6.1	0.61	0.42
75-35-4	1,1-Dichloroethene	1.2	U	6.1	1.2	0.64
540-59-0	1,2-Dichloroethene, Total	1.2	U	12	1.2	0.95
78-87-5	1,2-Dichloropropane	1.2	U	6.1	1.2	0.85
100-41-4	Ethylbenzene	0.61	U	6.1	0.61	0.32
591-78-6	2-Hexanone	1.2	U	25	1.2	0.77
75-09-2	Methylene Chloride	1.9	J B	6.1	1.2	0.82
108-10-1	4-Methyl-2-pentanone (MIBK)	1.2	U	25	1.2	0.66
100-42-5	Styrene	0.61	U	6.1	0.61	0.18
79-34-5	1,1,2,2-Tetrachloroethane	0.61	U	6.1	0.61	0.42
127-18-4	Tetrachloroethene	1.2	U	6.1	1.2	0.64
108-88-3	Toluene	0.61	U	6.1	0.61	0.33
10061-02-6	trans-1,3-Dichloropropene	1.2	U	6.1	1.2	0.66
71-55-6	1,1,1-Trichloroethane	1.2	U	6.1	1.2	0.69
79-00-5	1,1,2-Trichloroethane	0.61	U	6.1	0.61	0.48
79-01-6	Trichloroethene	0.61	U	6.1	0.61	0.52
75-01-4	Vinyl chloride	0.61	U	6.1	0.61	0.48
1330-20-7	Xylenes, Total	1.8	U	12	1.8	0.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: 141708.D

Analysis Method: 8260B/DoD Date Collected: 03/20/2013 11:30

Sample wt/vol: 5.524(g) Date Analyzed: 04/02/2013 16:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 26.3 Level: (low/med) Low

Analysis Batch No.: 80302 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	116		85-120
1868-53-7	Dibromofluoromethane (Surr)	89		59-138
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		61-130
2037-26-5	Toluene-d8 (Surr)	109		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141708.D
Lims ID: 240-22274-C-2-A Client ID: 079SD-0309-0001-SD
Inject. Date: 02-Apr-2013 16:58:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-22274-c-2-a
Misc. Info.: 240-0018475-008 =240-0018475-008
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 80302 Lims Sample ID: 8
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 18:00:57

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1133566	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	88	699096	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	98	249960	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.258	0.0	59	269441	44.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.589	6.601	-0.012	94	325631	49.4	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1141643	54.3	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	91	310054	57.9	
13 Chloromethane	50		1.643					9
14 Vinyl chloride	62		1.761					
15 Bromomethane	94		2.104					9
16 Chloroethane	64		2.222					
21 1,1-Dichloroethene	96		3.205					
22 Acetone	43	3.311	3.311	0.0	98	72529	43.9	
26 Carbon disulfide	76	3.477	3.477	0.0	87	4778	3.37	
30 Methylene Chloride	84	3.950	3.950	0.0	88	9240	1.51	
33 trans-1,2-Dichloroethene	96		4.388					
34 Methyl tert-butyl ether	73		4.412					
36 1,1-Dichloroethane	63		4.980					
42 cis-1,2-Dichloroethene	96		5.713					
41 2-Butanone (MEK)	43	5.749	5.749	0.0	40	20715	8.98	
47 Chlorobromomethane	128		5.974					
49 Chloroform	83		6.080					9
50 1,1,1-Trichloroethane	97		6.258					
53 Carbon tetrachloride	117		6.435					
55 Benzene	78		6.648					9
56 1,2-Dichloroethane	62		6.672					
60 Trichloroethene	130		7.287					9
62 1,2-Dichloropropane	63		7.500					9
67 Dichlorobromomethane	83		7.760					
70 cis-1,3-Dichloropropene	75		8.163					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
71 4-Methyl-2-pentanone (MIBK)	43		8.293					9
72 Toluene	91	8.447	8.458	-0.011	59	5336	0.2265	
73 trans-1,3-Dichloropropene	75		8.648					9
75 1,1,2-Trichloroethane	97		8.802					9
77 Tetrachloroethene	164		8.932					
78 2-Hexanone	43		9.015					9
79 Chlorodibromomethane	129		9.145					
123 Ethylene Dibromide	107		9.239					
82 Chlorobenzene	112		9.665					9
84 Ethylbenzene	106	9.760	9.748	0.012	43	1032	0.1308	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	91	3102	0.3189	
85 o-Xylene	106	10.186	10.186	0.0	36	945	0.1027	
86 Styrene	104	10.198	10.198	0.0	51	1784	0.1260	
87 Bromoform	173		10.364					
90 1,1,2,2-Tetrachloroethane	83		10.742					
S 11 1,2-Dichloroethene, Total	96		1.140					
S 114 Xylenes, Total	106				0		0.4216	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

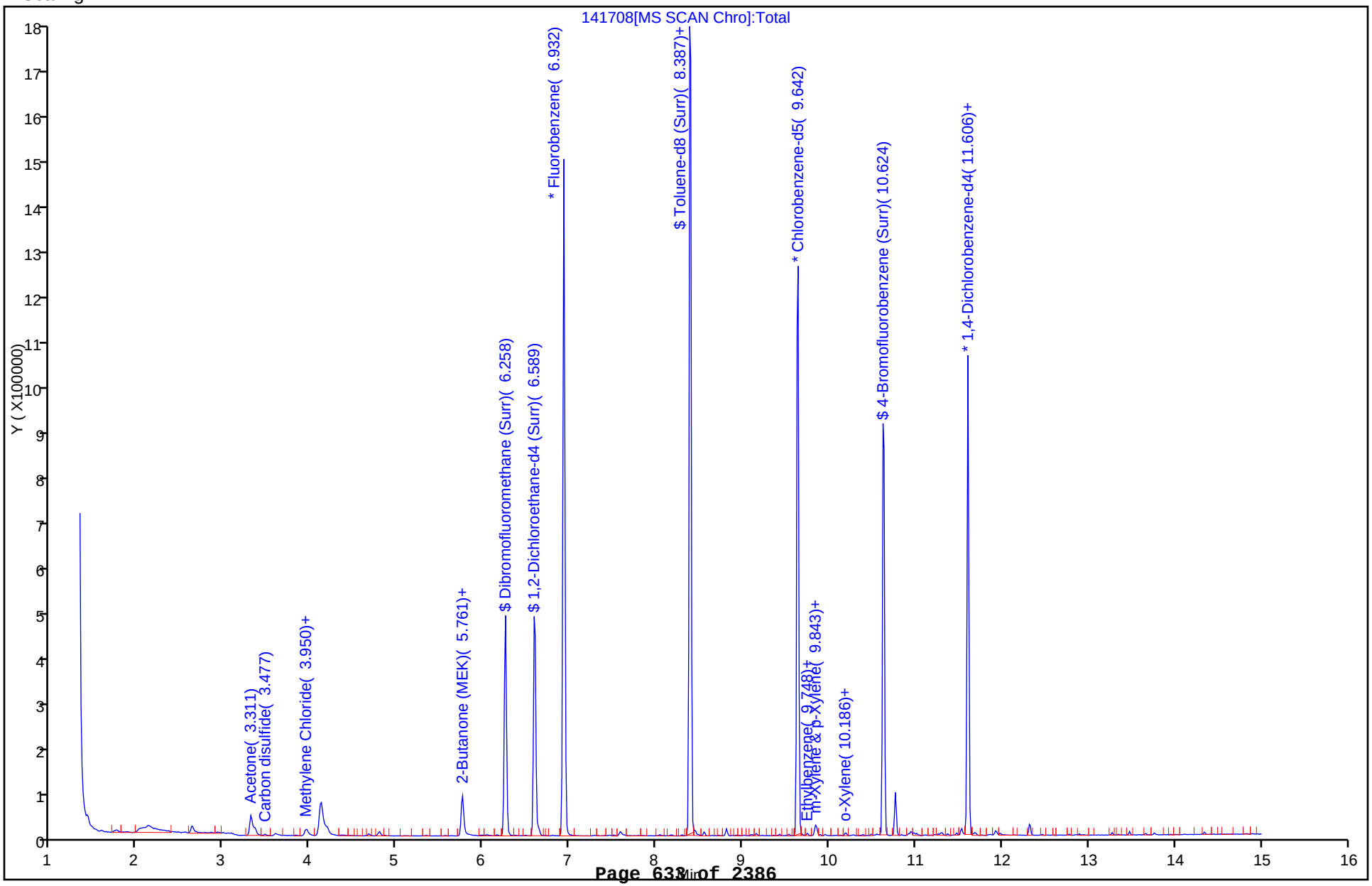
Report Date: 03-Apr-2013 14:23:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141708.D

Injection Date:	02-Apr-2013 16:58:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	8
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



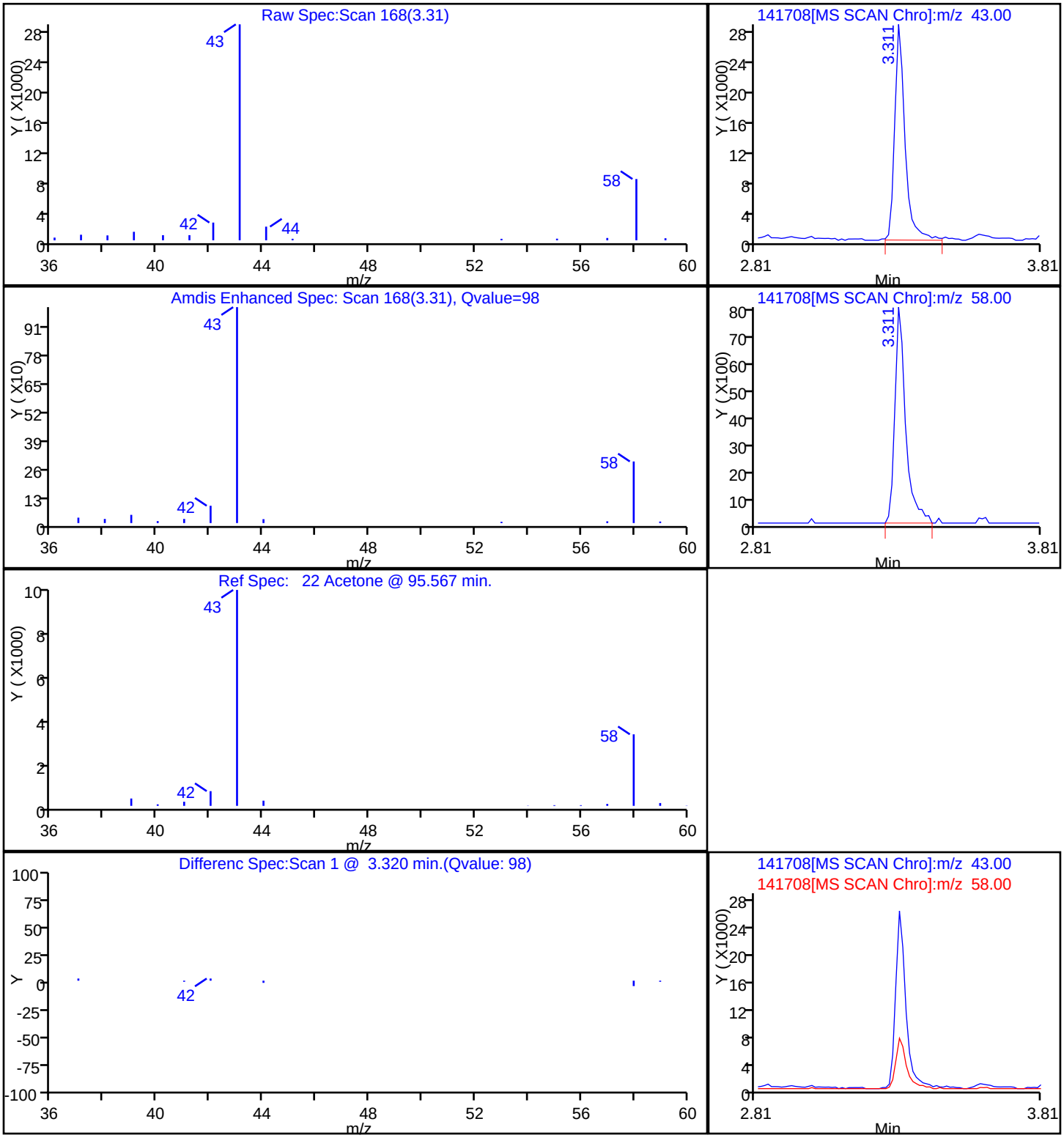
Report Date: 03-Apr-2013 14:23:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141708.D

Injection Date:	02-Apr-2013 16:58:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	8
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

22 Acetone



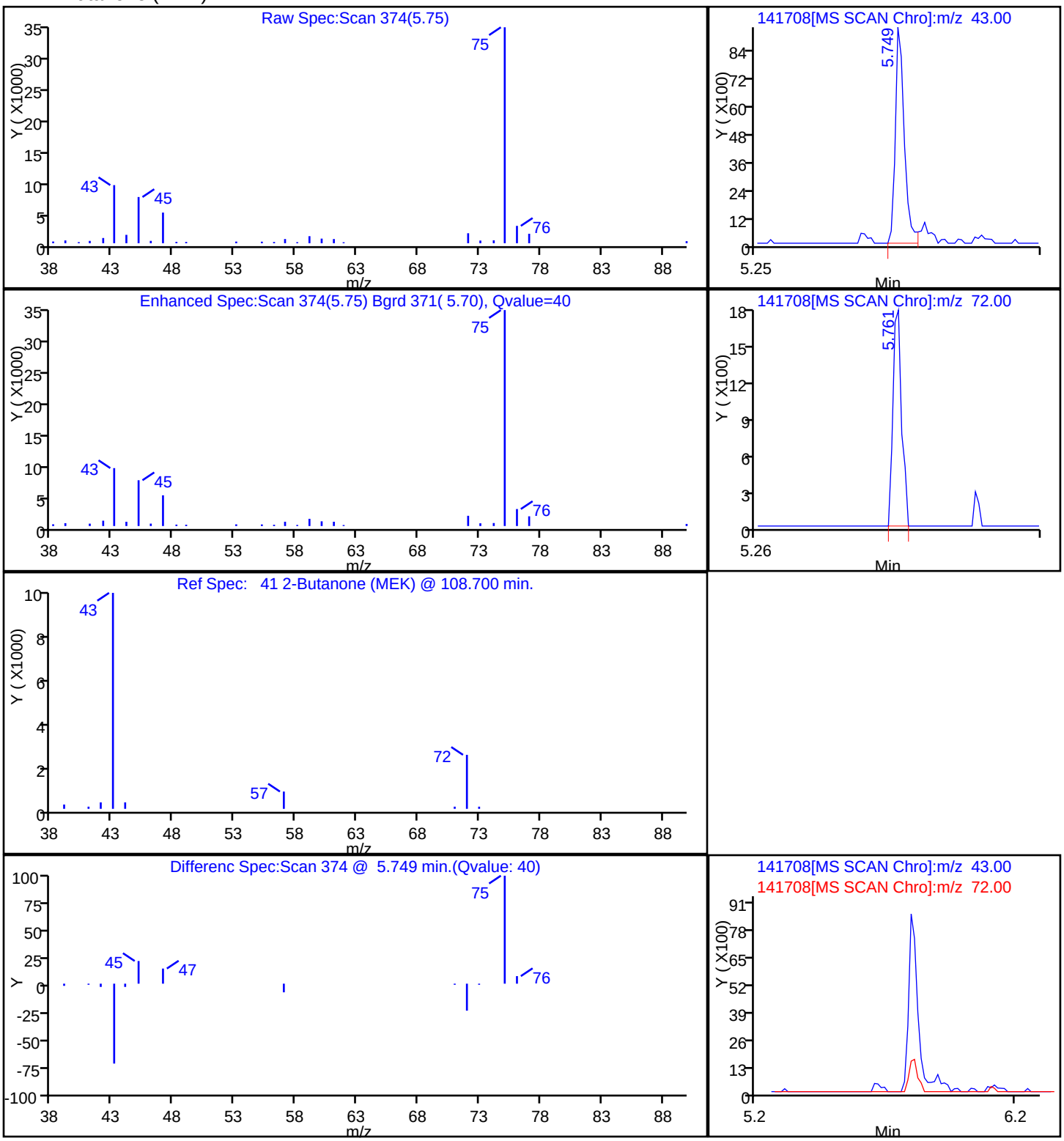
Report Date: 03-Apr-2013 14:23:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141708.D

Injection Date:	02-Apr-2013 16:58:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	8
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

41 2-Butanone (MEK)



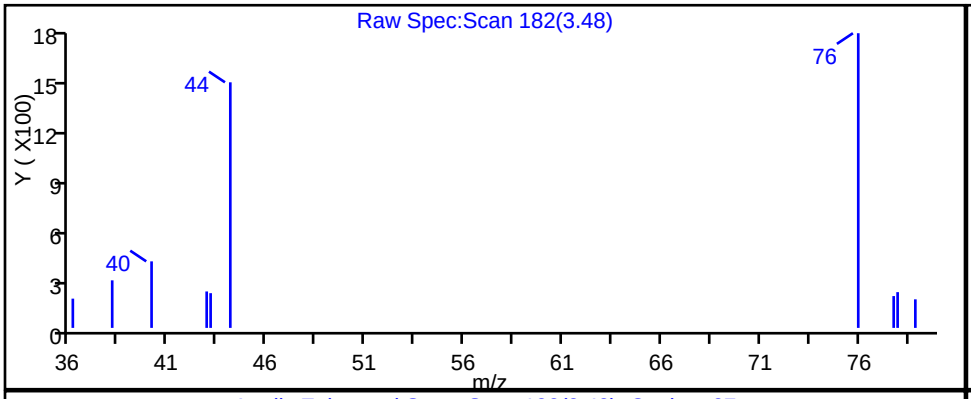
Report Date: 03-Apr-2013 14:23:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

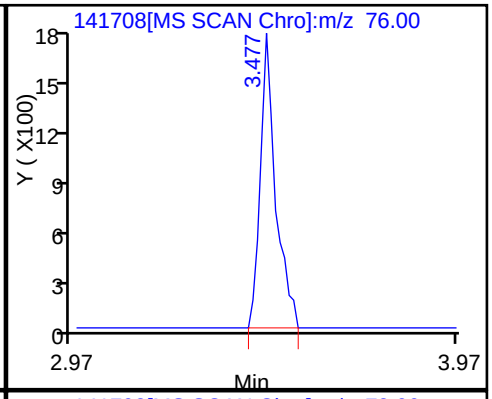
TestAmerica Canton

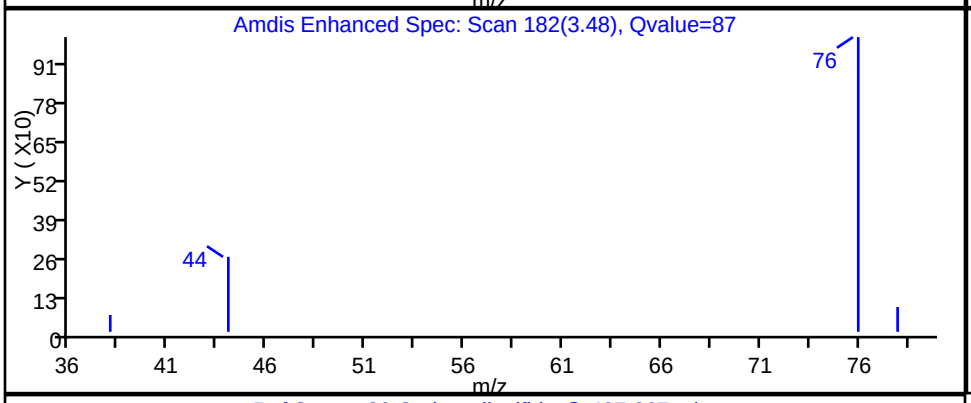
Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141708.D

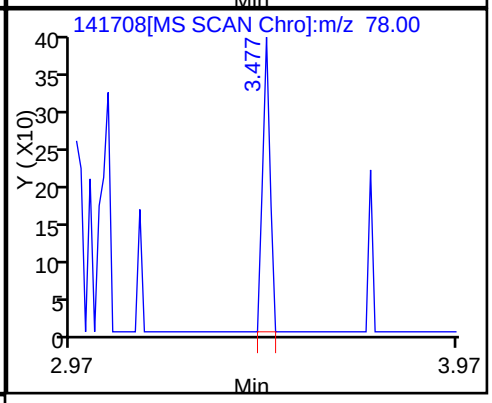
Injection Date:	02-Apr-2013 16:58:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	8
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

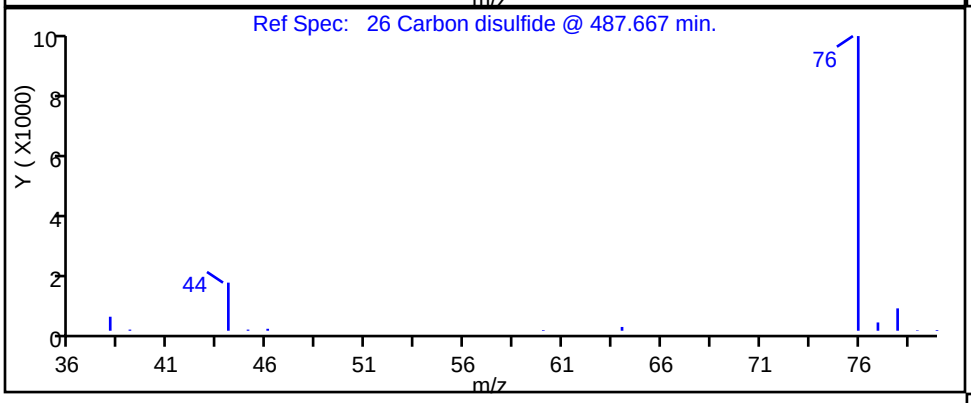
26 Carbon disulfide

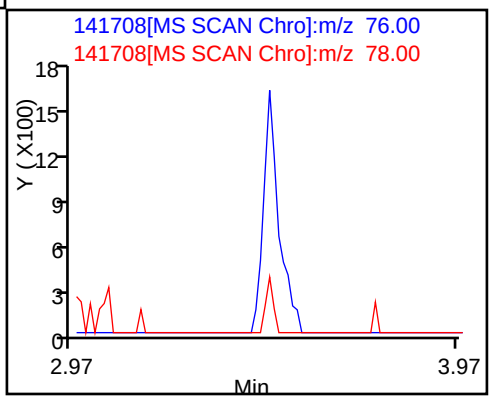












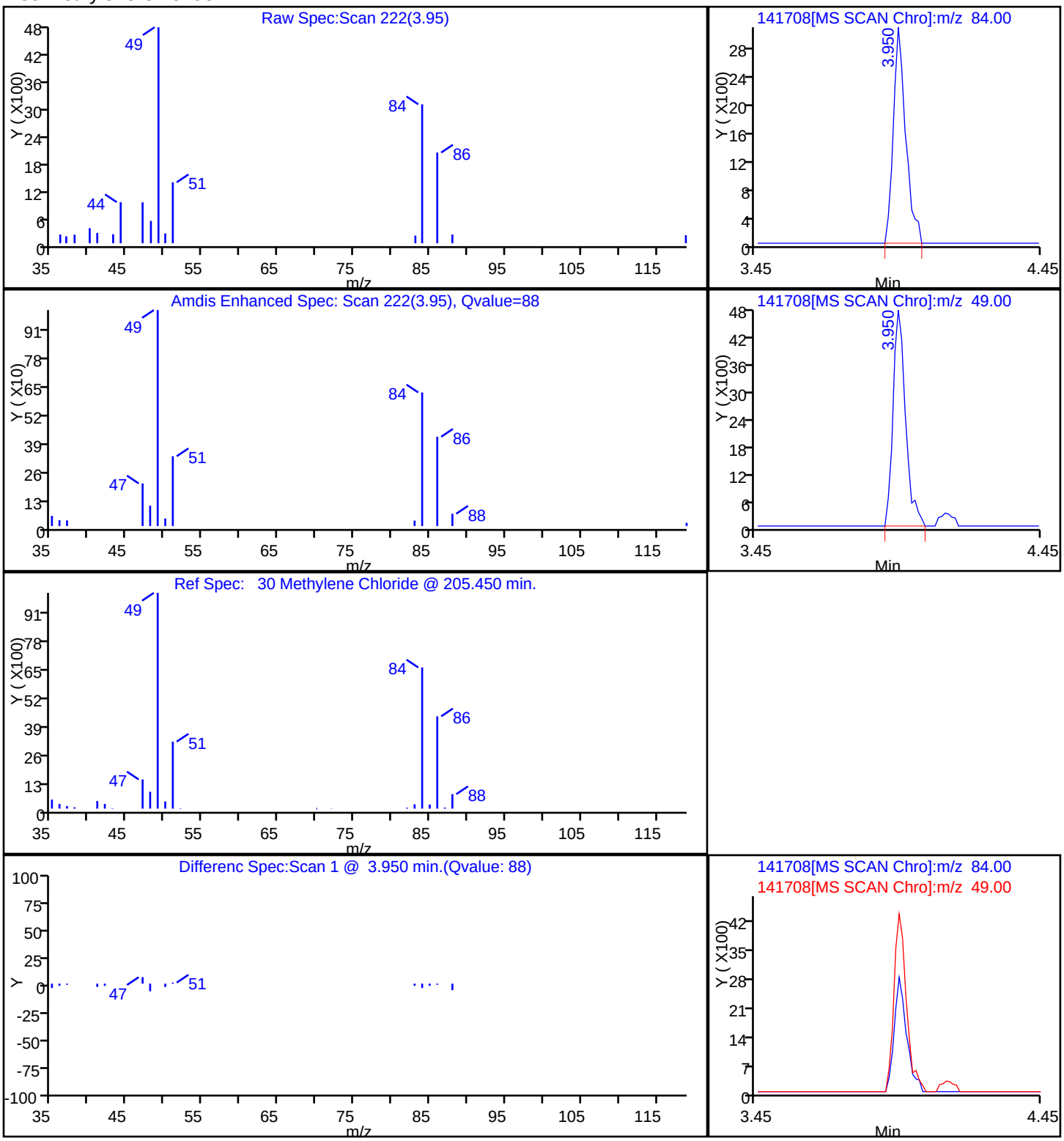
Report Date: 03-Apr-2013 14:23:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141708.D

Injection Date:	02-Apr-2013 16:58:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	8
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

30 Methylene Chloride



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-78761/3	UX129104.D
Level 2	STD8260 240-78761/4	UX129105.D
Level 3	STD8260 240-78761/5	UX129106.D
Level 4	STD8260 240-78761/6	UX129107.D
Level 5	STD8260 240-78761/7	UX129108.D
Level 6	STD8260 240-78761/8	UX129109.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2427 0.3044	0.2717	0.3024	0.3108	0.3046	Ave		0.2894			0.1000	9.2		15.0			
Chloromethane	0.3763 0.3604	0.3739	0.3866	0.3801	0.3784	Ave		0.3759			0.1000	2.3		15.0			
Vinyl chloride	0.3947 0.3877	0.3086	0.4001	0.3973	0.4021	Ave		0.3817			0.1000	9.5		15.0			
Bromomethane	0.2433 0.2426	0.2145	0.2235	0.2306	0.2478	Ave		0.2337			0.0500	5.6		15.0			
Chloroethane	0.2453 0.2662	0.2414	0.2689	0.2739	0.2744	Ave		0.2617				5.6		15.0			
Trichlorofluoromethane	0.2450 0.3671	0.2173	0.3463	0.3696	0.3727	Lin1	-0.095	0.3699			0.1000				1.0000		0.9950
Acrolein	0.0308 0.0406	0.0417	0.0391	0.0405	0.0439	Ave		0.0394				11.0		15.0			
1,1-Dichloroethene	0.4422 0.4794	0.4265	0.4659	0.4788	0.4912	Ave		0.4640			0.1000	5.3		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2426 0.2363	0.2680	0.2235	0.2350	0.2486	Ave		0.2423			0.0500	6.2		15.0			
Acetone	0.0548	0.0957	0.0615	0.0637	0.0676	Lin1	0.0838	0.0587			0.0500				0.9910	*	0.9950
Iodomethane	0.4333 0.4389	0.4636	0.4243	0.4249	0.4399	Ave		0.4375				3.3		15.0			
Carbon disulfide	0.8089 0.9639	0.9101	0.9474	0.9494	0.9786	Ave		0.9264			0.1000	6.7		15.0			
Acetonitrile	0.0333 0.0270	0.0244	0.0291	0.0296	0.0303	Ave		0.0290				10.0		15.0			
Methyl acetate	0.1552	0.1971	0.1710	0.1698	0.1765	Ave		0.1739			0.1000	8.7		15.0			
Methylene Chloride	0.3663	0.5571	0.4035	0.3793	0.3826	Lin1	0.2041	0.3693			0.1000				1.0000		0.9950

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Methyl-2-propanol	0.0140 0.0165	0.0180	0.0147	0.0208	0.0218	Qua	-0.679	0.0259	0						0.9940		0.9900
Acrylonitrile	0.0742 0.0922	0.1032	0.0875	0.0976	0.0980	Ave		0.0921				11.0		15.0			
Methyl tert-butyl ether	0.6959 0.7009	0.7236	0.6890	0.6908	0.7311	Ave		0.7052			0.1000	2.5		15.0			
trans-1,2-Dichloroethene	0.3926 0.3609	0.3276	0.3459	0.3498	0.3550	Ave		0.3553			0.1000	6.0		15.0			
Hexane	0.2063 0.2069	0.1897	0.1948	0.1939	0.2143	Ave		0.2010				4.7		15.0			
1,1-Dichloroethane	0.4189 0.4168	0.3932	0.4152	0.4097	0.4237	Ave		0.4129			0.1000	2.6		15.0			
Vinyl acetate	 0.0523	0.0342	0.0444	0.0488	0.0528	Lin1	-0.024	0.0521							0.9990		0.9950
cis-1,2-Dichloroethene	0.3090 0.3290	0.3473	0.3453	0.3313	0.3335	Ave		0.3326			0.1000	4.2		15.0			
2,2-Dichloropropane	0.1248 0.1421	0.1336	0.1382	0.1304	0.1421	Ave		0.1352				5.1		15.0			
2-Butanone (MEK)	0.0212 0.0251	0.0310	0.0241	0.0258	0.0273	Lin	0.0183	0.0254		*	0.0500				0.9980		0.9950
Bromochloromethane	0.1285 0.1889	0.1788	0.1949	0.1902	0.1947	Ave		0.1793				14.0		15.0			
Tetrahydrofuran	 0.0584	0.1148	0.0645	0.0634	0.0662	Lin1	0.0565	0.0601							0.9970		0.9950
Chloroform	0.4563 0.3752	0.3719	0.3859	0.3667	0.3869	Ave		0.3905				8.5		15.0			
1,1,1-Trichloroethane	0.2071 0.2442	0.2227	0.2399	0.2247	0.2457	Ave		0.2307			0.1000	6.6		15.0			
Cyclohexane	0.3158 0.3431	0.2713	0.3222	0.3162	0.3442	Ave		0.3188			0.1000	8.3		15.0			
1,1-Dichloropropene	0.2336 0.3090	0.2796	0.3008	0.2977	0.3140	Ave		0.2891				10.0		15.0			
Carbon tetrachloride	0.1382 0.1727	0.1425	0.1593	0.1506	0.1704	Ave		0.1556			0.1000	9.2		15.0			
Benzene	0.9974 0.9730	0.9649	0.9810	0.9524	0.9811	Ave		0.9750			0.5000	1.6		15.0			
1,2-Dichloroethane	0.2441 0.2824	0.2699	0.2845	0.2901	0.2969	Ave		0.2780			0.1000	6.8		15.0			
Trichloroethene	0.2307 0.2300	0.2316	0.2262	0.2259	0.2336	Ave		0.2297			0.2000	1.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.2025 0.2100	0.1882	0.2076	0.1965	0.2032	Ave		0.2013			0.1000	3.9		15.0			
1,2-Dichloropropane	0.2300 0.2327	0.2387	0.2444	0.2237	0.2356	Ave		0.2342			0.1000	3.1		15.0			
1,4-Dioxane	0.0026 0.0028	0.0022	0.0024	0.0028	0.0030	Ave		0.0026				11.0		15.0			
Dibromomethane	0.1171 0.1345	0.1214	0.1330	0.1364	0.1381	Ave		0.1301				6.7		15.0			
Bromodichloromethane	0.2897 0.2771	0.2380	0.2519	0.2628	0.2756	Ave		0.2659			0.1000	7.1		15.0			
2-Chloroethyl vinyl ether	0.1347 0.1511	0.1645	0.1395	0.1526	0.1542	Ave		0.1494				7.2		15.0			
cis-1,3-Dichloropropene	0.2914 0.3826	0.3945	0.3437	0.3504	0.3747	Ave		0.3562			0.1500	10.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.2166 0.1795	0.2166	0.1732	0.1887	0.2028	Ave		0.1962			0.0500	9.5		15.0			
Toluene	1.1913 1.3112	1.2932	1.3203	1.2745	1.3074	Ave		1.2830			0.4000	3.7		15.0			
trans-1,3-Dichloropropene	0.3387 0.4123	0.3611	0.3752	0.3756	0.3975	Ave		0.3767			0.1000	6.9		15.0			
Ethyl methacrylate	0.3720 0.3946	0.3612	0.3445	0.3675	0.4042	Ave		0.3740				5.9		15.0			
1,1,2-Trichloroethane	0.3347 0.2590	0.3118	0.2684	0.2600	0.2753	Ave		0.2849			0.1000	11.0		15.0			
Tetrachloroethene	0.1838 0.2372	0.2246	0.2369	0.2287	0.2394	Ave		0.2251			0.2000	9.3		15.0			
1,3-Dichloropropane	0.5619 0.5000	0.5216	0.5098	0.4997	0.5309	Ave		0.5207				4.5		15.0			
2-Hexanone	0.1408 0.1583	0.1867	0.1537	0.1707	0.1808	Ave		0.1652			0.0500	11.0		15.0			
Dibromochloromethane	0.2538 0.2539	0.2146	0.2302	0.2313	0.2529	Ave		0.2395				6.9		15.0			
1,2-Dibromoethane	0.2906 0.2660	0.2548	0.2637	0.2631	0.2756	Ave		0.2690				4.7		15.0			
Chlorobenzene	0.8416 0.8529	0.8964	0.8639	0.8310	0.8515	Ave		0.8562			0.3000	2.6		15.0			
1,1,1,2-Tetrachloroethane	0.2040 0.2485	0.1847	0.2298	0.2201	0.2405	Ave		0.2213				11.0		15.0			
Ethylbenzene	0.4291 0.4192	0.4048	0.4138	0.3994	0.4226	Ave		0.4148				2.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.5619 0.5375	0.4719	0.5230	0.4980	0.5263	Ave		0.5198				6.0		15.0			
o-Xylene	0.6085 0.5349	0.5353	0.5201	0.5087	0.5305	Ave		0.5397				6.5		15.0			
Styrene	0.8366 0.9765	0.8182	0.9628	0.9331	0.9724	Ave		0.9166			0.3000	7.7		15.0			
Bromoform	0.1542	0.1139	0.1252	0.1371	0.1478	Ave		0.1356			0.1000	12.0		15.0			
Isopropylbenzene	1.0941 1.2197	0.9823	1.1760	1.1169	1.2005	Ave		1.1316			0.1000	7.7		15.0			
1,1,2,2-Tetrachloroethane	0.7350 0.8016	0.9398	0.8209	0.8513	0.8812	Ave		0.8383			0.3000	8.4		15.0			
Bromobenzene	0.8160 0.6883	0.6894	0.6756	0.6768	0.6966	Ave		0.7071				7.6		15.0			
trans-1,4-Dichloro-2-butene	0.1884	0.1670	0.1778	0.1854	0.2124	Ave		0.1862				9.0		15.0			
1,2,3-Trichloropropane	0.2281 0.2529	0.3141	0.2592	0.2798	0.2858	Ave		0.2700				11.0		15.0			
N-Propylbenzene	0.5735 0.6574	0.7094	0.6491	0.6061	0.6702	Ave		0.6443				7.5		15.0			
2-Chlorotoluene	0.5365 0.6079	0.6254	0.6092	0.5904	0.6118	Ave		0.5969				5.3		15.0			
1,3,5-Trimethylbenzene	1.9806 2.1044	1.9904	2.0551	1.9562	2.1257	Ave		2.0354				3.4		15.0			
4-Chlorotoluene	0.5746 0.6596	0.6367	0.6505	0.6407	0.6746	Ave		0.6394				5.4		15.0			
tert-Butylbenzene	1.3617 1.8588	1.8495	1.8222	1.7037	1.8341	Ave		1.7383				11.0		15.0			
1,2,4-Trimethylbenzene	2.1927 2.2076	1.8420	2.1505	2.0558	2.2102	Ave		2.1098				6.8		15.0			
sec-Butylbenzene	2.3939 2.6934	2.2982	2.5137	2.4083	2.6603	Ave		2.4946				6.3		15.0			
1,3-Dichlorobenzene	1.4062 1.2412	1.1967	1.2511	1.2384	1.2697	Ave		1.2672			0.6000	5.7		15.0			
4-Isopropyltoluene	2.0313 2.2628	2.1290	2.0924	2.0552	2.2044	Ave		2.1292				4.2		15.0			
1,4-Dichlorobenzene	1.2369 1.3091	1.3145	1.3336	1.2870	1.3269	Ave		1.3013			0.5000	2.7		15.0			
n-Butylbenzene	1.8423 2.0102	1.8708	1.9021	1.8503	2.0248	Ave		1.9168				4.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.4633 1.2400	1.3914	1.2487	1.2194	1.2648	Ave		1.3046			0.4000	7.6		15.0			
1,2-Dibromo-3-Chloropropane	0.1362 0.1446	0.1127	0.1136	0.1401	0.1573	Ave		0.1341			0.0500	13.0		15.0			
1,3,5-Trichlorobenzene	0.7853 0.8144	0.8278	0.8024	0.7990	0.8389	Ave		0.8113				2.4		15.0			
1,2,4-Trichlorobenzene	0.8302 0.7669	0.6585	0.7330	0.7079	0.7806	Ave		0.7462			0.2000	8.0		15.0			
Hexachlorobutadiene	0.3893 0.3084	0.3799	0.3083	0.2813	0.3105	Ave		0.3296				13.0		15.0			
Naphthalene	2.2297 2.1588	2.2697	2.1029	2.1897	2.3971	Ave		2.2247				4.6		15.0			
1,2,3-Trichlorobenzene	0.7131 0.6638	0.7993	0.6618	0.6710	0.7109	Ave		0.7033				7.4		15.0			
Dibromofluoromethane (Surr)	 0.2213	0.2027	0.2093	0.2323	0.2230	Ave		0.2177				5.4		15.0			
1,2-Dichloroethane-d4 (Surr)	 0.2607	0.2420	0.2426	0.2868	0.2764	Ave		0.2617				7.6		15.0			
Toluene-d8 (Surr)	 1.2109	1.0950	1.1536	1.3111	1.2153	Ave		1.1972				6.7		15.0			
4-Bromofluorobenzene (Surr)	 0.4462	0.4168	0.4169	0.4599	0.4409	Ave		0.4361				4.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-78761/3	UX129104.D
Level 2	STD8260 240-78761/4	UX129105.D
Level 3	STD8260 240-78761/5	UX129106.D
Level 4	STD8260 240-78761/6	UX129107.D
Level 5	STD8260 240-78761/7	UX129108.D
Level 6	STD8260 240-78761/8	UX129109.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	9671 2042244	22749	248036	505120	1001880	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	14995 2418063	31302	317105	617687	1244642	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	15729 2601241	25833	328171	645700	1322579	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	9694 1627622	17954	183377	374737	814969	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	9774 1786236	20207	220599	445174	902700	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Lin1	9761 2463254	18192	284068	600584	1225992	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	12279 2722298	34910	320928	658956	1444338	5.00 800	10.0	100	200	400
1,1-Dichloroethene	FB	Ave	17619 3216276	35704	382138	778149	1615640	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	9666 1585748	22432	183369	381875	817795	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	 735840	16027	100840	207028	444789	 160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	17264 2944528	38809	348031	690554	1447106	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	32230 6467027	76190	777172	1542877	3218798	0.500 80.0	1.00	10.0	20.0	40.0
Acetonitrile	FB	Ave	13249 1811620	20437	238492	481410	998231	5.00 800	10.0	100	200	400
Methyl acetate	FB	Ave	 2083167	32994	280609	551949	1161082	 160	2.00	20.0	40.0	80.0
Methylene Chloride	FB	Lin1	 2457393	46636	330992	616462	1258486	 80.0	1.00	10.0	20.0	40.0
2-Methyl-2-propanol	FB	Qua	11180 2217730	30184	241508	674443	1431053	10.0 1600	20.0	200	400	800

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	5914 1237197	17271	143583	317128	644659	1.00 160	2.00	20.0	40.0	80.0
Methyl tert-butyl ether	FB	Ave	27728 4702821	60579	565152	1122695	2404725	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	15643 2421334	27422	283754	568533	1167773	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	8222 1388277	15882	159824	315190	704809	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	16691 2796750	32920	340627	665790	1393539	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Lin1	 350832	2860	36401	79312	173792	 80.0	1.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	12311 2207377	29077	283269	538477	1097152	0.500 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	4974 953465	11185	113337	211849	467566	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Lin	1686 336925	5196	39511	83964	179702	1.00 160	2.00	20.0	40.0	80.0
Bromochloromethane	FB	Ave	5122 1267482	14969	159853	309023	640323	0.500 80.0	1.00	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	 392170	9614	52926	102971	217829	 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	18180 2517744	31130	316586	596008	1272490	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	8252 1638237	18639	196778	365128	808294	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	12585 2301860	22714	264329	513784	1132202	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9307 2073524	23409	246716	483738	1032865	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5505 1158658	11928	130711	244679	560595	0.500 80.0	1.00	10.0	20.0	40.0
Benzene	FB	Ave	39742 6528217	80777	804699	1547755	3227235	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	9728 1895003	22592	233403	471468	976630	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	9192 1543057	19385	185564	367098	768376	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	8068 1408722	15753	170311	319338	668496	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	9165 1561437	19985	200445	363549	775052	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	5199 937401	9362	99055	223645	501020	25.0 4000	50.0	500	1000	2000
Dibromomethane	FB	Ave	4665 902341	10164	109106	221611	454247	0.500 80.0	1.00	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	11543 1859020	19922	206674	427099	906675	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10733 2027747	27544	228923	496005	1014204	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	11611 2566825	33026	281957	569454	1232646	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	17264 2409166	36263	284160	613165	1334476	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	36381 7006841	82917	819415	1596098	3393768	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	10342 2203130	23154	232863	470372	1031754	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	11361 2108711	23157	213813	460204	1049290	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	10222 1384310	19993	166553	325670	714501	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	5612 1267609	14403	147047	286365	621389	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	17160 2672010	33444	316392	625825	1378096	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	8597 1691832	23946	190745	427558	938572	1.00 160	2.00	20.0	40.0	80.0
Dibromochloromethane	CBZ	Ave	7750 1357059	13763	142861	289717	656532	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromoethane	CBZ	Ave	8875 1421340	16339	163656	329556	715337	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	25700 4557847	57474	536154	1040695	2210281	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6230 1328126	11844	142643	275638	624266	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	13105 2240172	25953	256832	500199	1096892	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	34319 5744532	60512	649183	1247365	2732140	1.00 160	2.00	20.0	40.0	80.0
o-Xylene	CBZ	Ave	18582 2858387	34321	322792	637145	1377129	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	25549 5218328	52461	597527	1168617	2524223	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	823905	7300	77729	171677	383768	80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	33412 6517923	62983	729831	1398784	3116156	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	10487 2052408	26677	240427	499113	1075056	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	11643 1762163	19570	197866	396819	849815	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	482358	4740	52080	108731	259078	80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	3255 647401	8915	75922	164028	348623	0.500 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	8182 1683275	20136	190106	355379	817651	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	7655 1556308	17754	178418	346176	746407	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	28259 5387955	56499	601905	1146960	2593264	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	8198 1688677	18074	190511	375675	822981	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	19428 4759139	52501	533688	998899	2237544	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	31285 5652131	52288	629847	1205373	2696373	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	34156 6896058	65237	736216	1412051	3245480	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	20063 3177853	33969	366421	726107	1549044	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	28983 5793560	60435	612829	1205026	2689323	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	17648 3351686	37313	390581	754614	1618784	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	26286 5146665	53105	557094	1084886	2470251	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	20878 3174832	39497	365711	714948	1543015	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1944 370224	3199	33259	82138	191932	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCB	Ave	11204 2085046	23498	234998	468467	1023427	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	11845 1963402	18691	214688	415050	952334	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCB	Ave	5555 789707	10784	90289	164960	378833	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	31814 5527180	64429	615889	1283880	2924409	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	10175 1699416	22690	193828	393407	867269	0.500 80.0	1.00	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	1484562	16971	171682	377447	733447	80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	1749169	20258	198966	466072	909095	80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	6471049	70207	715911	1642014	3154534	80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	2384265	26722	258728	576024	1144505	80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129104.D		
Lims ID:	std8260 L1	Client ID:	
Inject. Date:	19-Mar-2013 18:52:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018085-003		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	78761	Lims Sample ID:	3
Sublist:	chrom-8260_12*sub7		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	19-Mar-2013 22:02:39	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: laveyt		Date:	19-Mar-2013 19:32:38

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	99	1593831	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1221510	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	94	570719	20.0	
$ 5 Dibromofluoromethane (Surr)	113		4.765					
$ 6 1,2-Dichloroethane-d4 (Surr)	65		5.049					
$ 7 Toluene-d8 (Surr)	98		6.682					
$ 131 4-Bromofluorobenzene (Surr)	95		9.108					
12 Dichlorodifluoromethane	85	1.653	1.641	0.012	46	9671	0.4193	
13 Chloromethane	50	1.783	1.783	0.0	62	14995	0.5005	
14 Vinyl chloride	62	1.902	1.890	0.012	43	15729	0.5170	
15 Bromomethane	94	2.198	2.198	0.0	14	9694	0.5205	
16 Chloroethane	64	2.304	2.304	0.0	49	9774	0.4687	
18 Trichlorofluoromethane	101	2.517	2.505	0.012	17	9761	0.5868	
20 Acrolein	56	2.837	2.837	0.0	66	12279	3.91	
22 Acetone	43		2.955					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	4	9666	0.5005	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	69	17619	0.4765	
24 Iodomethane	142	3.097	3.109	-0.012	72	17264	0.4952	
26 Carbon disulfide	76	3.144	3.144	0.0	93	32230	0.4366	
27 Acetonitrile	41	3.192	3.192	0.0	87	13249	5.74	
28 Methyl acetate	43		3.227					
30 Methylene Chloride	49		3.369					
31 2-Methyl-2-propanol	59	3.416	3.393	0.023	56	11180	31.9	
32 Acrylonitrile	53	3.511	3.523	-0.012	71	5914	0.8057	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	80	27728	0.4934	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	31	15643	0.5525	
35 Hexane	57	3.771	3.771	0.0	59	8222	0.5133	
36 1,1-Dichloroethane	63	3.890	3.902	-0.012	63	16691	0.5072	
37 Vinyl acetate	86		3.925					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.363	4.375	-0.012	29	12311	0.4645	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	19	4974	0.4616	
41 2-Butanone (MEK)	72	4.387	4.387	0.0	64	1686	0.1138	
47 Chlorobromomethane	49	4.576	4.576	0.0	50	5122	0.3584	
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83	4.635	4.623	0.012	36	18180	0.5842	
50 1,1,1-Trichloroethane	97	4.789	4.801	-0.012	39	8252	0.4488	
51 Cyclohexane	56	4.860	4.860	0.0	50	12585	0.4954	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	49	9307	0.4040	
53 Carbon tetrachloride	117	4.943	4.943	0.0	41	5505	0.4439	
55 Benzene	78	5.097	5.108	-0.011	86	39742	0.5115	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	26	9728	0.4391	
60 Trichloroethene	130	5.641	5.641	0.0	51	9192	0.5023	
63 Methylcyclohexane	55	5.795	5.807	-0.012	46	8068	0.5029	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	47	9165	0.4911	
66 1,4-Dioxane	88	5.925	5.937	-0.012	22	5199	24.7	
65 Dibromomethane	174	5.937	5.937	0.0	49	4665	0.4500	
67 Dichlorobromomethane	83	6.055	6.055	0.0	52	11543	0.5448	
69 2-Chloroethyl vinyl ether	63	6.304	6.292	0.012	49	10733	0.9013	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	39	11611	0.4090	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	86	17264	1.10	
72 Toluene	91	6.741	6.741	0.0	83	36381	0.4643	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	64	10342	0.4495	
74 Ethyl methacrylate	69	6.978	6.990	-0.012	39	11361	0.4974	
75 1,1,2-Trichloroethane	97	7.096	7.096	0.0	35	10222	0.5875	
77 Tetrachloroethene	166	7.238	7.238	0.0	37	5612	0.4082	
76 1,3-Dichloropropane	76	7.238	7.250	-0.012	59	17160	0.5396	
78 2-Hexanone	43	7.309	7.309	0.0	62	8597	0.8523	
79 Chlorodibromomethane	129	7.451	7.463	-0.012	1	7750	0.5299	
123 Ethylene Dibromide	107	7.570	7.582	-0.012	40	8875	0.5402	
82 Chlorobenzene	112	8.031	8.019	0.012	73	25700	0.4915	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	29	6230	0.4610	
84 Ethylbenzene	106	8.114	8.114	0.0	72	13105	0.5173	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	88	34319	1.08	
85 o-Xylene	106	8.599	8.599	0.0	65	18582	0.5638	
86 Styrene	104	8.611	8.611	0.0	65	25549	0.4564	
87 Bromoform	173		8.800					
88 Isopropylbenzene	105	8.954	8.954	0.0	60	33412	0.4835	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	23	10487	0.4384	
91 Bromobenzene	156	9.262	9.262	0.0	73	11643	0.5770	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	27	3255	0.4225	
93 trans-1,4-Dichloro-2-butene	53		9.286					
94 N-Propylbenzene	120	9.345	9.357	-0.011	74	8182	0.4450	
95 2-Chlorotoluene	126	9.439	9.439	0.0	52	7655	0.4494	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	71	28259	0.4865	
104 4-Chlorotoluene	126	9.546	9.546	0.0	55	8198	0.4493	
97 tert-Butylbenzene	119	9.842	9.842	0.0	49	19428	0.3917	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	43	31285	0.5196	
99 sec-Butylbenzene	105	10.055	10.055	0.0	51	34156	0.4798	
100 1,3-Dichlorobenzene	146	10.185	10.173	0.012	46	20063	0.5548	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	35	28983	0.4770	
102 1,4-Dichlorobenzene	146	10.256	10.268	-0.012	28	17648	0.4752	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	63	26286	0.4806	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.0	56	20878	0.5608	
107 1,2-Dibromo-3-Chloropropane	157	11.415	11.404	0.011	1	1944	0.5081	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	51	11204	0.4840	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	28	11845	0.5563	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	18	5555	0.5905	
111 Naphthalene	128	12.492	12.492	0.0	54	31814	0.5011	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	30	10175	0.5070	
S 145 Trihalomethanes, Total	1				0		1.66	
S 11 1,2-Dichloroethene, Total	96				0		1.02	
S 9 1,3-Dichloropropene, Total	75				0		0.8585	
S 114 Xylenes, Total	106				0		1.64	

Report Date: 19-Mar-2013 22:02:40 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129104.D

Injection Date:	19-Mar-2013 18:52:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	3
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129105.D		
Lims ID:	std8260 L2	Client ID:	
Inject. Date:	19-Mar-2013 19:19:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018085-004		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	78761	Lims Sample ID:	4
Sublist:	chrom-8260_12*sub7		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	19-Mar-2013 22:02:41	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: laveyt		Date:	19-Mar-2013 20:49:42

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	99	1674268	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1282376	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	94	567725	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	43	16971	0.9312	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	65	20258	0.9248	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	73	70207	0.9146	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	63	26722	0.9556	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	46	22749	0.9389	
13 Chloromethane	50	1.784	1.783	0.001	77	31302	0.99	
14 Vinyl chloride	62	1.902	1.890	0.012	42	25833	0.8084	
15 Bromomethane	94	2.209	2.198	0.011	69	17954	0.9177	
16 Chloroethane	64	2.304	2.304	0.0	53	20207	0.9224	
18 Trichlorofluoromethane	101	2.517	2.505	0.012	68	18192	0.8431	
20 Acrolein	56	2.837	2.837	0.0	82	34910	10.6	
22 Acetone	43	2.967	2.955	0.012	36	16027	1.83	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	31	22432	1.11	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	85	35704	0.9192	
24 Iodomethane	142	3.097	3.109	-0.012	83	38809	1.06	
26 Carbon disulfide	76	3.156	3.144	0.012	89	76190	0.9825	
27 Acetonitrile	41	3.192	3.192	0.0	93	20437	8.43	
28 Methyl acetate	43	3.239	3.227	0.012	88	32994	2.27	
30 Methylene Chloride	49	3.357	3.369	-0.012	81	46636	0.9559	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	82	30184	40.5	
32 Acrylonitrile	53	3.523	3.523	0.0	89	17271	2.24	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	83	60579	1.03	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	50	27422	0.9219	
35 Hexane	57	3.771	3.771	0.0	87	15882	0.9438	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	89	32920	0.9523	
37 Vinyl acetate	86	3.925	3.925	0.0	96	2860	1.11	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	59	29077	1.04	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	30	11185	0.9882	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	64	5196	1.73	
47 Chlorobromomethane	49	4.564	4.576	-0.012	78	14969	1.00	
48 Tetrahydrofuran	42	4.623	4.612	0.011	42	9614	0.9716	
49 Chloroform	83	4.635	4.623	0.012	52	31130	0.9523	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	65	18639	0.9651	
51 Cyclohexane	56	4.860	4.860	0.0	48	22714	0.8511	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	77	23409	0.9672	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	41	11928	0.9157	
55 Benzene	78	5.109	5.108	0.001	89	80777	0.9897	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	33	22592	0.9708	
60 Trichloroethene	130	5.629	5.641	-0.012	74	19385	1.01	
63 Methylcyclohexane	55	5.807	5.807	0.0	73	15753	0.9347	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	75	19985	1.02	
66 1,4-Dioxane	88	5.937	5.937	0.0	46	9362	42.3	
65 Dibromomethane	174	5.937	5.937	0.0	73	10164	0.9334	
67 Dichlorobromomethane	83	6.055	6.055	0.0	84	19922	0.8951	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	66	27544	2.20	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	56	33026	1.11	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	83	36263	2.21	
72 Toluene	91	6.742	6.741	0.001	89	82917	1.01	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	54	23154	0.9586	
74 Ethyl methacrylate	69	6.990	6.990	0.0	57	23157	0.9657	
75 1,1,2-Trichloroethane	97	7.085	7.096	-0.011	62	19993	1.09	
77 Tetrachloroethene	166	7.238	7.238	0.0	70	14403	1.00	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	79	33444	1.00	
78 2-Hexanone	43	7.309	7.309	0.0	87	23946	2.26	
79 Chlorodibromomethane	129	7.463	7.463	0.0	41	13763	0.8963	
123 Ethylene Dibromide	107	7.582	7.582	0.0	53	16339	0.9474	
82 Chlorobenzene	112	8.019	8.019	0.0	72	57474	1.05	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	65	11844	0.8348	
84 Ethylbenzene	106	8.114	8.114	0.0	90	25953	0.9758	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	94	60512	1.82	
85 o-Xylene	106	8.599	8.599	0.0	85	34321	0.99	
86 Styrene	104	8.611	8.611	0.0	80	52461	0.8926	
87 Bromoform	173	8.812	8.800	0.012	55	7300	0.8394	
88 Isopropylbenzene	105	8.954	8.954	0.0	81	62983	0.8681	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	75	26677	1.12	
91 Bromobenzene	156	9.262	9.262	0.0	88	19570	0.9750	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	44	8915	1.16	
93 trans-1,4-Dichloro-2-butene	53	9.274	9.286	-0.012	43	4740	0.8968	
94 N-Propylbenzene	120	9.345	9.357	-0.011	85	20136	1.10	
95 2-Chlorotoluene	126	9.439	9.439	0.0	88	17754	1.05	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	73	56499	0.9779	
104 4-Chlorotoluene	126	9.546	9.546	0.0	86	18074	1.00	
97 tert-Butylbenzene	119	9.842	9.842	0.0	79	52501	1.06	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	56	52288	0.8731	
99 sec-Butylbenzene	105	10.055	10.055	0.0	71	65237	0.9213	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	77	33969	0.9443	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	32	60435	1.00	
102 1,4-Dichlorobenzene	146	10.256	10.268	-0.012	61	37313	1.01	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	81	53105	0.9760	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	82	39497	1.07	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	9	3199	0.8405	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	69	23498	1.02	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	53	18691	0.8824	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	56	10784	1.15	
111 Naphthalene	128	12.492	12.492	0.0	78	64429	1.02	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	64	22690	1.14	
S 145 Trihalomethanes, Total	1				0		3.58	
S 11 1,2-Dichloroethene, Total	96				0		1.97	
S 9 1,3-Dichloropropene, Total	75				0		2.07	
S 114 Xylenes, Total	106				0		2.81	

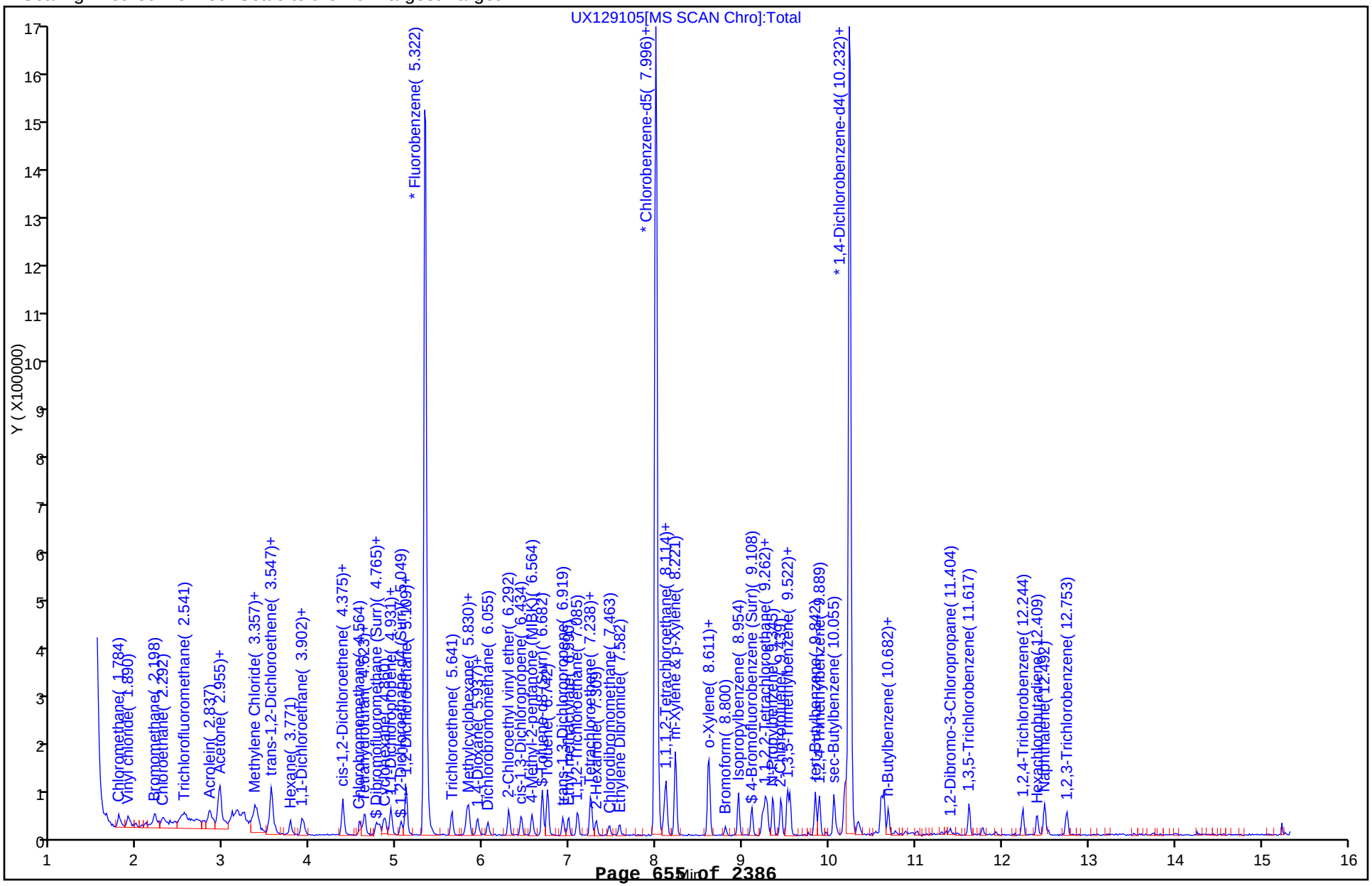
Report Date: 19-Mar-2013 22:02:41 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129105.D

Injection Date:	19-Mar-2013 19:19:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	4
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129106.D
Lims ID: std8260 L3 Client ID:
Inject. Date: 19-Mar-2013 19:45:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018085-005
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 5
Lims Batch ID: 78761 Lims Sample ID: 5
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:41 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: RT Order ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 20:51:08

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	100	1640601	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	85	1241223	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	92	585762	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	55	171682	9.61	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	87	198966	9.27	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	92	715911	9.64	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	84	258728	9.56	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	97	248036	10.4	
13 Chloromethane	50	1.784	1.783	0.001	89	317105	10.3	
14 Vinyl chloride	62	1.902	1.890	0.012	82	328171	10.5	
15 Bromomethane	94	2.198	2.198	0.0	89	183377	9.57	
16 Chloroethane	64	2.292	2.304	-0.012	93	220599	10.3	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	91	284068	9.62	
20 Acrolein	56	2.837	2.837	0.0	91	320928	99.2	
22 Acetone	43	2.967	2.955	0.012	42	100840	19.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	56	183369	9.22	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	382138	10.0	
24 Iodomethane	142	3.097	3.109	-0.012	95	348031	9.70	
26 Carbon disulfide	76	3.156	3.144	0.012	100	777172	10.2	
27 Acetonitrile	41	3.192	3.192	0.0	100	238492	100.4	
28 Methyl acetate	43	3.227	3.227	0.0	96	280609	19.7	
30 Methylene Chloride	49	3.357	3.369	-0.012	79	330992	10.4	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	96	241508	144.5	
32 Acrylonitrile	53	3.523	3.523	0.0	98	143583	19.0	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	565152	9.77	
33 trans-1,2-Dichloroethene	61	3.558	3.547	0.011	91	283754	9.74	
35 Hexane	57	3.771	3.771	0.0	89	159824	9.69	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	340627	10.1	
37 Vinyl acetate	86	3.925	3.925	0.0	97	36401	8.97	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	70	283269	10.4	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	47	113337	10.2	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	57	39511	18.3	
47 Chlorobromomethane	49	4.576	4.576	0.0	79	159853	10.9	
48 Tetrahydrofuran	42	4.612	4.612	0.0	53	52926	9.80	
49 Chloroform	83	4.623	4.623	0.0	70	316586	9.88	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	88	196778	10.4	
51 Cyclohexane	56	4.860	4.860	0.0	84	264329	10.1	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	246716	10.4	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	57	130711	10.2	
55 Benzene	78	5.109	5.108	0.001	94	804699	10.1	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	85	233403	10.2	
60 Trichloroethene	130	5.641	5.641	0.0	91	185564	9.85	
63 Methylcyclohexane	55	5.807	5.807	0.0	90	170311	10.3	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	94	200445	10.4	
66 1,4-Dioxane	88	5.937	5.937	0.0	62	99055	457.0	
65 Dibromomethane	174	5.937	5.937	0.0	91	109106	10.2	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	206674	9.48	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	228923	18.7	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	87	281957	9.65	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	284160	17.7	
72 Toluene	91	6.742	6.741	0.001	91	819415	10.3	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	87	232863	9.96	
74 Ethyl methacrylate	69	6.990	6.990	0.0	86	213813	9.21	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.001	89	166553	9.42	
77 Tetrachloroethene	166	7.239	7.238	0.001	89	147047	10.5	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	316392	9.79	
78 2-Hexanone	43	7.310	7.309	0.001	92	190745	18.6	
79 Chlorodibromomethane	129	7.463	7.463	0.0	84	142861	9.61	
123 Ethylene Dibromide	107	7.570	7.582	-0.012	95	163656	9.80	
82 Chlorobenzene	112	8.019	8.019	0.0	91	536154	10.1	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	77	142643	10.4	
84 Ethylbenzene	106	8.114	8.114	0.0	98	256832	9.98	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	649183	20.1	
85 o-Xylene	106	8.611	8.599	0.012	92	322792	9.64	
86 Styrene	104	8.611	8.611	0.0	93	597527	10.5	
87 Bromoform	173	8.800	8.800	0.0	87	77729	9.23	
88 Isopropylbenzene	105	8.954	8.954	0.0	94	729831	10.4	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	99	240427	9.79	
91 Bromobenzene	156	9.262	9.262	0.0	94	197866	9.55	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	70	75922	9.60	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	60	52080	9.55	
94 N-Propylbenzene	120	9.357	9.357	0.001	96	190106	10.1	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	178418	10.2	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	93	601905	10.1	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	190511	10.2	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	533688	10.5	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	85	629847	10.2	
99 sec-Butylbenzene	105	10.055	10.055	0.0	92	736216	10.1	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	97	366421	9.87	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	93	612829	9.83	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	91	390581	10.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	93	557094	9.92	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	96	365711	9.57	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	65	33259	8.47	
108 1,3,5-Trichlorobenzene	180	11.629	11.617	0.012	95	234998	9.89	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	214688	9.82	
110 Hexachlorobutadiene	225	12.410	12.409	0.001	89	90289	9.35	
111 Naphthalene	128	12.492	12.492	0.0	96	615889	9.45	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	92	193828	9.41	
S 145 Trihalomethanes, Total	1				0		38.2	
S 11 1,2-Dichloroethene, Total	96				0		20.1	
S 9 1,3-Dichloropropene, Total	75				0		19.6	
S 114 Xylenes, Total	106				0		29.8	

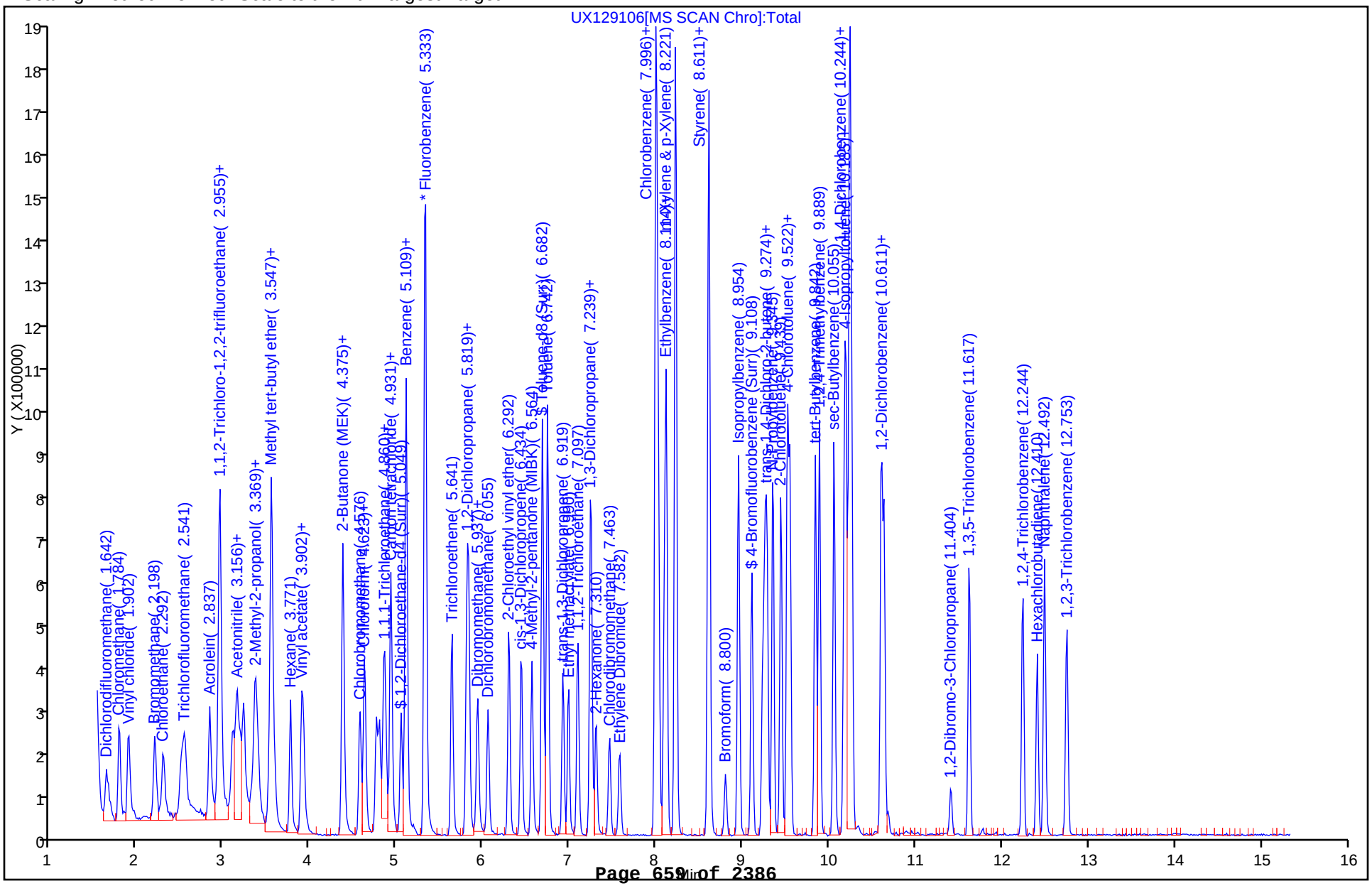
Report Date: 19-Mar-2013 22:02:42 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129106.D

Injection Date:	19-Mar-2013 19:45:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	5
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129107.D
Lims ID: std8260 L4 Client ID:
Inject. Date: 19-Mar-2013 20:12:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 4
Sample ID: 240-0018085-006
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 78761 Lims Sample ID: 6
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:43 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 20:52:57

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	99	1625112	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1252380	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	89	586319	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	54	377447	21.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	89	466072	21.9	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	93	1642014	21.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	87	576024	21.1	
12 Dichlorodifluoromethane	85	1.641	1.641	0.0	87	505120	21.5	
13 Chloromethane	50	1.783	1.783	0.0	89	617687	20.2	
14 Vinyl chloride	62	1.890	1.890	0.0	96	645700	20.8	
15 Bromomethane	94	2.198	2.198	0.0	90	374737	19.7	
16 Chloroethane	64	2.304	2.304	0.0	98	445174	20.9	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	86	600584	20.2	
20 Acrolein	56	2.837	2.837	0.0	95	658956	205.6	
22 Acetone	43	2.955	2.955	0.0	26	207028	42.0	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	54	381875	19.4	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	778149	20.6	
24 Iodomethane	142	3.109	3.109	0.0	96	690554	19.4	
26 Carbon disulfide	76	3.144	3.144	0.0	98	1542877	20.5	
27 Acetonitrile	41	3.192	3.192	0.0	94	481410	204.6	
28 Methyl acetate	43	3.227	3.227	0.0	96	551949	39.1	
30 Methylene Chloride	49	3.369	3.369	0.0	78	616462	20.0	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	97	674443	377.4	
32 Acrylonitrile	53	3.523	3.523	0.0	99	317128	42.4	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1122695	19.6	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	91	568533	19.7	
35 Hexane	57	3.771	3.771	0.0	88	315190	19.3	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	665790	19.8	
37 Vinyl acetate	86	3.925	3.925	0.0	96	79312	19.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	538477	19.9	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	62	211849	19.3	
41 2-Butanone (MEK)	72	4.387	4.387	0.0	70	83964	40.0	
47 Chlorobromomethane	49	4.576	4.576	0.0	77	309023	21.2	
48 Tetrahydrofuran	42	4.612	4.612	0.0	87	102971	20.2	
49 Chloroform	83	4.623	4.623	0.0	81	596008	18.8	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	89	365128	19.5	
51 Cyclohexane	56	4.860	4.860	0.0	87	513784	19.8	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	97	483738	20.6	
53 Carbon tetrachloride	117	4.943	4.943	0.0	76	244679	19.4	
55 Benzene	78	5.108	5.108	0.0	94	1547755	19.5	
56 1,2-Dichloroethane	62	5.108	5.108	0.0	89	471468	20.9	
60 Trichloroethene	130	5.641	5.641	0.0	90	367098	19.7	
63 Methylcyclohexane	55	5.807	5.807	0.0	89	319338	19.5	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	89	363549	19.1	
66 1,4-Dioxane	88	5.937	5.937	0.0	58	223645	1041.6	
65 Dibromomethane	174	5.937	5.937	0.0	91	221611	21.0	
67 Dichlorobromomethane	83	6.055	6.055	0.0	99	427099	19.8	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	496005	40.8	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	569454	19.7	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	613165	38.5	
72 Toluene	91	6.741	6.741	0.0	96	1596098	19.9	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	470372	19.9	
74 Ethyl methacrylate	69	6.990	6.990	0.0	87	460204	19.7	
75 1,1,2-Trichloroethane	97	7.096	7.096	0.0	85	325670	18.3	
77 Tetrachloroethene	166	7.238	7.238	0.0	92	286365	20.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	625825	19.2	
78 2-Hexanone	43	7.309	7.309	0.0	92	427558	41.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	289717	19.3	
123 Ethylene Dibromide	107	7.582	7.582	0.0	97	329556	19.6	
82 Chlorobenzene	112	8.019	8.019	0.0	93	1040695	19.4	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	84	275638	19.9	
84 Ethylbenzene	106	8.114	8.114	0.0	98	500199	19.3	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1247365	38.3	
85 o-Xylene	106	8.599	8.599	0.0	92	637145	18.9	
86 Styrene	104	8.611	8.611	0.0	92	1168617	20.4	
87 Bromoform	173	8.800	8.800	0.0	95	171677	20.2	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1398784	19.7	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	99	499113	20.3	
91 Bromobenzene	156	9.262	9.262	0.0	91	396819	19.1	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	71	164028	20.7	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	63	108731	19.9	
94 N-Propylbenzene	120	9.357	9.357	0.0	97	355379	18.8	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	346176	19.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	91	1146960	19.2	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	375675	20.0	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	998899	19.6	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	85	1205373	19.5	
99 sec-Butylbenzene	105	10.055	10.055	0.0	92	1412051	19.3	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	96	726107	19.5	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	1205026	19.3	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	95	754614	19.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	93	1084886	19.3	
106 1,2-Dichlorobenzene	146	10.634	10.634	0.0	97	714948	18.7	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	75	82138	20.9	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	96	468467	19.7	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	93	415050	19.0	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	92	164960	17.1	
111 Naphthalene	128	12.492	12.492	0.0	97	1283880	19.7	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	393407	19.1	
S 145 Trihalomethanes, Total	1				0		78.1	
S 11 1,2-Dichloroethene, Total	96				0		39.6	
S 9 1,3-Dichloropropene, Total	75				0		39.6	
S 114 Xylenes, Total	106				0		57.2	

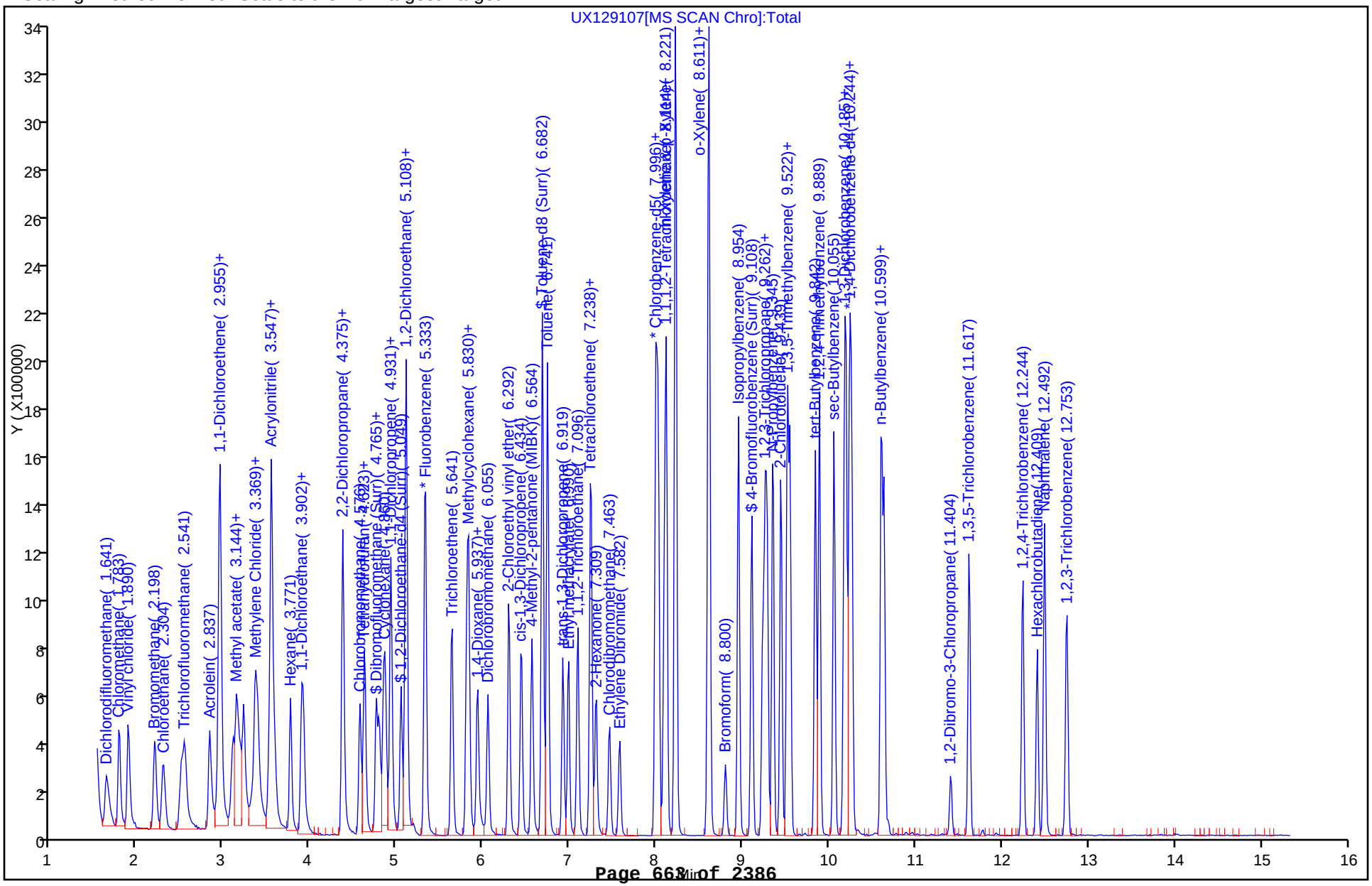
Report Date: 19-Mar-2013 22:02:43 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129107.D

Injection Date:	19-Mar-2013 20:12:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129108.D
Lims ID: std8260 L5 Client ID:
Inject. Date: 19-Mar-2013 20:38:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018085-007
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 78761 Lims Sample ID: 7
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:44 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 20:57:36

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.334	5.333	0.001	99	1644671	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1297882	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	87	609984	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.765	0.001	57	733447	41.0	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.049	0.001	90	909095	42.2	
$ 7 Toluene-d8 (Surr)	98	6.683	6.682	0.0	83	3154534	40.6	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	1144505	40.4	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	86	1001880	42.1	
13 Chloromethane	50	1.784	1.783	0.001	89	1244642	40.3	
14 Vinyl chloride	62	1.890	1.890	0.0	82	1322579	42.1	
15 Bromomethane	94	2.198	2.198	0.0	90	814969	42.4	
16 Chloroethane	64	2.293	2.304	-0.012	94	902700	41.9	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	86	1225992	40.6	
20 Acrolein	56	2.837	2.837	0.0	95	1444338	445.3	
22 Acetone	43	2.955	2.955	0.0	96	444789	90.7	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	55	817795	41.0	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	89	1615640	42.3	
24 Iodomethane	142	3.097	3.109	-0.012	96	1447106	40.2	
26 Carbon disulfide	76	3.144	3.144	0.0	98	3218798	42.3	
27 Acetonitrile	41	3.192	3.192	0.0	99	998231	419.3	
28 Methyl acetate	43	3.227	3.227	0.0	96	1161082	81.2	
30 Methylene Chloride	49	3.357	3.369	-0.012	80	1258486	40.9	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	99	1431053	854.2	
32 Acrylonitrile	53	3.523	3.523	0.0	97	644659	85.1	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	2404725	41.5	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	92	1167773	40.0	
35 Hexane	57	3.772	3.771	0.001	87	704809	42.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	1393539	41.0	
37 Vinyl acetate	86	3.925	3.925	0.0	97	173792	41.0	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	68	1097152	40.1	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	65	467566	42.1	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	97	179702	85.4	
47 Chlorobromomethane	49	4.576	4.576	0.0	76	640323	43.4	
48 Tetrahydrofuran	42	4.612	4.612	0.0	83	217829	43.2	
49 Chloroform	83	4.624	4.623	0.001	80	1272490	39.6	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	87	808294	42.6	
51 Cyclohexane	56	4.860	4.860	0.0	85	1132202	43.2	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	97	1032865	43.4	
53 Carbon tetrachloride	117	4.943	4.943	0.0	65	560595	43.8	
55 Benzene	78	5.109	5.108	0.001	94	3227235	40.3	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	94	976630	42.7	
60 Trichloroethene	130	5.641	5.641	0.0	93	768376	40.7	
63 Methylcyclohexane	55	5.807	5.807	0.0	86	668496	40.4	
62 1,2-Dichloropropane	63	5.831	5.830	0.001	95	775052	40.2	
66 1,4-Dioxane	88	5.937	5.937	0.0	62	501020	2305.7	
65 Dibromomethane	174	5.937	5.937	0.0	90	454247	42.5	
67 Dichlorobromomethane	83	6.055	6.055	0.0	96	906675	41.5	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	91	1014204	82.5	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	1232646	42.1	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	95	1334476	82.7	
72 Toluene	91	6.742	6.741	0.001	90	3393768	40.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	1031754	42.2	
74 Ethyl methacrylate	69	6.990	6.990	0.0	87	1049290	43.2	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.001	84	714501	38.6	
77 Tetrachloroethene	166	7.239	7.238	0.001	92	621389	42.5	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	86	1378096	40.8	
78 2-Hexanone	43	7.310	7.309	0.001	91	938572	87.6	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	656532	42.2	
123 Ethylene Dibromide	107	7.582	7.582	0.0	97	715337	41.0	
82 Chlorobenzene	112	8.020	8.019	0.001	94	2210281	39.8	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.090	0.001	85	624266	43.5	
84 Ethylbenzene	106	8.114	8.114	0.0	97	1096892	40.7	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	2732140	81.0	
85 o-Xylene	106	8.599	8.599	0.0	92	1377129	39.3	
86 Styrene	104	8.611	8.611	0.0	93	2524223	42.4	
87 Bromoform	173	8.801	8.800	0.001	94	383768	43.6	
88 Isopropylbenzene	105	8.954	8.954	0.0	94	3116156	42.4	
90 1,1,2,2-Tetrachloroethane	83	9.227	9.226	0.001	99	1075056	42.0	
91 Bromobenzene	156	9.262	9.262	0.0	92	849815	39.4	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	77	348623	42.3	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	64	259078	45.6	
94 N-Propylbenzene	120	9.345	9.357	-0.011	97	817651	41.6	
95 2-Chlorotoluene	126	9.440	9.439	0.001	97	746407	41.0	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	94	2593264	41.8	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	822981	42.2	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	2237544	42.2	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	85	2696373	41.9	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	3245480	42.7	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	1549044	40.1	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	2689323	41.4	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	96	1618784	40.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	94	2470251	42.3	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	97	1543015	38.8	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	88	191932	46.9	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	96	1023427	41.4	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	89	952334	41.8	
110 Hexachlorobutadiene	225	12.410	12.409	0.001	95	378833	37.7	
111 Naphthalene	128	12.492	12.492	0.0	97	2924409	43.1	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	867269	40.4	
S 145 Trihalomethanes, Total	1				0		166.9	
S 11 1,2-Dichloroethene, Total	96				0		80.1	
S 9 1,3-Dichloropropene, Total	75				0		84.3	
S 114 Xylenes, Total	106				0		120.3	

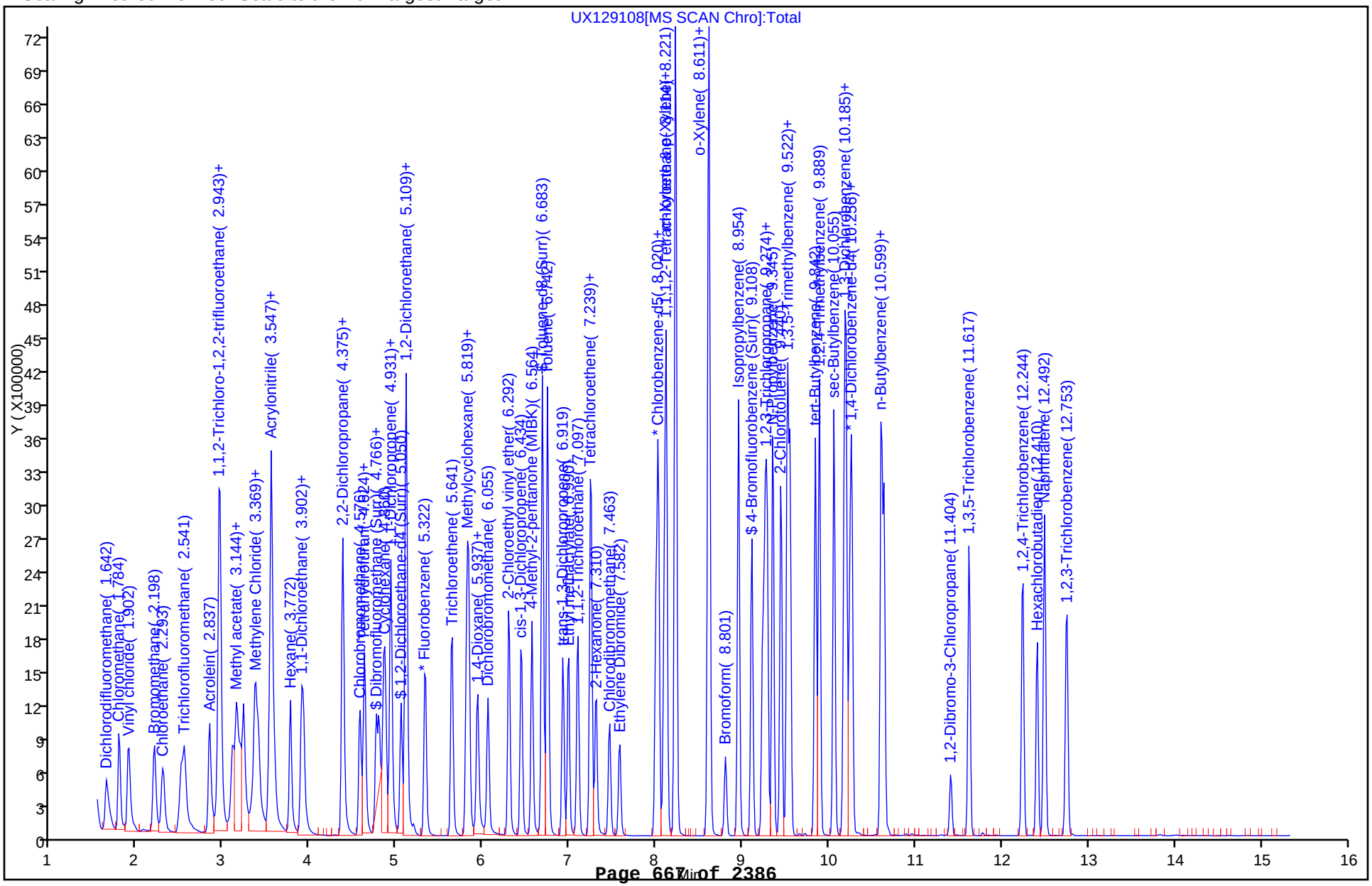
Report Date: 19-Mar-2013 22:02:44 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129108.D

Injection Date:	19-Mar-2013 20:38:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	7
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Lims ID: std8260 L6 Client ID:
Inject. Date: 19-Mar-2013 21:04:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018085-008
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 8
Lims Batch ID: 78761 Lims Sample ID: 8
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:45 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 21:23:38

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.333	-0.011	99	1677387	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	85	1335994	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	77	640081	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	56	1484562	81.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	89	1749169	79.7	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	6471049	80.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	87	2384265	81.8	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	88	2042244	84.1	
13 Chloromethane	50	1.784	1.783	0.001	89	2418063	76.7	
14 Vinyl chloride	62	1.902	1.890	0.012	82	2601241	81.2	
15 Bromomethane	94	2.186	2.198	-0.012	89	1627622	83.0	
16 Chloroethane	64	2.292	2.304	-0.012	93	1786236	81.4	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	85	2463254	79.7	
20 Acrolein	56	2.837	2.837	0.0	90	2722298	822.9	
22 Acetone	43	2.955	2.955	0.0	97	735840	148.0	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	54	1585748	78.0	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	89	3216276	82.7	
24 Iodomethane	142	3.097	3.109	-0.012	95	2944528	80.3	
26 Carbon disulfide	76	3.144	3.144	0.0	98	6467027	83.2	
27 Acetonitrile	41	3.192	3.192	0.0	100	1811620	746.1	
28 Methyl acetate	43	3.227	3.227	0.0	90	2083167	142.8	
30 Methylene Chloride	49	3.357	3.369	-0.012	79	2457393	78.8	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	98	2217730	1579.0	
32 Acrylonitrile	53	3.523	3.523	0.0	100	1237197	160.2	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	92	4702821	79.5	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	90	2421334	81.3	
35 Hexane	57	3.760	3.771	-0.011	89	1388277	82.4	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	2796750	80.8	
37 Vinyl acetate	86	3.925	3.925	0.0	96	350832	80.7	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	67	2207377	79.1	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	65	953465	84.1	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	97	336925	157.5	
47 Chlorobromomethane	49	4.564	4.576	-0.012	90	1267482	84.3	
48 Tetrahydrofuran	42	4.612	4.612	0.0	85	392170	76.9	
49 Chloroform	83	4.623	4.623	0.0	70	2517744	76.9	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	92	1638237	84.7	
51 Cyclohexane	56	4.860	4.860	0.0	86	2301860	86.1	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	95	2073524	85.5	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	70	1158658	88.8	
55 Benzene	78	5.109	5.108	0.001	94	6528217	79.8	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	89	1895003	81.3	
60 Trichloroethene	130	5.641	5.641	0.0	93	1543057	80.1	
63 Methylcyclohexane	55	5.807	5.807	0.0	89	1408722	83.4	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	95	1561437	79.5	
66 1,4-Dioxane	88	5.937	5.937	0.0	90	937401	4229.9	
65 Dibromomethane	174	5.937	5.937	0.0	91	902341	82.7	
67 Dichlorobromomethane	83	6.055	6.055	0.0	99	1859020	83.4	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	90	2027747	161.8	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	92	2566825	85.9	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	2409166	146.4	
72 Toluene	91	6.742	6.741	0.001	94	7006841	81.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	87	2203130	87.5	
74 Ethyl methacrylate	69	6.990	6.990	0.0	87	2108711	84.4	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.001	85	1384310	72.7	
77 Tetrachloroethene	166	7.239	7.238	0.0	91	1267609	84.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	2672010	76.8	
78 2-Hexanone	43	7.310	7.309	0.001	92	1691832	153.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	1357059	84.8	
123 Ethylene Dibromide	107	7.582	7.582	0.0	98	1421340	79.1	
82 Chlorobenzene	112	8.019	8.019	0.0	94	4557847	79.7	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	85	1328126	89.9	
84 Ethylbenzene	106	8.114	8.114	0.0	97	2240172	80.8	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	5744532	165.5	
85 o-Xylene	106	8.599	8.599	0.0	93	2858387	79.3	
86 Styrene	104	8.611	8.611	0.0	92	5218328	85.2	
87 Bromoform	173	8.800	8.800	0.0	94	823905	90.9	
88 Isopropylbenzene	105	8.954	8.954	0.0	94	6517923	86.2	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	99	2052408	76.5	
91 Bromobenzene	156	9.262	9.262	0.0	93	1762163	77.9	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	72	647401	74.9	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	62	482358	80.9	
94 N-Propylbenzene	120	9.357	9.357	0.001	96	1683275	81.6	
95 2-Chlorotoluene	126	9.451	9.439	0.012	96	1556308	81.5	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	91	5387955	82.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	1688677	82.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	4759139	85.5	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	76	5652131	83.7	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	6896058	86.4	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	3177853	78.4	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	5793560	85.0	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	95	3351686	80.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	95	5146665	83.9	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	96	3174832	76.0	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	89	370224	86.3	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	93	2085046	80.3	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	1963402	82.2	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	94	789707	74.9	
111 Naphthalene	128	12.492	12.492	0.0	97	5527180	77.6	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	1699416	75.5	
S 145 Trihalomethanes, Total	1				0		336.0	
S 11 1,2-Dichloroethene, Total	96				0		160.4	
S 9 1,3-Dichloropropene, Total	75				0		173.5	
S 114 Xylenes, Total	106				0		244.7	

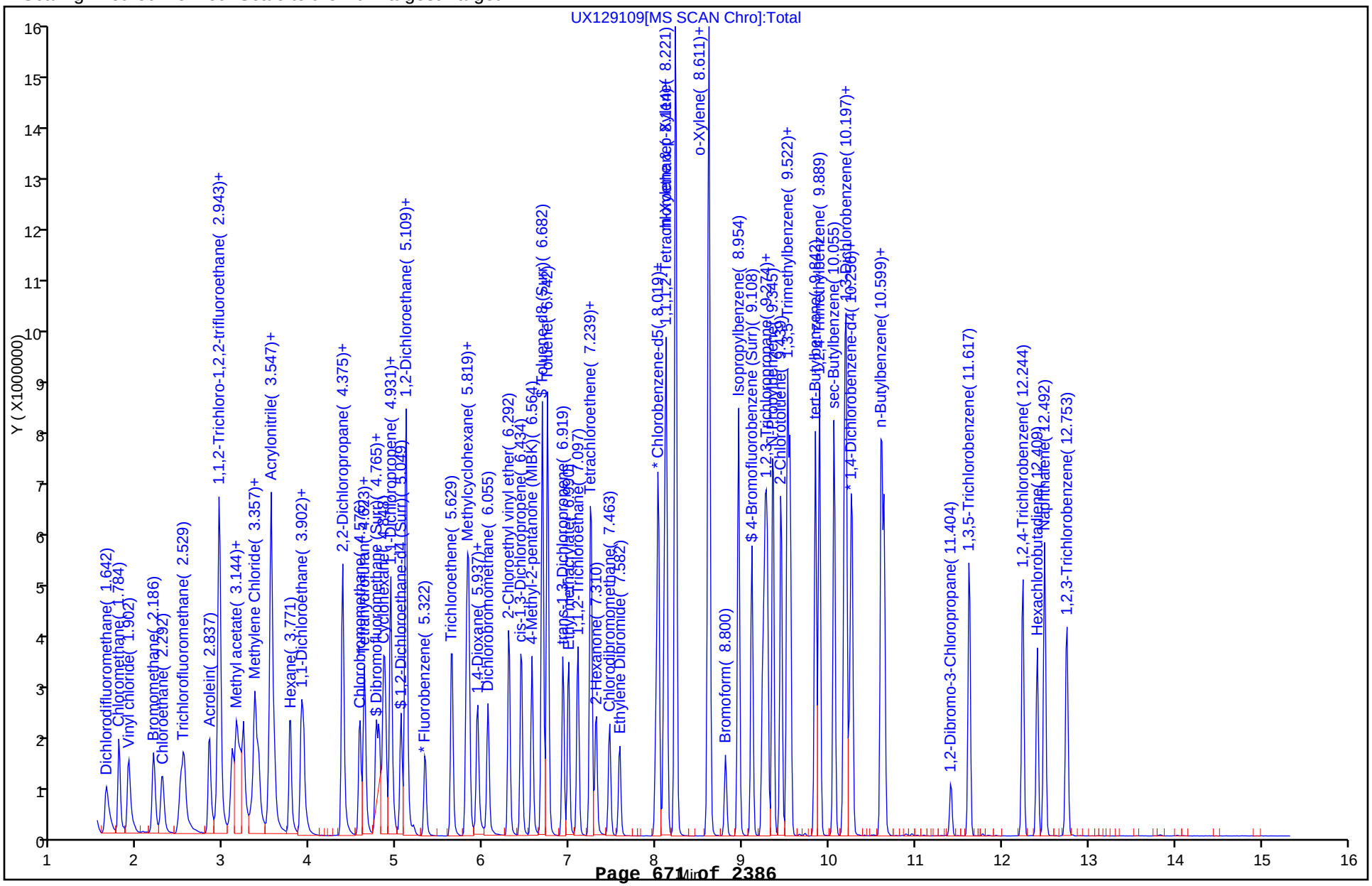
Report Date: 19-Mar-2013 22:02:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D

Injection Date:	19-Mar-2013 21:04:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	8
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-80127/11	141673.D
Level 2	IC 240-80127/10	141672.D
Level 3	IC 240-80127/9	141671.D
Level 4	IC 240-80127/8	141670.D
Level 5	IC 240-80127/7	141669.D
Level 6	ICIS 240-80127/6	141668.D
Level 7	IC 240-80127/5	141667.D
Level 8	IC 240-80127/4	141666.D
Level 9	IC 240-80127/3	141665.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2414 0.2988	0.2625 0.2996	0.2989	0.2979	0.2983	Ave		0.2854			0.1000	8.3		15.0			
Chloromethane	0.4127 0.3752	0.3493 0.3719	0.3544 0.3750	0.3620 0.3539	0.3667	Ave		0.3690			0.1000	5.1		15.0			
Vinyl chloride	0.2863 0.3047	0.2684 0.3100	0.2929 0.3140	0.2935 0.3074	0.2980	Ave		0.2972			0.1000	4.7		15.0			
Bromomethane	0.1193 0.0891	0.1211 0.0909	0.0900 0.0928	0.0861 0.0957	0.0920	Ave		0.0974			0.0500	14.0		15.0			
Chloroethane	0.1403 0.1411	0.1379 0.1317	0.1345 0.1443	0.1325 0.1499	0.1318	Ave		0.1382				4.6		15.0			
Dichlorofluoromethane	0.4395 0.4038	0.4005 0.3975	0.3938 0.4011	0.3886 0.4068	0.3931	Ave		0.4028				3.7		15.0			
Trichlorofluoromethane	0.3380 0.3967	0.3612 0.3977	0.3619 0.4009	0.3694 0.4083	0.3802	Ave		0.3794			0.1000	6.2		15.0			
Ethyl ether	0.2805 0.2124	0.2378 0.2122	0.2226 0.2151	0.2078 0.2201	0.2206	Ave		0.2254				9.9		15.0			
Acrolein	+++++ 0.0327	+++++ 0.0319	0.0318 0.0322	0.0297 0.0326	0.0318	Ave		0.0318				3.2		15.0			
1,1-Dichloroethene	0.2012 0.2406	0.2035 0.2375	0.2330 0.2471	0.2162 0.2502	0.2350	Ave		0.2294			0.1000	7.9		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2072	+++++ 0.2076	0.1840 0.2139	0.1842 0.2125	0.2022	Ave		0.2017			0.0500	6.2		15.0			
Acetone	+++++ 0.0700	+++++ 0.0663	0.1121 0.0637	0.0760 0.0641	0.0725	Lin1	0.4196	0.0633			0.0500				0.9990		0.9950
Iodomethane	0.3127 0.3931	0.3490 0.4020	0.3627 0.4093	0.3536 0.4044	0.3786	Ave		0.3739				8.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 0.6299	+++++ 0.6770	0.4409 0.7217	0.4534 0.7250	0.5366	Lin1	-2.215	0.7209			0.1000				0.9980		0.9950
3-Chloro-1-propene	+++++ 0.1430	+++++ 0.1458	0.1110 0.1516	0.1108 0.1530	0.1315	Ave		0.1352				13.0		15.0			
Methyl acetate	0.1722 0.1710	0.1765 0.1691	0.1728 0.1715	0.1590 0.1726	0.1736	Ave		0.1709			0.1000	2.9		15.0			
Methylene Chloride	+++++ 0.2556	+++++ 0.2468	0.3303 0.2480	0.2827 0.2480	0.2755	Ave		0.2696			0.1000	11.0		15.0			
2-Methyl-2-propanol	0.0212 0.0164	0.0178 0.0173	0.0183 0.0159	0.0142 0.0159	0.0163	Ave		0.0170				12.0		15.0			
Acrylonitrile	0.0838 0.0820	0.0869 0.0824	0.0814 0.0831	0.0759 0.0838	0.0821	Ave		0.0824				3.5		15.0			
trans-1,2-Dichloroethene	0.2315 0.2772	0.2442 0.2727	0.2698 0.2759	0.2595 0.2759	0.2711	Ave		0.2642			0.1000	6.1		15.0			
Methyl tert-butyl ether	0.5261 0.6109	0.5976 0.6150	0.5887 0.6288	0.5559 0.6423	0.6002	Ave		0.5962			0.1000	6.0		15.0			
Hexane	0.0589 0.0725	0.0711 0.0728	0.0754 0.0754	0.0710 0.0767	0.0760	Ave		0.0722				7.5		15.0			
1,1-Dichloroethane	0.4346 0.5093	0.5050 0.5056	0.4791 0.5170	0.4618 0.5255	0.5028	Ave		0.4934			0.1000	5.9		15.0			
Vinyl acetate	0.0294 0.0435	0.0373 0.0469	0.0350	0.0390	0.0402	Ave		0.0388				15.0		15.0			
2,2-Dichloropropane	+++++ 0.2427	+++++ 0.2578	0.1939 0.2579	0.1965 0.2524	0.2248	Ave		0.2323				12.0		15.0			
cis-1,2-Dichloroethene	0.2654 0.2929	0.2684 0.2915	0.2909 0.2933	0.2742 0.2928	0.2913	Ave		0.2845			0.1000	4.1		15.0			
2-Butanone (MEK)	+++++ 0.1012	+++++ 0.1037	0.1074 0.1018	0.0943 0.1035	0.1001	Ave		0.1017			0.0500	4.0		15.0			
Bromochloromethane	0.1085 0.1335	0.1232 0.1330	0.1303 0.1351	0.1191 0.1352	0.1296	Ave		0.1275				7.1		15.0			
Tetrahydrofuran	0.0816 0.0667	0.0762 0.0673	0.0682 0.0670	0.0630 0.0670	0.0683	Ave		0.0695				8.2		15.0			
Chloroform	0.3787 0.4507	0.4159 0.4392	0.4227 0.4479	0.4030 0.4534	0.4386	Ave		0.4278				5.9		15.0			
1,1,1-Trichloroethane	+++++ 0.3477	+++++ 0.3577	0.2839 0.3642	0.2870 0.3606	0.3233	Ave		0.3321			0.1000	10.0		15.0			
Cyclohexane	0.3872 0.5310	0.4665 0.5255	0.4940 0.5298	0.4940 0.5334	0.5270	Ave		0.4987			0.1000	9.6		15.0			
1,1-Dichloropropene	0.3028 0.3554	0.3193 0.3514	0.3506 0.3533	0.3333 0.3591	0.3536	Ave		0.3421				5.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Carbon tetrachloride	+++++ 0.3324	+++++ 0.3489	0.2584 0.3653	0.2654 0.3747	0.3055	Ave		0.3215			0.1000	14.0		15.0			
Isobutyl alcohol	0.0073 0.0068	0.0070 0.0072	0.0068 0.0072	0.0061 0.0073	0.0067	Ave		0.0069				5.4		15.0			
Benzene	1.0390 1.0712	1.0450 1.0569	1.0968 1.0668	1.0216 1.0732	1.0690	Ave		1.0599			0.5000	2.1		15.0			
1,2-Dichloroethane	0.3427 0.3383	0.3492 0.3339	0.3493 0.3441	0.3241 0.3486	0.3422	Ave		0.3414			0.1000	2.4		15.0			
n-Heptane	0.0717 0.0879	0.0783 0.0865	0.0842 0.0890	0.0820 0.0906	0.0865	Ave		0.0841				7.1		15.0			
Trichloroethene	0.3189 0.3118	0.3184 0.3039	0.3173 0.3074	0.2895 0.3116	0.3120	Ave		0.3101			0.2000	3.0		15.0			
Methylcyclohexane	0.3612 0.4847	0.3880 0.4711	0.4739 0.4750	0.4492 0.4783	0.4807	Ave		0.4513			0.1000	10.0		15.0			
1,2-Dichloropropane	0.2323 0.2776	0.2468 0.2725	0.2703 0.2765	0.2536 0.2811	0.2745	Ave		0.2650			0.1000	6.3		15.0			
Dibromomethane	0.1292 0.1268	0.1265 0.1273	0.1165 0.1301	0.1169 0.1310	0.1250	Ave		0.1255				4.2		15.0			
1,4-Dioxane	0.0017 0.0018	0.0020 0.0019	0.0019 0.0019	0.0019 0.0019	0.0020	Ave		0.0019				4.7		15.0			
Bromodichloromethane	0.1665 0.2811	0.1848 0.2931	0.2074 0.3125	0.2126 0.3184	0.2476	Lin1	-0.292	0.3084			0.1000				0.9970		0.9950
2-Chloroethyl vinyl ether	0.0825 0.1062	0.0843 0.1097	0.0945 0.1122	0.0962 0.1145	0.1061	Ave		0.1007				12.0		15.0			
cis-1,3-Dichloropropene	0.1858 0.3458	0.2012 0.3620	0.2358 0.3774	0.2671 0.3851	0.3115	Lin1	-0.372	0.3750			0.1500				0.9970		0.9950
4-Methyl-2-pentanone (MIBK)	0.2731 0.3154	0.2990 0.3142	0.2951 0.3193	0.2856 0.3128	0.3174	Ave		0.3035			0.0500	5.4		15.0			
Toluene	1.7149 1.7111	1.6767 1.6600	1.7241 1.6819	1.6298 1.6715	1.6960	Ave		1.6851			0.4000	1.8		15.0			
trans-1,3-Dichloropropene	0.2095 0.3897	0.2327 0.4076	0.2871 0.4383	0.2962 0.4393	0.3457	Lin1	-0.431	0.4288			0.1000				0.9970		0.9950
Ethyl methacrylate	0.2964 0.3630	0.2619 0.3706	0.3126 0.3790	0.3088 0.3754	0.3481	Ave		0.3351				12.0		15.0			
1,1,2-Trichloroethane	0.2428 0.2682	0.2425 0.2602	0.2645 0.2673	0.2508 0.2600	0.2728	Ave		0.2588			0.1000	4.3		15.0			
Tetrachloroethene	0.3039 0.3548	0.3419 0.3467	0.3661 0.3502	0.3533 0.3500	0.3540	Ave		0.3468			0.2000	5.0		15.0			
1,3-Dichloropropane	0.4492 0.4698	0.4610 0.4518	0.4877 0.4650	0.4496 0.4550	0.4750	Ave		0.4627				2.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Hexanone	0.1967 0.2018	0.1938 0.2051	0.2044 0.2057	0.1954 0.2047	0.2048	Ave		0.2014			0.0500	2.4		15.0			
Dibromochloromethane	+++++ 0.2720	+++++ 0.2932	0.1742 0.3182	0.1959 0.3198	0.2299	Lin1	-1.073	0.3172							0.9980		0.9950
1,2-Dibromoethane	0.2214 0.2692	0.2214 0.2623	0.2429 0.2655	0.2408 0.2583	0.2640	Ave		0.2495				7.5		15.0			
Chlorobenzene	1.0858 1.0420	1.0498 1.0089	1.0708 1.0365	1.0311 1.0162	1.0486	Ave		1.0433			0.3000	2.3		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3557	+++++ 0.3579	0.2892 0.3709	0.2852 0.3637	0.3227	Ave		0.3351				11.0		15.0			
Ethylbenzene	0.5044 0.5810	0.5717 0.5663	0.5809 0.5736	0.5559 0.5701	0.5730	Ave		0.5641				4.2		15.0			
m-Xylene & p-Xylene	0.7086 0.7106	0.6724 0.6899	0.7107 0.6995	0.6733 0.6943	0.7021	Ave		0.6957				2.1		15.0			
o-Xylene	0.6435 0.6789	0.6289 0.6572	0.6804 0.6702	0.6451 0.6492	0.6698	Ave		0.6581				2.7		15.0			
Styrene	0.8274 1.0726	0.8794 1.0793	1.0058 1.1202	0.9956 1.0814	1.0504	Ave		1.0124			0.3000	9.8		15.0			
Bromoform	0.0628 0.1351	0.0691 0.1519	0.0883 0.1774	0.0865 0.1789	0.1095	Qua	-0.414	0.1429	0.0002		0.1000				0.9990		0.9900
Isopropylbenzene	1.4863 1.8374	1.5543 1.8245	1.7522 1.8738	1.7222 1.8287	1.7586	Ave		1.7376			0.1000	7.7		15.0			
1,1,2,2-Tetrachloroethane	0.4922 0.6097	0.5319 0.6226	0.5699 0.6245	0.5698 0.6291	0.6105	Ave		0.5845			0.3000	8.1		15.0			
Bromobenzene	0.8794 0.9086	0.8894 0.8687	0.9230 0.8698	0.8658 0.8604	0.9141	Ave		0.8866				2.6		15.0			
1,2,3-Trichloropropane	0.2247 0.2006	0.1831 0.1983	0.2046 0.1924	0.1931 0.1937	0.1971	Ave		0.1986				5.8		15.0			
trans-1,4-Dichloro-2-butene	0.1783 0.2011	0.1588 0.2040	0.1648 0.2115	0.1766 0.2174	0.1908	Ave		0.1893				11.0		15.0			
N-Propylbenzene	0.8714 1.1378	0.8984 1.1075	1.0966 1.0908	1.0721 1.0988	1.1150	Ave		1.0543				9.3		15.0			
2-Chlorotoluene	0.8478 0.9453	0.8256 0.9250	0.9440 0.9110	0.9111 0.9051	0.9257	Ave		0.9045				4.6		15.0			
1,3,5-Trimethylbenzene	2.4622 3.2341	2.6772 3.2175	3.0288 3.2310	2.9964 3.2278	3.1042	Ave		3.0199				9.1		15.0			
4-Chlorotoluene	0.8550 0.9611	0.9085 0.9200	0.9682 0.9121	0.9169 0.9125	0.9394	Ave		0.9215				3.6		15.0			
tert-Butylbenzene	2.3433 3.0252	2.4691 3.0304	2.9041 3.0351	2.8580 3.0099	2.9154	Ave		2.8434				9.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.5713 3.2449	2.8097 3.2110	3.1075 3.2443	3.0387 3.2412	3.1352	Ave		3.0671				7.6		15.0			
sec-Butylbenzene	3.0202 4.1726	3.5118 4.1913	3.9871 4.1939	3.8905 4.2312	4.0379	Ave		3.9152				10.0		15.0			
1,3-Dichlorobenzene	1.8921 1.7295	1.7519 1.7301	1.8573 1.6669	1.7079 1.6793	1.7584	Ave		1.7526			0.6000	4.3		15.0			
4-Isopropyltoluene	2.7348 3.5594	2.9655 3.6134	3.3479 3.6531	3.3233 3.6038	3.4583	Ave		3.3622				9.4		15.0			
1,4-Dichlorobenzene	2.0359 1.6987	1.8705 1.6709	1.8154 1.6745	1.7099 1.6701	1.7299	Ave		1.7640			0.5000	7.0		15.0			
n-Butylbenzene	2.4783 3.0293	2.5738 3.0453	2.9781 3.0827	2.9004 3.0798	2.9748	Ave		2.9047				7.7		15.0			
1,2-Dichlorobenzene	1.7167 1.5609	1.6514 1.5736	1.7263 1.5730	1.5297 1.5669	1.5641	Ave		1.6070			0.4000	4.5		15.0			
1,2-Dibromo-3-Chloropropane	0.0694 0.0842	0.0791 0.1057	0.0648	0.0735	0.0778	Qua	0.0299	0.0640	0.0004		0.0500				1.0000		0.9900
1,2,4-Trichlorobenzene	+++++ 0.8826	+++++ 0.9885	1.1626 1.0562	1.0374 1.0417	0.9118	Ave		1.0115			0.2000	9.3		15.0			
Hexachlorobutadiene	+++++ 0.4531	+++++ 0.4437	0.6228 0.4963	0.5647 0.4941	0.5068	Ave		0.5116				12.0		15.0			
Naphthalene	+++++ 1.7277	+++++ 2.0945	2.2787	1.9611	1.8020	Ave		1.9728				11.0		15.0			
1,2,3-Trichlorobenzene	+++++ 0.6835	+++++ 0.8063	1.0581 0.8906	0.8421	0.7353	Qua	1.1571	0.6622	0.0011						0.9990		0.9900
Dibromofluoromethane (Surr)	1.1908 0.2401	0.7258 0.2470	0.4724 0.2511	0.3541 0.2537	0.2903	Lin1	0.9660	0.2445							0.9990		0.9950
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2610	+++++ 0.2661	0.5658 0.2702	0.4181 0.2755	0.3316	Lin1	1.4297	0.2617							0.9980		0.9950
Toluene-d8 (Surr)	+++++ 1.4165	+++++ 1.4023	3.0068 1.4186	2.2245 1.4020	1.7435	Lin1	8.0196	1.3564							0.9990		0.9950
4-Bromofluorobenzene (Surr)	+++++ 0.9854	+++++ 1.0360	2.1334 1.0051	1.5795 1.0072	1.2584	Lin1	5.6406	0.9730							0.9990		0.9950

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-80127/11	141673.D
Level 2	IC 240-80127/10	141672.D
Level 3	IC 240-80127/9	141671.D
Level 4	IC 240-80127/8	141670.D
Level 5	IC 240-80127/7	141669.D
Level 6	ICIS 240-80127/6	141668.D
Level 7	IC 240-80127/5	141667.D
Level 8	IC 240-80127/4	141666.D
Level 9	IC 240-80127/3	141665.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	5995 384066	12576 764747	37785	79303	150340	1.00 50.0	2.00 100	5.00	10.0	20.0
Chloromethane	FB	Ave	10249 482247	16733 949269	44791 1889964	96385 2174787	184845	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Vinyl chloride	FB	Ave	7109 391674	12858 791227	37022 1582302	78146 1888946	150215	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Bromomethane	FB	Ave	2964 114533	5800 232002	11372 467734	22917 587948	46385	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Chloroethane	FB	Ave	3485 181388	6607 336051	17000 727475	35264 921111	66418	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Dichlorofluoromethane	FB	Ave	10916 519005	19185 1014504	49773 2021495	103470 2500242	198146	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Trichlorofluoromethane	FB	Ave	8393 509898	17300 1015150	45747 2020341	98339 2509228	191645	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Ethyl ether	FB	Ave	6966 273001	11391 541542	28137 1083988	55319 1352454	111184	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Acrolein	FB	Ave	+++++ 419888	+++++ 813789	40200 1625125	79077 2005921	160333	+++++ 500	+++++ 1000	50.0 2000	100 2500	200
1,1-Dichloroethene	FB	Ave	4996 309321	9746 606092	29452 1245442	57564 1537559	118436	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	+++++ 266264	+++++ 529727	23261 1078206	49046 1305863	101906	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Acetone	FB	Lin1	+++++ 179967	+++++ 338437	28343 641818	40463 788160	73127	+++++ 100	+++++ 200	10.0 400	20.0 500	40.0
Iodomethane	FB	Ave	7765 505260	16717 1026112	45850 2062602	94140 2485578	190805	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Carbon disulfide	FB	Lin1	+++++ 809709	+++++ 1727805	55727 3637177	120702 4455446	270446	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
3-Chloro-1-propene	FB	Ave	+++++ 183822	+++++ 372076	14025 764141	29497 940405	66288	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Methyl acetate	FB	Ave	21386 1099059	42269 2158500	109236 4320590	211623 5302324	437383	5.00 250	10.0 500	25.0 1000	50.0 1250	100
Methylene Chloride	FB	Ave	+++++ 328593	+++++ 630017	41745 1249829	75274 1523990	138859	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
2-Methyl-2-propanol	FB	Ave	5264 210767	8538 441987	23079 801288	37847 974925	82181	10.0 500	20.0 1000	50.0 2000	100 2500	200
Acrylonitrile	FB	Ave	20805 1053509	41601 2102664	102856 4188923	202062 5148980	414053	10.0 500	20.0 1000	50.0 2000	100 2500	200
trans-1,2-Dichloroethene	FB	Ave	5750 356326	11699 696061	34102 1390446	69076 1695682	136663	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Methyl tert-butyl ether	FB	Ave	13065 785249	28623 1569755	74407 3169088	147988 3947410	302544	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Hexane	FB	Ave	1463 93183	3406 185904	9535 380246	18891 471238	38311	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1-Dichloroethane	FB	Ave	10792 654641	24191 1290314	60560 2605755	122950 3229819	253425	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Vinyl acetate	FB	Ave	731 55896	1788 119739	4426	10377	20238	1.00 50.0	2.00 100	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 311907	+++++ 657926	24512 1299900	52328 1550962	113299	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
cis-1,2-Dichloroethene	FB	Ave	6591 376473	12856 743893	36773 1478270	72998 1799354	146833	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Butanone (MEK)	FB	Ave	+++++ 260176	+++++ 529140	27138 1026432	50186 1272512	100893	+++++ 100	+++++ 200	10.0 400	20.0 500	40.0
Bromochloromethane	FB	Ave	2694 171657	5903 339369	16473 681018	31707 831171	65302	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Tetrahydrofuran	FB	Ave	4053 171507	7302 343757	17236 675319	33540 823102	68818	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Chloroform	FB	Ave	9406 579362	19920 1121062	53430 2257063	107287 2786714	221086	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,1-Trichloroethane	FB	Ave	+++++ 446980	+++++ 912874	35880 1835461	76406 2216376	162941	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Cyclohexane	FB	Ave	9617 682502	22347 1341219	62445 2670098	131522 3277951	265642	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1-Dichloropropene	FB	Ave	7521 456847	15293 896731	44314 1780376	88740 2206944	178238	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Carbon tetrachloride	FB	Ave	+++++ 427266	+++++ 890505	32666 1840945	70663 2302836	153965	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Isobutyl alcohol	FB	Ave	4531 218358	8364 461032	21481 904777	40734 1115325	84736	25.0 1250	50.0 2500	125 5000	250 6250	500

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzene	FB	Ave	25803 1376887	50055 2697424	138640 5376161	271978 6595955	538837	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichloroethane	FB	Ave	8511 434871	16727 852106	44154 1734215	86284 2142294	172468	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
n-Heptane	FB	Ave	1780 113030	3750 220707	10649 448298	21837 556955	43622	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Trichloroethene	FB	Ave	7919 400779	15249 775617	40106 1549091	77074 1914749	157278	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Methylcyclohexane	FB	Ave	8970 623015	18586 1202266	59905 2393962	119600 2939268	242287	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichloropropane	FB	Ave	5770 356825	11822 695406	34166 1393475	67507 1727537	138377	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Dibromomethane	FB	Ave	3208 162976	6061 324986	14731 655473	31110 805046	62992	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,4-Dioxane	FB	Ave	845 47479	1926 98385	4718 191864	10340 234353	19929	20.0 1000	40.0 2000	100 4000	200 5000	400
Bromodichloromethane	FB	Lin1	4134 361255	8854 747993	26212 1574921	56613 1956685	124799	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Chloroethyl vinyl ether	FB	Ave	4097 272934	8079 559875	23890 1130814	51197 1407012	106910	2.00 100	4.00 200	10.0 400	20.0 500	40.0
cis-1,3-Dichloropropene	FB	Lin1	4615 444436	9636 923818	29809 1901930	71109 2366962	157008	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	8983 534541	18879 1085084	48609 2172432	99480 2665512	211843	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Toluene	CBZ	Ave	28207 1450184	52939 2866124	142007 5722077	283830 7121115	566046	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
trans-1,3-Dichloropropene	CBZ	Lin1	3446 330257	7347 703694	23647 1490980	51586 1871674	115389	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Ethyl methacrylate	CBZ	Ave	4876 307669	8269 639857	25748 1289332	53776 1599198	116187	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,2-Trichloroethane	CBZ	Ave	3993 227277	7657 449289	21785 909290	43676 1107537	91031	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Tetrachloroethene	CBZ	Ave	4998 300695	10795 598619	30153 1191518	61534 1491026	118145	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,3-Dichloropropane	CBZ	Ave	7389 398186	14556 780007	40174 1581794	78294 1938642	158534	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Hexanone	CBZ	Ave	6470 342035	12238 708137	33674 1399595	68073 1744579	136713	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Dibromochloromethane	CBZ	Lin1	+++++ 230536	+++++ 506273	14348 1082498	34113 1362354	76731	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
1,2-Dibromoethane	CBZ	Ave	3642 228134	6989 452947	20005 903400	41941 1100376	88124	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorobenzene	CBZ	Ave	17859 883136	33145 1741969	88200 3526347	179576 4329447	349981	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	+++++ 301455	+++++ 617998	23823 1261669	49671 1549574	107708	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Ethylbenzene	CBZ	Ave	8296 492413	18051 977812	47847 1951347	96806 2428956	191237	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
m-Xylene & p-Xylene	CBZ	Ave	11656 602270	21230 1191172	58542 2379624	117256 2957972	234337	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
o-Xylene	CBZ	Ave	10585 575333	19856 1134682	56045 2279973	112351 2765691	223532	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Styrene	CBZ	Ave	13609 909029	27767 1863397	82843 3810848	173395 4607155	350553	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Bromoform	CBZ	Qua	1033 114519	2183 262261	7271 603440	15062 762194	36549	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Isopropylbenzene	CBZ	Ave	24447 1557219	49077 3150029	144321 6374950	299925 7791108	586913	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	3757 232504	7892 491861	21893 994721	45168 1229747	90265	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Bromobenzene	DCB	Ave	6712 346479	13197 686253	35455 1385417	68627 1681891	135151	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2,3-Trichloropropane	DCB	Ave	1715 76505	2717 156663	7861 306535	15308 378523	29138	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	1361 76700	2356 161179	6330 336946	13996 425031	28206	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
N-Propylbenzene	DCB	Ave	6651 433915	13330 874885	42125 1737514	84983 2147763	164862	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Chlorotoluene	DCB	Ave	6471 360473	12250 730772	36261 1451111	72221 1769074	136870	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,3,5-Trimethylbenzene	DCB	Ave	18793 1233325	39724 2541770	116348 5146435	237509 6309206	458973	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
4-Chlorotoluene	DCB	Ave	6526 366523	13481 726805	37191 1452776	72680 1783699	138902	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
tert-Butylbenzene	DCB	Ave	17886 1153651	36637 2394016	111555 4834309	226540 5883385	431067	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2,4-Trimethylbenzene	DCB	Ave	19626 1237447	41691 2536688	119371 5167541	240863 6335442	463568	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
sec-Butylbenzene	DCB	Ave	23052 1591228	52109 3311093	153156 6680041	308380 8270519	597026	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,3-Dichlorobenzene	DCB	Ave	14442 659542	25995 1366763	71345 2655040	135378 3282502	259988	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
4-Isopropyltoluene	DCB	Ave	20874 1357367	44003 2854539	128602 5818773	263424 7044257	511329	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80127

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/01/2013 14:03 Calibration End Date: 04/01/2013 16:55 Calibration ID: 14354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dichlorobenzene	DCB	Ave	15539 647811	27755 1319952	69736 2667224	135533 3264493	255782	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
n-Butylbenzene	DCB	Ave	18916 1155240	38190 2405787	114399 4910129	229898 6019950	439842	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichlorobenzene	DCB	Ave	13103 595262	24504 1243139	66313 2505481	121248 3062810	231257	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dibromo-3-Chloropropane	DCB	Qua	530 32108	1173 83535	2490	5824	11502	1.00 50.0	2.00 100	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 336594	+++++ 780877	44661 1682390	82228 2036121	134816	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Hexachlorobutadiene	DCB	Ave	+++++ 172776	+++++ 350533	23922 790485	44761 965800	74937	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Naphthalene	DCB	Ave	+++++ 658860	+++++ 1654592	87532	155447	266441	+++++ 50.0	+++++ 100	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Qua	+++++ 260636	+++++ 636994	40647 1418552	66746	108714	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Lin1	29574 308631	34767 630308	59709 1265439	94284 1558963	146298	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin1	+++++ 335525	+++++ 679113	71515 1361901	111312 1692874	167163	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Toluene-d8 (Surr)	CBZ	Lin1	+++++ 1200479	+++++ 2421189	247665 4826243	387397 5973057	581877	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
4-Bromofluorobenzene (Surr)	DCB	Lin1	+++++ 375791	+++++ 818425	81950 1600928	125200 1968745	186058	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141665.D
Lims ID: IC Client ID:
Inject. Date: 01-Apr-2013 14:03:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: ic
Misc. Info.: 240-0018434-003 =240-0018434-003
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 2
Lims Batch ID: 80127 Lims Sample ID: 3
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:44:48 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 01-Apr-2013 14:47:12

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	95	1229165	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	94	852072	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	94	390933	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.257	0.001	71	1558963	255.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	97	1692874	257.6	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	5973057	252.5	
$ 131 4-Bromofluorobenzene (Surr)	95	10.636	10.636	0.0	94	1968745	253.0	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	99	1857149	264.7	
13 Chloromethane	50	1.643	1.643	0.0	100	2174787	239.7	
14 Vinyl chloride	62	1.773	1.773	0.0	99	1888946	258.5	
15 Bromomethane	94	2.116	2.116	0.0	91	587948	245.4	
16 Chloroethane	64	2.234	2.234	0.0	97	921111	271.1	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	99	2500242	252.5	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	99	2509228	269.1	
19 Ethyl ether	59	2.933	2.921	0.012	98	1352454	244.0	
20 Acrolein	56	3.086	3.086	0.0	96	2005921	2564.2	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	96	1537559	272.7	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	92	1305863	263.4	
22 Acetone	43	3.311	3.311	0.0	99	788160	499.8	
24 Iodomethane	142	3.406	3.406	0.0	98	2485578	270.4	
26 Carbon disulfide	76	3.477	3.477	0.0	100	4455446	254.5	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	87	940405	282.9	
28 Methyl acetate	43	3.832	3.820	0.012	97	5302324	1261.9	
30 Methylene Chloride	84	3.962	3.950	0.012	98	1523990	230.0	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	95	974925	2328.6	
32 Acrylonitrile	53	4.364	4.364	0.0	99	5148980	2542.9	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	95	1695682	261.1	
34 Methyl tert-butyl ether	73	4.424	4.411	0.013	93	3947410	269.3	
35 Hexane	86	4.802	4.802	0.0	96	471238	265.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.980	4.979	0.001	97	3229819	266.3	
37 Vinyl acetate	86	5.098	5.098	0.0	97	297151	311.9	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	90	1550962	271.6	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	1799354	257.3	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	99	1272512	509.0	
47 Chlorobromomethane	128	5.985	5.973	0.012	97	831171	265.2	
48 Tetrahydrofuran	42	6.033	6.033	0.0	91	823102	481.9	
49 Chloroform	83	6.092	6.092	0.0	96	2786714	265.0	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	95	2216376	271.5	
51 Cyclohexane	56	6.317	6.317	0.0	94	3277951	267.4	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	2206944	262.4	
53 Carbon tetrachloride	117	6.435	6.435	0.0	88	2302836	291.4	
54 Isobutyl alcohol	41	6.636	6.636	0.0	94	1115325	6545.1	
55 Benzene	78	6.648	6.648	0.0	97	6595955	253.1	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	2142294	255.3	
58 n-Heptane	100	6.944	6.944	0.0	97	556955	269.4	
60 Trichloroethene	130	7.287	7.287	0.0	97	1914749	251.2	
63 Methylcyclohexane	83	7.465	7.464	0.001	97	2939268	264.9	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	93	1727537	265.2	
65 Dibromomethane	93	7.607	7.606	0.001	89	805046	261.0	
66 1,4-Dioxane	88	7.630	7.630	0.0	97	234353	5022.9	
67 Dichlorobromomethane	83	7.760	7.760	0.0	98	1956685	259.1	
69 2-Chloroethyl vinyl ether	63	8.033	8.032	0.001	93	1407012	568.5	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	90	2366962	257.7	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	98	2665512	515.3	
72 Toluene	91	8.459	8.458	0.001	97	7121115	248.0	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	1871674	257.1	
74 Ethyl methacrylate	69	8.731	8.730	0.001	92	1599198	280.0	
75 1,1,2-Trichloroethane	97	8.814	8.813	0.001	93	1107537	251.2	
77 Tetrachloroethene	164	8.932	8.932	0.0	98	1491026	252.3	
76 1,3-Dichloropropane	76	8.956	8.955	0.001	97	1938642	245.9	
78 2-Hexanone	43	9.015	9.014	0.001	99	1744579	508.3	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	1362354	255.4	
123 Ethylene Dibromide	107	9.251	9.251	0.0	99	1100376	258.8	
82 Chlorobenzene	112	9.666	9.665	0.001	93	4329447	243.5	
83 1,1,1,2-Tetrachloroethane	131	9.737	9.736	0.001	95	1549574	271.4	
84 Ethylbenzene	106	9.760	9.760	0.0	98	2428956	252.7	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	100	2957972	249.5	
85 o-Xylene	106	10.186	10.186	0.0	95	2765691	246.6	
86 Styrene	104	10.198	10.198	0.0	92	4607155	267.0	
87 Bromoform	173	10.364	10.363	0.001	98	762194	247.6	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	7791108	263.1	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	91	1229747	269.1	
91 Bromobenzene	156	10.766	10.766	0.0	93	1681891	242.6	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.789	0.001	90	425031	287.2	
92 1,2,3-Trichloropropane	110	10.790	10.789	0.001	81	378523	243.7	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	2147763	260.6	
95 2-Chlorotoluene	126	10.932	10.920	0.012	97	1769074	250.2	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	93	6309206	267.2	
104 4-Chlorotoluene	126	11.014	11.014	0.0	98	1783699	247.6	
97 tert-Butylbenzene	119	11.275	11.275	0.0	91	5883385	264.6	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	71	6335442	264.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	8270519	270.2	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	98	3282502	239.5	
101 4-Isopropyltoluene	119	11.571	11.570	0.001	96	7044257	268.0	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	96	3264493	236.7	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	6019950	265.1	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	99	3062810	243.8	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	88	243982	207.9	
109 1,2,4-Trichlorobenzene	180	13.286	13.274	0.012	94	2036121	257.4	
110 Hexachlorobutadiene	225	13.405	13.404	0.001	98	965800	241.4	
111 Naphthalene	128	13.476	13.475	0.001	97	4297782	278.6	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	95	1714918	235.5	
S 137 Trihalomethanes, Total	1				0		1027.0	
S 11 1,2-Dichloroethene, Total	96				0		518.3	
S 9 1,3-Dichloropropene, Total	75				0		514.9	
S 114 Xylenes, Total	106				0		496.1	

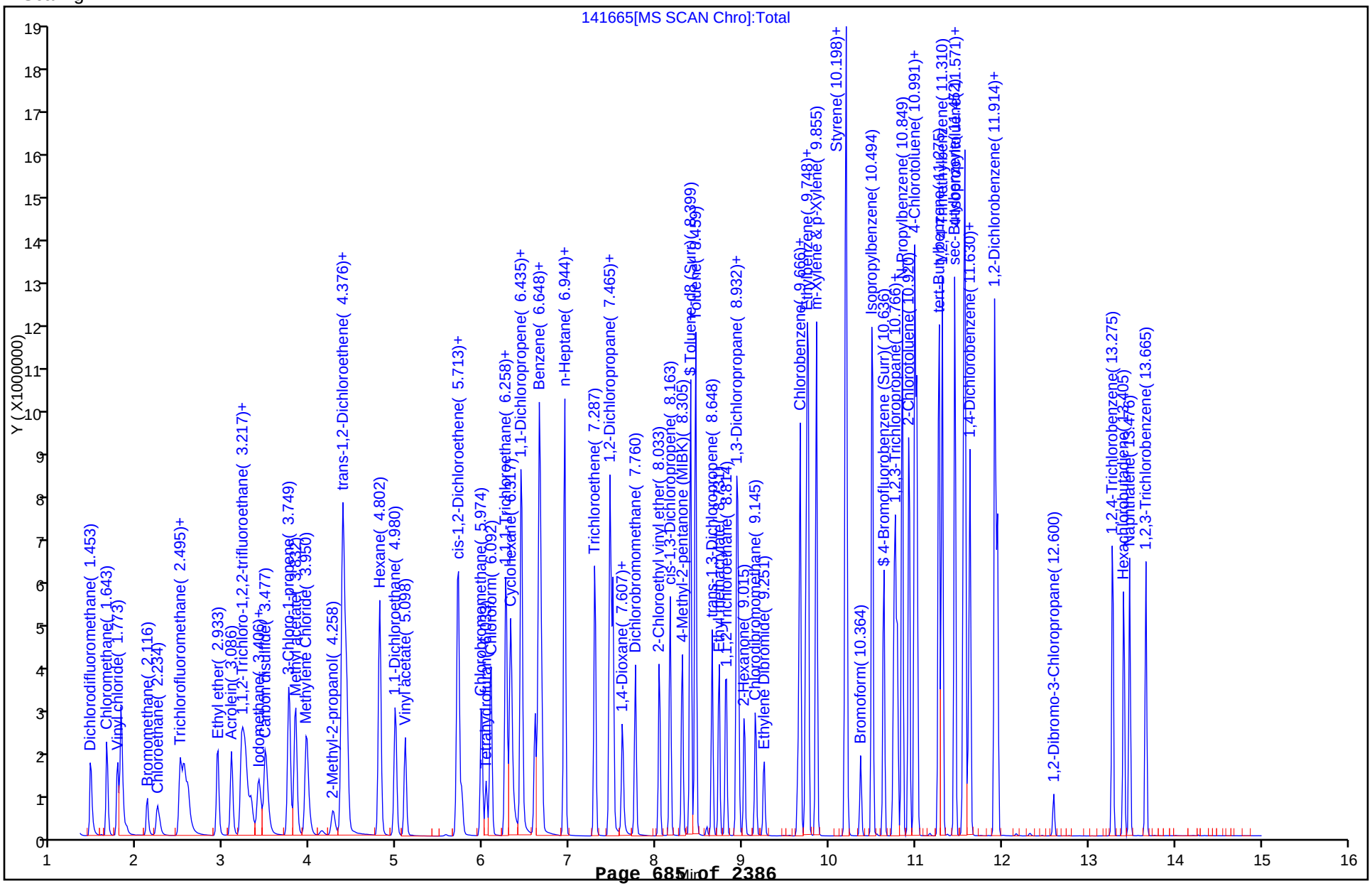
Report Date: 03-Apr-2013 12:44:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141665.D

Injection Date:	01-Apr-2013 14:03:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	3
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141666.D
Lims ID: IC Client ID:
Inject. Date: 01-Apr-2013 14:25:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: ic
Misc. Info.: 240-0018434-004 =240-0018434-004
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 80127 Lims Sample ID: 4
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:44:49 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 01-Apr-2013 14:48:41

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	95	1259929	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	96	850515	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	398203	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.257	0.0	81	1265439	201.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	97	1361901	201.0	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	4826243	203.3	
$ 131 4-Bromofluorobenzene (Surr)	95	10.636	10.636	0.0	95	1600928	200.8	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	99	1548996	215.4	
13 Chloromethane	50	1.643	1.643	0.0	100	1889964	203.3	
14 Vinyl chloride	62	1.773	1.773	0.0	99	1582302	211.3	
15 Bromomethane	94	2.116	2.116	0.0	90	467734	190.5	
16 Chloroethane	64	2.234	2.234	0.0	97	727475	208.9	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	99	2021495	199.2	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	99	2020341	211.3	
19 Ethyl ether	59	2.932	2.921	0.011	98	1083988	190.8	
20 Acrolein	56	3.086	3.086	0.0	94	1625125	2026.7	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	97	1245442	215.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	92	1078206	212.2	
22 Acetone	43	3.311	3.311	0.0	99	641818	395.7	
24 Iodomethane	142	3.406	3.406	0.0	98	2062602	218.9	
26 Carbon disulfide	76	3.477	3.477	0.0	100	3637177	203.3	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	83	764141	224.2	
28 Methyl acetate	43	3.832	3.820	0.012	97	4320590	1003.2	
30 Methylene Chloride	84	3.950	3.950	0.0	98	1249829	184.0	
31 2-Methyl-2-propanol	59	4.270	4.258	0.012	94	801288	1867.1	
32 Acrylonitrile	53	4.364	4.364	0.0	99	4188923	2018.3	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	1390446	208.8	
34 Methyl tert-butyl ether	73	4.423	4.411	0.012	93	3169088	211.0	
35 Hexane	86	4.802	4.802	0.0	95	380246	209.0	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.979	4.979	0.0	97	2605755	209.6	
37 Vinyl acetate	86	5.098	5.098	0.0	97	241734	247.5	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	90	1299900	222.1	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	1478270	206.2	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	93	1026432	400.5	
47 Chlorobromomethane	128	5.985	5.973	0.012	97	681018	212.0	
48 Tetrahydrofuran	42	6.033	6.033	0.0	91	675319	385.7	
49 Chloroform	83	6.092	6.092	0.0	96	2257063	209.4	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	95	1835461	219.4	
51 Cyclohexane	56	6.317	6.317	0.0	94	2670098	212.5	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	1780376	206.5	
53 Carbon tetrachloride	117	6.435	6.435	0.0	90	1840945	227.2	
54 Isobutyl alcohol	41	6.636	6.636	0.0	91	904777	5179.9	
55 Benzene	78	6.648	6.648	0.0	97	5376161	201.3	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	1734215	201.6	
58 n-Heptane	100	6.944	6.944	0.0	96	448298	211.6	
60 Trichloroethene	130	7.287	7.287	0.0	97	1549091	198.3	
63 Methylcyclohexane	83	7.464	7.464	0.0	97	2393962	210.5	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	94	1393475	208.7	
65 Dibromomethane	93	7.606	7.606	0.0	89	655473	207.3	
66 1,4-Dioxane	88	7.630	7.630	0.0	98	191864	4011.8	
67 Dichlorobromomethane	83	7.760	7.760	0.0	98	1574921	203.6	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	93	1130814	445.8	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	90	1901930	202.3	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	98	2172432	420.8	
72 Toluene	91	8.458	8.458	0.0	97	5722077	199.6	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	1490980	205.4	
74 Ethyl methacrylate	69	8.731	8.730	0.0	92	1289332	226.2	
75 1,1,2-Trichloroethane	97	8.813	8.813	0.0	92	909290	206.6	
77 Tetrachloroethene	164	8.932	8.932	0.0	97	1191518	202.0	
76 1,3-Dichloropropane	76	8.955	8.955	0.0	96	1581794	201.0	
78 2-Hexanone	43	9.014	9.014	0.0	99	1399595	408.6	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	1082498	204.0	
123 Ethylene Dibromide	107	9.251	9.251	0.0	98	903400	212.8	
82 Chlorobenzene	112	9.665	9.665	0.0	93	3526347	198.7	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	95	1261669	221.4	
84 Ethylbenzene	106	9.760	9.760	0.0	98	1951347	203.4	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	2379624	201.1	
85 o-Xylene	106	10.186	10.186	0.0	95	2279973	203.7	
86 Styrene	104	10.198	10.198	0.0	91	3810848	221.3	
87 Bromoform	173	10.363	10.363	0.0	97	603440	204.5	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	6374950	215.7	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	91	994721	213.7	
91 Bromobenzene	156	10.766	10.766	0.0	91	1385417	196.2	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.789	0.0	90	336946	223.5	
92 1,2,3-Trichloropropane	110	10.789	10.789	0.0	79	306535	193.8	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	1737514	206.9	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	1451111	201.4	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	93	5146435	214.0	
104 4-Chlorotoluene	126	11.014	11.014	0.0	98	1452776	197.9	
97 tert-Butylbenzene	119	11.275	11.275	0.0	91	4834309	213.5	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	73	5167541	211.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	6680041	214.2	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	98	2655040	190.2	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	92	5818773	217.3	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	95	2667224	189.9	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	4910129	212.3	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	99	2505481	195.8	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	86	190234	174.9	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	92	1682390	208.8	
110 Hexachlorobutadiene	225	13.405	13.404	0.0	98	790485	194.0	
111 Naphthalene	128	13.476	13.475	0.001	97	3560189	226.6	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	1418552	199.7	
S 137 Trihalomethanes, Total	1				0		821.5	
S 11 1,2-Dichloroethene, Total	96				0		415.0	
S 9 1,3-Dichloropropene, Total	75				0		407.7	
S 114 Xylenes, Total	106				0		404.7	

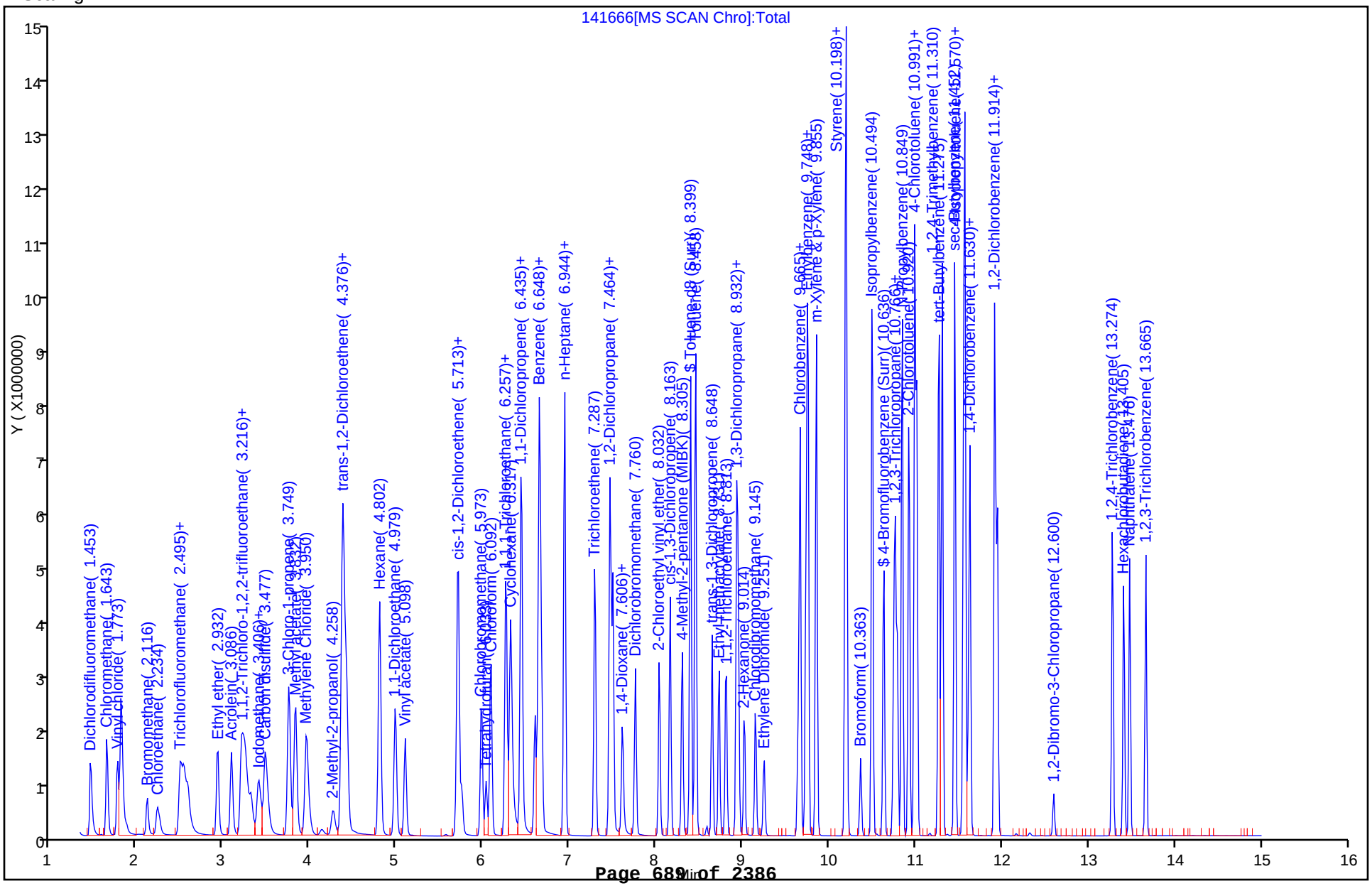
Report Date: 03-Apr-2013 12:44:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141666.D

Injection Date:	01-Apr-2013 14:25:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	4
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141667.D
Lims ID: IC Client ID:
Inject. Date: 01-Apr-2013 14:46:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: ic
Misc. Info.: 240-0018434-005 =240-0018434-005
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 80127 Lims Sample ID: 5
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:44:49 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 09:15:40

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	95	1276120	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	96	863273	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	94	394994	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.257	0.0	88	630308	97.1	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	97	679113	96.2	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	2421189	97.5	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.636	-0.012	91	818425	100.7	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	99	764747	105.0	
13 Chloromethane	50	1.643	1.643	0.0	100	949269	100.8	
14 Vinyl chloride	62	1.773	1.773	0.0	99	791227	104.3	
15 Bromomethane	94	2.116	2.116	0.0	91	232002	93.3	
16 Chloroethane	64	2.234	2.234	0.0	97	336051	95.3	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	99	1014504	98.7	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	99	1015150	104.8	
19 Ethyl ether	59	2.932	2.921	0.011	98	541542	94.1	
20 Acrolein	56	3.086	3.086	0.0	96	813789	1002.0	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	97	606092	103.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	85	529727	102.9	
22 Acetone	43	3.323	3.311	0.012	98	338437	202.8	
24 Iodomethane	142	3.406	3.406	0.0	98	1026112	107.5	
26 Carbon disulfide	76	3.489	3.477	0.012	100	1727805	97.0	
29 3-Chloro-1-propene	76	3.761	3.749	0.012	83	372076	107.8	
28 Methyl acetate	43	3.832	3.820	0.012	97	2158500	494.8	
30 Methylene Chloride	84	3.962	3.950	0.012	98	630017	91.6	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	94	441987	1016.8	
32 Acrylonitrile	53	4.364	4.364	0.0	99	2102664	1000.2	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	696061	103.2	
34 Methyl tert-butyl ether	73	4.423	4.411	0.012	88	1569755	103.2	
35 Hexane	86	4.802	4.802	0.0	95	185904	100.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.980	4.979	0.001	97	1290314	102.5	
37 Vinyl acetate	86	5.098	5.098	0.0	97	119739	121.0	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	86	657926	111.0	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	743893	102.4	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	93	529140	203.9	
47 Chlorobromomethane	128	5.985	5.973	0.012	97	339369	104.3	
48 Tetrahydrofuran	42	6.033	6.033	0.0	90	343757	193.9	
49 Chloroform	83	6.092	6.092	0.0	96	1121062	102.7	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	95	912874	107.7	
51 Cyclohexane	56	6.317	6.317	0.0	94	1341219	105.4	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	896731	102.7	
53 Carbon tetrachloride	117	6.435	6.435	0.0	81	890505	108.5	
54 Isobutyl alcohol	41	6.636	6.636	0.0	92	461032	2605.9	
55 Benzene	78	6.648	6.648	0.0	97	2697424	99.7	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	852106	97.8	
58 n-Heptane	100	6.944	6.944	0.0	95	220707	102.8	
60 Trichloroethene	130	7.287	7.287	0.0	96	775617	98.0	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	1202266	104.4	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	93	695406	102.8	
65 Dibromomethane	93	7.606	7.606	0.0	93	324986	101.5	
66 1,4-Dioxane	88	7.630	7.630	0.0	98	98385	2031.1	
67 Dichlorobromomethane	83	7.760	7.760	0.0	98	747993	96.0	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	93	559875	217.9	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	90	923818	97.5	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	98	1085084	207.1	
72 Toluene	91	8.458	8.458	0.0	97	2866124	98.5	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	703694	96.0	
74 Ethyl methacrylate	69	8.731	8.730	0.001	93	639857	110.6	
75 1,1,2-Trichloroethane	97	8.813	8.813	0.0	93	449289	100.6	
77 Tetrachloroethene	164	8.932	8.932	0.0	98	598619	100.0	
76 1,3-Dichloropropane	76	8.955	8.955	0.0	96	780007	97.6	
78 2-Hexanone	43	9.015	9.014	0.001	99	708137	203.7	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	506273	95.8	
123 Ethylene Dibromide	107	9.251	9.251	0.0	99	452947	105.1	
82 Chlorobenzene	112	9.665	9.665	0.0	93	1741969	96.7	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	94	617998	106.8	
84 Ethylbenzene	106	9.760	9.760	0.0	98	977812	100.4	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	1191172	99.2	
85 o-Xylene	106	10.186	10.186	0.0	95	1134682	99.9	
86 Styrene	104	10.198	10.198	0.0	91	1863397	106.6	
87 Bromoform	173	10.364	10.363	0.001	97	262261	98.4	
88 Isopropylbenzene	105	10.494	10.494	0.0	97	3150029	105.0	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	91	491861	106.5	
91 Bromobenzene	156	10.766	10.766	0.0	92	686253	98.0	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.789	0.0	89	161179	107.8	
92 1,2,3-Trichloropropane	110	10.789	10.789	0.0	79	156663	99.8	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	874885	105.0	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	730772	102.3	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	93	2541770	106.5	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	726805	99.8	
97 tert-Butylbenzene	119	11.275	11.275	0.0	91	2394016	106.6	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	72	2536688	104.7	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	3311093	107.1	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	91	1366763	98.7	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	94	2854539	107.5	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	95	1319952	94.7	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	2405787	104.8	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	99	1243139	97.9	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	86	83535	100.1	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	780877	97.7	
110 Hexachlorobutadiene	225	13.405	13.404	0.001	98	350533	86.7	
111 Naphthalene	128	13.476	13.475	0.001	97	1654592	106.2	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	636994	102.3	
S 137 Trihalomethanes, Total	1				0		392.9	
S 11 1,2-Dichloroethene, Total	96				0		205.7	
S 9 1,3-Dichloropropene, Total	75				0		193.6	
S 114 Xylenes, Total	106				0		199.0	

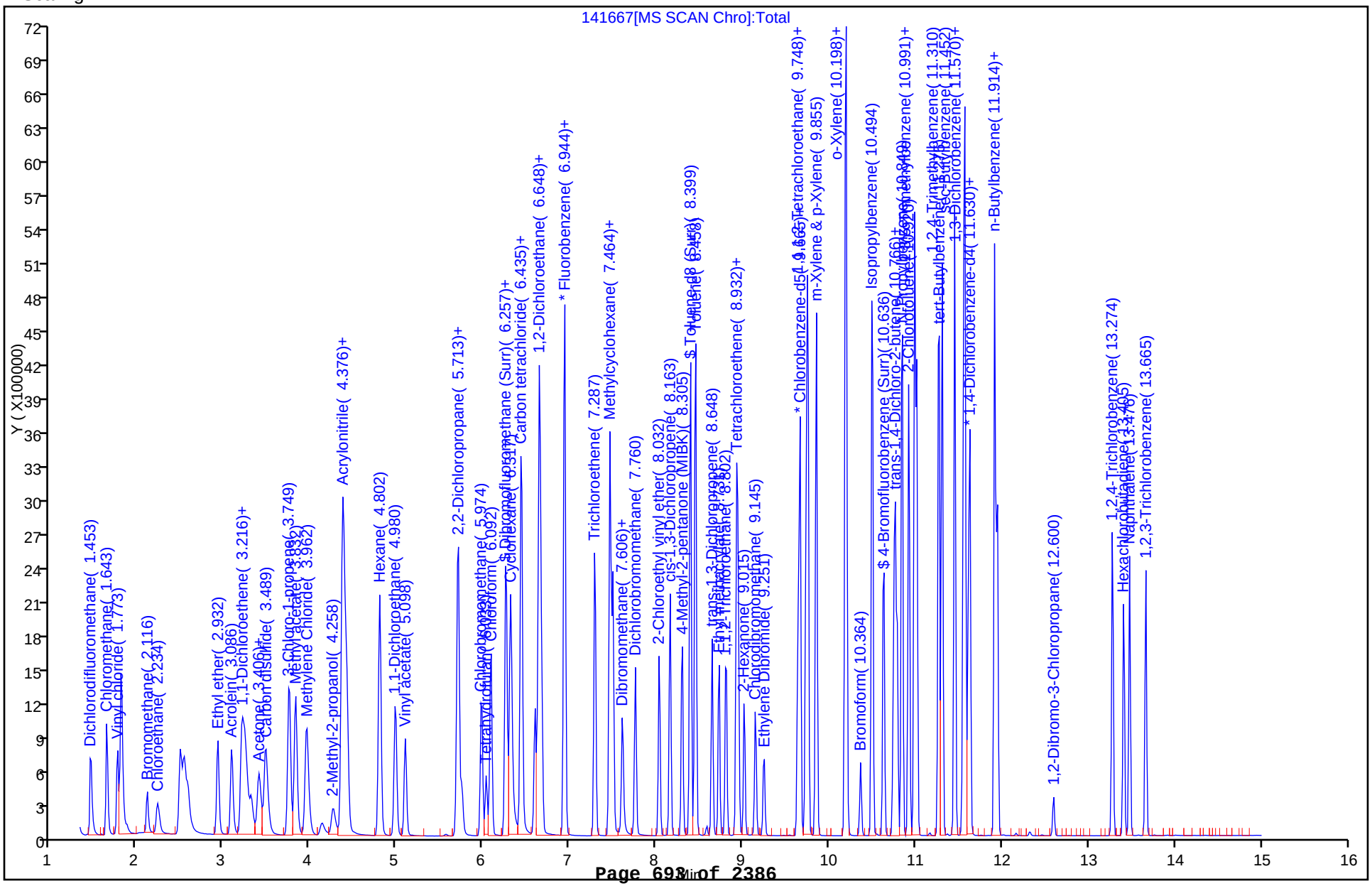
Report Date: 03-Apr-2013 12:44:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141667.D

Injection Date:	01-Apr-2013 14:46:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	5
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141668.D
Lims ID: ICIS Client ID:
Inject. Date: 01-Apr-2013 15:08:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 6
Sample ID: icis
Misc. Info.: 240-0018434-006 =240-0018434-006
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 5
Lims Batch ID: 80127 Lims Sample ID: 6
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 13:56:24 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 03-Apr-2013 13:56:24

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1285361	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	96	847501	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	381352	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.257	0.0	83	308631	45.2	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	97	335525	44.4	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1200479	46.3	
$ 131 4-Bromofluorobenzene (Surr)	95	10.636	10.636	0.0	97	375791	44.8	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	99	384066	52.4	
13 Chloromethane	50	1.643	1.643	0.0	100	482247	50.8	
14 Vinyl chloride	62	1.773	1.773	0.0	99	391674	51.3	
15 Bromomethane	94	2.116	2.116	0.0	89	114533	45.7	
16 Chloroethane	64	2.234	2.234	0.0	97	181388	51.0	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	99	519005	50.1	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	92	509898	52.3	
19 Ethyl ether	59	2.921	2.921	0.0	97	273001	47.1	
20 Acrolein	56	3.086	3.086	0.0	95	419888	513.3	
21 1,1-Dichloroethene	96	3.205	3.205	0.0	97	309321	52.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.240	3.240	0.0	91	266264	51.4	
22 Acetone	43	3.311	3.311	0.0	98	179967	104.0	
24 Iodomethane	142	3.406	3.406	0.0	98	505260	52.6	
26 Carbon disulfide	76	3.477	3.477	0.0	100	809709	46.8	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	87	183822	52.9	
28 Methyl acetate	43	3.820	3.820	0.0	97	1099059	250.1	
30 Methylene Chloride	84	3.950	3.950	0.0	99	328593	47.4	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	94	210767	481.4	
32 Acrylonitrile	53	4.364	4.364	0.0	99	1053509	497.6	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	356326	52.5	
34 Methyl tert-butyl ether	73	4.411	4.411	0.0	93	785249	51.2	
35 Hexane	86	4.802	4.802	0.0	96	93183	50.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.979	4.979	0.0	97	654641	51.6	
37 Vinyl acetate	86	5.098	5.098	0.0	97	55896	56.1	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	85	311907	52.2	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	376473	51.5	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	99	260176	99.5	
47 Chlorobromomethane	128	5.973	5.973	0.0	96	171657	52.4	
48 Tetrahydrofuran	42	6.033	6.033	0.0	91	171507	96.0	
49 Chloroform	83	6.092	6.092	0.0	96	579362	52.7	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.0	96	446980	52.4	
51 Cyclohexane	56	6.317	6.317	0.0	94	682502	53.2	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	456847	51.9	
53 Carbon tetrachloride	117	6.435	6.435	0.0	78	427266	51.7	
54 Isobutyl alcohol	41	6.636	6.636	0.0	91	218358	1225.4	
55 Benzene	78	6.648	6.648	0.0	97	1376887	50.5	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	434871	49.6	
58 n-Heptane	100	6.944	6.944	0.0	93	113030	52.3	
60 Trichloroethene	130	7.287	7.287	0.0	97	400779	50.3	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	623015	53.7	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	94	356825	52.4	
65 Dibromomethane	93	7.606	7.606	0.0	92	162976	50.5	
66 1,4-Dioxane	88	7.630	7.630	0.0	96	47479	973.1	
67 Dichlorobromomethane	83	7.760	7.760	0.0	98	361255	46.5	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	93	272934	105.5	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.0	89	444436	47.1	
71 4-Methyl-2-pentanone (MIBK)	43	8.304	8.304	0.0	98	534541	103.9	
72 Toluene	91	8.458	8.458	0.0	97	1450184	50.8	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	330257	46.4	
74 Ethyl methacrylate	69	8.730	8.730	0.0	93	307669	54.2	
75 1,1,2-Trichloroethane	97	8.813	8.813	0.0	93	227277	51.8	
77 Tetrachloroethene	164	8.932	8.932	0.0	98	300695	51.2	
76 1,3-Dichloropropane	76	8.955	8.955	0.0	94	398186	50.8	
78 2-Hexanone	43	9.014	9.014	0.0	99	342035	100.2	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	230536	46.3	
123 Ethylene Dibromide	107	9.251	9.251	0.0	98	228134	53.9	
82 Chlorobenzene	112	9.665	9.665	0.0	94	883136	49.9	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	94	301455	53.1	
84 Ethylbenzene	106	9.760	9.760	0.0	98	492413	51.5	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	602270	51.1	
85 o-Xylene	106	10.186	10.186	0.0	94	575333	51.6	
86 Styrene	104	10.198	10.198	0.0	91	909029	53.0	
87 Bromoform	173	10.363	10.363	0.0	97	114519	47.6	
88 Isopropylbenzene	105	10.494	10.494	0.0	97	1557219	52.9	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	95	232504	52.2	
91 Bromobenzene	156	10.766	10.766	0.0	91	346479	51.2	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.789	0.0	87	76700	53.1	
92 1,2,3-Trichloropropane	110	10.789	10.789	0.0	80	76505	50.5	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	433915	54.0	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	360473	52.3	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	1233325	53.5	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	366523	52.1	
97 tert-Butylbenzene	119	11.275	11.275	0.0	91	1153651	53.2	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	73	1237447	52.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	1591228	53.3	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	92	659542	49.3	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	89	1357367	52.9	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	95	647811	48.2	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	1155240	52.1	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	98	595262	48.6	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	82	32108	49.5	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	336594	43.6	
110 Hexachlorobutadiene	225	13.404	13.404	0.0	98	172776	44.3	
111 Naphthalene	128	13.475	13.475	0.0	97	658860	43.8	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	260636	46.2	
S 137 Trihalomethanes, Total	1				0		193.1	
S 11 1,2-Dichloroethene, Total	96				0		103.9	
S 9 1,3-Dichloropropene, Total	75				0		93.5	
S 114 Xylenes, Total	106				0		102.6	

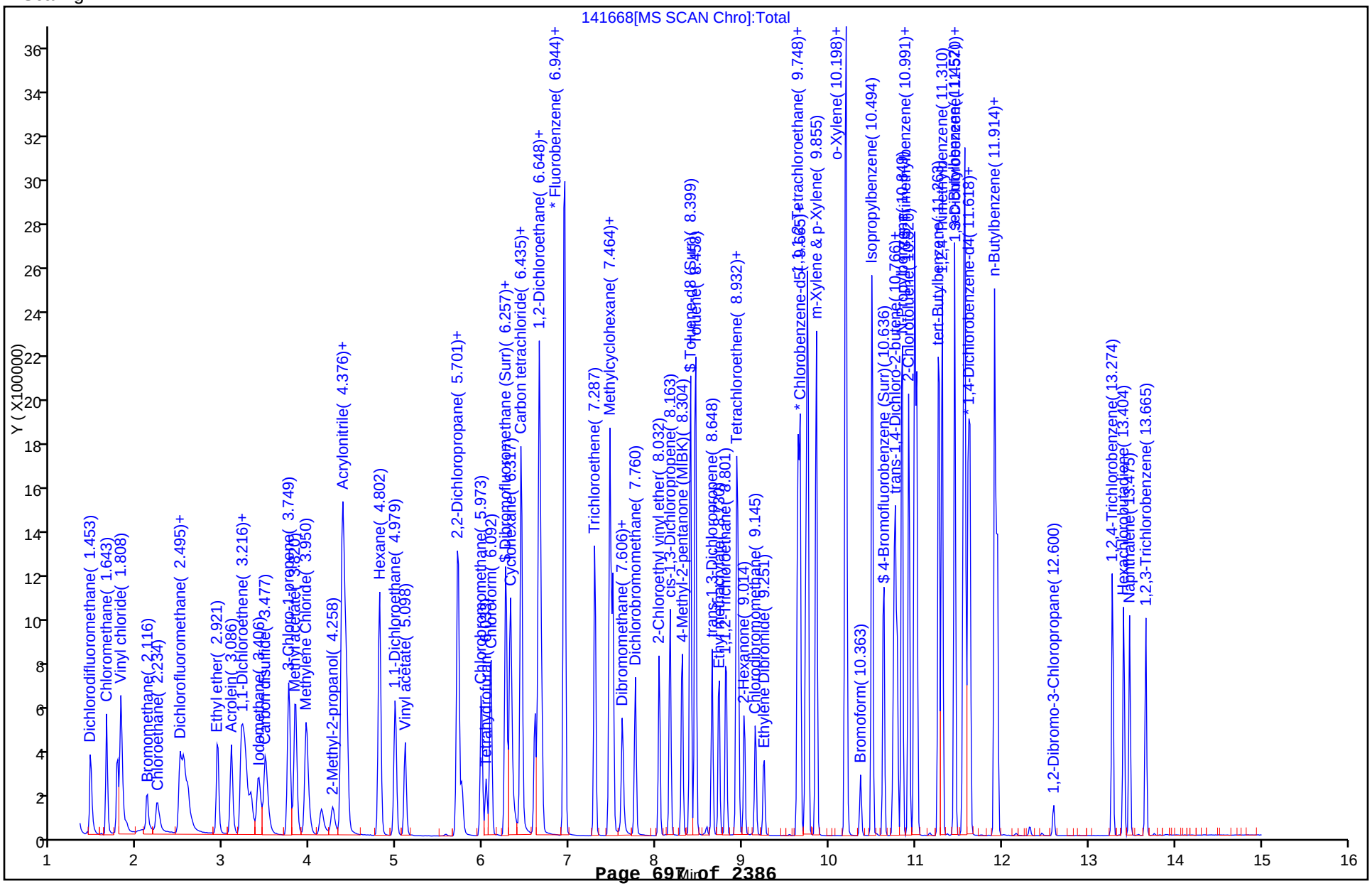
Report Date: 03-Apr-2013 13:56:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141668.D

Injection Date:	01-Apr-2013 15:08:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	6
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141669.D
Lims ID: IC Client ID:
Inject. Date: 01-Apr-2013 15:29:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: ic
Misc. Info.: 240-0018434-007 =240-0018434-007
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 80127 Lims Sample ID: 7
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:44:51 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 09:17:14

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	99	1260088	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	834369	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	369643	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.257	0.0	80	146298	19.8	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	99	167163	19.9	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	88	581877	19.8	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.636	-0.012	92	186058	20.1	
12 Dichlorodifluoromethane	85	1.465	1.453	0.012	98	150340	20.9	
13 Chloromethane	50	1.643	1.643	0.0	100	184845	19.9	
14 Vinyl chloride	62	1.773	1.773	0.0	98	150215	20.1	
15 Bromomethane	94	2.116	2.116	0.0	91	46385	18.9	
16 Chloroethane	64	2.222	2.234	-0.012	97	66418	19.1	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	98	198146	19.5	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	99	191645	20.0	
19 Ethyl ether	59	2.932	2.921	0.011	97	111184	19.6	
20 Acrolein	56	3.086	3.086	0.0	94	160333	199.9	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	96	118436	20.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	90	101906	20.1	
22 Acetone	43	3.323	3.311	0.012	100	73127	39.2	
24 Iodomethane	142	3.406	3.406	0.0	98	190805	20.2	
26 Carbon disulfide	76	3.477	3.477	0.0	100	270446	18.0	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	87	66288	19.4	
28 Methyl acetate	43	3.832	3.820	0.012	97	437383	101.5	
30 Methylene Chloride	84	3.962	3.950	0.012	98	138859	20.4	
31 2-Methyl-2-propanol	59	4.270	4.258	0.012	93	82181	191.5	
32 Acrylonitrile	53	4.364	4.364	0.0	99	414053	199.5	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	136663	20.5	
34 Methyl tert-butyl ether	73	4.423	4.411	0.012	92	302544	20.1	
35 Hexane	86	4.802	4.802	0.0	95	38311	21.1	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.980	4.979	0.001	97	253425	20.4	
37 Vinyl acetate	86	5.098	5.098	0.0	97	20238	20.7	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	83	113299	19.4	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	85	146833	20.5	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	99	100893	39.4	
47 Chlorobromomethane	128	5.985	5.973	0.012	97	65302	20.3	
48 Tetrahydrofuran	42	6.033	6.033	0.0	90	68818	39.3	
49 Chloroform	83	6.092	6.092	0.0	96	221086	20.5	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	95	162941	19.5	
51 Cyclohexane	56	6.317	6.317	0.0	94	265642	21.1	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	90	178238	20.7	
53 Carbon tetrachloride	117	6.435	6.435	0.0	86	153965	19.0	
54 Isobutyl alcohol	41	6.636	6.636	0.0	92	84736	485.1	
55 Benzene	78	6.648	6.648	0.0	97	538837	20.2	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	172468	20.0	
58 n-Heptane	100	6.944	6.944	0.0	94	43622	20.6	
60 Trichloroethene	130	7.287	7.287	0.0	97	157278	20.1	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	242287	21.3	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	91	138377	20.7	
65 Dibromomethane	93	7.606	7.606	0.0	91	62992	19.9	
66 1,4-Dioxane	88	7.630	7.630	0.0	96	19929	416.7	
67 Dichlorobromomethane	83	7.760	7.760	0.0	97	124799	17.0	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	92	106910	42.1	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	88	157008	17.6	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	98	211843	41.8	
72 Toluene	91	8.458	8.458	0.0	97	566046	20.1	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	115389	17.1	
74 Ethyl methacrylate	69	8.731	8.730	0.001	92	116187	20.8	
75 1,1,2-Trichloroethane	97	8.802	8.813	-0.011	94	91031	21.1	
77 Tetrachloroethene	164	8.932	8.932	0.0	98	118145	20.4	
76 1,3-Dichloropropane	76	8.955	8.955	0.0	94	158534	20.5	
78 2-Hexanone	43	9.015	9.014	0.001	99	136713	40.7	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	76731	17.9	
123 Ethylene Dibromide	107	9.251	9.251	0.0	97	88124	21.2	
82 Chlorobenzene	112	9.665	9.665	0.0	93	349981	20.1	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	87	107708	19.3	
84 Ethylbenzene	106	9.748	9.760	-0.012	99	191237	20.3	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	98	234337	20.2	
85 o-Xylene	106	10.186	10.186	0.0	94	223532	20.4	
86 Styrene	104	10.198	10.198	0.0	92	350553	20.7	
87 Bromoform	173	10.363	10.363	0.0	96	36549	17.9	
88 Isopropylbenzene	105	10.494	10.494	0.0	97	586913	20.2	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	96	90265	20.9	
91 Bromobenzene	156	10.766	10.766	0.0	89	135151	20.6	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.789	0.0	64	28206	20.2	
92 1,2,3-Trichloropropane	110	10.789	10.789	0.0	79	29138	19.8	
94 N-Propylbenzene	120	10.849	10.849	0.0	97	164862	21.2	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	136870	20.5	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	458973	20.6	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	138902	20.4	
97 tert-Butylbenzene	119	11.263	11.275	-0.012	91	431067	20.5	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	73	463568	20.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	93	597026	20.6	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	92	259988	20.1	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	83	511329	20.6	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	94	255782	19.6	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	439842	20.5	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	98	231257	19.5	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	72	11502	21.0	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	134816	18.0	
110 Hexachlorobutadiene	225	13.405	13.404	0.001	95	74937	19.8	
111 Naphthalene	128	13.476	13.475	0.001	97	266441	18.3	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	95	108714	19.8	
S 137 Trihalomethanes, Total	1				0		73.3	
S 11 1,2-Dichloroethene, Total	96				0		41.0	
S 9 1,3-Dichloropropene, Total	75				0		34.7	
S 114 Xylenes, Total	106				0		40.5	

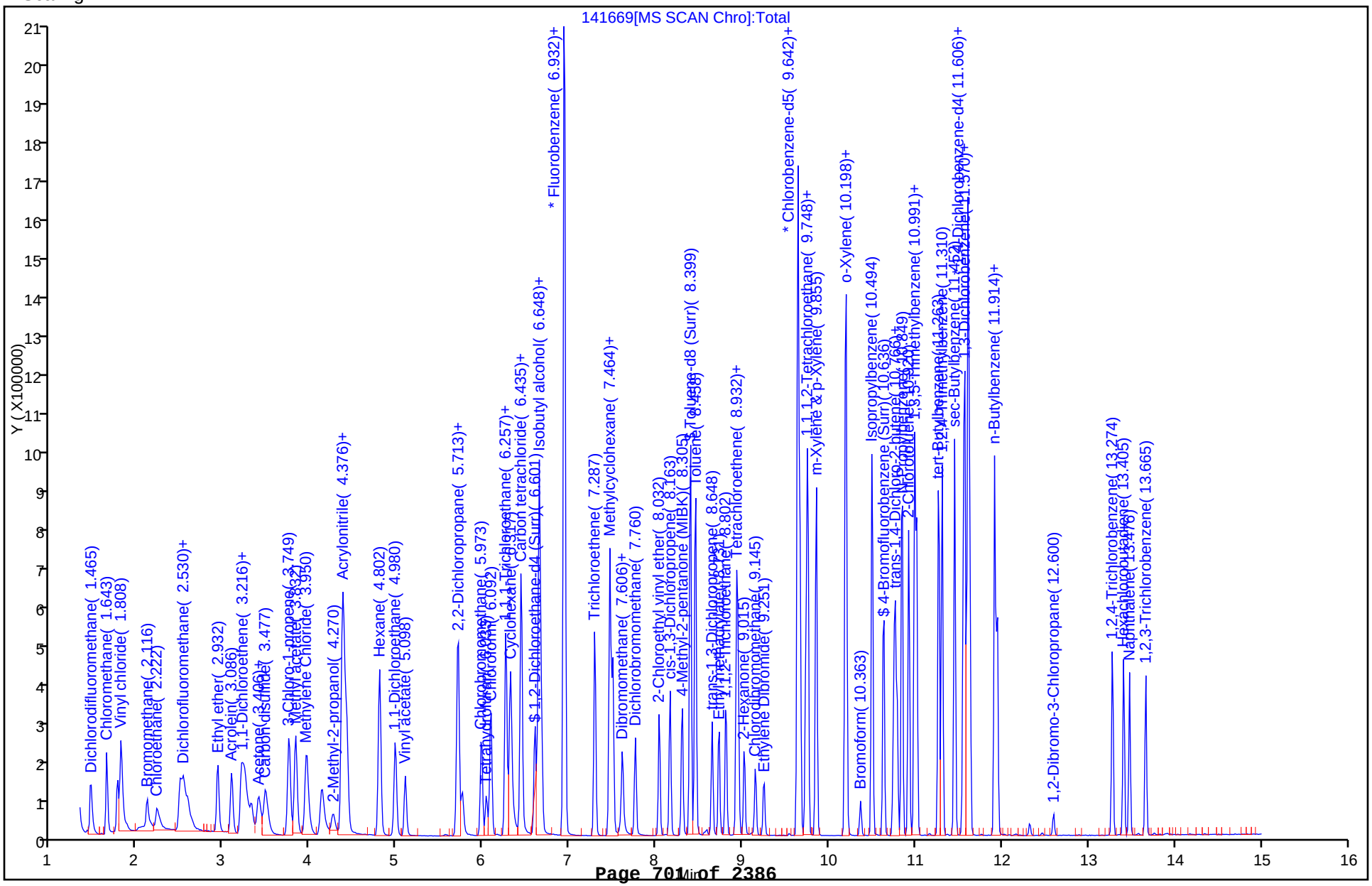
Report Date: 03-Apr-2013 12:44:51 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141669.D

Injection Date:	01-Apr-2013 15:29:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	7
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141670.D
Lims ID: IC Client ID:
Inject. Date: 01-Apr-2013 15:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: ic
Misc. Info.: 240-0018434-008 =240-0018434-008
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 80127 Lims Sample ID: 8
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:44:52 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 09:18:41

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	99	1331163	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	870767	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	98	396324	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.257	0.0	80	94284	10.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	98	111312	10.5	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	387397	10.5	
$ 131 4-Bromofluorobenzene (Surr)	95	10.636	10.636	0.0	97	125200	10.4	
12 Dichlorodifluoromethane	85	1.465	1.453	0.012	98	79303	10.4	
13 Chloromethane	50	1.643	1.643	0.0	89	96385	9.81	
14 Vinyl chloride	62	1.773	1.773	0.0	83	78146	9.87	
15 Bromomethane	94	2.116	2.116	0.0	90	22917	8.83	
16 Chloroethane	64	2.234	2.234	0.0	96	35264	9.58	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	94	103470	9.65	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	96	98339	9.74	
19 Ethyl ether	59	2.932	2.921	0.011	98	55319	9.22	
20 Acrolein	56	3.086	3.086	0.0	96	79077	93.3	
21 1,1-Dichloroethene	96	3.205	3.205	0.0	97	57564	9.43	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	88	49046	9.14	
22 Acetone	43	3.323	3.311	0.012	96	40463	17.4	
24 Iodomethane	142	3.406	3.406	0.0	96	94140	9.46	
26 Carbon disulfide	76	3.477	3.477	0.0	100	120702	9.36	
29 3-Chloro-1-propene	76	3.761	3.749	0.012	86	29497	8.19	
28 Methyl acetate	43	3.832	3.820	0.012	97	211623	46.5	
30 Methylene Chloride	84	3.962	3.950	0.012	94	75274	10.5	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	90	37847	83.5	
32 Acrylonitrile	53	4.364	4.364	0.0	99	202062	92.1	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	97	69076	9.82	
34 Methyl tert-butyl ether	73	4.423	4.411	0.012	91	147988	9.32	
35 Hexane	86	4.802	4.802	0.0	95	18891	9.83	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.979	4.979	0.0	97	122950	9.36	
37 Vinyl acetate	86	5.098	5.098	0.0	97	10377	10.1	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	78	52328	8.46	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	85	72998	9.64	
41 2-Butanone (MEK)	43	5.760	5.749	0.011	98	50186	18.5	
47 Chlorobromomethane	128	5.985	5.973	0.012	96	31707	9.34	
48 Tetrahydrofuran	42	6.033	6.033	0.0	90	33540	18.1	
49 Chloroform	83	6.092	6.092	0.0	96	107287	9.42	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.0	94	76406	8.64	
51 Cyclohexane	56	6.317	6.317	0.0	94	131522	9.91	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	88740	9.74	
53 Carbon tetrachloride	117	6.435	6.435	0.0	87	70663	8.26	
54 Isobutyl alcohol	41	6.636	6.636	0.0	88	40734	220.7	
55 Benzene	78	6.648	6.648	0.0	98	271978	9.64	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	86284	9.49	
58 n-Heptane	100	6.944	6.944	0.0	92	21837	9.75	
60 Trichloroethene	130	7.287	7.287	0.0	96	77074	9.34	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	119600	9.95	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	89	67507	9.57	
65 Dibromomethane	93	7.606	7.606	0.0	89	31110	9.31	
66 1,4-Dioxane	88	7.630	7.630	0.0	89	10340	204.6	
67 Dichlorobromomethane	83	7.760	7.760	0.0	97	56613	7.84	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	93	51197	19.1	
70 cis-1,3-Dichloropropene	75	8.162	8.163	0.0	87	71109	8.12	
71 4-Methyl-2-pentanone (MIBK)	43	8.304	8.304	0.0	99	99480	18.8	
72 Toluene	91	8.458	8.458	0.0	98	283830	9.67	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	93	51586	7.91	
74 Ethyl methacrylate	69	8.730	8.730	0.0	93	53776	9.21	
75 1,1,2-Trichloroethane	97	8.813	8.813	0.0	94	43676	9.69	
77 Tetrachloroethene	164	8.932	8.932	0.0	97	61534	10.2	
76 1,3-Dichloropropane	76	8.955	8.955	0.0	95	78294	9.72	
78 2-Hexanone	43	9.014	9.014	0.0	98	68073	19.4	
79 Chlorodibromomethane	129	9.145	9.145	0.0	89	34113	9.56	
123 Ethylene Dibromide	107	9.251	9.251	0.0	97	41941	9.65	
82 Chlorobenzene	112	9.665	9.665	0.0	95	179576	9.88	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	88	49671	8.51	
84 Ethylbenzene	106	9.748	9.760	-0.012	99	96806	9.85	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	117256	9.68	
85 o-Xylene	106	10.186	10.186	0.0	95	112351	9.80	
86 Styrene	104	10.198	10.198	0.0	90	173395	9.83	
87 Bromoform	173	10.363	10.363	0.0	96	15062	8.86	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	299925	9.91	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	97	45168	9.75	
91 Bromobenzene	156	10.766	10.766	0.0	90	68627	9.77	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.789	0.0	74	13996	9.33	
92 1,2,3-Trichloropropane	110	10.789	10.789	0.0	72	15308	9.72	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	84983	10.2	
95 2-Chlorotoluene	126	10.920	10.920	0.0	97	72221	10.1	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	237509	9.92	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	72680	9.95	
97 tert-Butylbenzene	119	11.263	11.275	-0.012	91	226540	10.1	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	77	240863	9.91	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	308380	9.94	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	92	135378	9.75	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	84	263424	9.88	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	93	135533	9.69	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	229898	9.99	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	99	121248	9.52	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	63	5824	10.3	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	82228	10.3	
110 Hexachlorobutadiene	225	13.404	13.404	0.0	98	44761	11.0	
111 Naphthalene	128	13.475	13.475	0.0	97	155447	9.94	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	66746	10.8	
S 137 Trihalomethanes, Total	1				0		35.7	
S 11 1,2-Dichloroethene, Total	96				0		19.5	
S 9 1,3-Dichloropropene, Total	75				0		16.0	
S 114 Xylenes, Total	106				0		19.5	

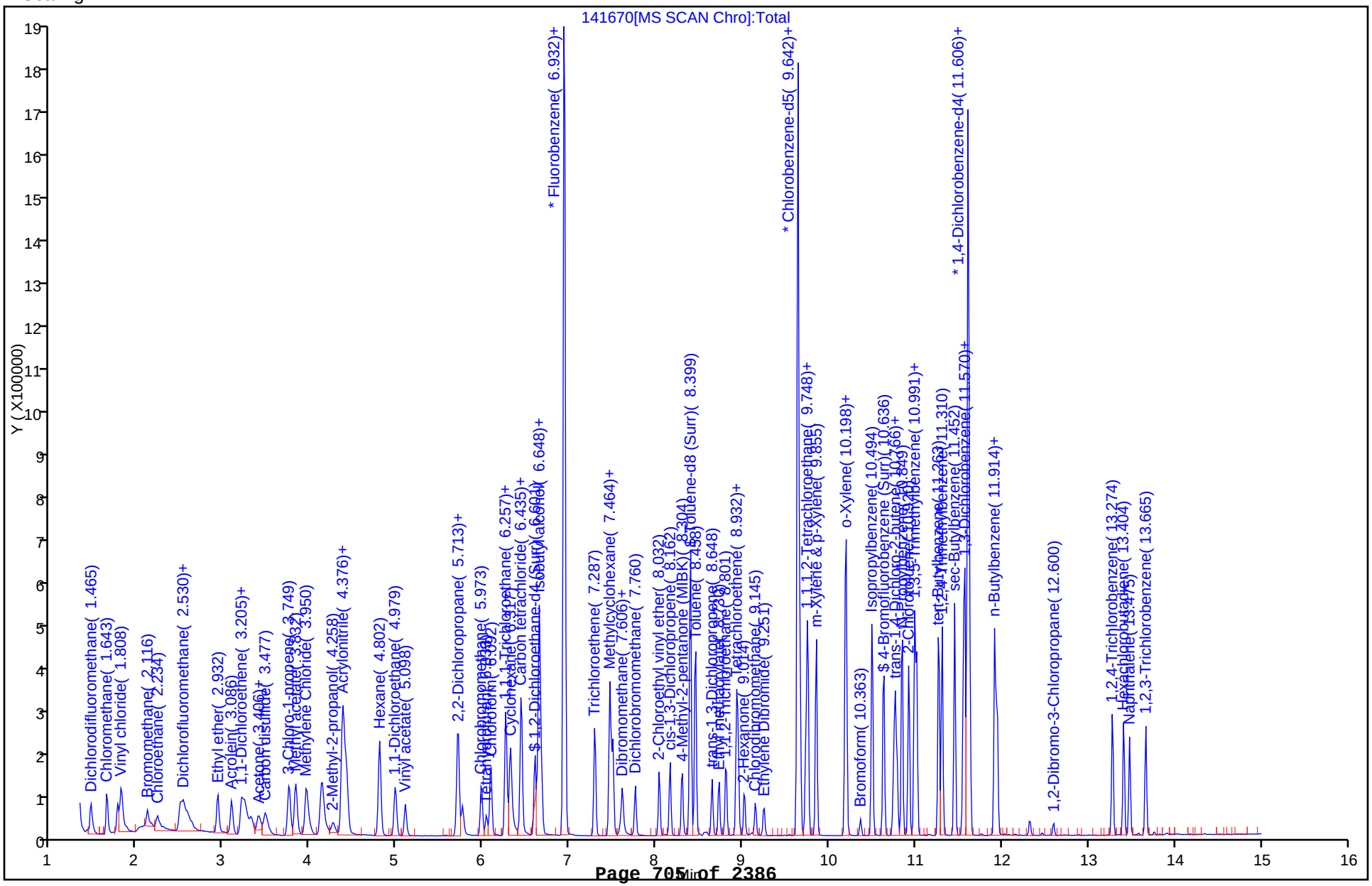
Report Date: 03-Apr-2013 12:44:52 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141670.D

Injection Date:	01-Apr-2013 15:51:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	8
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141671.D
Lims ID: IC Client ID:
Inject. Date: 01-Apr-2013 16:12:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: ic
Misc. Info.: 240-0018434-009 =240-0018434-009
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 8
Lims Batch ID: 80127 Lims Sample ID: 9
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:44:53 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 09:19:29

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	99	1263992	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	823672	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	384133	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.257	0.0	65	59709	5.71	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	98	71515	5.35	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	247665	5.17	
$ 131 4-Bromofluorobenzene (Surr)	95	10.636	10.636	0.0	94	81950	5.17	
12 Dichlorodifluoromethane	85	1.465	1.453	0.012	96	37785	5.24	
13 Chloromethane	50	1.643	1.643	0.0	100	44791	4.80	
14 Vinyl chloride	62	1.773	1.773	0.0	97	37022	4.93	
15 Bromomethane	94	2.116	2.116	0.0	84	11372	4.62	
16 Chloroethane	64	2.234	2.234	0.0	89	17000	4.87	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	95	49773	4.89	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	95	45747	4.77	
19 Ethyl ether	59	2.932	2.921	0.011	95	28137	4.94	
20 Acrolein	56	3.086	3.086	0.0	91	40200	50.0	
21 1,1-Dichloroethene	96	3.216	3.205	0.012	87	29452	5.08	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	83	23261	4.56	
22 Acetone	43	3.323	3.311	0.012	97	28343	11.1	
24 Iodomethane	142	3.406	3.406	0.0	97	45850	4.85	
26 Carbon disulfide	76	3.477	3.477	0.0	98	55727	6.13	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	84	14025	4.10	
28 Methyl acetate	43	3.832	3.820	0.012	97	109236	25.3	
30 Methylene Chloride	84	3.962	3.950	0.012	98	41745	6.13	
31 2-Methyl-2-propanol	59	4.270	4.258	0.012	81	23079	53.6	
32 Acrylonitrile	53	4.364	4.364	0.0	98	102856	49.4	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	97	34102	5.11	
34 Methyl tert-butyl ether	73	4.423	4.411	0.012	92	74407	4.94	
35 Hexane	86	4.802	4.802	0.0	95	9535	5.22	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.979	4.979	0.0	96	60560	4.86	
37 Vinyl acetate	86	5.110	5.098	0.012	97	4426	4.52	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	83	24512	4.17	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	87	36773	5.11	
41 2-Butanone (MEK)	43	5.760	5.749	0.011	96	27138	10.6	
47 Chlorobromomethane	128	5.985	5.973	0.012	92	16473	5.11	
48 Tetrahydrofuran	42	6.044	6.033	0.011	88	17236	9.81	
49 Chloroform	83	6.092	6.092	0.0	96	53430	4.94	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	87	35880	4.27	
51 Cyclohexane	56	6.317	6.317	0.0	94	62445	4.95	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	90	44314	5.12	
53 Carbon tetrachloride	117	6.435	6.435	0.0	83	32666	4.02	
54 Isobutyl alcohol	41	6.636	6.636	0.0	73	21481	122.6	
55 Benzene	78	6.648	6.648	0.0	97	138640	5.17	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	93	44154	5.12	
58 n-Heptane	100	6.944	6.944	0.0	79	10649	5.01	
60 Trichloroethene	130	7.287	7.287	0.0	97	40106	5.12	
63 Methylcyclohexane	83	7.464	7.464	0.0	95	59905	5.25	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	90	34166	5.10	
65 Dibromomethane	93	7.606	7.606	0.0	87	14731	4.64	
66 1,4-Dioxane	88	7.630	7.630	0.0	83	4718	98.3	
67 Dichlorobromomethane	83	7.760	7.760	0.0	96	26212	4.31	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	91	23890	9.39	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	79	29809	4.14	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	98	48609	9.72	
72 Toluene	91	8.458	8.458	0.0	97	142007	5.12	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	95	23647	4.35	
74 Ethyl methacrylate	69	8.731	8.730	0.0	89	25748	4.66	
75 1,1,2-Trichloroethane	97	8.802	8.813	-0.011	95	21785	5.11	
77 Tetrachloroethene	164	8.932	8.932	0.0	99	30153	5.28	
76 1,3-Dichloropropane	76	8.955	8.955	0.0	93	40174	5.27	
78 2-Hexanone	43	9.014	9.014	0.0	97	33674	10.2	
79 Chlorodibromomethane	129	9.145	9.145	0.0	88	14348	6.13	
123 Ethylene Dibromide	107	9.251	9.251	0.0	96	20005	4.87	
82 Chlorobenzene	112	9.665	9.665	0.0	93	88200	5.13	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	84	23823	4.32	
84 Ethylbenzene	106	9.760	9.760	0.0	97	47847	5.15	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	58542	5.11	
85 o-Xylene	106	10.186	10.186	0.0	95	56045	5.17	
86 Styrene	104	10.198	10.198	0.0	91	82843	4.97	
87 Bromoform	173	10.363	10.363	0.0	88	7271	5.94	
88 Isopropylbenzene	105	10.494	10.494	0.0	97	144321	5.04	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	86	21893	4.88	
91 Bromobenzene	156	10.766	10.766	0.0	90	35455	5.21	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.789	0.0	51	6330	4.35	
92 1,2,3-Trichloropropane	110	10.789	10.789	0.0	74	7861	5.15	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	42125	5.20	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	36261	5.22	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	96	116348	5.01	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	37191	5.25	
97 tert-Butylbenzene	119	11.275	11.275	0.0	90	111555	5.11	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	73	119371	5.07	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	93	153156	5.09	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	83	71345	5.30	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	77	128602	4.98	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	91	69736	5.15	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	114399	5.13	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	97	66313	5.37	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	46	2490	4.47	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	44661	5.75	
110 Hexachlorobutadiene	225	13.405	13.404	0.0	96	23922	6.09	
111 Naphthalene	128	13.476	13.475	0.001	96	87532	5.78	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	95	40647	6.18	
S 137 Trihalomethanes, Total	1				0		21.3	
S 11 1,2-Dichloroethene, Total	96				0		10.2	
S 9 1,3-Dichloropropene, Total	75				0		8.49	
S 114 Xylenes, Total	106				0		10.3	

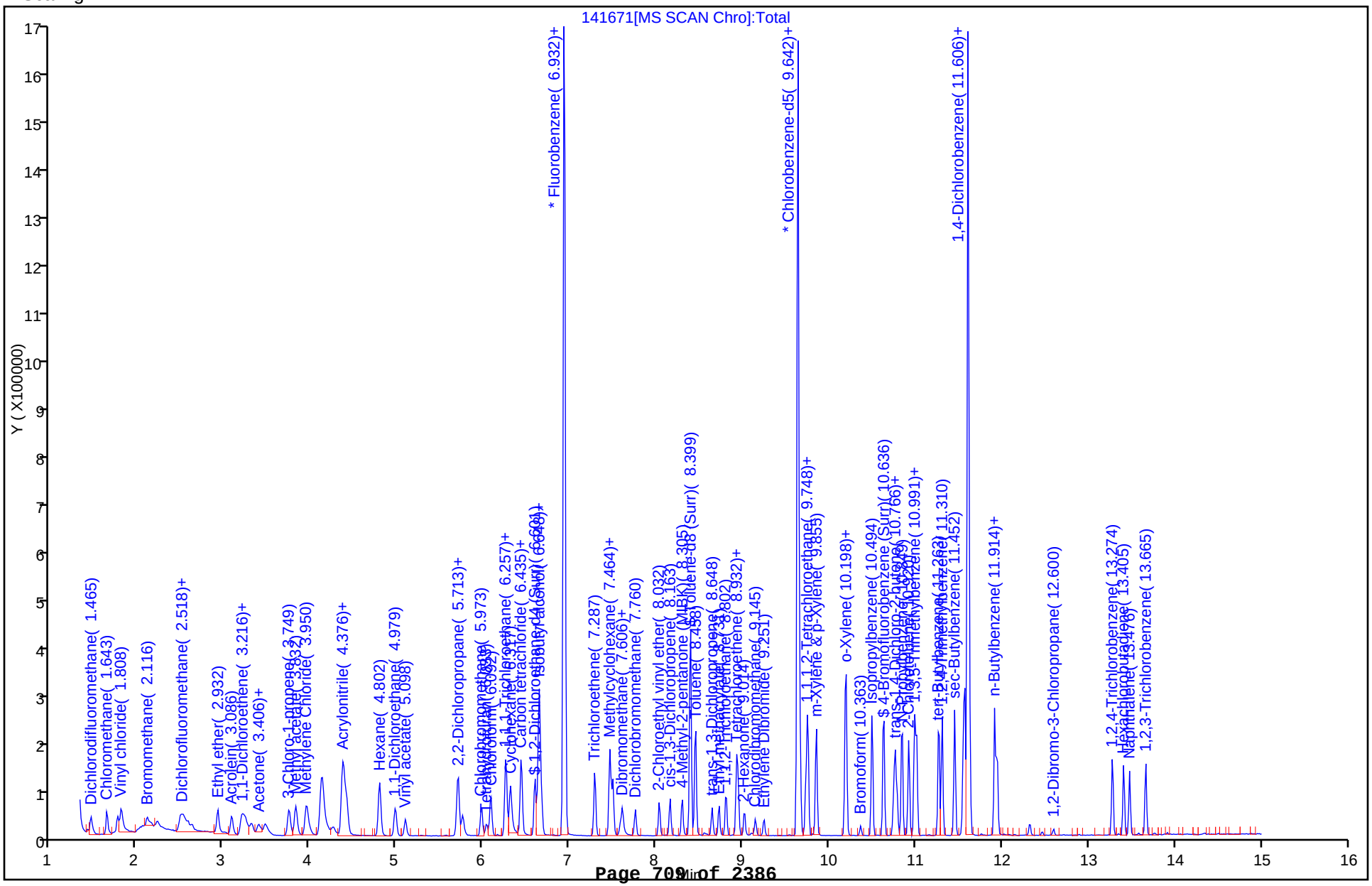
Report Date: 03-Apr-2013 12:44:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141671.D

Injection Date:	01-Apr-2013 16:12:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	9
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\141672.D		
Lims ID:	IC	Client ID:	
Inject. Date:	01-Apr-2013 16:34:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	ic		
Misc. Info.:	240-0018434-010 =240-0018434-010		
Operator:	002808	Instrument ID:	A3UX14
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	80127	Lims Sample ID:	10
Sublist:	chrom-8260_14*sub32		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m		
Last Update:	03-Apr-2013 12:44:54	Calib Date:	01-Apr-2013 20:09:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK035		
First Level Reviewer: macenczaks		Date:	02-Apr-2013 09:20:12

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1197493	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	789352	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	370952	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.257	0.001	58	34767	1.99	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	97	45486	1.79	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	148798	1.04	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.636	-0.012	91	49084	1.00	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	94	12576	1.84	
13 Chloromethane	50	1.643	1.643	0.0	88	16733	1.89	
14 Vinyl chloride	62	1.761	1.773	-0.012	81	12858	1.81	
15 Bromomethane	94	2.104	2.116	-0.012	88	5800	2.49	
16 Chloroethane	64	2.223	2.234	-0.011	68	6607	2.00	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	88	19185	1.99	
18 Trichlorofluoromethane	101	2.530	2.542	-0.012	73	17300	1.90	
19 Ethyl ether	59	2.921	2.921	0.0	95	11391	2.11	
20 Acrolein	56	3.086	3.086	0.0	92	15999	21.0	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	94	9746	1.77	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.240	3.240	0.0	68	7677	1.59	
22 Acetone	43	3.311	3.311	0.0	95	16595	4.32	
24 Iodomethane	142	3.406	3.406	0.0	92	16717	1.87	
26 Carbon disulfide	76	3.477	3.477	0.0	97	19157	4.18	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	75	4769	1.47	
28 Methyl acetate	43	3.832	3.820	0.012	96	42269	10.3	
30 Methylene Chloride	84	3.950	3.950	0.0	93	22345	3.46	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	72	8538	20.9	
32 Acrylonitrile	53	4.364	4.364	0.0	99	41601	21.1	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	92	11699	1.85	
34 Methyl tert-butyl ether	73	4.423	4.411	0.012	90	28623	2.00	
35 Hexane	86	4.790	4.802	-0.012	94	3406	1.97	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.980	4.979	0.001	89	24191	2.05	
37 Vinyl acetate	86	5.098	5.098	0.0	90	1788	1.93	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	59	9082	1.63	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	12856	1.89	
41 2-Butanone (MEK)	43	5.761	5.749	0.012	53	10771	4.42	
47 Chlorobromomethane	128	5.985	5.973	0.012	87	5903	1.93	
48 Tetrahydrofuran	42	6.033	6.033	0.0	86	7302	4.39	
49 Chloroform	83	6.092	6.092	0.0	94	19920	1.94	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	52	12255	1.54	
51 Cyclohexane	56	6.317	6.317	0.0	93	22347	1.87	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	86	15293	1.87	
53 Carbon tetrachloride	117	6.435	6.435	0.0	49	9381	1.22	
54 Isobutyl alcohol	41	6.636	6.636	0.0	35	8364	50.4	
55 Benzene	78	6.648	6.648	0.0	95	50055	1.97	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	90	16727	2.05	
58 n-Heptane	100	6.944	6.944	0.0	62	3750	1.86	
60 Trichloroethene	130	7.287	7.287	0.0	96	15249	2.05	
63 Methylcyclohexane	83	7.465	7.464	0.001	93	18586	1.72	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	82	11822	1.86	
65 Dibromomethane	93	7.607	7.606	0.0	83	6061	2.02	
66 1,4-Dioxane	88	7.642	7.630	0.012	55	1926	42.4	
67 Dichlorobromomethane	83	7.760	7.760	0.0	91	8854	2.15	
69 2-Chloroethyl vinyl ether	63	8.033	8.032	0.001	80	8079	3.35	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	73	9636	2.07	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	95	18879	3.94	
72 Toluene	91	8.458	8.458	0.0	89	52939	1.99	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	86	7347	2.09	
74 Ethyl methacrylate	69	8.731	8.730	0.001	86	8269	1.56	
75 1,1,2-Trichloroethane	97	8.802	8.813	-0.011	89	7657	1.87	
77 Tetrachloroethene	164	8.932	8.932	0.0	95	10795	1.97	
76 1,3-Dichloropropane	76	8.944	8.955	-0.011	93	14556	1.99	
78 2-Hexanone	43	9.015	9.014	0.001	92	12238	3.85	
79 Chlorodibromomethane	129	9.145	9.145	0.0	66	5069	4.40	
123 Ethylene Dibromide	107	9.239	9.251	-0.012	87	6989	1.77	
82 Chlorobenzene	112	9.665	9.665	0.0	95	33145	2.01	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	82	7392	1.40	
84 Ethylbenzene	106	9.748	9.760	-0.012	98	18051	2.03	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	98	21230	1.93	
85 o-Xylene	106	10.186	10.186	0.0	94	19856	1.91	
86 Styrene	104	10.198	10.198	0.0	86	27767	1.74	
87 Bromoform	173	10.364	10.363	0.001	68	2183	3.85	
88 Isopropylbenzene	105	10.494	10.494	0.0	95	49077	1.79	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	89	7892	1.82	
91 Bromobenzene	156	10.766	10.766	0.0	88	13197	2.01	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.789	0.001	43	2356	1.68	
92 1,2,3-Trichloropropane	110	10.790	10.789	0.001	61	2717	1.84	
94 N-Propylbenzene	120	10.849	10.849	0.0	96	13330	1.70	
95 2-Chlorotoluene	126	10.920	10.920	0.0	95	12250	1.83	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	91	39724	1.77	
104 4-Chlorotoluene	126	11.014	11.014	0.0	96	13481	1.97	
97 tert-Butylbenzene	119	11.263	11.275	-0.012	90	36637	1.74	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	72	41691	1.83	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	89	52109	1.79	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	77	25995	2.00	
101 4-Isopropyltoluene	119	11.571	11.570	0.001	61	44003	1.76	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	80	27755	2.12	
105 n-Butylbenzene	91	11.914	11.914	0.0	94	38190	1.77	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	95	24504	2.06	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	16	1173	1.98	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	91	17452	2.33	
110 Hexachlorobutadiene	225	13.405	13.404	0.001	88	8472	2.23	
111 Naphthalene	128	13.476	13.475	0.001	94	37781	2.58	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	91	15921	1.49	
S 137 Trihalomethanes, Total	1				0		12.3	
S 11 1,2-Dichloroethene, Total	96				0		3.74	
S 9 1,3-Dichloropropene, Total	75				0		4.16	
S 114 Xylenes, Total	106				0		3.84	

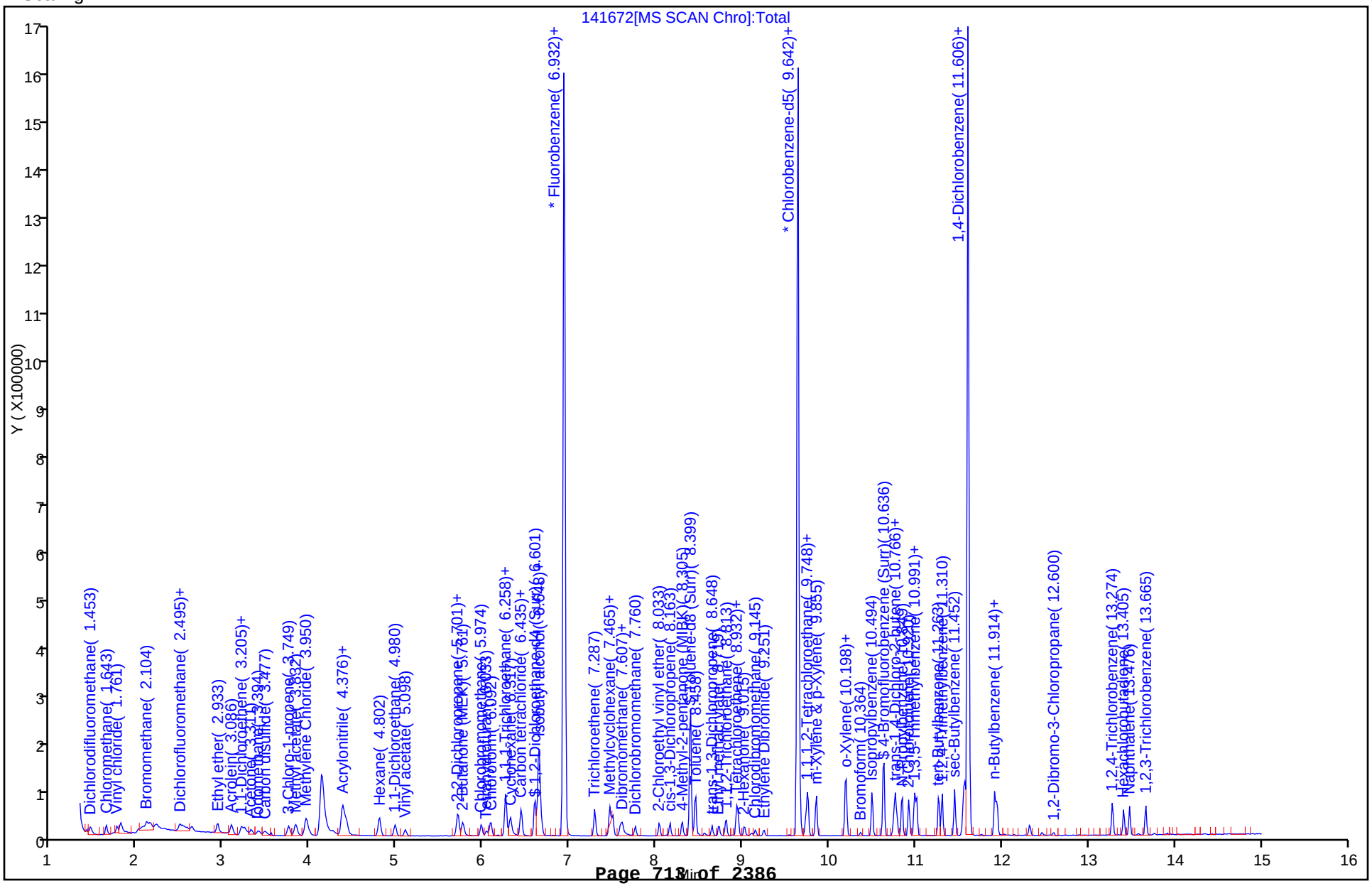
Report Date: 03-Apr-2013 12:44:54 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141672.D

Injection Date:	01-Apr-2013 16:34:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	10
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\141673.D		
Lims ID:	IC	Client ID:	
Inject. Date:	01-Apr-2013 16:55:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	ic		
Misc. Info.:	240-0018434-011 =240-0018434-011		
Operator:	002808	Instrument ID:	A3UX14
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	80127	Lims Sample ID:	11
Sublist:	chrom-8260_14*sub32		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m		
Last Update:	03-Apr-2013 12:44:54	Calib Date:	01-Apr-2013 20:09:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK035		
First Level Reviewer: macenczaks		Date:	02-Apr-2013 09:21:12

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1241738	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	822415	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	381634	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.257	0.001	56	29574	0.9196	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	93	39627	0.6338	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	92	139921	0.3591	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.636	-0.012	89	45432	0.3204	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	69	5995	0.8460	
13 Chloromethane	50	1.643	1.643	0.0	99	10249	1.12	
14 Vinyl chloride	62	1.761	1.773	-0.012	71	7109	0.9630	
15 Bromomethane	94	2.116	2.116	0.0	76	2964	1.22	
16 Chloroethane	64	2.222	2.234	-0.012	56	3485	1.02	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	66	10916	1.09	
18 Trichlorofluoromethane	101	2.530	2.542	-0.012	65	8393	0.8908	
19 Ethyl ether	59	2.921	2.921	0.0	91	6966	1.24	
20 Acrolein	56	3.086	3.086	0.0	75	8467	10.7	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	78	4996	0.8771	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	32	2980	0.5951	
22 Acetone	43	3.323	3.311	0.012	95	14683	2.71	
24 Iodomethane	142	3.394	3.406	-0.012	76	7765	0.8362	
26 Carbon disulfide	76	3.477	3.477	0.0	93	8780	3.56	
29 3-Chloro-1-propene	76	3.737	3.749	-0.012	77	2430	0.7235	
28 Methyl acetate	43	3.832	3.820	0.012	94	21386	5.04	
30 Methylene Chloride	84	3.950	3.950	0.0	93	16679	2.49	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	47	5264	12.4	
32 Acrylonitrile	53	4.364	4.364	0.0	99	20805	10.2	
33 trans-1,2-Dichloroethene	96	4.376	4.388	-0.012	90	5750	0.8763	
34 Methyl tert-butyl ether	73	4.412	4.411	0.001	86	13065	0.8824	
35 Hexane	86	4.802	4.802	0.0	91	1463	0.8158	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.980	4.979	0.001	72	10792	0.8807	
37 Vinyl acetate	86	5.098	5.098	0.0	89	731	0.7594	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	44	4185	0.7255	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	79	6591	0.9328	
41 2-Butanone (MEK)	43	5.761	5.749	0.012	23	7694	3.05	
47 Chlorobromomethane	128	5.974	5.973	0.001	83	2694	0.8507	
48 Tetrahydrofuran	42	6.033	6.033	0.0	91	4053	2.35	
49 Chloroform	83	6.080	6.092	-0.012	86	9406	0.8853	
50 1,1,1-Trichloroethane	97	6.258	6.257	0.001	22	5736	0.6956	
51 Cyclohexane	56	6.317	6.317	0.0	85	9617	0.7765	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	81	7521	0.8853	
53 Carbon tetrachloride	117	6.435	6.435	0.0	55	4533	0.5677	
54 Isobutyl alcohol	41	6.636	6.636	0.0	49	4531	26.3	
55 Benzene	78	6.648	6.648	0.0	93	25803	0.9802	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	77	8511	1.00	
58 n-Heptane	100	6.944	6.944	0.0	35	1780	0.8524	
60 Trichloroethene	130	7.287	7.287	0.0	89	7919	1.03	
63 Methylcyclohexane	83	7.464	7.464	0.0	85	8970	0.8002	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	79	5770	0.8767	
65 Dibromomethane	93	7.606	7.606	0.0	77	3208	1.03	
66 1,4-Dioxane	88	7.642	7.630	0.012	33	845	17.9	
67 Dichlorobromomethane	83	7.760	7.760	0.0	67	4134	1.49	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	74	4097	1.64	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	61	4615	1.49	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	87	8983	1.80	
72 Toluene	91	8.458	8.458	0.0	90	28207	1.02	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	68	3446	1.49	
74 Ethyl methacrylate	69	8.731	8.730	0.001	70	4876	0.8847	
75 1,1,2-Trichloroethane	97	8.802	8.813	-0.011	86	3993	0.9381	
77 Tetrachloroethene	164	8.932	8.932	0.0	85	4998	0.8763	
76 1,3-Dichloropropane	76	8.944	8.955	-0.011	87	7389	0.9709	
78 2-Hexanone	43	9.026	9.014	0.012	85	6470	1.95	
79 Chlorodibromomethane	129	9.145	9.145	0.0	43	2731	3.91	
123 Ethylene Dibromide	107	9.251	9.251	0.0	62	3642	0.8873	
82 Chlorobenzene	112	9.665	9.665	0.0	86	17859	1.04	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	61	3649	0.6621	
84 Ethylbenzene	106	9.748	9.760	-0.012	97	8296	0.8941	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	96	11656	1.02	
85 o-Xylene	106	10.186	10.186	0.0	92	10585	0.9778	
86 Styrene	104	10.198	10.198	0.0	84	13609	0.8172	
87 Bromoform	173	10.364	10.363	0.001	40	1033	3.32	
88 Isopropylbenzene	105	10.494	10.494	0.0	91	24447	0.8554	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	70	3757	0.8422	
91 Bromobenzene	156	10.766	10.766	0.0	83	6712	0.99	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.789	0.001	31	1361	0.9421	
92 1,2,3-Trichloropropane	110	10.790	10.789	0.001	62	1715	1.13	
94 N-Propylbenzene	120	10.849	10.849	0.0	94	6651	0.8265	
95 2-Chlorotoluene	126	10.920	10.920	0.0	93	6471	0.9373	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	89	18793	0.8153	
104 4-Chlorotoluene	126	11.014	11.014	0.0	94	6526	0.9278	
97 tert-Butylbenzene	119	11.263	11.275	-0.012	84	17886	0.8241	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	72	19626	0.8384	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	81	23052	0.7714	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	84	14442	1.08	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	52	20874	0.8134	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	65	15539	1.15	
105 n-Butylbenzene	91	11.914	11.914	0.0	92	18916	0.8532	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	87	13103	1.07	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	1	530	0.6151	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	85	9471	1.23	
110 Hexachlorobutadiene	225	13.405	13.404	0.001	76	3896	1.00	
111 Naphthalene	128	13.476	13.475	0.001	92	19876	1.32	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	86	8317	-0.1018	
S 137 Trihalomethanes, Total	1				0		9.60	
S 11 1,2-Dichloroethene, Total	96				0		1.81	
S 9 1,3-Dichloropropene, Total	75				0		2.98	
S 114 Xylenes, Total	106				0		2.00	

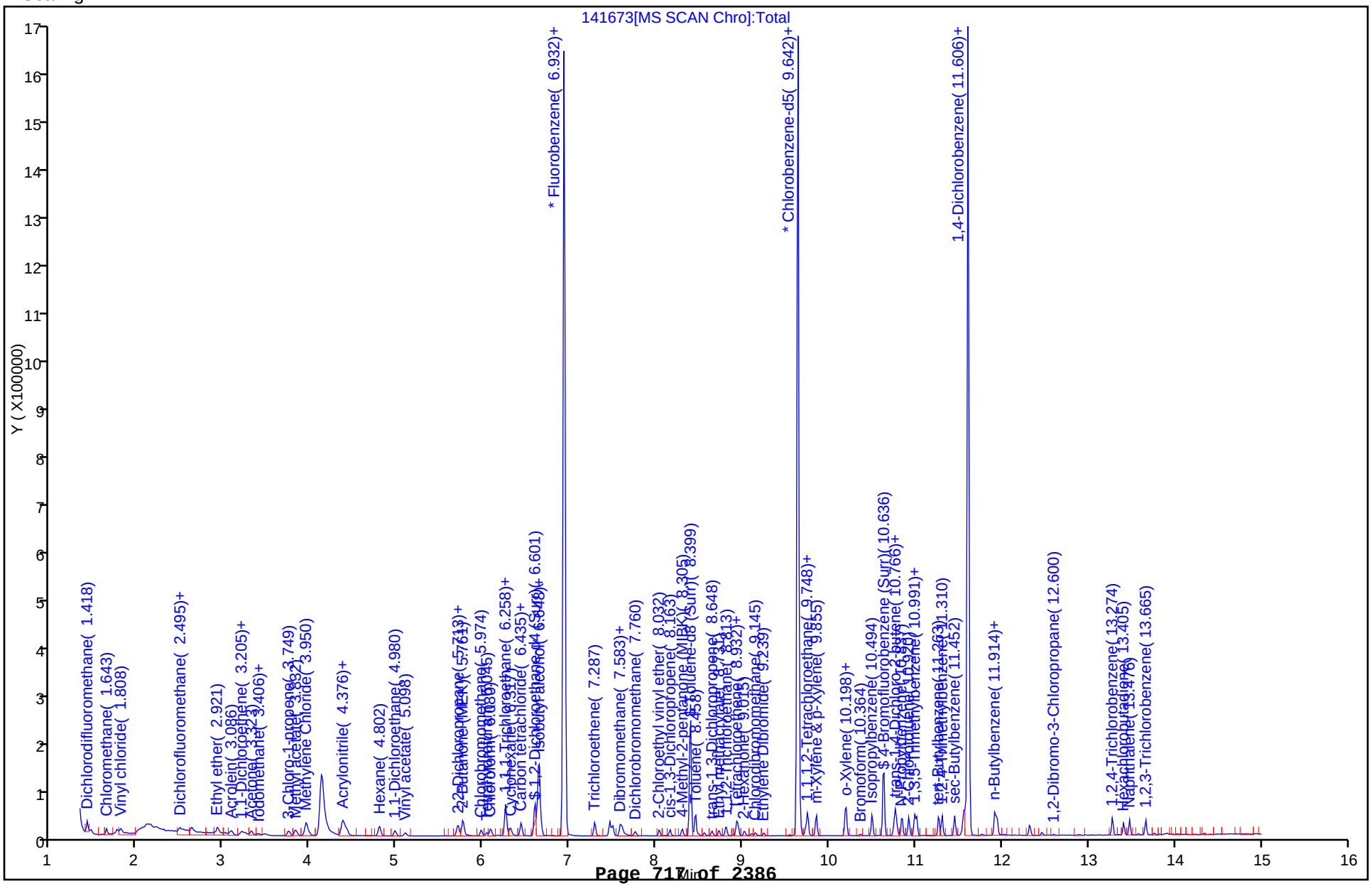
Report Date: 03-Apr-2013 12:44:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141673.D

Injection Date:	01-Apr-2013 16:55:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	11
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-78761/9 Calibration Date: 03/19/2013 21:32

Instrument ID: A3UX12 Calib Start Date: 12/17/2012 23:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/18/2012 01:30

Lab File ID: UX129110.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.0068	0.0057		0.841	1.00	-15.9	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D
Lims ID: ICV
Client ID:
Inject. Date: 19-Mar-2013 21:32:30
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018085-009
Misc. Info.:
Operator: 1904
Instrument ID: A3UX12
Purge Vol: 5.000 mL
ALS Bottle#: 9
Lims Batch ID: 78761
Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:45
Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624
Column Dia: 0.18 mm
Process Host: XAWRK010

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	100	1642021	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1253876	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	83	594297	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	56	383633	21.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	90	456928	21.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	82	1669952	22.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	84	607498	22.2	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	87	442774	18.6	
13 Chloromethane	50	1.784	1.783	0.001	99	562777	18.2	
14 Vinyl chloride	62	1.902	1.890	0.012	96	608507	19.4	
15 Bromomethane	94	2.210	2.198	0.012	90	317401	16.5	
16 Chloroethane	64	2.304	2.304	0.0	92	415794	19.4	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	84	597175	19.9	
19 Ethyl ether	59	2.718	2.718	0.0	87	351096	25.4	
20 Acrolein	56	2.837	2.837	0.0	88	245541	75.8	
22 Acetone	43	2.967	2.955	0.012	40	167585	33.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	56	436363	21.9	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	829815	21.8	
24 Iodomethane	142	3.109	3.109	0.0	96	755462	21.0	
26 Carbon disulfide	76	3.156	3.144	0.012	98	1639079	21.6	
27 Acetonitrile	41	3.203	3.192	0.011	93	139423	58.7	
28 Methyl acetate	43	3.227	3.227	0.0	97	258939	18.1	
30 Methylene Chloride	49	3.369	3.369	0.0	82	645315	20.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	96	581648	322.2	
32 Acrylonitrile	53	3.523	3.523	0.0	99	440397	58.2	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1128290	19.5	
33 trans-1,2-Dichloroethene	61	3.558	3.547	0.011	90	592939	20.3	
35 Hexane	57	3.771	3.771	0.0	88	386606	23.4	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	707631	20.9	
37 Vinyl acetate	86	3.925	3.925	0.0	96	99244	23.7	
38 Isopropyl ether	87	3.937	3.937	0.0	87	364139	23.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	68	555099	20.3	
43 2,2-Dichloropropane	77	4.387	4.375	0.012	55	237097	21.4	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	59	82507	38.9	
47 Chlorobromomethane	49	4.576	4.576	0.0	78	318676	21.6	
48 Tetrahydrofuran	42	4.612	4.612	0.0	83	97445	18.8	
49 Chloroform	83	4.623	4.623	0.0	81	623529	19.4	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	93	395873	20.9	
51 Cyclohexane	56	4.860	4.860	0.0	85	528299	20.2	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	508796	21.4	
53 Carbon tetrachloride	117	4.943	4.943	0.0	58	271475	21.2	
54 Isobutyl alcohol	41	4.978	4.978	0.0	93	359638	840.7	
55 Benzene	78	5.109	5.108	0.001	94	1645081	20.6	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	87	474380	20.8	
60 Trichloroethene	130	5.641	5.641	0.0	91	393770	20.9	
63 Methylcyclohexane	55	5.807	5.807	0.0	85	349724	21.2	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	92	388351	20.2	
65 Dibromomethane	174	5.937	5.937	0.0	83	224499	21.0	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	463460	21.2	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	236553	19.3	
70 cis-1,3-Dichloropropene	75	6.446	6.434	0.012	90	603497	20.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	573735	35.6	
72 Toluene	91	6.742	6.741	0.001	90	1670929	20.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	528674	22.4	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.0	86	335758	18.8	
77 Tetrachloroethene	166	7.238	7.238	0.0	91	307304	21.8	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	88	654881	20.1	
78 2-Hexanone	43	7.298	7.309	-0.011	92	406643	39.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	308044	20.5	
123 Ethylene Dibromide	107	7.582	7.582	0.0	99	341858	20.3	
82 Chlorobenzene	112	8.019	8.019	0.0	96	1112315	20.7	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	83	306688	22.1	
84 Ethylbenzene	106	8.114	8.114	0.0	97	538441	20.7	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1311792	40.3	
85 o-Xylene	106	8.599	8.599	0.0	91	688817	20.4	
86 Styrene	104	8.611	8.611	0.0	92	1237312	21.5	
87 Bromoform	173	8.800	8.800	0.0	95	177773	20.9	
88 Isopropylbenzene	105	8.954	8.954	0.0	93	1501061	21.2	
89 Cyclohexanone	55	9.061	9.049	0.012	87	280572	189.7	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	98	493734	19.8	
91 Bromobenzene	156	9.262	9.262	0.0	93	423001	20.1	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	156891	19.6	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	66	225797	40.8	
94 N-Propylbenzene	120	9.345	9.357	-0.011	97	404131	21.1	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	369326	20.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	95	1253392	20.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	408618	21.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	89	1097536	21.2	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1350572	21.5	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1647294	22.2	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	766536	20.4	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1464611	23.1	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	94	793696	20.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	89	1391850	19.8	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1345064	23.6	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	97	777193	20.0	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	75	86295	21.7	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	91	513799	23.2	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	96	207764	21.2	
111 Naphthalene	128	12.492	12.492	0.0	97	1336286	20.2	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	93	481520	23.0	
S 145 Trihalomethanes, Total	1				0		82.1	
S 11 1,2-Dichloroethene, Total	96				0		40.7	
S 114 Xylenes, Total	106				0		60.6	

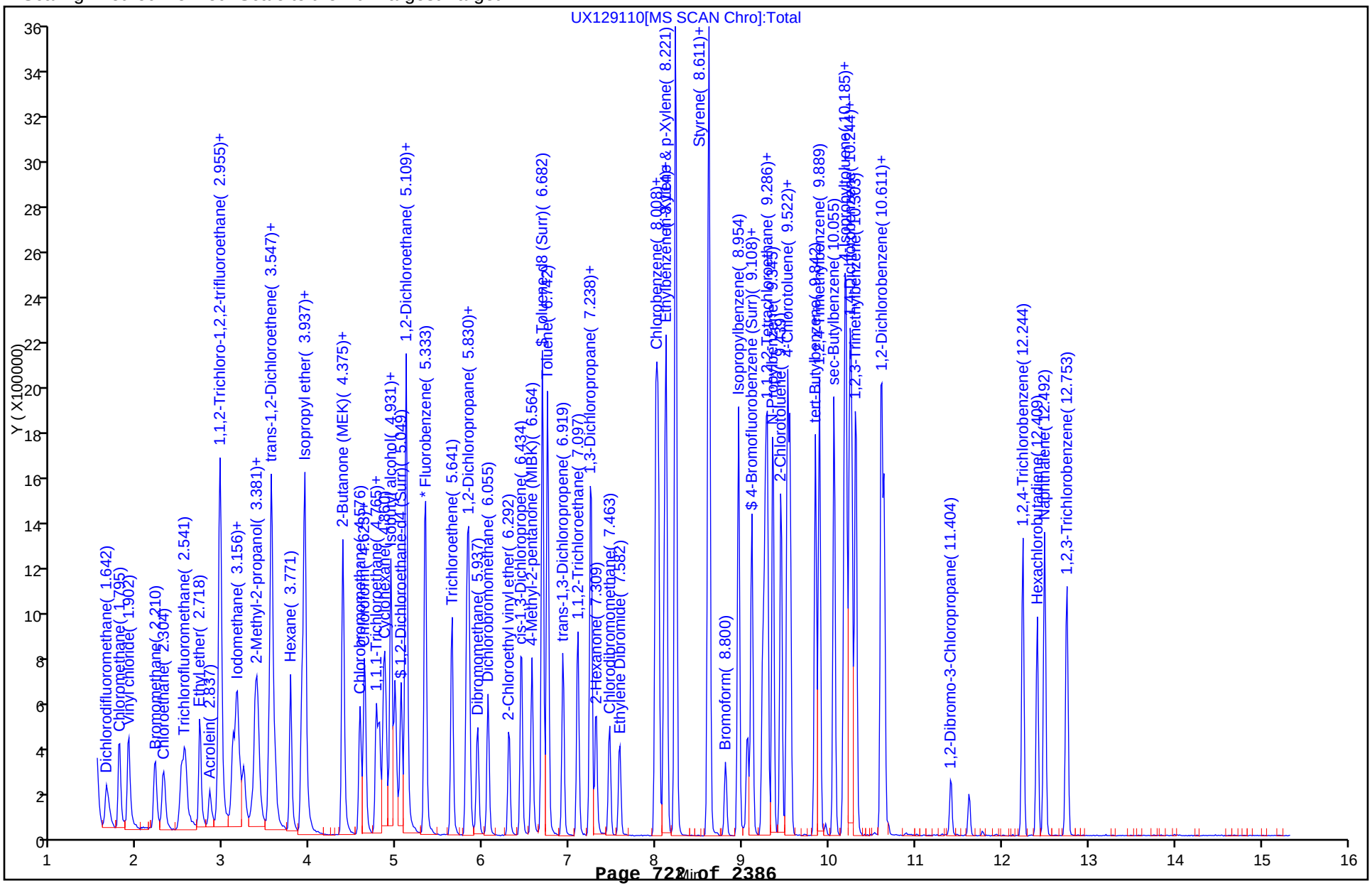
Report Date: 19-Mar-2013 22:02:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D

Injection Date:	19-Mar-2013 21:32:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-78761/9 Calibration Date: 03/19/2013 21:32

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129110.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2894	0.2697	0.1000	0.0186	0.0200	-6.8	20.0
Chloromethane	Ave	0.3759	0.3427	0.1000	0.0182	0.0200	-8.8	20.0
Vinyl chloride	Ave	0.3817	0.3706	0.1000	0.0194	0.0200	-2.9	20.0
Bromomethane	Ave	0.2337	0.1933	0.0500	0.0165	0.0200	-17.3	20.0
Chloroethane	Ave	0.2617	0.2532	0.0500	0.0194	0.0200	-3.2	20.0
Trichlorofluoromethane	Lin1		0.3637	0.1000	0.0199	0.0200	-0.4	20.0
Acrolein	Ave	0.0394	0.0499		0.0758	0.0600	26.4*	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2423	0.2658	0.0500	0.0219	0.0200	9.7	20.0
1,1-Dichloroethene	Ave	0.4640	0.5054	0.1000	0.0218	0.0200	8.9	20.0
Acetone	Lin1		0.0510	0.0500	0.0333	0.0400	-16.7	20.0
Iodomethane	Ave	0.4375	0.4601		0.0210	0.0200	5.2	20.0
Carbon disulfide	Ave	0.9264	0.998	0.1000	0.0216	0.0200	7.8	20.0
Acetonitrile	Ave	0.0290	0.0283		0.0587	0.0600	-2.2	20.0
Methyl acetate	Ave	0.1739	0.1577	0.1000	0.0181	0.0200	-9.3	20.0
Methylene Chloride	Lin1		0.3930	0.1000	0.0207	0.0200	3.7	20.0
2-Methyl-2-propanol	Qua		0.0177		0.322	0.400	-19.5	20.0
Acrylonitrile	Ave	0.0921	0.0894		0.0582	0.0600	-2.9	20.0
Methyl tert-butyl ether	Ave	0.7052	0.6871	0.1000	0.0195	0.0200	-2.6	20.0
trans-1,2-Dichloroethene	Ave	0.3553	0.3611	0.1000	0.0203	0.0200	1.6	20.0
1,1-Dichloroethane	Ave	0.4129	0.4310	0.1000	0.0209	0.0200	4.4	20.0
Vinyl acetate	Lin1		0.0604		0.0237	0.0200	18.3	20.0
2-Butanone (MEK)	Lin		0.0251*	0.0500	0.0389	0.0400	-2.8	20.0
cis-1,2-Dichloroethene	Ave	0.3326	0.3381	0.1000	0.0203	0.0200	1.6	20.0
2,2-Dichloropropane	Ave	0.1352	0.1444		0.0214	0.0200	6.8	20.0
Bromochloromethane	Ave	0.1793	0.1941		0.0216	0.0200	8.2	20.0
Chloroform	Ave	0.3905	0.3797	0.2000	0.0194	0.0200	-2.8	20.0
1,1,1-Trichloroethane	Ave	0.2307	0.2411	0.1000	0.0209	0.0200	4.5	20.0
Cyclohexane	Ave	0.3188	0.3217	0.1000	0.0202	0.0200	0.9	20.0
1,1-Dichloropropene	Ave	0.2891	0.3099		0.0214	0.0200	7.2	20.0
Carbon tetrachloride	Ave	0.1556	0.1653	0.1000	0.0212	0.0200	6.2	20.0
1,2-Dichloroethane	Ave	0.2780	0.2889	0.1000	0.0208	0.0200	3.9	20.0
Benzene	Ave	0.9750	1.002	0.5000	0.0206	0.0200	2.8	20.0
Trichloroethene	Ave	0.2297	0.2398	0.2000	0.0209	0.0200	4.4	20.0
Methylcyclohexane	Ave	0.2013	0.2130	0.1000	0.0212	0.0200	5.8	20.0
1,2-Dichloropropane	Ave	0.2342	0.2365	0.1000	0.0202	0.0200	1.0	20.0
Dibromomethane	Ave	0.1301	0.1367		0.0210	0.0200	5.1	20.0
Bromodichloromethane	Ave	0.2659	0.2823	0.1000	0.0212	0.0200	6.2	20.0
cis-1,3-Dichloropropene	Ave	0.3562	0.3675	0.1500	0.0206	0.0200	3.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1962	0.1747	0.0500	0.0356	0.0400	-11.0	20.0
Toluene	Ave	1.283	1.333	0.4000	0.0208	0.0200	3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-78761/9 Calibration Date: 03/19/2013 21:32

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129110.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Ave	0.3767	0.4216	0.1000	0.0224	0.0200	11.9	20.0
1,1,2-Trichloroethane	Ave	0.2849	0.2678	0.1000	0.0188	0.0200	-6.0	20.0
Tetrachloroethene	Ave	0.2251	0.2451	0.2000	0.0218	0.0200	8.9	20.0
1,3-Dichloropropane	Ave	0.5207	0.5223		0.0201	0.0200	0.3	20.0
2-Hexanone	Ave	0.1652	0.1622	0.0500	0.0393	0.0400	-1.8	20.0
Dibromochloromethane	Ave	0.2395	0.2457		0.0205	0.0200	2.6	20.0
1,2-Dibromoethane	Ave	0.2690	0.2726		0.0203	0.0200	1.4	20.0
Chlorobenzene	Ave	0.8562	0.8871	0.3000	0.0207	0.0200	3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2213	0.2446		0.0221	0.0200	10.5	20.0
Ethylbenzene	Ave	0.4148	0.4294		0.0207	0.0200	3.5	20.0
m-Xylene & p-Xylene	Ave	0.5198	0.5231		0.0403	0.0400	0.6	20.0
o-Xylene	Ave	0.5397	0.5494		0.0204	0.0200	1.8	20.0
Styrene	Ave	0.9166	0.9868	0.3000	0.0215	0.0200	7.7	20.0
Bromoform	Ave	0.1356	0.1418	0.1000	0.0209	0.0200	4.5	20.0
Isopropylbenzene	Ave	1.132	1.197	0.1000	0.0212	0.0200	5.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8383	0.8308	0.3000	0.0198	0.0200	-0.9	20.0
Bromobenzene	Ave	0.7071	0.7118		0.0201	0.0200	0.7	20.0
1,2,3-Trichloropropane	Ave	0.2700	0.2640		0.0196	0.0200	-2.2	20.0
N-Propylbenzene	Ave	0.6443	0.6800		0.0211	0.0200	5.5	20.0
2-Chlorotoluene	Ave	0.5969	0.6215		0.0208	0.0200	4.1	20.0
1,3,5-Trimethylbenzene	Ave	2.035	2.109		0.0207	0.0200	3.6	20.0
4-Chlorotoluene	Ave	0.6394	0.6876		0.0215	0.0200	7.5	20.0
tert-Butylbenzene	Ave	1.738	1.847		0.0212	0.0200	6.2	20.0
1,2,4-Trimethylbenzene	Ave	2.110	2.273		0.0215	0.0200	7.7	20.0
sec-Butylbenzene	Ave	2.495	2.772		0.0222	0.0200	11.1	20.0
1,3-Dichlorobenzene	Ave	1.267	1.290	0.6000	0.0204	0.0200	1.8	20.0
4-Isopropyltoluene	Ave	2.129	2.464		0.0231	0.0200	15.7	20.0
1,4-Dichlorobenzene	Ave	1.301	1.336	0.5000	0.0205	0.0200	2.6	20.0
n-Butylbenzene	Ave	1.917	2.263		0.0236	0.0200	18.1	20.0
1,2-Dichlorobenzene	Ave	1.305	1.308	0.4000	0.0200	0.0200	0.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1341	0.1452	0.0500	0.0217	0.0200	8.3	20.0
1,2,4-Trichlorobenzene	Ave	0.7462	0.8646	0.2000	0.0232	0.0200	15.9	20.0
Hexachlorobutadiene	Ave	0.3296	0.3496		0.0212	0.0200	6.1	20.0
Naphthalene	Ave	2.225	2.249		0.0202	0.0200	1.1	20.0
1,2,3-Trichlorobenzene	Ave	0.7033	0.8102		0.0230	0.0200	15.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2177	0.2336		0.0215	0.0200	7.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2617	0.2783		0.0213	0.0200	6.3	20.0
Toluene-d8 (Surr)	Ave	1.197	1.332		0.0222	0.0200	11.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4361	0.4845		0.0222	0.0200	11.1	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D
Lims ID: ICV
Client ID:
Inject. Date: 19-Mar-2013 21:32:30
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018085-009
Misc. Info.:
Operator: 1904
Instrument ID: A3UX12
Purge Vol: 5.000 mL
ALS Bottle#: 9
Lims Batch ID: 78761
Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:45
Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624
Column Dia: 0.18 mm
Process Host: XAWRK010

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	100	1642021	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1253876	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	83	594297	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	56	383633	21.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	90	456928	21.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	82	1669952	22.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	84	607498	22.2	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	87	442774	18.6	
13 Chloromethane	50	1.784	1.783	0.001	99	562777	18.2	
14 Vinyl chloride	62	1.902	1.890	0.012	96	608507	19.4	
15 Bromomethane	94	2.210	2.198	0.012	90	317401	16.5	
16 Chloroethane	64	2.304	2.304	0.0	92	415794	19.4	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	84	597175	19.9	
19 Ethyl ether	59	2.718	2.718	0.0	87	351096	25.4	
20 Acrolein	56	2.837	2.837	0.0	88	245541	75.8	
22 Acetone	43	2.967	2.955	0.012	40	167585	33.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	56	436363	21.9	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	829815	21.8	
24 Iodomethane	142	3.109	3.109	0.0	96	755462	21.0	
26 Carbon disulfide	76	3.156	3.144	0.012	98	1639079	21.6	
27 Acetonitrile	41	3.203	3.192	0.011	93	139423	58.7	
28 Methyl acetate	43	3.227	3.227	0.0	97	258939	18.1	
30 Methylene Chloride	49	3.369	3.369	0.0	82	645315	20.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	96	581648	322.2	
32 Acrylonitrile	53	3.523	3.523	0.0	99	440397	58.2	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1128290	19.5	
33 trans-1,2-Dichloroethene	61	3.558	3.547	0.011	90	592939	20.3	
35 Hexane	57	3.771	3.771	0.0	88	386606	23.4	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	707631	20.9	
37 Vinyl acetate	86	3.925	3.925	0.0	96	99244	23.7	
38 Isopropyl ether	87	3.937	3.937	0.0	87	364139	23.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	68	555099	20.3	
43 2,2-Dichloropropane	77	4.387	4.375	0.012	55	237097	21.4	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	59	82507	38.9	
47 Chlorobromomethane	49	4.576	4.576	0.0	78	318676	21.6	
48 Tetrahydrofuran	42	4.612	4.612	0.0	83	97445	18.8	
49 Chloroform	83	4.623	4.623	0.0	81	623529	19.4	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	93	395873	20.9	
51 Cyclohexane	56	4.860	4.860	0.0	85	528299	20.2	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	508796	21.4	
53 Carbon tetrachloride	117	4.943	4.943	0.0	58	271475	21.2	
54 Isobutyl alcohol	41	4.978	4.978	0.0	93	359638	840.7	
55 Benzene	78	5.109	5.108	0.001	94	1645081	20.6	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	87	474380	20.8	
60 Trichloroethene	130	5.641	5.641	0.0	91	393770	20.9	
63 Methylcyclohexane	55	5.807	5.807	0.0	85	349724	21.2	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	92	388351	20.2	
65 Dibromomethane	174	5.937	5.937	0.0	83	224499	21.0	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	463460	21.2	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	236553	19.3	
70 cis-1,3-Dichloropropene	75	6.446	6.434	0.012	90	603497	20.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	573735	35.6	
72 Toluene	91	6.742	6.741	0.001	90	1670929	20.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	528674	22.4	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.0	86	335758	18.8	
77 Tetrachloroethene	166	7.238	7.238	0.0	91	307304	21.8	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	88	654881	20.1	
78 2-Hexanone	43	7.298	7.309	-0.011	92	406643	39.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	308044	20.5	
123 Ethylene Dibromide	107	7.582	7.582	0.0	99	341858	20.3	
82 Chlorobenzene	112	8.019	8.019	0.0	96	1112315	20.7	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	83	306688	22.1	
84 Ethylbenzene	106	8.114	8.114	0.0	97	538441	20.7	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1311792	40.3	
85 o-Xylene	106	8.599	8.599	0.0	91	688817	20.4	
86 Styrene	104	8.611	8.611	0.0	92	1237312	21.5	
87 Bromoform	173	8.800	8.800	0.0	95	177773	20.9	
88 Isopropylbenzene	105	8.954	8.954	0.0	93	1501061	21.2	
89 Cyclohexanone	55	9.061	9.049	0.012	87	280572	189.7	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	98	493734	19.8	
91 Bromobenzene	156	9.262	9.262	0.0	93	423001	20.1	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	156891	19.6	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	66	225797	40.8	
94 N-Propylbenzene	120	9.345	9.357	-0.011	97	404131	21.1	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	369326	20.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	95	1253392	20.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	408618	21.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	89	1097536	21.2	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1350572	21.5	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1647294	22.2	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	766536	20.4	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1464611	23.1	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	94	793696	20.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	89	1391850	19.8	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1345064	23.6	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	97	777193	20.0	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	75	86295	21.7	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	91	513799	23.2	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	96	207764	21.2	
111 Naphthalene	128	12.492	12.492	0.0	97	1336286	20.2	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	93	481520	23.0	
S 145 Trihalomethanes, Total	1				0		82.1	
S 11 1,2-Dichloroethene, Total	96				0		40.7	
S 114 Xylenes, Total	106				0		60.6	

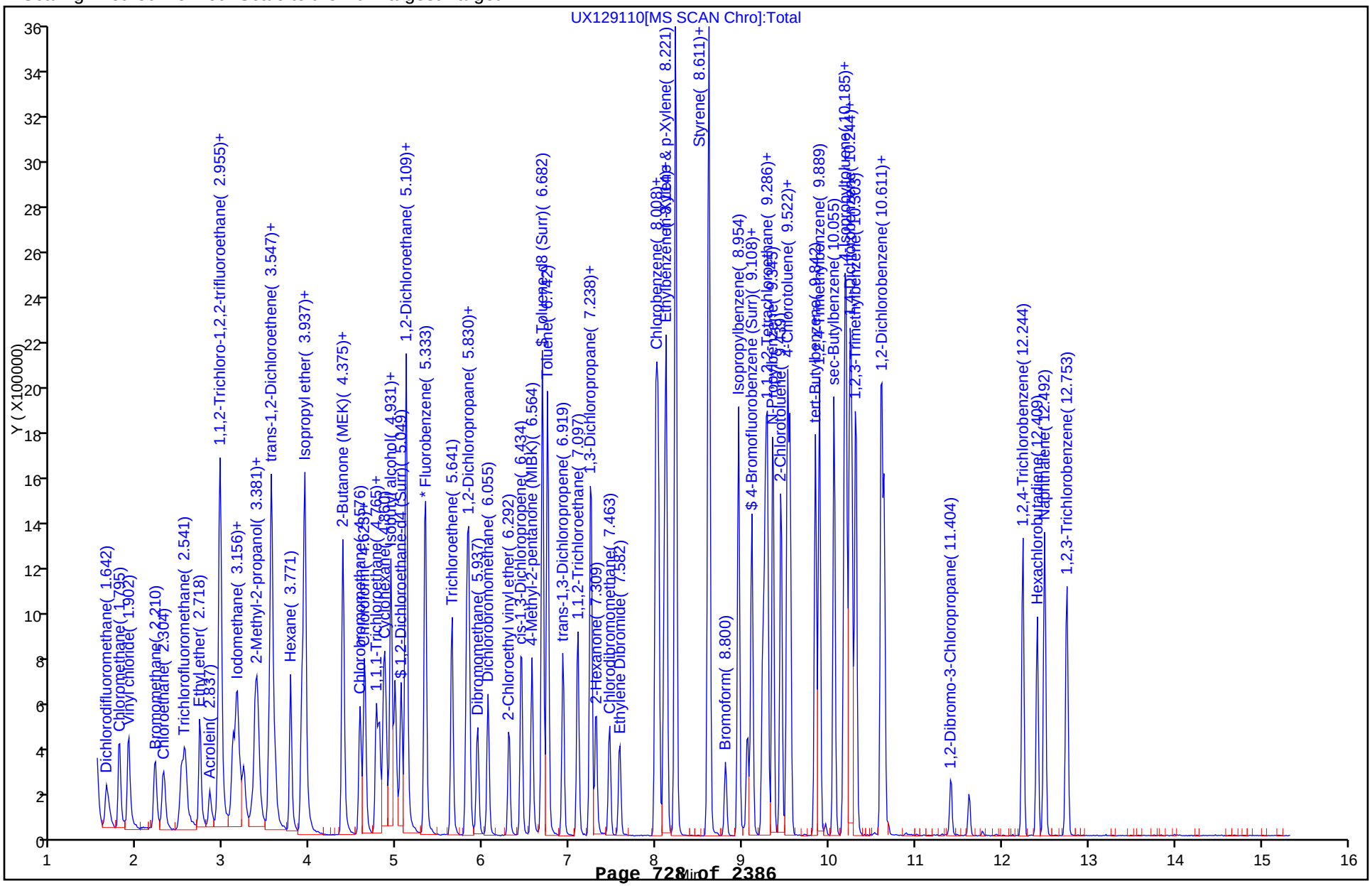
Report Date: 19-Mar-2013 22:02:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D

Injection Date:	19-Mar-2013 21:32:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-79725/2 Calibration Date: 03/28/2013 09:36

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129315.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2894	0.3199	0.1000	0.0221	0.0200	10.5	20.0
Chloromethane	Ave	0.3759	0.3662	0.1000	0.0195	0.0200	-2.6	20.0
Vinyl chloride	Ave	0.3817	0.3717	0.1000	0.0195	0.0200	-2.6	20.0
Bromomethane	Ave	0.2337	0.2219	0.0500	0.0190	0.0200	-5.1	20.0
Chloroethane	Ave	0.2617	0.2516	0.0500	0.0192	0.0200	-3.9	20.0
Trichlorofluoromethane	Lin1		0.3592	0.1000	0.0197	0.0200	-1.6	20.0
Acrolein	Ave	0.0394	0.0346		0.175	0.200	-12.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2423	0.2252	0.0500	0.0186	0.0200	-7.1	20.0
1,1-Dichloroethene	Ave	0.4640	0.4289	0.1000	0.0185	0.0200	-7.6	20.0
Acetone	Lin1		0.0562	0.0500	0.0368	0.0400	-7.9	20.0
Iodomethane	Ave	0.4375	0.4067		0.0186	0.0200	-7.0	20.0
Carbon disulfide	Ave	0.9264	0.8577	0.1000	0.0185	0.0200	-7.4	20.0
Acetonitrile	Ave	0.0290	0.0274		0.189	0.200	-5.5	20.0
Methyl acetate	Ave	0.1739	0.1487	0.1000	0.0342	0.0400	-14.5	20.0
Methylene Chloride	Lin1		0.3622	0.1000	0.0191	0.0200	-4.7	20.0
2-Methyl-2-propanol	Qua		0.0143		0.262	0.400	-34.6*	20.0
Acrylonitrile	Ave	0.0921	0.0864		0.0375	0.0400	-6.2	20.0
Methyl tert-butyl ether	Ave	0.7052	0.6295	0.1000	0.0179	0.0200	-10.7	20.0
trans-1,2-Dichloroethene	Ave	0.3553	0.3397	0.1000	0.0191	0.0200	-4.4	20.0
1,1-Dichloroethane	Ave	0.4129	0.4054	0.1000	0.0196	0.0200	-1.8	20.0
Vinyl acetate	Lin1		0.0455		0.0179	0.0200	-10.5	20.0
2,2-Dichloropropane	Ave	0.1352	0.1479		0.0219	0.0200	9.4	20.0
2-Butanone (MEK)	Lin		0.0251*	0.0500	0.0388	0.0400	-3.1	20.0
cis-1,2-Dichloroethene	Ave	0.3326	0.3283	0.1000	0.0197	0.0200	-1.3	20.0
Bromochloromethane	Ave	0.1793	0.1853		0.0207	0.0200	3.3	20.0
Chloroform	Ave	0.3905	0.3700	0.2000	0.0190	0.0200	-5.2	20.0
1,1,1-Trichloroethane	Ave	0.2307	0.2595	0.1000	0.0225	0.0200	12.5	20.0
Cyclohexane	Ave	0.3188	0.3022	0.1000	0.0190	0.0200	-5.2	20.0
1,1-Dichloropropene	Ave	0.2891	0.2939		0.0203	0.0200	1.6	20.0
Carbon tetrachloride	Ave	0.1556	0.1935	0.1000	0.0249	0.0200	24.4*	20.0
1,2-Dichloroethane	Ave	0.2780	0.2795	0.1000	0.0201	0.0200	0.5	20.0
Benzene	Ave	0.9750	0.9420	0.5000	0.0193	0.0200	-3.4	20.0
Trichloroethene	Ave	0.2297	0.2153	0.2000	0.0188	0.0200	-6.2	20.0
Methylcyclohexane	Ave	0.2013	0.1956	0.1000	0.0194	0.0200	-2.9	20.0
1,2-Dichloropropane	Ave	0.2342	0.2221	0.1000	0.0190	0.0200	-5.2	20.0
Dibromomethane	Ave	0.1301	0.1248		0.0192	0.0200	-4.0	20.0
Bromodichloromethane	Ave	0.2659	0.2660	0.1000	0.0200	0.0200	0.0	20.0
cis-1,3-Dichloropropene	Ave	0.3562	0.3412	0.1500	0.0192	0.0200	-4.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1962	0.1731	0.0500	0.0353	0.0400	-11.8	20.0
Toluene	Ave	1.283	1.301	0.4000	0.0203	0.0200	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-79725/2 Calibration Date: 03/28/2013 09:36

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129315.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Ave	0.3767	0.3897	0.1000	0.0207	0.0200	3.5	20.0
1,1,2-Trichloroethane	Ave	0.2849	0.2578	0.1000	0.0181	0.0200	-9.5	20.0
Tetrachloroethene	Ave	0.2251	0.2392	0.2000	0.0212	0.0200	6.2	20.0
1,3-Dichloropropane	Ave	0.5207	0.5208		0.0200	0.0200	0.0	20.0
2-Hexanone	Ave	0.1652	0.1663	0.0500	0.0403	0.0400	0.7	20.0
Dibromochloromethane	Ave	0.2395	0.2431		0.0203	0.0200	1.5	20.0
1,2-Dibromoethane	Ave	0.2690	0.2581		0.0192	0.0200	-4.0	20.0
Chlorobenzene	Ave	0.8562	0.8513	0.3000	0.0199	0.0200	-0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2213	0.2422		0.0219	0.0200	9.4	20.0
Ethylbenzene	Ave	0.4148	0.4145		0.0200	0.0200	-0.0	20.0
m-Xylene & p-Xylene	Ave	0.5198	0.5157		0.0397	0.0400	-0.8	20.0
o-Xylene	Ave	0.5397	0.5286		0.0196	0.0200	-2.0	20.0
Styrene	Ave	0.9166	0.9701	0.3000	0.0212	0.0200	5.8	20.0
Bromoform	Ave	0.1356	0.1327	0.1000	0.0196	0.0200	-2.1	20.0
Isopropylbenzene	Ave	1.132	1.186	0.1000	0.0210	0.0200	4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8383	0.7662	0.3000	0.0183	0.0200	-8.6	20.0
Bromobenzene	Ave	0.7071	0.6620		0.0187	0.0200	-6.4	20.0
1,2,3-Trichloropropane	Ave	0.2700	0.2443		0.0181	0.0200	-9.5	20.0
N-Propylbenzene	Ave	0.6443	0.6245		0.0194	0.0200	-3.1	20.0
2-Chlorotoluene	Ave	0.5969	0.5955		0.0200	0.0200	-0.2	20.0
1,3,5-Trimethylbenzene	Ave	2.035	2.001		0.0197	0.0200	-1.7	20.0
4-Chlorotoluene	Ave	0.6394	0.6373		0.0199	0.0200	-0.3	20.0
tert-Butylbenzene	Ave	1.738	1.822		0.0210	0.0200	4.8	20.0
1,2,4-Trimethylbenzene	Ave	2.110	2.143		0.0203	0.0200	1.6	20.0
sec-Butylbenzene	Ave	2.495	2.472		0.0198	0.0200	-0.9	20.0
1,3-Dichlorobenzene	Ave	1.267	1.220	0.6000	0.0193	0.0200	-3.7	20.0
4-Isopropyltoluene	Ave	2.129	2.128		0.0200	0.0200	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.301	1.276	0.5000	0.0196	0.0200	-2.0	20.0
n-Butylbenzene	Ave	1.917	1.856		0.0194	0.0200	-3.1	20.0
1,2-Dichlorobenzene	Ave	1.305	1.216	0.4000	0.0186	0.0200	-6.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1341	0.1144	0.0500	0.0171	0.0200	-14.7	20.0
1,2,4-Trichlorobenzene	Ave	0.7462	0.6919	0.2000	0.0185	0.0200	-7.3	20.0
Hexachlorobutadiene	Ave	0.3296	0.2943		0.0179	0.0200	-10.7	20.0
Naphthalene	Ave	2.225	1.916		0.0172	0.0200	-13.9	20.0
1,2,3-Trichlorobenzene	Ave	0.7033	0.6050		0.0172	0.0200	-14.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2177	0.2294		0.0211	0.0200	5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2617	0.2786		0.0213	0.0200	6.5	20.0
Toluene-d8 (Surr)	Ave	1.197	1.302		0.0217	0.0200	8.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4361	0.4661		0.0214	0.0200	6.9	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129315.D
Lims ID: CCVIS L4 8260 Client ID:
Inject. Date: 28-Mar-2013 09:36:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 240-0018335-002
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 79725 Lims Sample ID: 2
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:25 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 09:56:12

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.322	0.0	98	1705438	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1258697	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	92	612869	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.766	0.0	54	391193	21.1	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.050	0.0	89	475117	21.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	93	1638511	21.7	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	586687	21.4	
12 Dichlorodifluoromethane	85	1.642	1.642	0.0	86	545639	22.1	
13 Chloromethane	50	1.795	1.795	0.0	89	624521	19.5	
14 Vinyl chloride	62	1.902	1.902	0.0	82	633928	19.5	
15 Bromomethane	94	2.198	2.198	0.0	89	378392	19.0	
16 Chloroethane	64	2.304	2.304	0.0	99	429013	19.2	
18 Trichlorofluoromethane	101	2.517	2.517	0.0	86	612522	19.7	
20 Acrolein	56	2.837	2.837	0.0	94	589653	175.3	
22 Acetone	43	2.955	2.955	0.0	41	191641	36.8	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	731471	18.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	55	384127	18.6	
24 Iodomethane	142	3.109	3.109	0.0	95	693615	18.6	
26 Carbon disulfide	76	3.156	3.156	0.0	98	1462811	18.5	
27 Acetonitrile	41	3.192	3.192	0.0	98	466708	189.0	
28 Methyl acetate	43	3.227	3.227	0.0	94	507208	34.2	
30 Methylene Chloride	49	3.369	3.369	0.0	80	617625	19.1	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	94	486890	261.5	
32 Acrylonitrile	53	3.523	3.523	0.0	99	294634	37.5	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	93	1073540	17.9	
33 trans-1,2-Dichloroethene	61	3.559	3.559	0.0	90	579245	19.1	
35 Hexane	57	3.772	3.772	0.0	87	319530	18.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	691440	19.6	
37 Vinyl acetate	86	3.925	3.925	0.0	96	77541	17.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	4.375	4.375	0.0	49	252170	21.9	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	63	85490	38.8	
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	559844	19.7	
47 Chlorobromomethane	49	4.576	4.576	0.0	75	316068	20.7	
48 Tetrahydrofuran	42	4.612	4.612	0.0	54	92854	17.2	
49 Chloroform	83	4.624	4.624	0.0	70	631059	19.0	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	89	442468	22.5	
51 Cyclohexane	56	4.860	4.860	0.0	84	515343	19.0	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	97	501149	20.3	
53 Carbon tetrachloride	117	4.943	4.943	0.0	67	330025	24.9	
55 Benzene	78	5.109	5.109	0.0	94	1606543	19.3	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	86	476654	20.1	
60 Trichloroethene	130	5.641	5.641	0.0	90	367188	18.8	
63 Methylcyclohexane	55	5.807	5.807	0.0	88	333496	19.4	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	95	378684	19.0	
66 1,4-Dioxane	88	5.937	5.937	0.0	71	186071	825.8	
65 Dibromomethane	174	5.937	5.937	0.0	92	212853	19.2	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	453557	20.0	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	90	508098	39.9	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	581876	19.2	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	590415	35.3	
72 Toluene	91	6.742	6.742	0.0	91	1636961	20.3	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	87	490552	20.7	
74 Ethyl methacrylate	69	6.978	6.978	0.0	89	437716	18.6	
75 1,1,2-Trichloroethane	97	7.097	7.097	0.0	85	324475	18.1	
77 Tetrachloroethene	166	7.239	7.239	0.0	91	301036	21.2	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	655471	20.0	
78 2-Hexanone	43	7.298	7.298	0.0	91	418592	40.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	85	306001	20.3	
123 Ethylene Dibromide	107	7.570	7.570	0.0	96	324915	19.2	
82 Chlorobenzene	112	8.020	8.020	0.0	94	1071545	19.9	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.091	0.0	81	304842	21.9	
84 Ethylbenzene	106	8.114	8.114	0.0	98	521770	20.0	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	1298282	39.7	
85 o-Xylene	106	8.599	8.599	0.0	90	665365	19.6	
86 Styrene	104	8.611	8.611	0.0	93	1221074	21.2	
87 Bromoform	173	8.801	8.801	0.0	92	167075	19.6	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1492339	21.0	
90 1,1,2,2-Tetrachloroethane	83	9.227	9.227	0.0	91	469552	18.3	
91 Bromobenzene	156	9.262	9.262	0.0	89	405697	18.7	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	149699	18.1	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	58	96192	16.9	
94 N-Propylbenzene	120	9.345	9.345	0.0	97	382732	19.4	
95 2-Chlorotoluene	126	9.440	9.440	0.0	96	364954	20.0	
96 1,3,5-Trimethylbenzene	105	9.511	9.511	0.0	74	1226375	19.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	390604	19.9	
97 tert-Butylbenzene	119	9.842	9.842	0.0	82	1116889	21.0	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	95	1313479	20.3	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1514822	19.8	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	747571	19.3	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	1303936	20.0	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	89	781772	19.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1137742	19.4	
106 1,2-Dichlorobenzene	146	10.635	10.635	0.0	98	745469	18.6	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	70	70108	17.1	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	96	480294	19.3	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	424047	18.5	
110 Hexachlorobutadiene	225	12.410	12.410	0.0	94	180363	17.9	
111 Naphthalene	128	12.492	12.492	0.0	97	1174213	17.2	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	370787	17.2	
S 145 Trihalomethanes, Total	1				0		78.8	
S 11 1,2-Dichloroethene, Total	96				0		38.9	
S 9 1,3-Dichloropropene, Total	75				0		39.8	
S 114 Xylenes, Total	106				0		59.3	

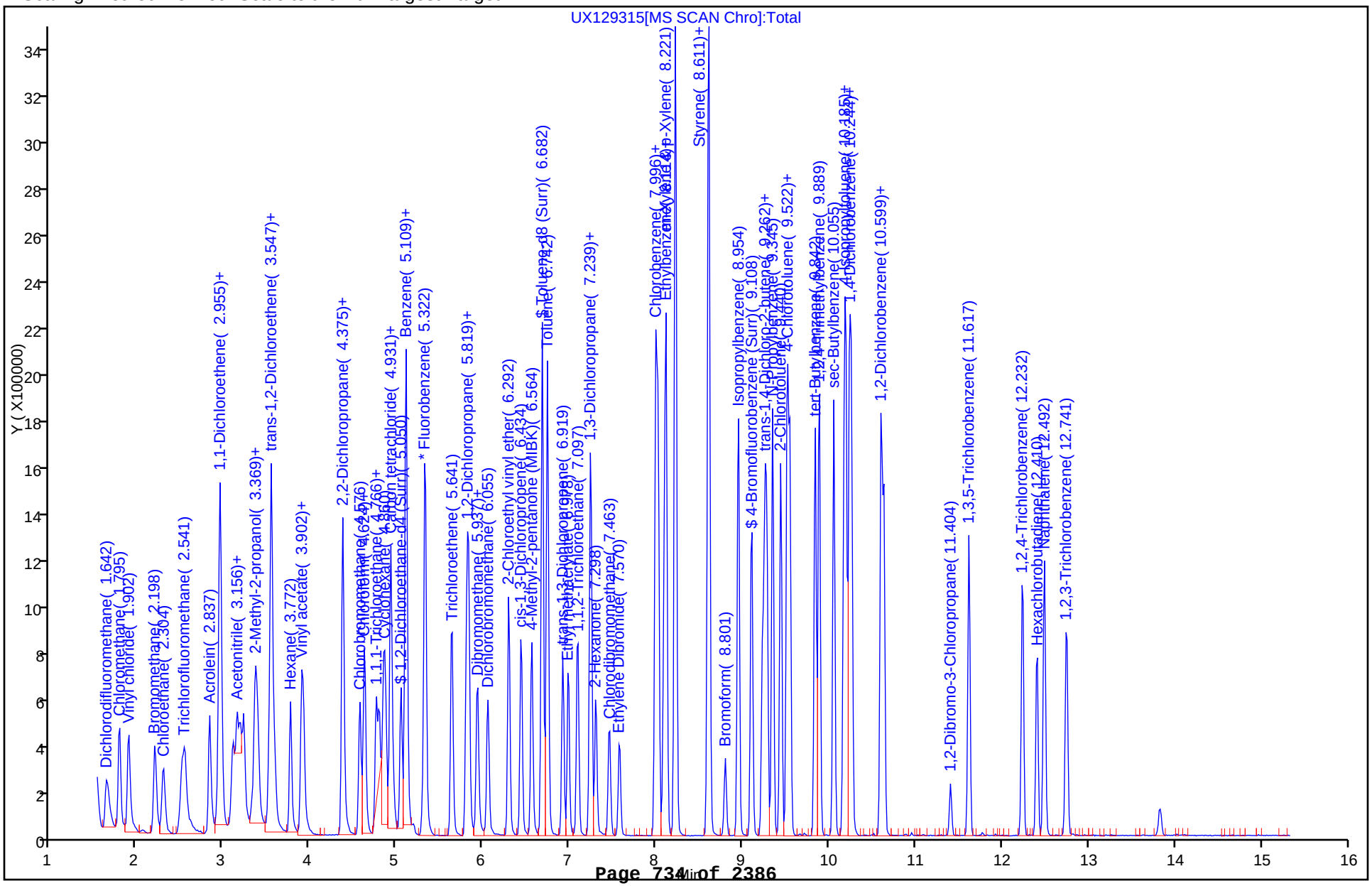
Report Date: 29-Mar-2013 09:09:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129315.D

Injection Date:	28-Mar-2013 09:36:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	2
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 240-79725/16 Calibration Date: 03/28/2013 15:19

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129328.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2894			0.000623	0.000500		
Chloromethane	Ave	0.3759			0.000504	0.000500		
Vinyl chloride	Ave	0.3817			0.000574	0.000500		
Bromomethane	Ave	0.2337			0.000573	0.000500		
Chloroethane	Ave	0.2617			0.000554	0.000500		
Trichlorofluoromethane	Lin1				0.000846	0.000500		
Acrolein	Ave	0.0394			0.00367	0.00500		
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2423			0.000762	0.000500		
1,1-Dichloroethene	Ave	0.4640			0.000897	0.000500		
Acetone	Lin1				0.00327	0.00500		
Iodomethane	Ave	0.4375			0.000828	0.000500		
Carbon disulfide	Ave	0.9264			0.000838	0.000500		
Acetonitrile	Ave	0.0290			0.00490	0.00500		
Methyl acetate	Ave	0.1739			0.00121	0.00100		
Methylene Chloride	Lin1				0.00152	0.000500		
2-Methyl-2-propanol	Qua				0.0360	0.0100		
Methyl tert-butyl ether	Ave	0.7052			0.000778	0.000500		
trans-1,2-Dichloroethene	Ave	0.3553			0.000852	0.000500		
Hexane	Ave	0.2010				0.000500		
1,1-Dichloroethane	Ave	0.4129			0.000926	0.000500		
Vinyl acetate	Lin1				0.000998	0.000500		
2,2-Dichloropropane	Ave	0.1352			0.00101	0.000500		
2-Butanone (MEK)	Lin				0.00300	0.00500		
cis-1,2-Dichloroethene	Ave	0.3326			0.000810	0.000500		
Bromochloromethane	Ave	0.1793			0.00115	0.000500		
Chloroform	Ave	0.3905			0.000826	0.000500		
1,1,1-Trichloroethane	Ave	0.2307			0.00109	0.000500		
Cyclohexane	Ave	0.3188			0.000754	0.000500		
1,1-Dichloropropene	Ave	0.2891			0.000950	0.000500		
Carbon tetrachloride	Ave	0.1556			0.000914	0.000500		

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 240-79725/16 Calibration Date: 03/28/2013 15:19

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129328.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.9750			0.000856	0.000500		
1,2-Dichloroethane	Ave	0.2780			0.000953	0.000500		
Trichloroethene	Ave	0.2297			0.00104	0.000500		
Methylcyclohexane	Ave	0.2013			0.000788	0.000500		
1,2-Dichloropropane	Ave	0.2342			0.000871	0.000500		
1,4-Dioxane	Ave	0.0026				0.0250		
Dibromomethane	Ave	0.1301			0.000829	0.000500		
Bromodichloromethane	Ave	0.2659			0.000828	0.000500		
2-Chloroethyl vinyl ether	Ave	0.1494				0.00100		
cis-1,3-Dichloropropene	Ave	0.3562			0.000713	0.000500		
4-Methyl-2-pentanone (MIBK)	Ave	0.1962			0.00384	0.00500		
Toluene	Ave	1.283			0.000944	0.000500		
trans-1,3-Dichloropropene	Ave	0.3767			0.000919	0.000500		
Ethyl methacrylate	Ave	0.3740				0.000500		
1,1,2-Trichloroethane	Ave	0.2849			0.000940	0.000500		
Tetrachloroethene	Ave	0.2251			0.00106	0.000500		
1,3-Dichloropropane	Ave	0.5207			0.000955	0.000500		
2-Hexanone	Ave	0.1652			0.00436	0.00500		
Dibromochloromethane	Ave	0.2395			0.000755	0.000500		
1,2-Dibromoethane	Ave	0.2690			0.000857	0.000500		
Chlorobenzene	Ave	0.8562			0.000872	0.000500		
1,1,1,2-Tetrachloroethane	Ave	0.2213			0.000748	0.000500		
Ethylbenzene	Ave	0.4148			0.00100	0.000500		
m-Xylene & p-Xylene	Ave	0.5198			0.00176	0.00100		
o-Xylene	Ave	0.5397			0.000901	0.000500		
Styrene	Ave	0.9166			0.000843	0.000500		
Bromoform	Ave	0.1356			0.000737	0.000500		
Isopropylbenzene	Ave	1.132			0.000870	0.000500		
1,1,2,2-Tetrachloroethane	Ave	0.8383			0.000873	0.000500		
Bromobenzene	Ave	0.7071			0.000950	0.000500		

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 240-79725/16 Calibration Date: 03/28/2013 15:19

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129328.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Ave	0.1862				0.000500		
1,2,3-Trichloropropane	Ave	0.2700			0.000695	0.000500		
N-Propylbenzene	Ave	0.6443			0.000789	0.000500		
2-Chlorotoluene	Ave	0.5969			0.000834	0.000500		
1,3,5-Trimethylbenzene	Ave	2.035			0.000912	0.000500		
4-Chlorotoluene	Ave	0.6394			0.000873	0.000500		
tert-Butylbenzene	Ave	1.738			0.00105	0.000500		
1,2,4-Trimethylbenzene	Ave	2.110			0.000891	0.000500		
sec-Butylbenzene	Ave	2.495			0.000959	0.000500		
1,3-Dichlorobenzene	Ave	1.267			0.000807	0.000500		
4-Isopropyltoluene	Ave	2.129			0.000858	0.000500		
1,4-Dichlorobenzene	Ave	1.301			0.000990	0.000500		
n-Butylbenzene	Ave	1.917			0.000916	0.000500		
1,2-Dichlorobenzene	Ave	1.305			0.000862	0.000500		
1,2-Dibromo-3-Chloropropane	Ave	0.1341			0.000750	0.000500		
1,3,5-Trichlorobenzene	Ave	0.8113				0.000500		
1,2,4-Trichlorobenzene	Ave	0.7462			0.000850	0.000500		
Hexachlorobutadiene	Ave	0.3296			0.00126	0.000500		
Naphthalene	Ave	2.225			0.000793	0.000500		
1,2,3-Trichlorobenzene	Ave	0.7033			0.00105	0.000500		
Acrylonitrile	Ave	0.0921			0.00200	0.00100		
Tetrahydrofuran	Lin1					0.000500		
Dibromofluoromethane (Surr)	Ave	0.2177			0.0214	0.0200	107	85-115
1,2-Dichloroethane-d4 (Surr)	Ave	0.2617			0.0205	0.0200	103	70-120
Toluene-d8 (Surr)	Ave	1.197			0.0222	0.0200	111	85-120
4-Bromofluorobenzene (Surr)	Ave	0.4361			0.0219	0.0200	109	75-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129328.D
Lims ID: LODV Client ID:
Inject. Date: 28-Mar-2013 15:19:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0018335-016
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 16
Lims Batch ID: 79725 Lims Sample ID: 16
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1622902	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1181923	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	547964	20.0	
$ 4 BFB	95	4.375	3.805	0.570	0	870	0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	58	377733	21.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	89	435501	20.5	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	1572282	22.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	86	563904	21.9	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.630	1.642	-0.012	26	14641	0.6234	
13 Chloromethane	50	1.795	1.795	0.0	67	15377	0.5041	
14 Vinyl chloride	62	1.890	1.902	-0.012	48	17791	0.5743	
15 Bromomethane	94	2.210	2.198	0.012	39	10867	0.5730	
16 Chloroethane	64	2.316	2.304	0.012	25	11767	0.5541	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.517	2.517	0.0	9	17718	0.8459	
19 Ethyl ether	59		2.718					9
20 Acrolein	56	2.837	2.837	0.0	51	11753	3.67	
25 Methylal	45		2.856					
22 Acetone	43	2.955	2.955	0.0	54	22401	3.27	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	73	33781	0.8972	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	15	14978	0.7617	
24 Iodomethane	142	3.097	3.109	-0.012	79	29385	0.8278	
26 Carbon disulfide	76	3.156	3.156	0.0	85	62987	0.8379	
27 Acetonitrile	41	3.204	3.192	0.012	75	11501	4.90	
28 Methyl acetate	43	3.227	3.227	0.0	88	17073	1.21	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
29 3-Chloro-1-propene	76		3.227					9
30 Methylene Chloride	49	3.369	3.369	0.0	79	62050	1.52	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	82	19895	36.0	
32 Acrylonitrile	53		3.523					9
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	78	44494	0.7775	
33 trans-1,2-Dichloroethene	61	3.547	3.559	-0.012	41	24571	0.8522	
35 Hexane	57	3.771	3.772	-0.001	72	12145	0.7446	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	90	31044	0.9265	
37 Vinyl acetate	86	3.925	3.925	0.0	43	2300	1.00	
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	71	21869	0.8103	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	33	11085	1.01	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	86	7656	3.00	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.564	4.576	-0.012	61	16764	1.15	
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83	4.623	4.624	-0.001	63	26169	0.8259	
50 1,1,1-Trichloroethane	97	4.789	4.801	-0.012	49	20349	1.09	
51 Cyclohexane	56	4.848	4.860	-0.012	41	19509	0.7541	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	75	22285	0.9499	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	27	11540	0.9139	
54 Isobutyl alcohol	41		4.979					9
55 Benzene	78	5.109	5.109	0.0	90	67723	0.8560	
56 1,2-Dichloroethane	62	5.120	5.109	0.011	38	21494	0.9528	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.641	5.641	0.0	63	19294	1.04	
63 Methylcyclohexane	55	5.807	5.807	0.0	60	12878	0.7883	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	71	16561	0.8715	
64 Methyl methacrylate	41	5.819	5.890	-0.071	33	17102	1.20	
66 1,4-Dioxane	88	5.937	5.937	0.0	19	8580	40.0	
65 Dibromomethane	174	5.937	5.937	0.0	68	8751	0.8291	
67 Dichlorobromomethane	83	6.055	6.055	0.0	65	17860	0.8279	
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	36	8995	0.7418	
70 cis-1,3-Dichloropropene	75	6.446	6.434	0.012	55	20618	0.7133	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	87	61079	3.84	
72 Toluene	91	6.742	6.742	0.0	87	71590	0.9442	
73 trans-1,3-Dichloropropene	75	6.931	6.919	0.012	65	20452	0.9187	
74 Ethyl methacrylate	69	6.990	6.978	0.012	73	18343	0.8299	
75 1,1,2-Trichloroethane	97	7.085	7.097	-0.012	56	15822	0.9398	
77 Tetrachloroethene	166	7.239	7.239	0.0	50	14150	1.06	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	64	29383	0.9550	
80 Tetrahydrothiophene	60		7.255					
78 2-Hexanone	43	7.310	7.298	0.012	90	42573	4.36	
136 n-Butyl acetate	43		7.404					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
79 Chlorodibromomethane	129	7.463	7.463	0.0	30	10679	0.7546	
123 Ethylene Dibromide	107	7.570	7.570	0.0	56	13622	0.8570	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.020	8.020	0.0	60	44143	0.8724	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.091	0.0	60	9780	0.7479	
84 Ethylbenzene	106	8.114	8.114	0.0	89	24509	1.00	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	93	54082	1.76	
85 o-Xylene	106	8.599	8.599	0.0	86	28740	0.9011	
86 Styrene	104	8.611	8.611	0.0	83	45664	0.8430	
87 Bromoform	173	8.800	8.801	-0.001	25	5908	0.7370	
88 Isopropylbenzene	105	8.954	8.954	0.0	82	58170	0.8699	
89 Cyclohexanone	55		9.049					
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	77	20045	0.8727	
91 Bromobenzene	156	9.262	9.262	0.0	86	18398	0.9496	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	45	5142	0.6952	
93 trans-1,4-Dichloro-2-butene	53	9.274	9.286	-0.012	1	2725	0.5341	
94 N-Propylbenzene	120	9.357	9.345	0.012	86	13931	0.7892	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	83	13635	0.8338	
96 1,3,5-Trimethylbenzene	105	9.510	9.511	-0.001	62	50882	0.9124	
104 4-Chlorotoluene	126	9.546	9.546	0.0	77	15288	0.8726	
97 tert-Butylbenzene	119	9.842	9.842	0.0	71	49935	1.05	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	55	51509	0.8911	
99 sec-Butylbenzene	105	10.055	10.055	0.0	54	65572	0.9594	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	72	28029	0.8073	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	68	50043	0.8578	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	39	35286	0.9897	
103 1,2,3-Trimethylbenzene	105		10.303					
105 n-Butylbenzene	91	10.599	10.599	0.0	84	48088	0.9157	
106 1,2-Dichlorobenzene	146	10.635	10.635	0.0	76	30805	0.8618	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	1	2756	0.7502	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	54	19023	0.8558	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	57	17377	0.8500	
110 Hexachlorobutadiene	225	12.410	12.410	0.0	57	11422	1.26	
111 Naphthalene	128	12.492	12.492	0.0	80	48312	0.7926	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	56	20165	1.05	
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1				0		3.15	
S 11 1,2-Dichloroethene, Total	96				0		1.66	
S 9 1,3-Dichloropropene, Total	75				0		1.63	
S 114 Xylenes, Total	106				0		2.66	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

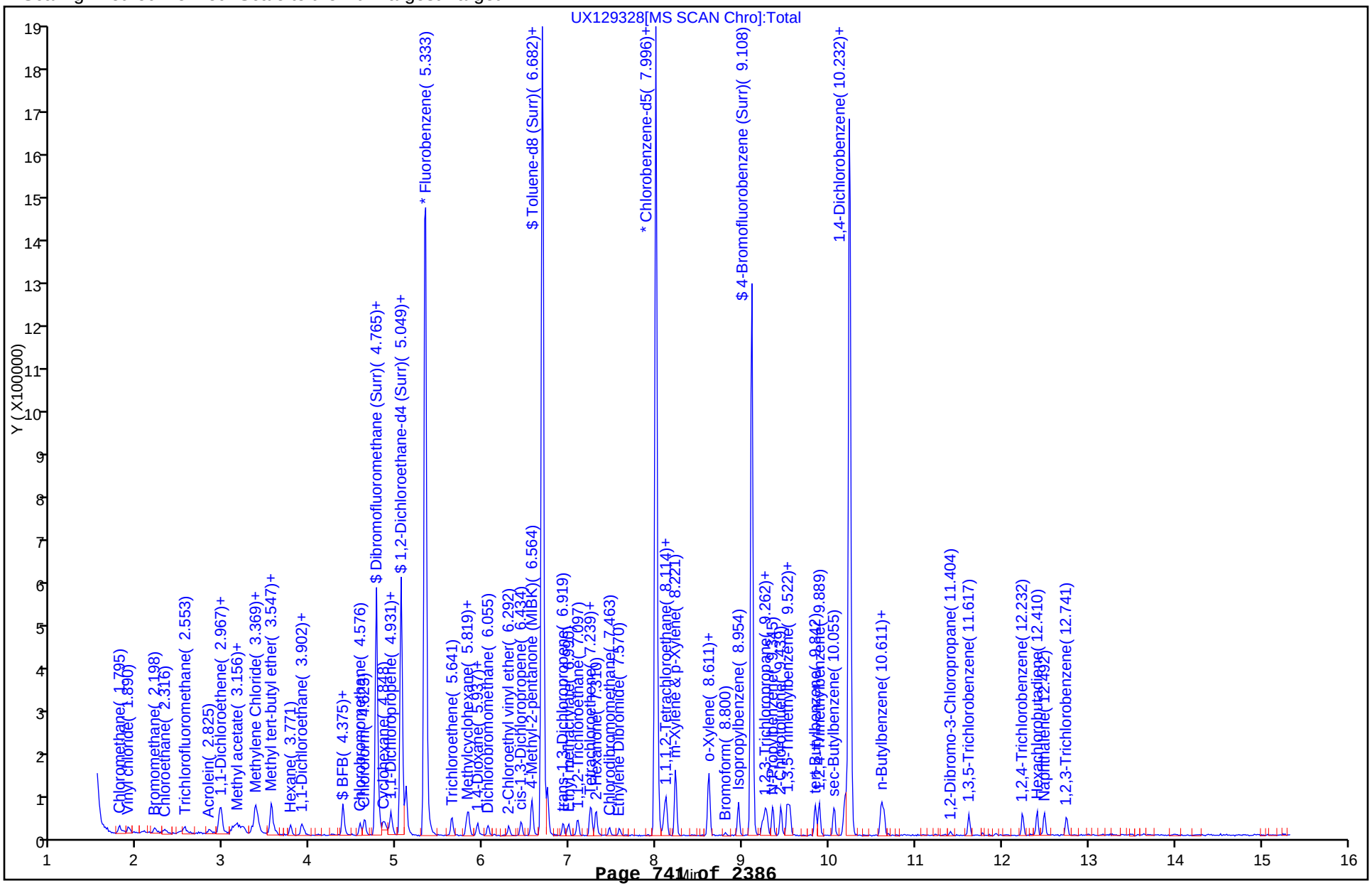
Report Date: 29-Mar-2013 09:30:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129328.D

Injection Date:	28-Mar-2013 15:19:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	16
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80127/21 Calibration Date: 04/01/2013 20:31

Instrument ID: A3UX14 Calib Start Date: 04/01/2013 14:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2013 16:55

Lab File ID: 141683.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2854	0.2297	0.1000	0.0402	0.0500	-19.5	20.0
Chloromethane	Ave	0.3690	0.3167	0.1000	0.0429	0.0500	-14.2	20.0
Vinyl chloride	Ave	0.2972	0.2719	0.1000	0.0457	0.0500	-8.5	20.0
Bromomethane	Ave	0.0974	0.0871	0.0500	0.0447	0.0500	-10.6	20.0
Chloroethane	Ave	0.1382	0.1318	0.0500	0.0477	0.0500	-4.7	20.0
Trichlorofluoromethane	Ave	0.3794	0.3607	0.1000	0.0475	0.0500	-4.9	20.0
1,1-Dichloroethene	Ave	0.2294	0.2378	0.1000	0.0518	0.0500	3.7	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2017	0.1982	0.0500	0.0491	0.0500	-1.7	20.0
Acetone	Lin1		0.0619	0.0500	0.0911	0.100	-8.9	20.0
Iodomethane	Ave	0.3739	0.3785		0.0506	0.0500	1.2	20.0
Carbon disulfide	Lin1		0.5736	0.1000	0.0429	0.0500	-14.3	20.0
Methyl acetate	Ave	0.1709	0.1755	0.1000	0.103	0.100	2.7	20.0
Methylene Chloride	Ave	0.2696	0.2573	0.1000	0.0477	0.0500	-4.6	20.0
2-Methyl-2-propanol	Ave	0.0170	0.0148		0.870	1.00	-13.0	20.0
trans-1,2-Dichloroethene	Ave	0.2642	0.2709	0.1000	0.0513	0.0500	2.5	20.0
Methyl tert-butyl ether	Ave	0.5962	0.5956	0.1000	0.0500	0.0500	-0.1	20.0
1,1-Dichloroethane	Ave	0.4934	0.4913	0.1000	0.0498	0.0500	-0.4	20.0
Vinyl acetate	Ave	0.0388	0.0307		0.0396	0.0500	-20.8*	20.0
2,2-Dichloropropane	Ave	0.2323	0.2190		0.0471	0.0500	-5.7	20.0
cis-1,2-Dichloroethene	Ave	0.2845	0.2842	0.1000	0.0499	0.0500	-0.1	20.0
2-Butanone (MEK)	Ave	0.1017	0.0919	0.0500	0.0903	0.100	-9.7	20.0
Bromochloromethane	Ave	0.1275	0.1302		0.0510	0.0500	2.1	20.0
Chloroform	Ave	0.4278	0.4312	0.2000	0.0504	0.0500	0.8	20.0
1,1,1-Trichloroethane	Ave	0.3321	0.3372	0.1000	0.0508	0.0500	1.5	20.0
Cyclohexane	Ave	0.4987	0.5398	0.1000	0.0541	0.0500	8.2	20.0
1,1-Dichloropropene	Ave	0.3421	0.3701		0.0541	0.0500	8.2	20.0
Carbon tetrachloride	Ave	0.3215	0.3152	0.1000	0.0490	0.0500	-2.0	20.0
Benzene	Ave	1.060	1.052	0.5000	0.0496	0.0500	-0.8	20.0
1,2-Dichloroethane	Ave	0.3414	0.3389	0.1000	0.0496	0.0500	-0.7	20.0
Trichloroethene	Ave	0.3101	0.2902	0.2000	0.0468	0.0500	-6.4	20.0
Methylcyclohexane	Ave	0.4513	0.4848	0.1000	0.0537	0.0500	7.4	20.0
1,2-Dichloropropane	Ave	0.2650	0.2696	0.1000	0.0509	0.0500	1.7	20.0
Dibromomethane	Ave	0.1255	0.1246		0.0496	0.0500	-0.7	20.0
Bromodichloromethane	Lin1		0.2542	0.1000	0.0422	0.0500	-15.7	20.0
cis-1,3-Dichloropropene	Lin1		0.3220	0.1500	0.0439	0.0500	-12.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3035	0.2833	0.0500	0.0933	0.100	-6.7	20.0
Toluene	Ave	1.685	1.653	0.4000	0.0490	0.0500	-1.9	20.0
trans-1,3-Dichloropropene	Lin1		0.3803	0.1000	0.0453	0.0500	-9.3	20.0
1,1,2-Trichloroethane	Ave	0.2588	0.2571	0.1000	0.0497	0.0500	-0.6	20.0
Tetrachloroethene	Ave	0.3468	0.3407	0.2000	0.0491	0.0500	-1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80127/21 Calibration Date: 04/01/2013 20:31

Instrument ID: A3UX14 Calib Start Date: 04/01/2013 14:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2013 16:55

Lab File ID: 141683.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropane	Ave	0.4627	0.4576		0.0494	0.0500	-1.1	20.0
2-Hexanone	Ave	0.2014	0.1854	0.0500	0.0921	0.100	-7.9	20.0
Dibromochloromethane	Lin1		0.2523		0.0432	0.0500	-13.7	20.0
1,2-Dibromoethane	Ave	0.2495	0.2589		0.0519	0.0500	3.8	20.0
Chlorobenzene	Ave	1.043	0.9871	0.3000	0.0473	0.0500	-5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3351	0.3377		0.0504	0.0500	0.8	20.0
Ethylbenzene	Ave	0.5641	0.5575		0.0494	0.0500	-1.2	20.0
m-Xylene & p-Xylene	Ave	0.6957	0.6826		0.0981	0.100	-1.9	20.0
o-Xylene	Ave	0.6581	0.6583		0.0500	0.0500	0.0	20.0
Styrene	Ave	1.012	1.043	0.3000	0.0515	0.0500	3.0	20.0
Bromoform	Qua		0.1228	0.1000	0.0437	0.0500	-12.5	20.0
Isopropylbenzene	Ave	1.738	1.765	0.1000	0.0508	0.0500	1.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5845	0.5974	0.3000	0.0511	0.0500	2.2	20.0
Bromobenzene	Ave	0.8866	0.8304		0.0468	0.0500	-6.3	20.0
1,2,3-Trichloropropane	Ave	0.1986	0.1948		0.0490	0.0500	-1.9	20.0
N-Propylbenzene	Ave	1.054	1.022		0.0485	0.0500	-3.0	20.0
2-Chlorotoluene	Ave	0.9045	0.8732		0.0483	0.0500	-3.5	20.0
1,3,5-Trimethylbenzene	Ave	3.020	2.982		0.0494	0.0500	-1.3	20.0
4-Chlorotoluene	Ave	0.9215	0.8745		0.0474	0.0500	-5.1	20.0
tert-Butylbenzene	Ave	2.843	2.811		0.0494	0.0500	-1.2	20.0
1,2,4-Trimethylbenzene	Ave	3.067	2.954		0.0482	0.0500	-3.7	20.0
sec-Butylbenzene	Ave	3.915	3.893		0.0497	0.0500	-0.6	20.0
1,3-Dichlorobenzene	Ave	1.753	1.587	0.6000	0.0453	0.0500	-9.5	20.0
4-Isopropyltoluene	Ave	3.362	3.152		0.0469	0.0500	-6.2	20.0
1,4-Dichlorobenzene	Ave	1.764	1.584	0.5000	0.0449	0.0500	-10.2	20.0
n-Butylbenzene	Ave	2.905	2.739		0.0472	0.0500	-5.7	20.0
1,2-Dichlorobenzene	Ave	1.607	1.466	0.4000	0.0456	0.0500	-8.8	20.0
1,2-Dibromo-3-Chloropropane	Qua		0.0709	0.0500	0.0430	0.0500	-14.0	20.0
1,2,4-Trichlorobenzene	Ave	1.012	0.7934	0.2000	0.0392	0.0500	-21.6*	20.0
Hexachlorobutadiene	Ave	0.5116	0.4134		0.0404	0.0500	-19.2	20.0
Naphthalene	Ave	1.973	1.551		0.0393	0.0500	-21.4*	20.0
1,2,3-Trichlorobenzene	Qua		0.6091		0.0414	0.0500	-17.3	20.0
Dibromofluoromethane (Surr)	Lin1		0.2247		0.0420	0.0500	-16.0	20.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.2501		0.0423	0.0500	-15.4	20.0
Toluene-d8 (Surr)	Lin1		1.335		0.0433	0.0500	-13.4	20.0
4-Bromofluorobenzene (Surr)	Lin1		0.9283		0.0419	0.0500	-16.2	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141683.D
Lims ID: ICV Client ID:
Inject. Date: 01-Apr-2013 20:31:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.: 240-0018434-021 =240-0018434-021
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 20
Lims Batch ID: 80127 Lims Sample ID: 21
Sublist:
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m
Last Update: 03-Apr-2013 12:45:02 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 09:38:05

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1276199	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	96	859219	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	98	404592	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.257	0.001	80	286768	42.0	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	97	319139	42.3	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	84	1147344	43.3	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.636	-0.012	91	375582	41.9	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	98	293101	40.2	
13 Chloromethane	50	1.643	1.643	0.0	100	404181	42.9	
14 Vinyl chloride	62	1.773	1.773	0.0	99	346969	45.7	
15 Bromomethane	94	2.116	2.116	0.0	90	111138	44.7	
16 Chloroethane	64	2.234	2.234	0.0	97	168145	47.7	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	93	460341	47.5	
20 Acrolein	56	3.086	3.086	0.0	94	324022	398.9	
21 1,1-Dichloroethene	96	3.205	3.205	0.001	97	303450	51.8	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	85	252938	49.1	
22 Acetone	43	3.311	3.311	0.0	99	157939	91.1	
24 Iodomethane	142	3.406	3.406	0.0	99	483077	50.6	
26 Carbon disulfide	76	3.477	3.477	0.0	100	732079	42.9	
27 Acetonitrile	41	3.737	3.737	0.0	99	286996	419.6	
28 Methyl acetate	43	3.832	3.820	0.012	97	447810	102.7	
30 Methylene Chloride	84	3.950	3.950	0.0	98	328327	47.7	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	93	378099	869.8	
32 Acrylonitrile	53	4.364	4.364	0.0	97	193545	92.1	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	97	345779	51.3	
34 Methyl tert-butyl ether	73	4.412	4.411	0.001	90	760094	50.0	
35 Hexane	86	4.802	4.802	0.0	96	94823	51.4	
36 1,1-Dichloroethane	63	4.980	4.979	0.001	97	627007	49.8	
37 Vinyl acetate	86	5.098	5.098	0.0	97	39184	39.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	5.701	5.701	0.0	82	279438	47.1	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	362635	49.9	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	93	234517	90.3	
47 Chlorobromomethane	128	5.985	5.973	0.012	97	166137	51.0	
48 Tetrahydrofuran	42	6.033	6.033	0.0	89	83039	46.8	
49 Chloroform	83	6.092	6.092	0.0	96	550238	50.4	
50 1,1,1-Trichloroethane	97	6.269	6.257	0.012	95	430275	50.8	
51 Cyclohexane	56	6.317	6.317	0.0	94	688929	54.1	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	472258	54.1	
53 Carbon tetrachloride	117	6.435	6.435	0.0	72	402239	49.0	
55 Benzene	78	6.648	6.648	0.0	98	1342259	49.6	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	95	432552	49.6	
60 Trichloroethene	130	7.287	7.287	0.0	96	370349	46.8	
63 Methylcyclohexane	83	7.465	7.464	0.001	96	618655	53.7	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	91	343996	50.9	
65 Dibromomethane	93	7.607	7.606	0.001	88	158987	49.6	
66 1,4-Dioxane	88	7.630	7.630	0.0	98	117195	2419.3	
67 Dichlorobromomethane	83	7.760	7.760	0.0	97	324447	42.2	
69 2-Chloroethyl vinyl ether	63	8.033	8.032	0.001	93	252372	98.2	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.001	89	410888	43.9	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.304	0.001	99	486852	93.3	
72 Toluene	91	8.459	8.458	0.001	97	1420233	49.0	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	326728	45.3	
74 Ethyl methacrylate	69	8.731	8.730	0.001	93	311908	54.2	
75 1,1,2-Trichloroethane	97	8.802	8.813	-0.011	94	220939	49.7	
77 Tetrachloroethene	164	8.932	8.932	0.0	97	292762	49.1	
76 1,3-Dichloropropane	76	8.956	8.955	0.001	96	393155	49.4	
78 2-Hexanone	43	9.015	9.014	0.001	99	318593	92.1	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	216818	43.2	
123 Ethylene Dibromide	107	9.251	9.251	0.0	98	222489	51.9	
82 Chlorobenzene	112	9.665	9.665	0.0	91	848162	47.3	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	91	290116	50.4	
84 Ethylbenzene	106	9.748	9.760	-0.012	99	478990	49.4	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	1173071	98.1	
85 o-Xylene	106	10.186	10.186	0.0	94	565603	50.0	
86 Styrene	104	10.198	10.198	0.0	92	896185	51.5	
87 Bromoform	173	10.364	10.363	0.001	97	105550	43.7	
88 Isopropylbenzene	105	10.494	10.494	0.0	97	1516816	50.8	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	95	241682	51.1	
91 Bromobenzene	156	10.766	10.766	0.0	90	335952	46.8	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.789	0.001	63	72282	47.2	
92 1,2,3-Trichloropropane	110	10.790	10.789	0.001	81	78828	49.0	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	413692	48.5	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	353300	48.3	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	1206330	49.4	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	353809	47.4	
97 tert-Butylbenzene	119	11.275	11.275	0.0	91	1137147	49.4	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	73	1195091	48.2	
99 sec-Butylbenzene	105	11.452	11.452	0.0	93	1575175	49.7	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	92	641905	45.3	
101 4-Isopropyltoluene	119	11.571	11.570	0.001	89	1275303	46.9	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	95	640979	44.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	11.914	11.914	0.0	97	1108371	47.2	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	99	592949	45.6	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	80	28669	43.0	
108 1,3,5-Trichlorobenzene	180	12.778	12.778	0.0	98	394177	41.5	
109 1,2,4-Trichlorobenzene	180	13.275	13.274	0.001	92	320984	39.2	
110 Hexachlorobutadiene	225	13.405	13.404	0.001	98	167276	40.4	
111 Naphthalene	128	13.476	13.475	0.001	97	627465	39.3	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	246450	41.4	
S 11 1,2-Dichloroethene, Total	96				0		101.2	
S 114 Xylenes, Total	106				0		148.1	

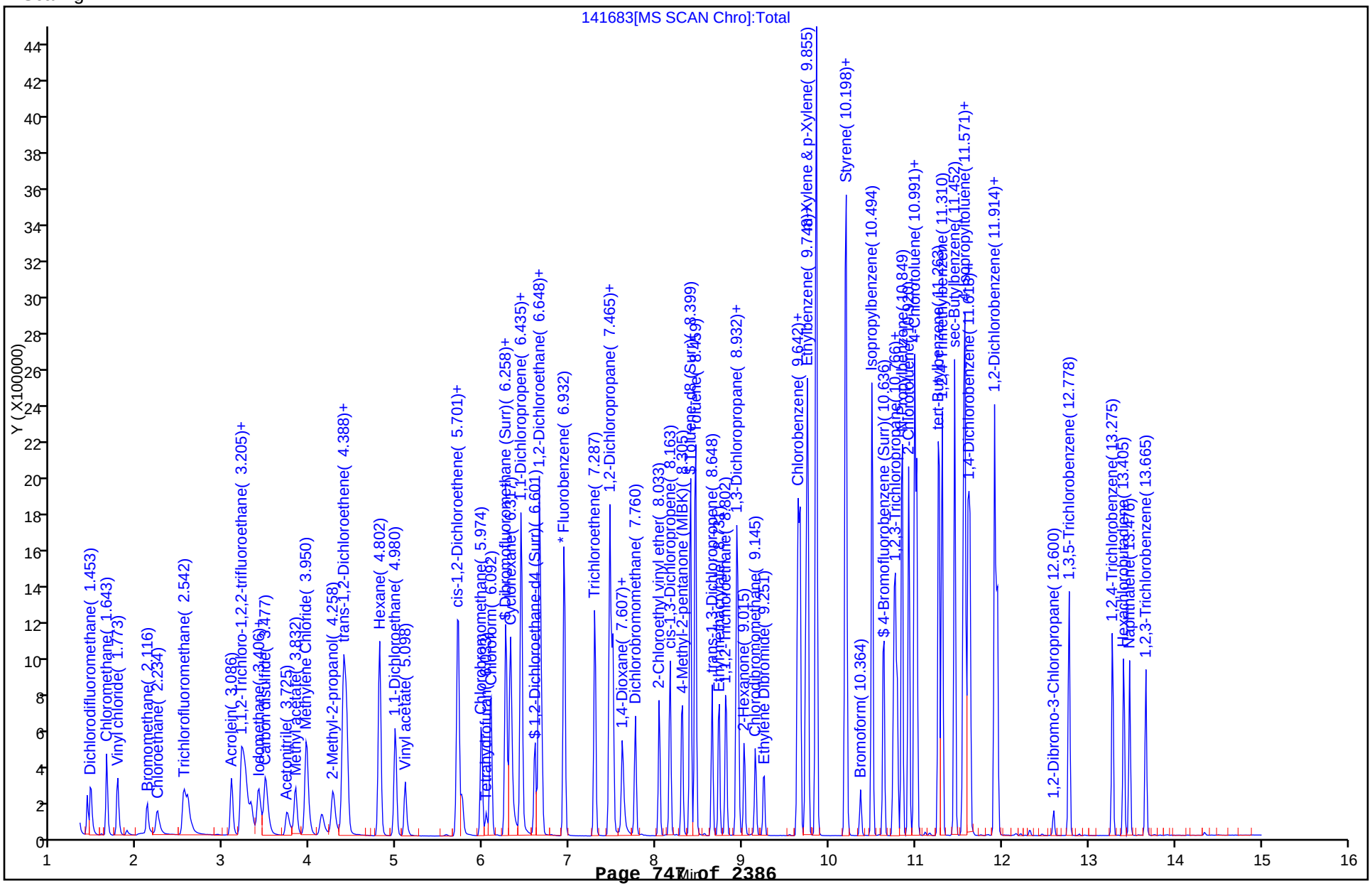
Report Date: 03-Apr-2013 12:45:04 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141683.D

Injection Date:	01-Apr-2013 20:31:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	21
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80302/3 Calibration Date: 04/02/2013 14:55

Instrument ID: A3UX14 Calib Start Date: 04/01/2013 14:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2013 16:55

Lab File ID: 141703.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2854	0.2953	0.1000	0.0517	0.0500	3.5	20.0
Chloromethane	Ave	0.3690	0.3626	0.1000	0.0491	0.0500	-1.7	20.0
Vinyl chloride	Ave	0.2972	0.3077	0.1000	0.0518	0.0500	3.5	20.0
Bromomethane	Ave	0.0974	0.0976	0.0500	0.0501	0.0500	0.2	20.0
Chloroethane	Ave	0.1382	0.1421	0.0500	0.0514	0.0500	2.8	20.0
Dichlorofluoromethane	Ave	0.4028	0.4313		0.0535	0.0500	7.1	20.0
Trichlorofluoromethane	Ave	0.3794	0.4116	0.1000	0.0542	0.0500	8.5	20.0
1,1-Dichloroethene	Ave	0.2294	0.2291	0.1000	0.0500	0.0500	-0.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2017	0.2002	0.0500	0.0496	0.0500	-0.7	20.0
Acetone	Lin1		0.0582	0.0500	0.0852	0.100	-14.8	20.0
Iodomethane	Ave	0.3739	0.3729		0.0499	0.0500	-0.3	20.0
Carbon disulfide	Lin1		0.5716	0.1000	0.0427	0.0500	-14.6	20.0
Methyl acetate	Ave	0.1709	0.1520	0.1000	0.222	0.250	-11.0	20.0
Methylene Chloride	Ave	0.2696	0.2579	0.1000	0.0478	0.0500	-4.3	20.0
2-Methyl-2-propanol	Ave	0.0170	0.0138		0.404	0.500	-19.2	20.0
trans-1,2-Dichloroethene	Ave	0.2642	0.2599	0.1000	0.0492	0.0500	-1.6	20.0
Methyl tert-butyl ether	Ave	0.5962	0.5543	0.1000	0.0465	0.0500	-7.0	20.0
1,1-Dichloroethane	Ave	0.4934	0.4801	0.1000	0.0487	0.0500	-2.7	20.0
Vinyl acetate	Ave	0.0388	0.0384		0.0495	0.0500	-1.0	20.0
2,2-Dichloropropane	Ave	0.2323	0.2271		0.0489	0.0500	-2.2	20.0
cis-1,2-Dichloroethene	Ave	0.2845	0.2759	0.1000	0.0485	0.0500	-3.0	20.0
2-Butanone (MEK)	Ave	0.1017	0.0892	0.0500	0.0877	0.100	-12.3	20.0
Bromochloromethane	Ave	0.1275	0.1243		0.0488	0.0500	-2.5	20.0
Chloroform	Ave	0.4278	0.4224	0.2000	0.0494	0.0500	-1.3	20.0
1,1,1-Trichloroethane	Ave	0.3321	0.3333	0.1000	0.0502	0.0500	0.4	20.0
Cyclohexane	Ave	0.4987	0.5111	0.1000	0.0512	0.0500	2.5	20.0
1,1-Dichloropropene	Ave	0.3421	0.3391		0.0496	0.0500	-0.9	20.0
Carbon tetrachloride	Ave	0.3215	0.3139	0.1000	0.0488	0.0500	-2.4	20.0
Benzene	Ave	1.060	1.022	0.5000	0.0482	0.0500	-3.6	20.0
1,2-Dichloroethane	Ave	0.3414	0.3189	0.1000	0.0467	0.0500	-6.6	20.0
Trichloroethene	Ave	0.3101	0.2939	0.2000	0.0474	0.0500	-5.2	20.0
Methylcyclohexane	Ave	0.4513	0.4599	0.1000	0.0509	0.0500	1.9	20.0
1,2-Dichloropropane	Ave	0.2650	0.2641	0.1000	0.0498	0.0500	-0.4	20.0
Dibromomethane	Ave	0.1255	0.1204		0.0480	0.0500	-4.0	20.0
Bromodichloromethane	Lin1		0.2567	0.1000	0.0426	0.0500	-14.9	20.0
cis-1,3-Dichloropropene	Lin1		0.3191	0.1500	0.0435	0.0500	-12.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3035	0.2778	0.0500	0.0915	0.100	-8.5	20.0
Toluene	Ave	1.685	1.603	0.4000	0.0476	0.0500	-4.9	20.0
trans-1,3-Dichloropropene	Lin1		0.3453	0.1000	0.0413	0.0500	-17.5	20.0
1,1,2-Trichloroethane	Ave	0.2588	0.2492	0.1000	0.0481	0.0500	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80302/3 Calibration Date: 04/02/2013 14:55

Instrument ID: A3UX14 Calib Start Date: 04/01/2013 14:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2013 16:55

Lab File ID: 141703.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloroethene	Ave	0.3468	0.3436	0.2000	0.0495	0.0500	-0.9	20.0
1,3-Dichloropropane	Ave	0.4627	0.4363		0.0471	0.0500	-5.7	20.0
2-Hexanone	Ave	0.2014	0.1818	0.0500	0.0903	0.100	-9.7	20.0
Dibromochloromethane	Lin1		0.2432		0.0417	0.0500	-16.6	20.0
1,2-Dibromoethane	Ave	0.2495	0.2429		0.0487	0.0500	-2.7	20.0
Chlorobenzene	Ave	1.043	1.001	0.3000	0.0480	0.0500	-4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3351	0.3317		0.0495	0.0500	-1.0	20.0
Ethylbenzene	Ave	0.5641	0.5622		0.0498	0.0500	-0.3	20.0
m-Xylene & p-Xylene	Ave	0.6957	0.6808		0.0489	0.0500	-2.2	20.0
o-Xylene	Ave	0.6581	0.6534		0.0496	0.0500	-0.7	20.0
Styrene	Ave	1.012	1.044	0.3000	0.0515	0.0500	3.1	20.0
Bromoform	Qua		0.1158	0.1000	0.0415	0.0500	-17.0	20.0
Isopropylbenzene	Ave	1.738	1.774	0.1000	0.0510	0.0500	2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5845	0.5531	0.3000	0.0473	0.0500	-5.4	20.0
Bromobenzene	Ave	0.8866	0.8347		0.0471	0.0500	-5.8	20.0
1,2,3-Trichloropropane	Ave	0.1986	0.1806		0.0455	0.0500	-9.1	20.0
N-Propylbenzene	Ave	1.054	1.064		0.0504	0.0500	0.9	20.0
2-Chlorotoluene	Ave	0.9045	0.8831		0.0488	0.0500	-2.4	20.0
1,3,5-Trimethylbenzene	Ave	3.020	3.053		0.0506	0.0500	1.1	20.0
4-Chlorotoluene	Ave	0.9215	0.8838		0.0480	0.0500	-4.1	20.0
tert-Butylbenzene	Ave	2.843	2.864		0.0504	0.0500	0.7	20.0
1,2,4-Trimethylbenzene	Ave	3.067	3.054		0.0498	0.0500	-0.4	20.0
sec-Butylbenzene	Ave	3.915	3.986		0.0509	0.0500	1.8	20.0
1,3-Dichlorobenzene	Ave	1.753	1.626	0.6000	0.0464	0.0500	-7.2	20.0
4-Isopropyltoluene	Ave	3.362	3.331		0.0495	0.0500	-0.9	20.0
1,4-Dichlorobenzene	Ave	1.764	1.622	0.5000	0.0460	0.0500	-8.1	20.0
n-Butylbenzene	Ave	2.905	2.887		0.0497	0.0500	-0.6	20.0
1,2-Dichlorobenzene	Ave	1.607	1.441	0.4000	0.0448	0.0500	-10.3	20.0
1,2-Dibromo-3-Chloropropane	Qua		0.0668	0.0500	0.0409	0.0500	-18.1	20.0
1,2,4-Trichlorobenzene	Ave	1.012	0.8326	0.2000	0.0412	0.0500	-17.7	20.0
Hexachlorobutadiene	Ave	0.5116	0.4275		0.0418	0.0500	-16.5	20.0
Naphthalene	Ave	1.973	1.475		0.0374	0.0500	-25.2*	20.0
1,2,3-Trichlorobenzene	Qua		0.6131		0.0416	0.0500	-16.8	20.0
Dibromofluoromethane (Surr)	Lin1		0.2540		0.0480	0.0500	-4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.2775		0.0475	0.0500	-4.9	20.0
Toluene-d8 (Surr)	Lin1		1.468		0.0482	0.0500	-3.6	20.0
4-Bromofluorobenzene (Surr)	Lin1		1.035		0.0474	0.0500	-5.3	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141703.D
Lims ID: ccvis Client ID:
Inject. Date: 02-Apr-2013 14:55:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: ccvis
Misc. Info.: 240-0018475-003 =240-0018475-003
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 2
Lims Batch ID: 80302 Lims Sample ID: 3
Sublist: chrom-8260_14*sub32
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:51:26 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 03-Apr-2013 14:51:26

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1188120	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	96	802228	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	98	374148	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.258	0.0	84	301798	48.0	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	99	329709	47.5	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1177335	48.2	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	92	387119	47.4	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	99	350856	51.7	
13 Chloromethane	50	1.643	1.643	0.0	100	430788	49.1	
14 Vinyl chloride	62	1.761	1.761	0.0	99	365531	51.8	
15 Bromomethane	94	2.104	2.104	0.0	90	116012	50.1	
16 Chloroethane	64	2.222	2.222	0.0	97	168767	51.4	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	99	512444	53.5	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	100	488968	54.2	
19 Ethyl ether	59	2.921	2.921	0.0	98	244770	45.7	
20 Acrolein	56	3.086	3.086	0.0	96	325983	431.1	
21 1,1-Dichloroethene	96	3.205	3.205	0.0	97	272250	50.0	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.240	3.240	0.0	74	237823	49.6	
22 Acetone	43	3.311	3.311	0.0	99	138197	85.2	
24 Iodomethane	142	3.394	3.394	0.0	98	443019	49.9	
26 Carbon disulfide	76	3.477	3.477	0.0	100	679092	42.7	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	87	154259	48.0	
28 Methyl acetate	43	3.820	3.820	0.0	97	903199	222.4	
30 Methylene Chloride	84	3.950	3.950	0.0	98	306438	47.8	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	92	163420	403.8	
32 Acrylonitrile	53	4.364	4.364	0.0	99	868735	443.9	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	308835	49.2	
34 Methyl tert-butyl ether	73	4.412	4.412	0.0	93	658549	46.5	
35 Hexane	86	4.802	4.802	0.0	95	81625	47.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
36 1,1-Dichloroethane	63	4.980	4.980	0.0	97	570453	48.7	
37 Vinyl acetate	86	5.098	5.098	0.0	97	45590	49.5	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	82	269869	48.9	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	87	327839	48.5	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	99	211865	87.7	
47 Chlorobromomethane	128	5.974	5.974	0.0	97	147726	48.8	
48 Tetrahydrofuran	42	6.033	6.033	0.0	90	137553	83.3	
49 Chloroform	83	6.080	6.080	0.0	97	501802	49.4	
50 1,1,1-Trichloroethane	97	6.258	6.258	0.0	96	395948	50.2	
51 Cyclohexane	56	6.317	6.317	0.0	95	607219	51.2	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	88	402899	49.6	
53 Carbon tetrachloride	117	6.435	6.435	0.0	76	372979	48.8	
54 Isobutyl alcohol	41	6.636	6.636	0.0	91	178873	1086.0	
55 Benzene	78	6.648	6.648	0.0	97	1213902	48.2	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	94	378869	46.7	
58 n-Heptane	100	6.944	6.944	0.0	95	97834	49.0	
60 Trichloroethene	130	7.287	7.287	0.0	96	349206	47.4	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	546384	50.9	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	91	313718	49.8	
65 Dibromomethane	93	7.606	7.606	0.0	93	143090	48.0	
66 1,4-Dioxane	88	7.630	7.630	0.0	97	42682	946.4	
67 Dichlorobromomethane	83	7.760	7.760	0.0	97	304983	42.6	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	93	217918	91.1	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.0	89	379095	43.5	
71 4-Methyl-2-pentanone (MIBK)	43	8.293	8.293	0.0	99	445738	91.5	
72 Toluene	91	8.458	8.458	0.0	98	1285855	47.6	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	98	277017	41.3	
74 Ethyl methacrylate	69	8.731	8.731	0.0	92	265078	49.3	
75 1,1,2-Trichloroethane	97	8.802	8.802	0.0	95	199889	48.1	
77 Tetrachloroethene	164	8.932	8.932	0.0	98	275622	49.5	
76 1,3-Dichloropropane	76	8.944	8.944	0.0	98	349982	47.1	
78 2-Hexanone	43	9.015	9.015	0.0	99	291626	90.3	
79 Chlorodibromomethane	129	9.145	9.145	0.0	90	195136	41.7	
123 Ethylene Dibromide	107	9.239	9.239	0.0	99	194857	48.7	
82 Chlorobenzene	112	9.665	9.665	0.0	95	802973	48.0	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	87	266111	49.5	
84 Ethylbenzene	106	9.748	9.748	0.0	99	450983	49.8	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	546123	48.9	
85 o-Xylene	106	10.186	10.186	0.0	94	524194	49.6	
86 Styrene	104	10.198	10.198	0.0	91	837323	51.5	
87 Bromoform	173	10.364	10.364	0.0	98	92874	41.5	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	1423188	51.0	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	95	206924	47.3	
91 Bromobenzene	156	10.766	10.766	0.0	90	312314	47.1	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.790	0.0	79	65415	46.2	
92 1,2,3-Trichloropropane	110	10.790	10.790	0.0	76	67565	45.5	
94 N-Propylbenzene	120	10.849	10.849	0.0	97	397920	50.4	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	330398	48.8	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	1142330	50.6	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	330676	48.0	
97 tert-Butylbenzene	119	11.263	11.263	0.0	90	1071561	50.4	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	77	1142472	49.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	1491237	50.9	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	99	608300	46.4	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	89	1246144	49.5	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	96	606787	46.0	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	1079981	49.7	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	99	539165	44.8	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	81	25002	40.9	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	311515	41.2	
110 Hexachlorobutadiene	225	13.405	13.405	0.0	97	159935	41.8	
111 Naphthalene	128	13.476	13.476	0.0	97	551979	37.4	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	229392	41.6	
S 137 Trihalomethanes, Total	1				0		175.1	
S 11 1,2-Dichloroethene, Total	96				0		97.7	
S 9 1,3-Dichloropropene, Total	75				0		84.8	
S 114 Xylenes, Total	106				0		98.6	

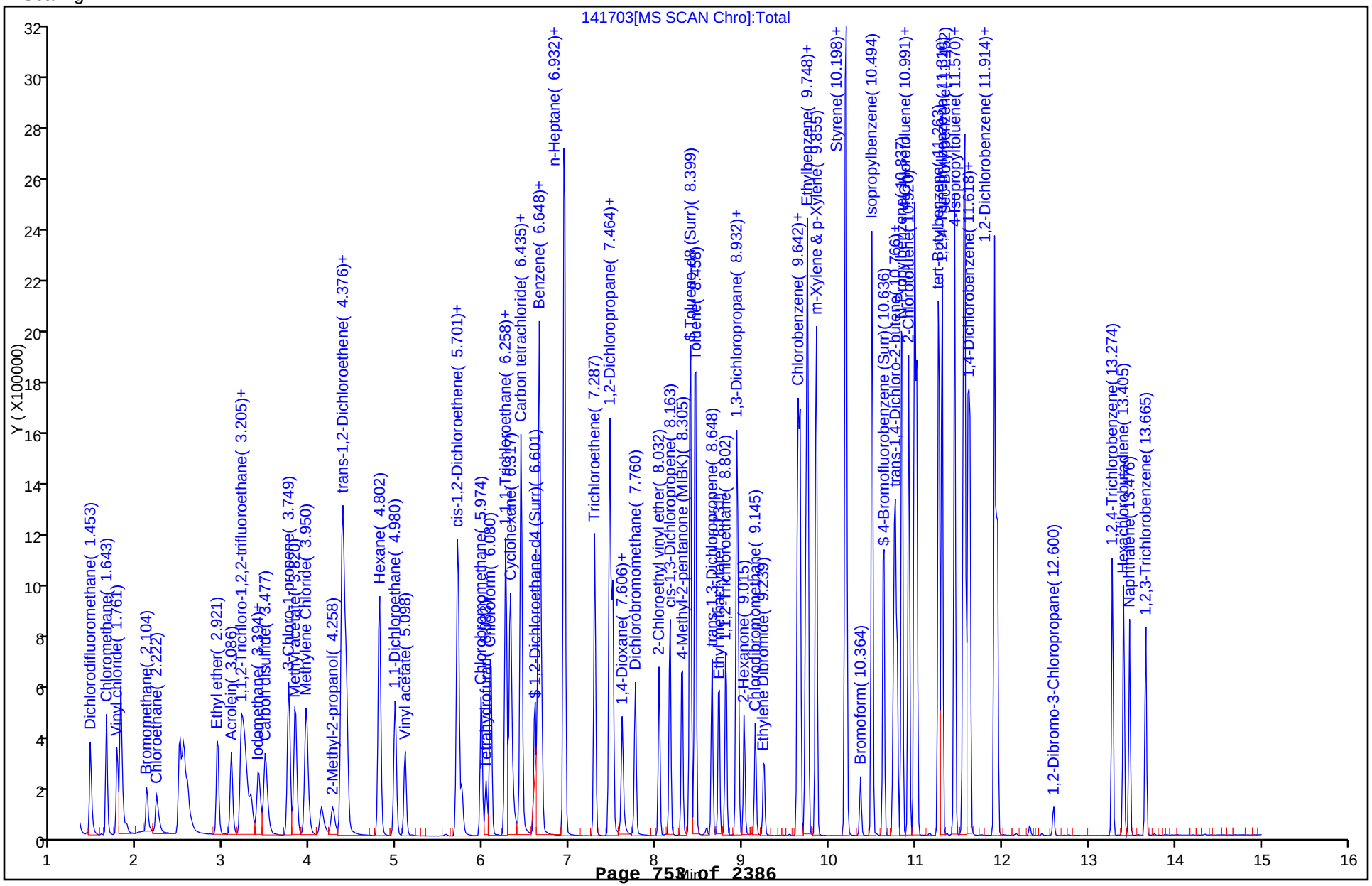
Report Date: 03-Apr-2013 14:51:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141703.D

Injection Date:	02-Apr-2013 14:55:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	3
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80302/4 Calibration Date: 04/02/2013 15:17

Instrument ID: A3UX14 Calib Start Date: 04/01/2013 14:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2013 16:55

Lab File ID: 141704.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Lin1		0.2420		0.0455	0.0500	-8.9	20.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.2901		0.0500	0.0500	-0.1	20.0
Toluene-d8 (Surr)	Lin1		1.525		0.0503	0.0500	0.6	20.0
4-Bromofluorobenzene (Surr)	Lin1		1.074		0.0494	0.0500	-1.2	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141704.D
Lims ID: ccv Client ID:
Inject. Date: 02-Apr-2013 15:17:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.: 240-0018475-004 =240-0018475-004
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 80302 Lims Sample ID: 4
Sublist: chrom-8260_14*sub34
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 15:41:47

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1234591	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	88	800247	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	356652	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.258	0.0	77	298785	45.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	95	358130	50.0	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1220032	50.3	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	91	382914	49.4	
133 Benzyl chloride	126		0.000					
27 Acetonitrile	41	3.725	3.725	0.0	100	310362	469.0	
39 2-Chloro-1,3-butadiene	53	5.098	5.098	0.0	95	599244	52.0	
38 Isopropyl ether	87	5.122	5.122	0.0	95	276834	48.8	
40 Tert-butyl ethyl ether	59	5.571	5.571	0.0	98	939560	49.3	
61 Ethyl acrylate	55		5.605					9
44 Propionitrile	54	5.820	5.820	0.0	99	350842	459.3	
45 Ethyl acetate	43	5.843	5.843	0.0	100	521326	95.2	
46 Methacrylonitrile	41	5.985	5.985	0.0	96	1725112	478.2	
57 Tert-amyl methyl ether	73	6.790	6.790	0.0	92	666655	49.3	
59 n-Butanol	56	7.275	7.275	0.0	93	137115	1205.3	
64 Methyl methacrylate	41	7.618	7.618	0.0	93	471551	96.8	
68 2-Nitropropane	41	7.962	7.962	0.0	98	77770	93.2	
132 n-Butyl acetate	43	9.121	9.121	0.0	0	360621	0	
89 Cyclohexanone	55	10.588	10.588	0.0	93	66118	488.0	
103 1,2,3-Trimethylbenzene	105	11.665	11.665	0.0	98	1029858	49.3	
108 1,3,5-Trichlorobenzene	180	12.778	12.778	0.0	97	392025	46.9	
113 2-Methylnaphthalene	142	14.339	14.339	0.0	89	606765	70.6	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

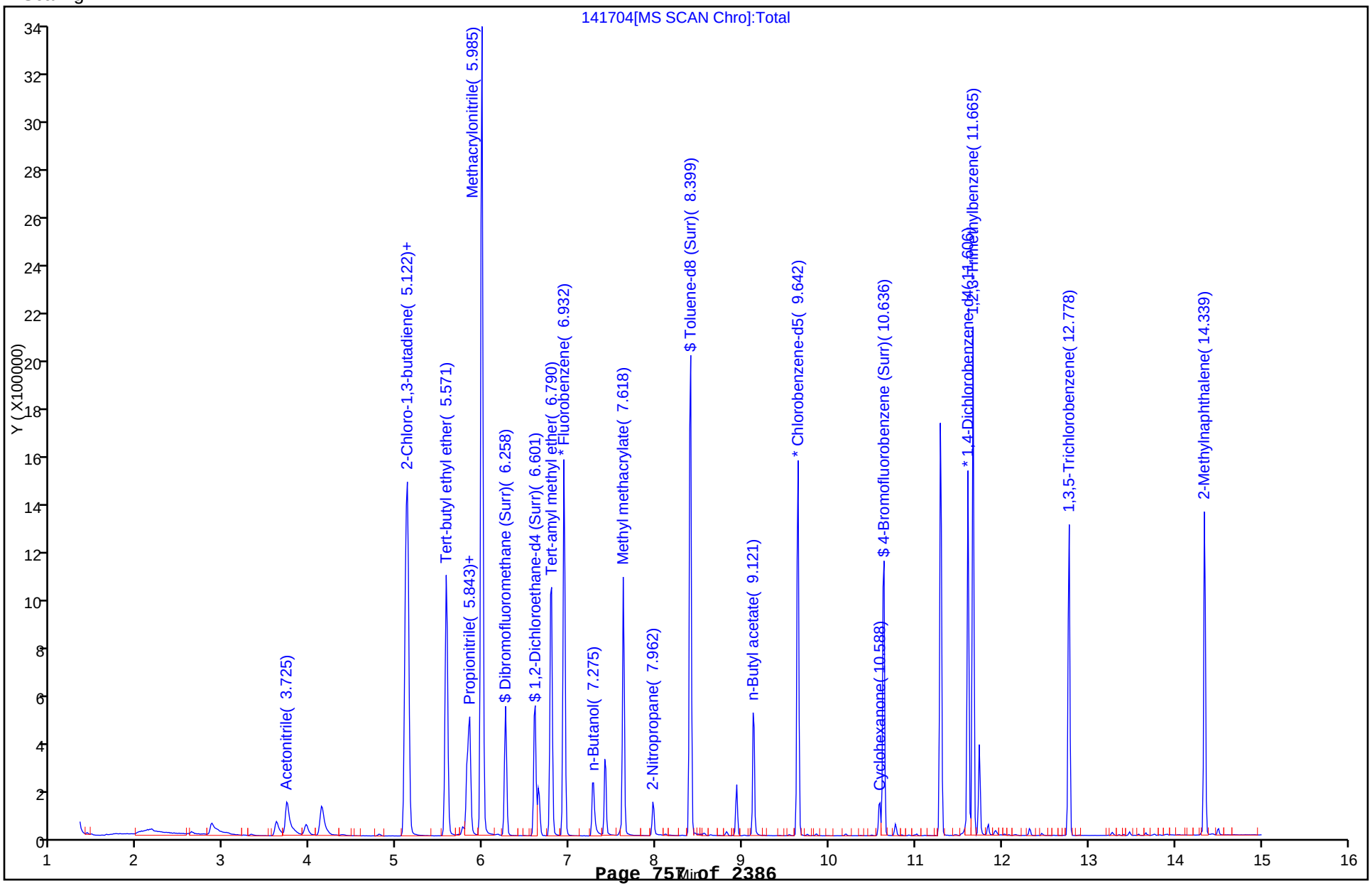
Report Date: 03-Apr-2013 14:23:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141704.D

Injection Date:	02-Apr-2013 15:17:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	4
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80302/4 Calibration Date: 04/02/2013 15:17

Instrument ID: A3UX14 Calib Start Date: 04/01/2013 17:17

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2013 20:09

Lab File ID: 141704.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexanone	Ave	0.0085	0.0083		0.488	0.500	-2.4	20.0
1,2,3-Trimethylbenzene	Ave	2.929	2.888		0.0493	0.0500	-1.4	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141704.D
Lims ID: ccv Client ID:
Inject. Date: 02-Apr-2013 15:17:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.: 240-0018475-004 =240-0018475-004
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 80302 Lims Sample ID: 4
Sublist: chrom-8260_14*sub34
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 15:41:47

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1234591	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	88	800247	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	356652	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.258	0.0	77	298785	45.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	95	358130	50.0	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1220032	50.3	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	91	382914	49.4	
133 Benzyl chloride	126		0.000					
27 Acetonitrile	41	3.725	3.725	0.0	100	310362	469.0	
39 2-Chloro-1,3-butadiene	53	5.098	5.098	0.0	95	599244	52.0	
38 Isopropyl ether	87	5.122	5.122	0.0	95	276834	48.8	
40 Tert-butyl ethyl ether	59	5.571	5.571	0.0	98	939560	49.3	
61 Ethyl acrylate	55		5.605					9
44 Propionitrile	54	5.820	5.820	0.0	99	350842	459.3	
45 Ethyl acetate	43	5.843	5.843	0.0	100	521326	95.2	
46 Methacrylonitrile	41	5.985	5.985	0.0	96	1725112	478.2	
57 Tert-amyl methyl ether	73	6.790	6.790	0.0	92	666655	49.3	
59 n-Butanol	56	7.275	7.275	0.0	93	137115	1205.3	
64 Methyl methacrylate	41	7.618	7.618	0.0	93	471551	96.8	
68 2-Nitropropane	41	7.962	7.962	0.0	98	77770	93.2	
132 n-Butyl acetate	43	9.121	9.121	0.0	0	360621	0	
89 Cyclohexanone	55	10.588	10.588	0.0	93	66118	488.0	
103 1,2,3-Trimethylbenzene	105	11.665	11.665	0.0	98	1029858	49.3	
108 1,3,5-Trichlorobenzene	180	12.778	12.778	0.0	97	392025	46.9	
113 2-Methylnaphthalene	142	14.339	14.339	0.0	89	606765	70.6	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

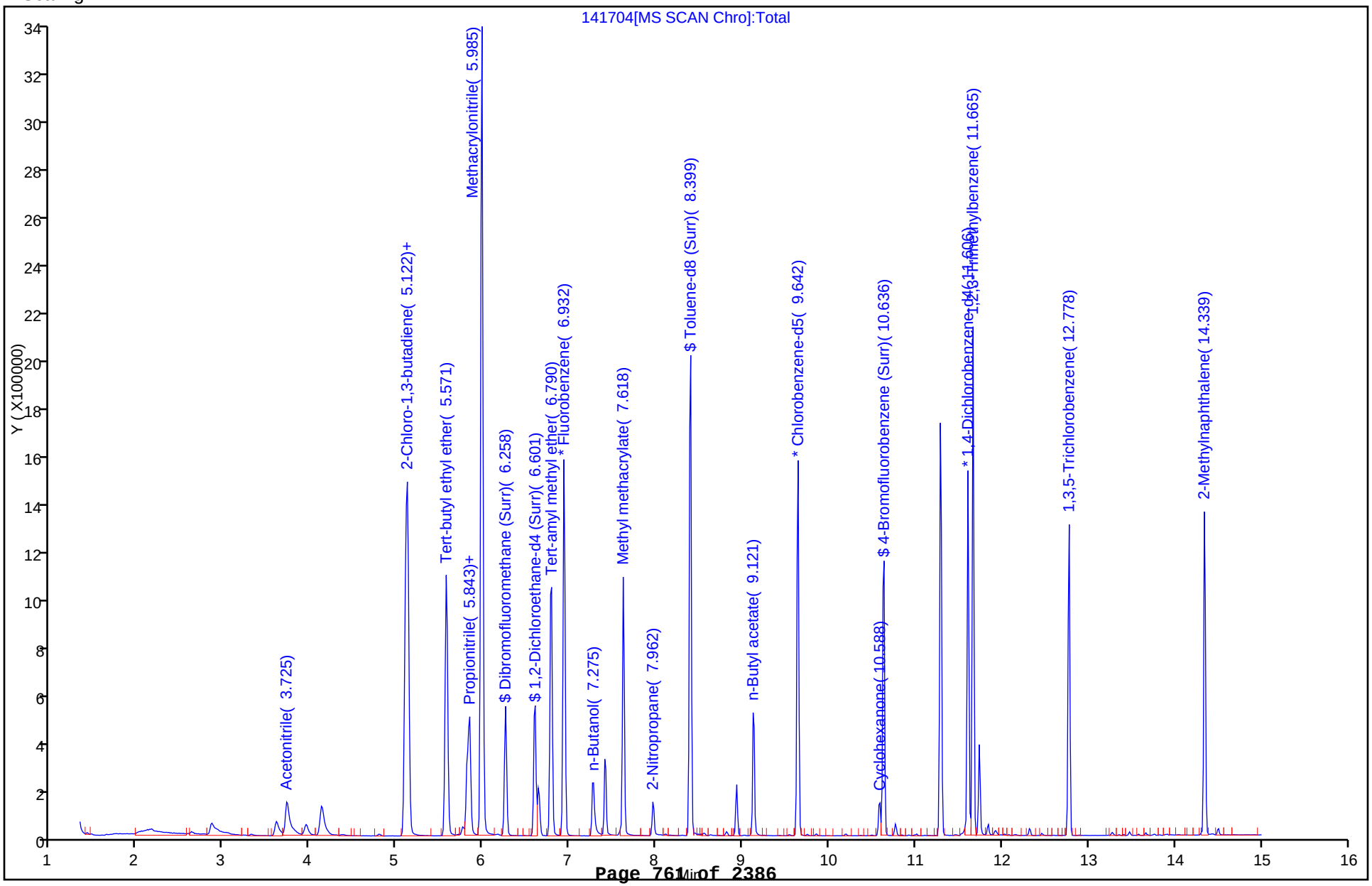
Report Date: 03-Apr-2013 14:23:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141704.D

Injection Date:	02-Apr-2013 15:17:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	4
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\BFB2145.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	19-Mar-2013 17:39:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	240-0018085-001		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	78761	Lims Sample ID:	32
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	20-Mar-2013 16:33:14	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK019		
First Level Reviewer: laveyt		Date:	20-Mar-2013 16:33:14

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	3.745	3.745	0.0	0	740484	0	8

QC Flag Legend

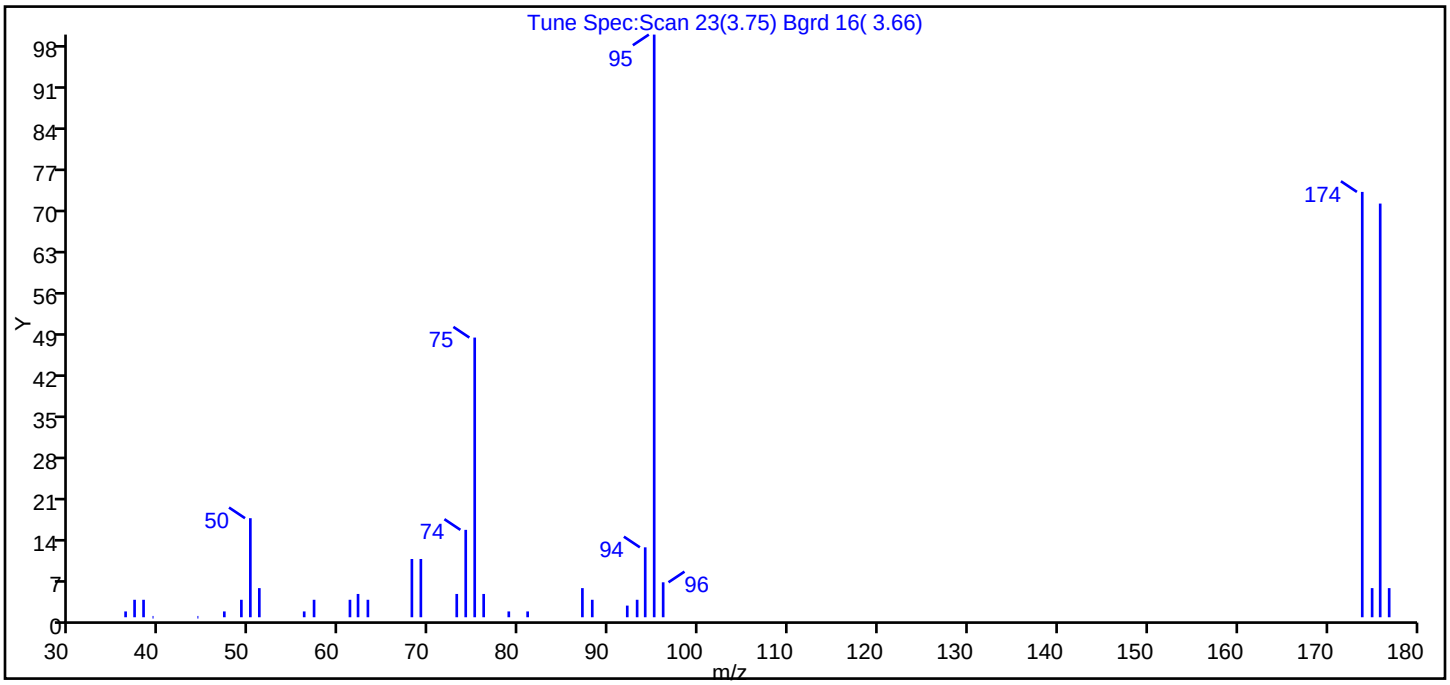
Processing Flags
8 - Failed MS Tune Ratio Test

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\BFB2145.D		
Injection Date:	19-Mar-2013 17:39:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	32
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.00
75	30.00 - 60.00% of mass 95	48.00
96	5.00 - 9.00% of mass 95	6.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.00
175	5.00 - 9.00% of mass 174	5.00 (6.85)
176	95.00 - 101.00% of mass 174	71.00 (97.26)
177	5.00 - 9.00% of mass 176	5.00 (7.04)

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\BFB2145.D\8260_12.rslt\spectra.d
Injection Date: 19-Mar-2013 17:39:30
Spectrum: Tune Spec:Scan 23(3.75) Bgrd 16(3.66)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1	56.00	1	75.00	48	95.00	100
37.10	3	57.10	3	76.00	4	96.00	6
38.10	3	61.10	3	78.80	1	173.90	73
39.10	0	62.00	4	80.90	1	175.00	5
44.10	0	63.10	3	87.00	5	175.90	71
47.10	1	68.00	10	88.10	3	176.90	5
49.00	3	69.00	10	92.00	2		
50.00	17	73.00	4	93.10	3		
51.00	5	74.00	15	94.00	12		

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130328-18335.b\BFB2151.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	28-Mar-2013 08:11:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	240-0018335-001		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79725	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m		
Last Update:	29-Mar-2013 09:09:24	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK001		
First Level Reviewer: quayler		Date:	28-Mar-2013 08:41:33

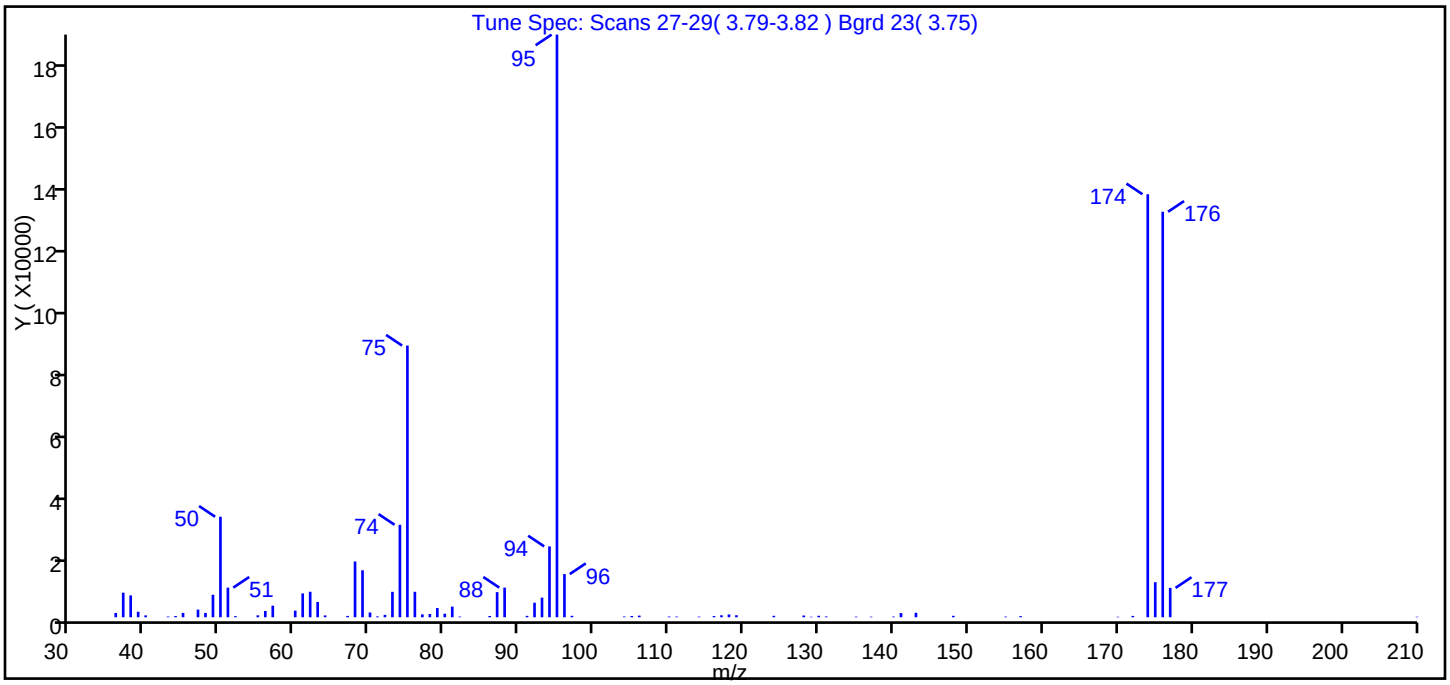
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	3.805	3.805	0.0	0	495474	0	

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A3UX12\20130328-18335.b\BFB2151.D		
Injection Date:	28-Mar-2013 08:11:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	1
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.25
75	30.00 - 60.00% of mass 95	46.63
96	5.00 - 9.00% of mass 95	7.41
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	72.60
175	5.00 - 9.00% of mass 174	6.02 (8.29)
176	95.00 - 101.00% of mass 174	69.59 (95.86)
177	5.00 - 9.00% of mass 176	5.04 (7.24)

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\BFB2151.D\8260_12.rslt\spectra.d
Injection Date: 28-Mar-2013 08:11:30
Spectrum: Tune Spec: Scans 27-29(3.79-3.82) Bgrd 23(3.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1406	63.00	4969	88.00	9629	129.00	172
37.00	7980	64.00	596	91.00	453	130.00	487
38.00	7112	67.00	444	92.00	4731	131.00	268
39.00	1794	68.00	18136	93.00	6375	135.00	205
40.00	614	69.00	15272	94.00	23040	137.00	194
43.00	234	70.00	1553	95.00	189440	140.00	228
44.00	393	71.00	286	96.00	14044	141.00	1369
45.00	1404	72.00	777	97.00	473	143.00	1453
47.00	2488	73.00	8273	104.00	239	148.00	465
48.00	1412	74.00	30064	105.00	411	155.00	216
49.00	7313	75.00	88336	106.00	540	157.00	358
50.00	32680	76.00	8280	110.00	238	170.00	166
51.00	9628	77.00	930	111.00	228	172.00	440
52.00	359	78.00	1049	114.00	207	174.00	137536
55.00	633	79.00	2993	116.00	397	175.00	11395
56.00	2037	80.00	1151	117.00	640	176.00	131840
57.00	3766	81.00	3459	118.00	908	177.00	9551
60.00	2153	82.00	225	119.00	659	210.00	169
61.00	7748	86.00	414	124.00	473		
62.00	8291	87.00	8173	128.00	568		

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\BFB14383.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	01-Apr-2013 13:20:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	240-0018434-001		
Operator:	002808	Instrument ID:	A3UX14
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	80127	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\8260_14.m		
Last Update:	03-Apr-2013 12:44:46	Calib Date:	01-Apr-2013 20:09:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK035		
First Level Reviewer: macenczaks		Date:	02-Apr-2013 10:43:28

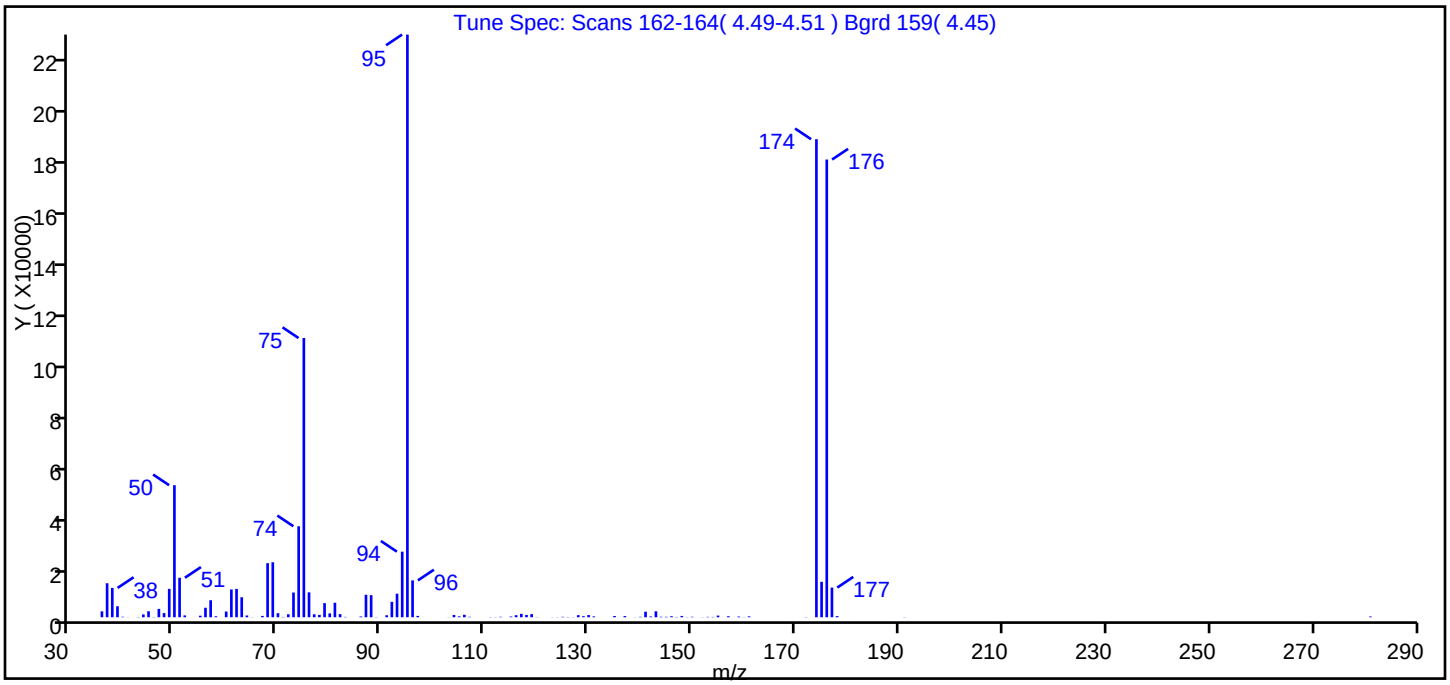
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	4.502	4.502	0.0	0	510476	0	

MS Tune Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\BFB14383.D		
Injection Date:	01-Apr-2013 13:20:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80127	Lims Sample ID:	1
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.67
75	30.00 - 60.00% of mass 95	47.93
96	5.00 - 9.00% of mass 95	6.33
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.05
175	5.00 - 9.00% of mass 174	6.08 (7.41)
176	95.00 - 101.00% of mass 174	78.56 (95.75)
177	5.00 - 9.00% of mass 176	5.10 (6.49)

Report Date: 03-Apr-2013 12:44:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Data File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\BFB14383.D\8260_14.rslt\spectra.d
Injection Date: 01-Apr-2013 13:20:30
Spectrum: Tune Spec: Scans 162-164(4.49-4.51) Bgrd 159(4.45)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2255	68.00	20616	103.00	54	141.00	2117
37.00	12962	69.00	20968	104.00	863	142.00	298
38.00	11178	70.00	1549	105.00	334	143.00	2272
39.00	4202	71.00	114	106.00	948	144.00	196
40.00	185	72.00	1137	107.00	163	145.00	176
41.00	50	73.00	9423	111.00	79	146.00	379
43.00	103	74.00	34688	112.00	60	147.00	111
44.00	1075	75.00	106432	113.00	173	148.00	505
45.00	2286	76.00	9495	115.00	278	149.00	63
46.00	74	77.00	1138	116.00	786	150.00	183
47.00	3194	78.00	897	117.00	1307	152.00	56
48.00	1596	79.00	5386	118.00	866	153.00	151
49.00	10819	80.00	1472	119.00	1201	154.00	125
50.00	50336	81.00	5537	120.00	64	155.00	642
51.00	15062	82.00	1187	123.00	56	157.00	387
52.00	705	83.00	134	124.00	54	159.00	280
55.00	584	86.00	300	125.00	175	160.00	55
56.00	3625	87.00	8573	126.00	95	161.00	339
57.00	6493	88.00	8429	127.00	52	172.00	82
58.00	374	89.00	74	128.00	797	174.00	182208
60.00	2180	91.00	762	129.00	402	175.00	13498
61.00	10592	92.00	5880	130.00	837	176.00	174464
62.00	10806	93.00	8993	131.00	334	177.00	11316
63.00	7621	94.00	25008	135.00	486	178.00	441
64.00	671	95.00	222080	137.00	457	191.00	67
65.00	52	96.00	14056	139.00	52	281.00	289
67.00	512	97.00	515	140.00	175		

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX14\20130402-18475.b\BFB14385.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	02-Apr-2013 14:12:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	240-0018475-001 =240-0018475-001		
Operator:	002808	Instrument ID:	A3UX14
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	80302	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m		
Last Update:	03-Apr-2013 14:23:42	Calib Date:	01-Apr-2013 20:09:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK035		
First Level Reviewer: macenczaks		Date:	02-Apr-2013 15:16:29

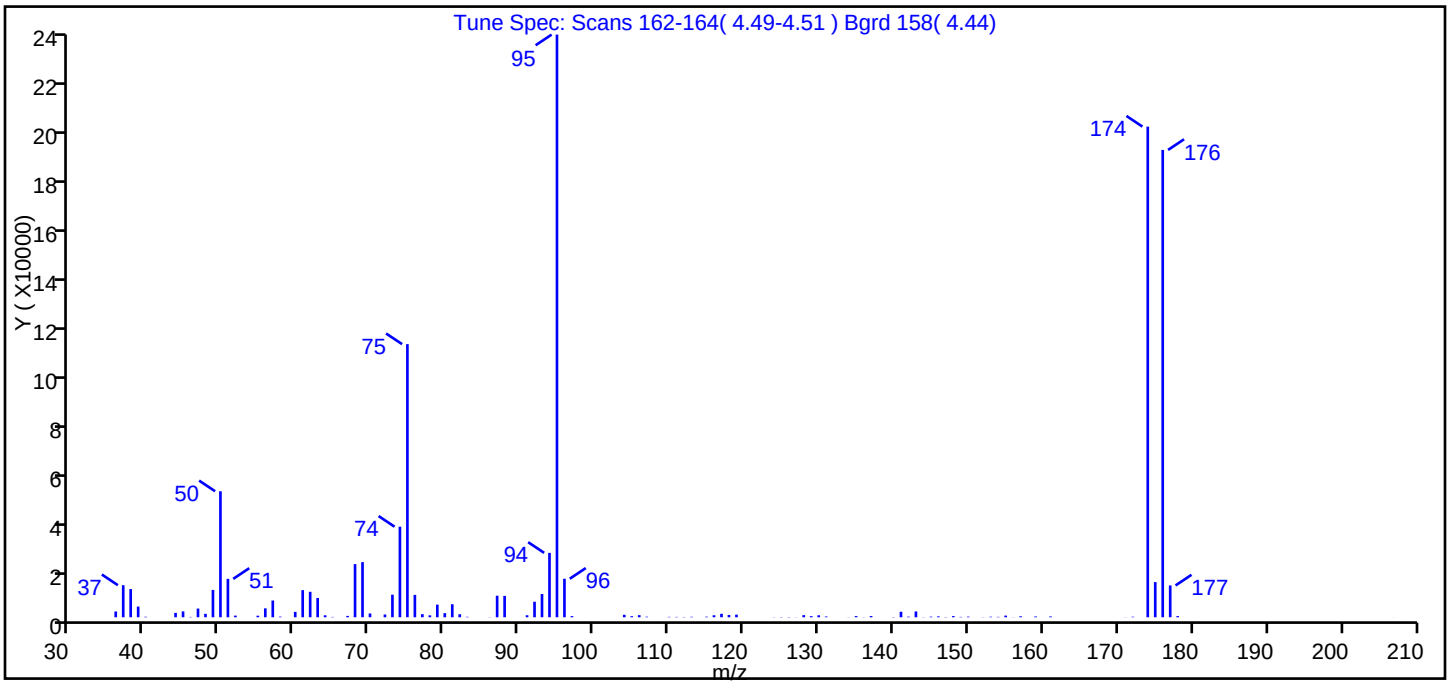
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	4.502	4.502	0.0	0	554079	0	

MS Tune Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A3UX14\20130402-18475.b\BFB14385.D		
Injection Date:	02-Apr-2013 14:12:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	1
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.63
75	30.00 - 60.00% of mass 95	46.87
96	5.00 - 9.00% of mass 95	6.61
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.21
175	5.00 - 9.00% of mass 174	6.04 (7.17)
176	95.00 - 101.00% of mass 174	80.20 (95.25)
177	5.00 - 9.00% of mass 176	5.46 (6.81)

Report Date: 03-Apr-2013 14:23:43 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\BFB14385.D\8260_14.rslt\spectra.d
Injection Date: 02-Apr-2013 14:12:30
Spectrum: Tune Spec: Scans 162-164(4.49-4.51) Bgrd 158(4.44)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2367	69.00	22544	106.00	860	143.00	2373
37.00	13110	70.00	1550	107.00	230	144.00	72
38.00	11523	72.00	1124	110.00	165	145.00	251
39.00	4378	73.00	9223	111.00	154	146.00	364
40.00	208	74.00	37024	112.00	111	147.00	107
44.00	1789	75.00	111688	113.00	199	148.00	475
45.00	2397	76.00	9149	115.00	242	149.00	151
46.00	138	77.00	1267	116.00	815	150.00	252
47.00	3552	78.00	786	117.00	1417	152.00	66
48.00	1402	79.00	5178	118.00	941	153.00	219
49.00	11182	80.00	1684	119.00	1068	154.00	159
50.00	51528	81.00	5333	124.00	64	155.00	679
51.00	15702	82.00	1232	125.00	111	156.00	53
52.00	674	83.00	177	126.00	104	157.00	390
55.00	639	86.00	62	127.00	51	159.00	326
56.00	3640	87.00	8811	128.00	868	161.00	326
57.00	6845	88.00	8742	129.00	457	171.00	51
58.00	257	91.00	826	130.00	804	172.00	213
60.00	2210	92.00	6345	131.00	310	174.00	200640
61.00	11085	93.00	9514	134.00	52	175.00	14384
62.00	10410	94.00	26336	135.00	480	176.00	191104
63.00	7881	95.00	238272	136.00	65	177.00	13006
64.00	800	96.00	15754	137.00	500	178.00	476
65.00	142	97.00	478	140.00	104	207.00	19
67.00	554	104.00	1012	141.00	2254		
68.00	21736	105.00	441	142.00	242		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-79725/6

Matrix: Water | Lab File ID: UX129318.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 79725 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	0.57	U	10	0.57	0.57
67-64-1	Acetone	1.1	U	10	1.1	1.1
71-43-2	Benzene	0.25	U	1.0	0.25	0.13
75-25-2	Bromoform	0.64	U	1.0	0.64	0.64
74-83-9	Bromomethane	0.50	U	1.0	0.50	0.41
75-15-0	Carbon disulfide	0.25	U	1.0	0.25	0.13
56-23-5	Carbon tetrachloride	0.25	U	1.0	0.25	0.13
75-34-3	1,1-Dichloroethane	0.25	U	1.0	0.25	0.15
108-90-7	Chlorobenzene	0.25	U	1.0	0.25	0.15
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25	0.22
74-87-3	Chloromethane	0.50	U	1.0	0.50	0.30
75-35-4	1,1-Dichloroethene	0.25	U	1.0	0.25	0.19
10061-01-5	cis-1,3-Dichloropropene	0.25	U	1.0	0.25	0.14
540-59-0	1,2-Dichloroethene, Total	0.50	U	2.0	0.50	0.34
124-48-1	Dibromochloromethane	0.25	U	1.0	0.25	0.18
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25	0.18
75-27-4	Bromodichloromethane	0.25	U	1.0	0.25	0.15
100-41-4	Ethylbenzene	0.25	U	1.0	0.25	0.17
591-78-6	2-Hexanone	0.50	U	10	0.50	0.41
1634-04-4	Methyl tert-butyl ether	0.25	U	1.0	0.25	0.17
75-09-2	Methylene Chloride	0.344	J	1.0	0.50	0.33
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	U	10	0.50	0.32
100-42-5	Styrene	0.25	U	1.0	0.25	0.11
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	1.0	0.25	0.18
127-18-4	Tetrachloroethene	0.50	U	1.0	0.50	0.29
108-88-3	Toluene	0.25	U	1.0	0.25	0.13
67-66-3	Chloroform	0.25	U	1.0	0.25	0.16
10061-02-6	trans-1,3-Dichloropropene	0.25	U	1.0	0.25	0.19
71-55-6	1,1,1-Trichloroethane	0.25	U	1.0	0.25	0.22
74-97-5	Bromochloromethane	0.50	U	1.0	0.50	0.29
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.27
106-93-4	1,2-Dibromoethane	0.25	U	1.0	0.25	0.24
79-01-6	Trichloroethene	0.25	U	1.0	0.25	0.17
75-01-4	Vinyl chloride	0.25	U	1.0	0.25	0.22
75-00-3	Chloroethane	0.50	U	1.0	0.50	0.29
1330-20-7	Xylenes, Total	0.75	U	2.0	0.75	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-79725/6

Matrix: Water Lab File ID: UX129318.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 10:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-120
2037-26-5	Toluene-d8 (Surr)	109		85-120
460-00-4	4-Bromofluorobenzene (Surr)	105		75-120
1868-53-7	Dibromofluoromethane (Surr)	101		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129318.D
Lims ID: MB Client ID:
Inject. Date: 28-Mar-2013 10:55:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018335-006
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 79725 Lims Sample ID: 6
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 11:23:00

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.334	-0.012	99	1681282	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1222361	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	567766	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.766	0.0	55	370610	20.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.050	0.0	90	452662	20.6	
$ 7 Toluene-d8 (Surr)	98	6.683	6.682	0.001	92	1597912	21.8	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	90	559959	21.0	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85		1.642					
13 Chloromethane	50		1.795					
14 Vinyl chloride	62		1.902					
15 Bromomethane	94		2.198					
16 Chloroethane	64		2.304					
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101		2.517					
19 Ethyl ether	59		2.718					
20 Acrolein	56		2.837					
25 Methylal	45		2.856					
22 Acetone	43		2.955					
21 1,1-Dichloroethene	61		2.955					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.955					
24 Iodomethane	142		3.109					
26 Carbon disulfide	76		3.156					
27 Acetonitrile	41		3.192					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
28 Methyl acetate	43		3.227					
29 3-Chloro-1-propene	76		3.227					
30 Methylene Chloride	49	3.357	3.369	-0.012	71	27828	0.3438	
31 2-Methyl-2-propanol	59		3.393					
32 Acrylonitrile	53		3.523					
34 Methyl tert-butyl ether	73		3.547					
33 trans-1,2-Dichloroethene	61		3.559					
35 Hexane	57		3.772					9
36 1,1-Dichloroethane	63		3.902					
37 Vinyl acetate	86		3.925					
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61		4.375					
43 2,2-Dichloropropane	77		4.375					
41 2-Butanone (MEK)	72		4.375					
45 Ethyl acetate	43		4.411					
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					
47 Chlorobromomethane	49		4.576					
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83		4.624					
50 1,1,1-Trichloroethane	97		4.801					
51 Cyclohexane	56		4.860					
52 1,1-Dichloropropene	75		4.931					
53 Carbon tetrachloride	117		4.943					
54 Isobutyl alcohol	41		4.979					
55 Benzene	78		5.109					
56 1,2-Dichloroethane	62		5.109					
57 Tert-amyl methyl ether	73		5.180					
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130		5.641					
63 Methylcyclohexane	55		5.807					9
62 1,2-Dichloropropane	63		5.830					
64 Methyl methacrylate	41		5.890					
66 1,4-Dioxane	88		5.937					
65 Dibromomethane	174		5.937					
67 Dichlorobromomethane	83		6.055					
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63		6.292					
70 cis-1,3-Dichloropropene	75		6.434					
71 4-Methyl-2-pentanone (MIBK)	43		6.564					
72 Toluene	91		6.742					
73 trans-1,3-Dichloropropene	75		6.919					
74 Ethyl methacrylate	69		6.978					
75 1,1,2-Trichloroethane	97		7.097					
77 Tetrachloroethene	166		7.239					
76 1,3-Dichloropropane	76		7.250					
80 Tetrahydrothiophene	60		7.255					
78 2-Hexanone	43		7.298					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
136 n-Butyl acetate	43		7.404					
79 Chlorodibromomethane	129		7.463					
123 Ethylene Dibromide	107		7.570					
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112		8.020					
83 1,1,1,2-Tetrachloroethane	131		8.091					
84 Ethylbenzene	106		8.114					
10 m-Xylene & p-Xylene	106		8.221					9
85 o-Xylene	106		8.599					
86 Styrene	104		8.611					
87 Bromoform	173		8.801					
88 Isopropylbenzene	105		8.954					9
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83		9.227					
91 Bromobenzene	156		9.262					
92 1,2,3-Trichloropropane	110		9.286					
93 trans-1,4-Dichloro-2-butene	53		9.286					
94 N-Propylbenzene	120		9.345					
95 2-Chlorotoluene	126		9.440					
96 1,3,5-Trimethylbenzene	105		9.511					9
104 4-Chlorotoluene	126		9.546					
97 tert-Butylbenzene	119		9.842					9
98 1,2,4-Trimethylbenzene	105		9.889					9
99 sec-Butylbenzene	105		10.055					9
100 1,3-Dichlorobenzene	146		10.173					9
101 4-Isopropyltoluene	119		10.197					9
102 1,4-Dichlorobenzene	146		10.256					9
103 1,2,3-Trimethylbenzene	105		10.303					
105 n-Butylbenzene	91	10.599	10.599	0.0	44	12233	0.2248	
106 1,2-Dichlorobenzene	146		10.635					
107 1,2-Dibromo-3-Chloropropane	157		11.404					
108 1,3,5-Trichlorobenzene	180		11.617					9
109 1,2,4-Trichlorobenzene	180		12.244					9
110 Hexachlorobutadiene	225	12.410	12.410	0.0	26	6413	0.6853	
111 Naphthalene	128		12.492					9
112 1,2,3-Trichlorobenzene	180	12.741	12.753	-0.012	8	3374	0.1690	
113 2-Methylnaphthalene	142		13.830					9
S 145 Trihalomethanes, Total	1		0.000					
S 11 1,2-Dichloroethene, Total	96		1.140					
S 9 1,3-Dichloropropene, Total	75		6.760					
S 114 Xylenes, Total	106		16.530					
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

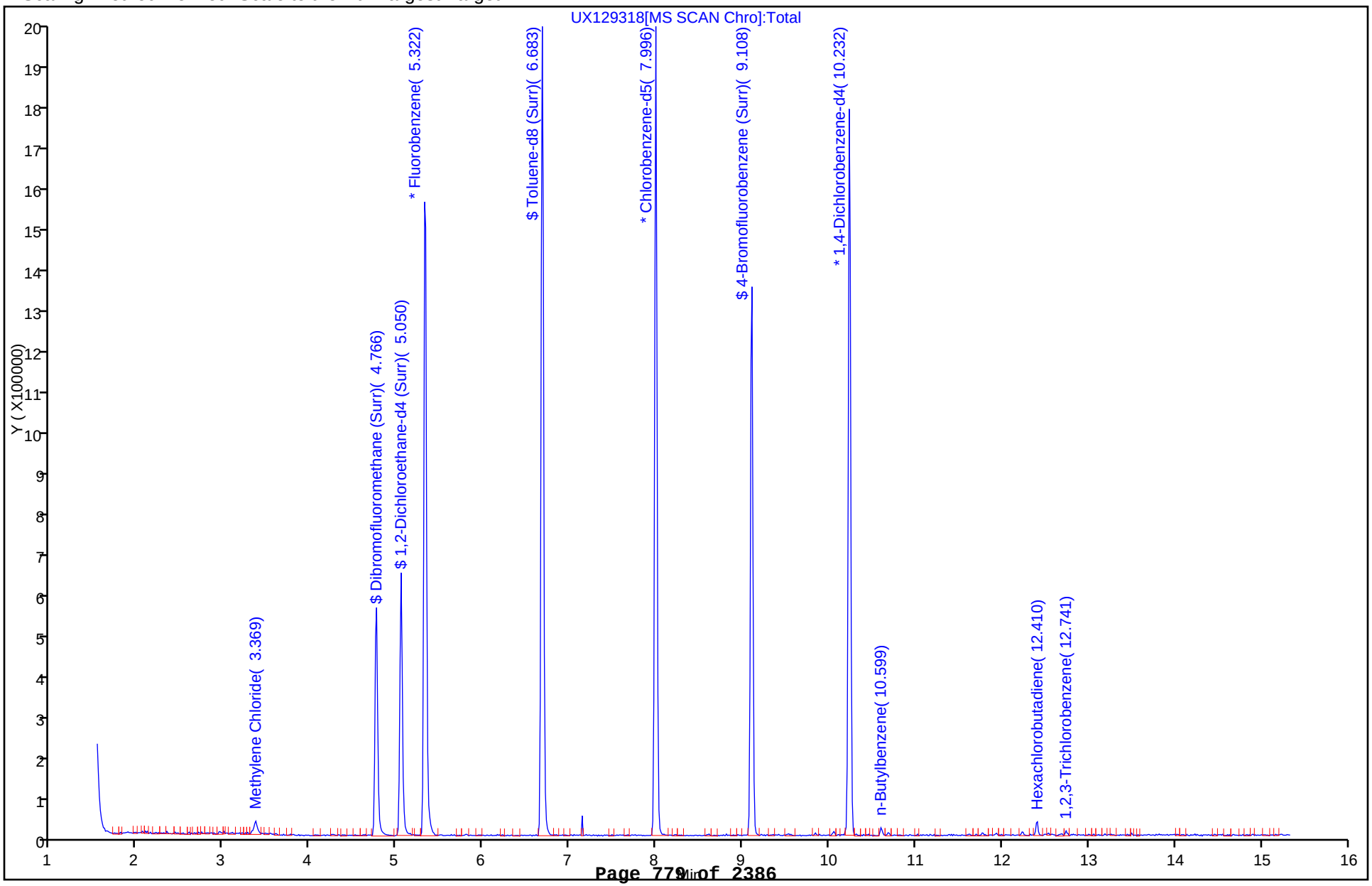
Report Date: 29-Mar-2013 09:09:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129318.D

Injection Date:	28-Mar-2013 10:55:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



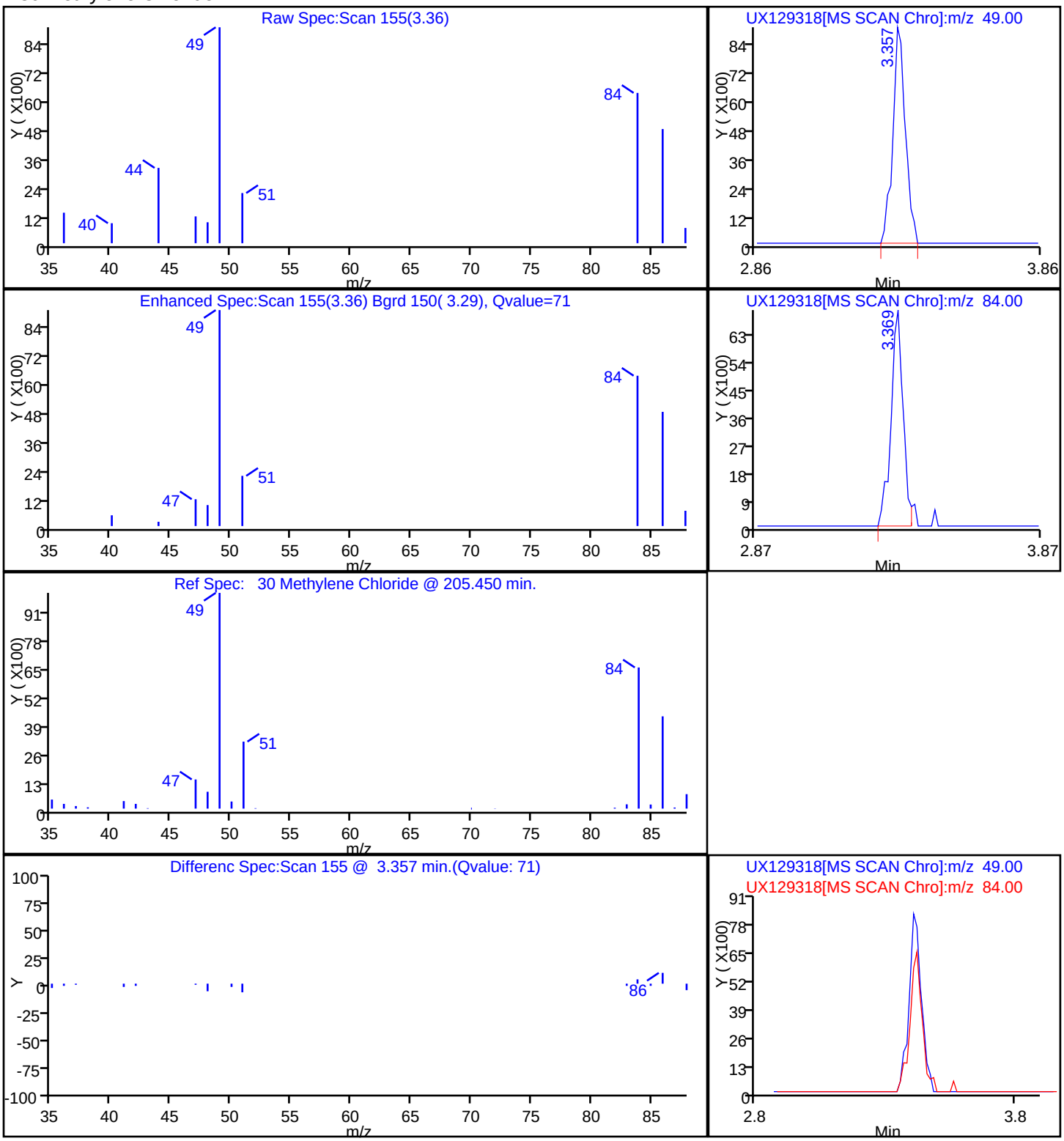
Report Date: 29-Mar-2013 09:09:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129318.D

Injection Date:	28-Mar-2013 10:55:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-80302/7

Matrix: Solid Lab File ID: 141707.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/02/2013 16:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 80302 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	2.0	U	20	2.0	1.4
67-64-1	Acetone	6.3	U	20	6.3	6.3
71-43-2	Benzene	0.50	U	5.0	0.50	0.23
75-25-2	Bromoform	0.50	U	5.0	0.50	0.33
74-83-9	Bromomethane	1.0	U	5.0	1.0	0.54
75-15-0	Carbon disulfide	0.50	U	5.0	0.50	0.44
56-23-5	Carbon tetrachloride	0.50	U	5.0	0.50	0.37
75-34-3	1,1-Dichloroethane	0.50	U	5.0	0.50	0.36
108-90-7	Chlorobenzene	0.50	U	5.0	0.50	0.33
107-06-2	1,2-Dichloroethane	0.50	U	5.0	0.50	0.34
74-87-3	Chloromethane	0.50	U	5.0	0.50	0.41
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.52
10061-01-5	cis-1,3-Dichloropropene	0.50	U	5.0	0.50	0.34
540-59-0	1,2-Dichloroethene, Total	1.0	U	10	1.0	0.77
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.55
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.69
75-27-4	Bromodichloromethane	0.50	U	5.0	0.50	0.28
100-41-4	Ethylbenzene	0.50	U	5.0	0.50	0.26
591-78-6	2-Hexanone	1.0	U	20	1.0	0.63
75-09-2	Methylene Chloride	4.91	J	5.0	1.0	0.67
108-10-1	4-Methyl-2-pentanone (MIBK)	1.0	U	20	1.0	0.54
100-42-5	Styrene	0.50	U	5.0	0.50	0.15
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	5.0	0.50	0.34
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.52
108-88-3	Toluene	0.50	U	5.0	0.50	0.27
67-66-3	Chloroform	0.50	U	5.0	0.50	0.29
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.56
74-97-5	Bromochloromethane	1.0	U	5.0	1.0	0.71
79-00-5	1,1,2-Trichloroethane	0.50	U	5.0	0.50	0.39
106-93-4	1,2-Dibromoethane	1.0	U	5.0	1.0	0.50
79-01-6	Trichloroethene	0.50	U	5.0	0.50	0.42
75-01-4	Vinyl chloride	0.50	U	5.0	0.50	0.39
75-00-3	Chloroethane	1.0	U	5.0	1.0	0.86
1330-20-7	Xylenes, Total	1.5	U	10	1.5	0.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-80302/7

Matrix: Solid Lab File ID: 141707.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/02/2013 16:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 80302 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		61-130
2037-26-5	Toluene-d8 (Surr)	98		85-115
460-00-4	4-Bromofluorobenzene (Surr)	97		85-120
1868-53-7	Dibromofluoromethane (Surr)	90		59-138

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141707.D
Lims ID: MB Client ID:
Inject. Date: 02-Apr-2013 16:21:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: mb
Misc. Info.: 240-0018475-007 =240-0018475-007
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 80302 Lims Sample ID: 7
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 16:55:40

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1173521	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	784575	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	98	351562	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.258	-0.001	72	279898	44.8	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	96	350903	51.7	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1172445	49.2	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	92	371925	48.6	
133 Benzyl chloride	126		0.000					
136 Hexachloroethane TIC	1		0.000					
135 1,4-Dichlorobutane	1		0.000					
138 Butyl Methacrylate TIC	1		0.000					
134 Chlorodifluoromethane TIC	1		0.000					
142 1,3-Diethylbenzene TIC	1		0.000					
141 Isobutylene TIC	1		0.000					
143 1,3-Butadiene TIC	1		0.000					
12 Dichlorodifluoromethane	85		1.453					9
13 Chloromethane	50		1.643					9
14 Vinyl chloride	62		1.761					
15 Bromomethane	94		2.104					
16 Chloroethane	64		2.222					
17 Dichlorofluoromethane	67		2.495					
18 Trichlorofluoromethane	101		2.542					
19 Ethyl ether	59	2.921	2.921	0.0	59	672	0.1270	
25 Methylal	45	2.932	2.932	0.0	65	2758	0	
20 Acrolein	56		3.086					9
21 1,1-Dichloroethene	96		3.205					
23 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.240					
22 Acetone	43	3.323	3.311	0.012	90	17369	5.06	
24 Iodomethane	142		3.394					
26 Carbon disulfide	76		3.477					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
27 Acetonitrile	41		3.725					
29 3-Chloro-1-propene	76		3.749					
28 Methyl acetate	43	3.843	3.820	0.023	57	2110	0.5260	
30 Methylene Chloride	84	3.950	3.950	0.0	95	31079	4.91	
31 2-Methyl-2-propanol	59		4.258					9
32 Acrylonitrile	53	4.376	4.364	0.012	70	901	0.4661	
33 trans-1,2-Dichloroethene	96		4.388					
34 Methyl tert-butyl ether	73		4.412					
35 Hexane	86		4.802					
36 1,1-Dichloroethane	63		4.980					
37 Vinyl acetate	86		5.098					
39 2-Chloro-1,3-butadiene	53		5.098					
38 Isopropyl ether	87		5.122					
40 Tert-butyl ethyl ether	59		5.571					
61 Ethyl acrylate	55		5.605					
43 2,2-Dichloropropane	77		5.701					9
42 cis-1,2-Dichloroethene	96		5.713					9
41 2-Butanone (MEK)	43		5.749					
44 Propionitrile	54		5.820					
45 Ethyl acetate	43		5.843					9
47 Chlorobromomethane	128		5.974					
46 Methacrylonitrile	41		5.985					9
48 Tetrahydrofuran	42		6.033					9
49 Chloroform	83		6.080					9
50 1,1,1-Trichloroethane	97		6.258					
51 Cyclohexane	56		6.317					
52 1,1-Dichloropropene	75		6.435					9
53 Carbon tetrachloride	117		6.435					
54 Isobutyl alcohol	41		6.636					
55 Benzene	78		6.648					9
56 1,2-Dichloroethane	62		6.672					
57 Tert-amyl methyl ether	73		6.790					
58 n-Heptane	100		6.944					
80 Tetrahydrothiophene	60		7.255					9
59 n-Butanol	56		7.275					
60 Trichloroethene	130		7.287					9
63 Methylcyclohexane	83		7.464					
62 1,2-Dichloropropane	63		7.500					9
65 Dibromomethane	93		7.606					9
64 Methyl methacrylate	41		7.618					9
66 1,4-Dioxane	88		7.630					19
67 Dichlorobromomethane	83		7.760					
68 2-Nitropropane	41		7.962					
69 2-Chloroethyl vinyl ether	63		8.032					
70 cis-1,3-Dichloropropene	75		8.163					9
71 4-Methyl-2-pentanone (MIBK)	43		8.293					9
72 Toluene	91	8.458	8.458	0.0	51	2897	0.1096	
73 trans-1,3-Dichloropropene	75		8.648					9
74 Ethyl methacrylate	69		8.731					9
75 1,1,2-Trichloroethane	97		8.802					
77 Tetrachloroethene	164		8.932					9
76 1,3-Dichloropropane	76		8.944					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
78 2-Hexanone	43		9.015					9
132 n-Butyl acetate	43		9.121					14
79 Chlorodibromomethane	129		9.145					
123 Ethylene Dibromide	107	9.251	9.239	0.012	35	410	0.1047	
81 1-Chlorohexane	91		9.594					9
82 Chlorobenzene	112		9.665					9
83 1,1,1,2-Tetrachloroethane	131		9.736					
84 Ethylbenzene	106		9.748					9
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	75	1967	0.1802	
85 o-Xylene	106	10.186	10.186	0.0	45	1109	0.1074	
86 Styrene	104		10.198					9
87 Bromoform	173		10.364					
88 Isopropylbenzene	105		10.494					9
89 Cyclohexanone	55		10.588					
90 1,1,2,2-Tetrachloroethane	83		10.742					
91 Bromobenzene	156		10.766					9
93 trans-1,4-Dichloro-2-butene	53		10.790					9
92 1,2,3-Trichloropropane	110		10.790					
94 N-Propylbenzene	120		10.849					9
95 2-Chlorotoluene	126	10.920	10.920	0.0	27	537	0.0844	7
96 1,3,5-Trimethylbenzene	105		10.991					9
104 4-Chlorotoluene	126		11.014					9
97 tert-Butylbenzene	119		11.263					9
98 1,2,4-Trimethylbenzene	105		11.310					9
99 sec-Butylbenzene	105		11.452					9
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	51	2764	0.2243	
101 4-Isopropyltoluene	119		11.570					
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	15	3216	0.2593	
103 1,2,3-Trimethylbenzene	105		11.665					9
105 n-Butylbenzene	91	11.914	11.914	0.0	59	2841	0.1391	
106 1,2-Dichlorobenzene	146		11.949					9
107 1,2-Dibromo-3-Chloropropane	157		12.600					
108 1,3,5-Trichlorobenzene	180		12.778					9
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	62	3243	0.4560	
110 Hexachlorobutadiene	225		13.405					9
111 Naphthalene	128	13.475	13.476	-0.001	76	9180	0.6618	
112 1,2,3-Trichlorobenzene	180		13.665					
113 2-Methylnaphthalene	142	14.339	14.339	0.0	28	3248	0.3834	
A 140 C6-C10	1	7.589	3.915 - 11.263		0	1467121	0	
A 139 C6-C12	1	8.388	3.915 - 12.860		0	1785416	0	
S 137 Trihalomethanes, Total	1		0.000					
S 11 1,2-Dichloroethene, Total	96		1.140					
S 9 1,3-Dichloropropene, Total	75		6.760					
S 114 Xylenes, Total	106				0		0.2876	

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

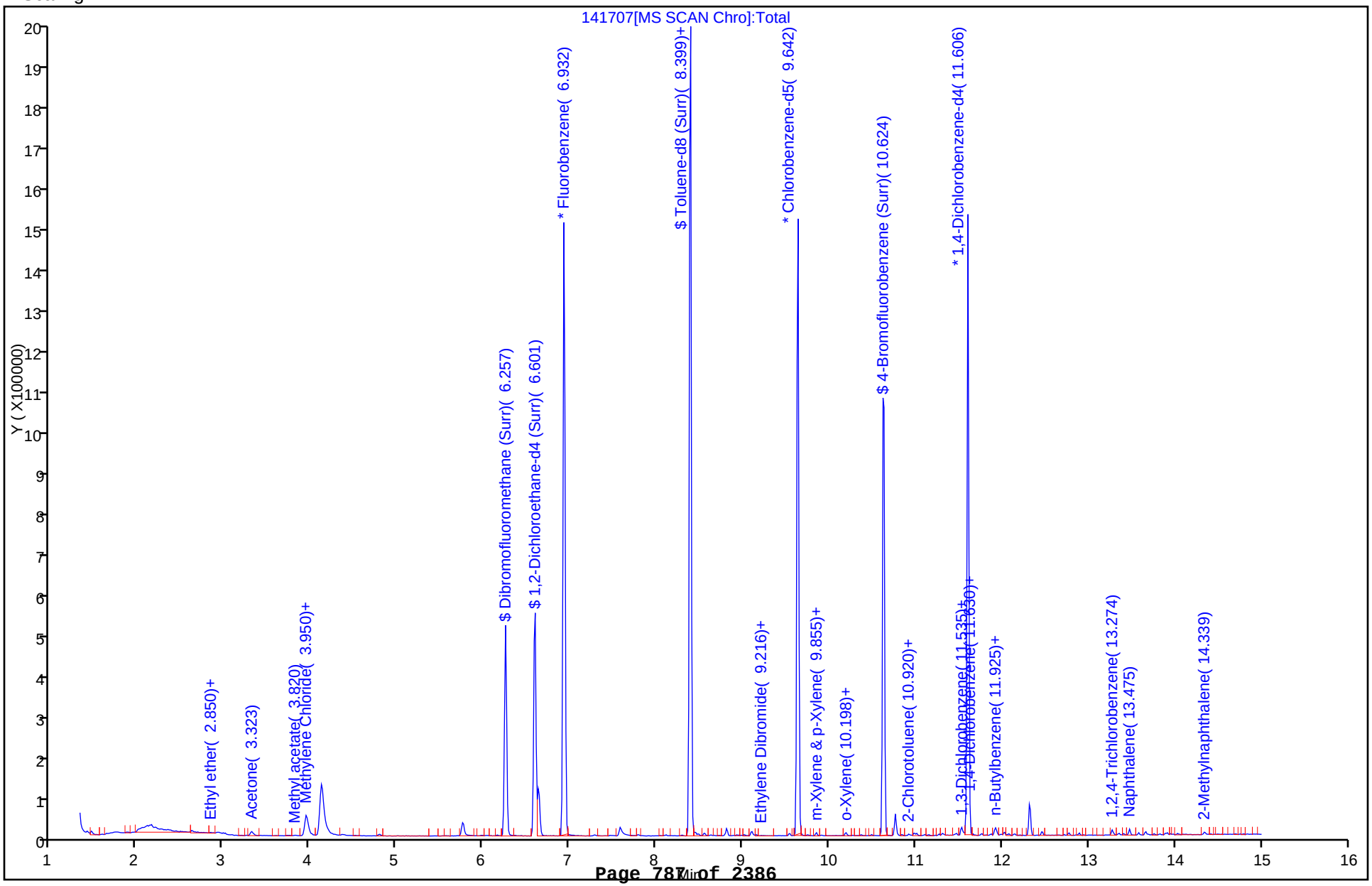
Report Date: 03-Apr-2013 14:23:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141707.D

Injection Date:	02-Apr-2013 16:21:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	7
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



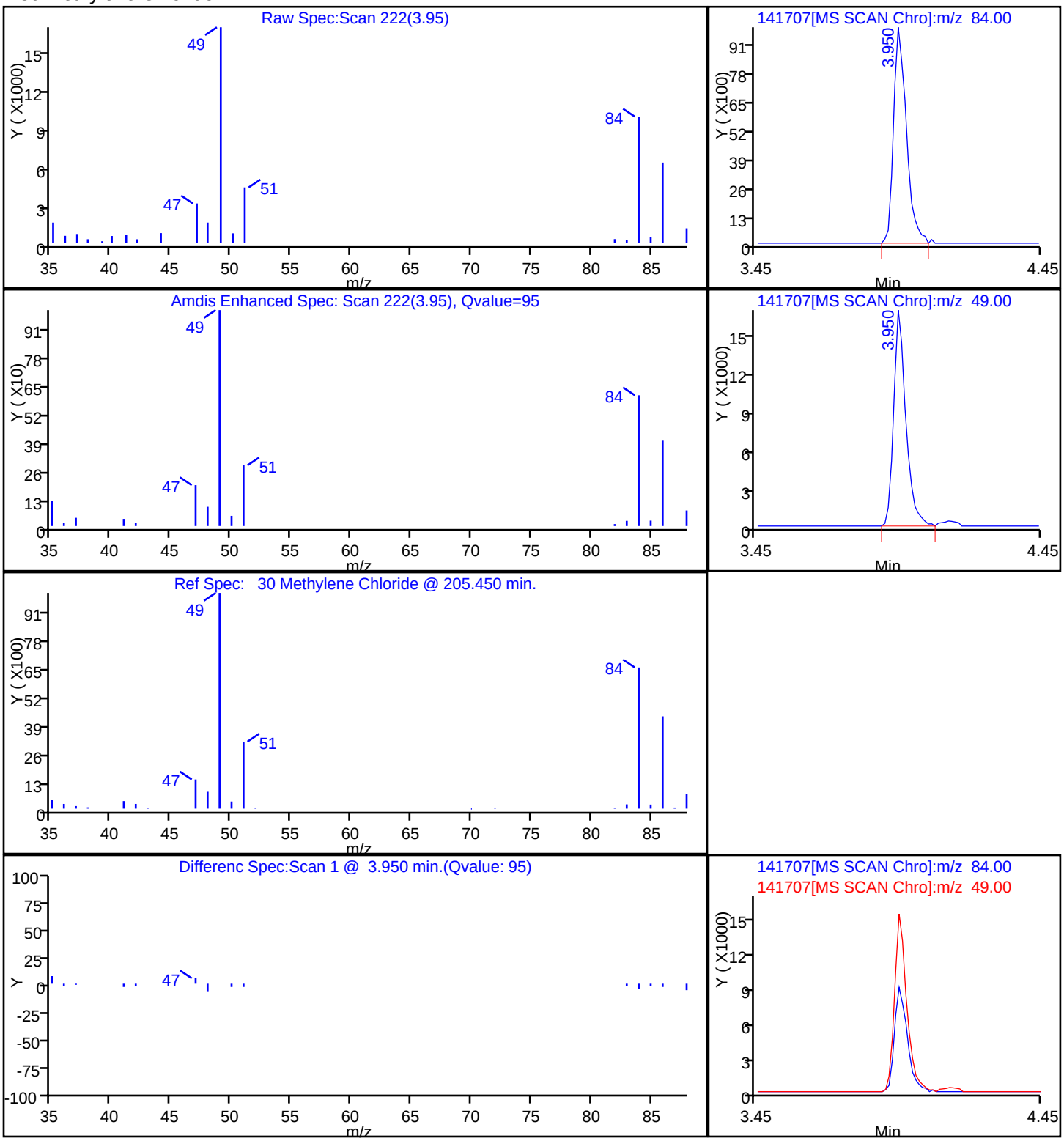
Report Date: 03-Apr-2013 14:23:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141707.D

Injection Date:	02-Apr-2013 16:21:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	7
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-79725/4

Matrix: Water | Lab File ID: UX129316.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 79725 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	34.7		10	0.57	0.57
67-64-1	Acetone	33.8		10	1.1	1.1
71-43-2	Benzene	19.0		1.0	0.25	0.13
75-25-2	Bromoform	19.2		1.0	0.64	0.64
74-83-9	Bromomethane	15.2		1.0	0.50	0.41
75-15-0	Carbon disulfide	19.5		1.0	0.25	0.13
56-23-5	Carbon tetrachloride	25.6		1.0	0.25	0.13
75-34-3	1,1-Dichloroethane	19.3		1.0	0.25	0.15
108-90-7	Chlorobenzene	19.5		1.0	0.25	0.15
107-06-2	1,2-Dichloroethane	20.2		1.0	0.25	0.22
74-87-3	Chloromethane	17.5		1.0	0.50	0.30
75-35-4	1,1-Dichloroethene	19.1		1.0	0.25	0.19
10061-01-5	cis-1,3-Dichloropropene	18.8		1.0	0.25	0.14
540-59-0	1,2-Dichloroethene, Total	37.6		2.0	0.50	0.34
124-48-1	Dibromochloromethane	19.4		1.0	0.25	0.18
78-87-5	1,2-Dichloropropane	19.0		1.0	0.25	0.18
75-27-4	Bromodichloromethane	20.2		1.0	0.25	0.15
100-41-4	Ethylbenzene	19.6		1.0	0.25	0.17
591-78-6	2-Hexanone	34.6		10	0.50	0.41
1634-04-4	Methyl tert-butyl ether	17.8		1.0	0.25	0.17
75-09-2	Methylene Chloride	19.7		1.0	0.50	0.33
108-10-1	4-Methyl-2-pentanone (MIBK)	32.1		10	0.50	0.32
100-42-5	Styrene	21.2		1.0	0.25	0.11
79-34-5	1,1,2,2-Tetrachloroethane	18.1		1.0	0.25	0.18
127-18-4	Tetrachloroethene	20.3		1.0	0.50	0.29
108-88-3	Toluene	20.4		1.0	0.25	0.13
67-66-3	Chloroform	18.9		1.0	0.25	0.16
10061-02-6	trans-1,3-Dichloropropene	20.4		1.0	0.25	0.19
71-55-6	1,1,1-Trichloroethane	22.7		1.0	0.25	0.22
74-97-5	Bromochloromethane	20.5		1.0	0.50	0.29
79-00-5	1,1,2-Trichloroethane	18.2		1.0	0.50	0.27
106-93-4	1,2-Dibromoethane	19.4		1.0	0.25	0.24
79-01-6	Trichloroethene	19.6		1.0	0.25	0.17
75-01-4	Vinyl chloride	17.7		1.0	0.25	0.22
75-00-3	Chloroethane	17.8		1.0	0.50	0.29
1330-20-7	Xylenes, Total	59.3		2.0	0.75	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-79725/4

Matrix: Water Lab File ID: UX129316.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 10:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-120
2037-26-5	Toluene-d8 (Surr)	110		85-120
460-00-4	4-Bromofluorobenzene (Surr)	103		75-120
1868-53-7	Dibromofluoromethane (Surr)	109		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129316.D
Lims ID: LCS Client ID:
Inject. Date: 28-Mar-2013 10:02:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018335-004
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 79725 Lims Sample ID: 4
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 10:25:37

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1659289	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1231555	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	91	591377	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	57	392146	21.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	88	445145	20.5	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	1617344	21.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	90	553850	20.6	
12 Dichlorodifluoromethane	85	1.641	1.642	-0.001	98	378938	15.8	
13 Chloromethane	50	1.795	1.795	0.0	89	545208	17.5	
14 Vinyl chloride	62	1.902	1.902	0.0	97	561495	17.7	
15 Bromomethane	94	2.209	2.198	0.011	89	293821	15.2	
16 Chloroethane	64	2.304	2.304	0.0	94	386356	17.8	
18 Trichlorofluoromethane	101	2.517	2.517	0.0	86	584161	19.3	
19 Ethyl ether	59	2.718	2.718	0.0	87	311221	22.3	
20 Acrolein	56	2.837	2.837	0.0	89	200968	61.4	
22 Acetone	43	2.955	2.955	0.0	35	171726	33.8	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	90	734631	19.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	57	408654	20.3	
24 Iodomethane	142	3.109	3.109	0.0	97	718465	19.8	
26 Carbon disulfide	76	3.156	3.156	0.0	98	1498904	19.5	
27 Acetonitrile	41	3.192	3.192	0.0	94	112105	46.7	
28 Methyl acetate	43	3.227	3.227	0.0	94	261412	18.1	
30 Methylene Chloride	49	3.357	3.369	-0.012	82	620434	19.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	98	437956	242.8	
32 Acrylonitrile	53	3.523	3.523	0.0	99	375458	49.1	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1039751	17.8	
33 trans-1,2-Dichloroethene	61	3.558	3.559	-0.001	89	543592	18.4	
35 Hexane	57	3.771	3.772	-0.001	89	342907	20.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	660337	19.3	
37 Vinyl acetate	86	3.925	3.925	0.0	95	63749	15.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
38 Isopropyl ether	87	3.937	3.937	0.0	87	345031	22.0	
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	529243	19.2	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	66	253715	22.6	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	73	74593	34.7	
47 Chlorobromomethane	49	4.576	4.576	0.0	96	304627	20.5	
48 Tetrahydrofuran	42	4.612	4.612	0.0	84	81667	15.4	
49 Chloroform	83	4.623	4.624	-0.001	70	613603	18.9	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	89	434865	22.7	
51 Cyclohexane	56	4.860	4.860	0.0	87	523245	19.8	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	498074	20.8	
53 Carbon tetrachloride	117	4.943	4.943	0.0	76	330111	25.6	
54 Isobutyl alcohol	41	4.978	4.979	-0.001	90	260876	620.9	
55 Benzene	78	5.109	5.109	0.0	95	1537803	19.0	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	86	466829	20.2	
60 Trichloroethene	130	5.641	5.641	0.0	94	373907	19.6	
63 Methylcyclohexane	55	5.807	5.807	0.0	91	326081	19.5	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	92	369085	19.0	
65 Dibromomethane	174	5.937	5.937	0.0	86	223934	20.8	
67 Dichlorobromomethane	83	6.055	6.055	0.0	98	446425	20.2	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	90	223004	18.0	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	554173	18.8	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	522535	32.1	
72 Toluene	91	6.741	6.742	-0.001	90	1611826	20.4	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	91	473175	20.4	
75 1,1,2-Trichloroethane	97	7.096	7.097	-0.001	86	319866	18.2	
77 Tetrachloroethene	166	7.238	7.239	-0.001	90	281908	20.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	628539	19.6	
78 2-Hexanone	43	7.298	7.298	0.0	75	352126	34.6	
79 Chlorodibromomethane	129	7.463	7.463	0.0	85	285915	19.4	
123 Ethylene Dibromide	107	7.570	7.570	0.0	95	320857	19.4	
82 Chlorobenzene	112	8.019	8.020	-0.001	93	1025512	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	83	293031	21.5	
84 Ethylbenzene	106	8.114	8.114	0.0	98	499556	19.6	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	1280835	40.0	
85 o-Xylene	106	8.599	8.599	0.0	90	640813	19.3	
86 Styrene	104	8.611	8.611	0.0	94	1194683	21.2	
87 Bromoform	173	8.800	8.801	-0.001	94	160218	19.2	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1448431	20.8	
89 Cyclohexanone	55	9.049	9.049	0.0	90	211411	143.6	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	97	448240	18.1	
91 Bromobenzene	156	9.262	9.262	0.0	92	386874	18.5	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	72	140443	17.6	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	72	184822	33.6	
94 N-Propylbenzene	120	9.345	9.345	0.0	97	383281	20.1	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	96	330837	18.7	
96 1,3,5-Trimethylbenzene	105	9.510	9.511	-0.001	89	1220851	20.3	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	381206	20.2	
97 tert-Butylbenzene	119	9.842	9.842	0.0	83	1056979	20.6	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1259996	20.2	
99 sec-Butylbenzene	105	10.055	10.055	0.0	94	1526799	20.7	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	98	714199	19.1	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1331736	21.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	89	763858	19.9	
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	93	1334848	19.0	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1183381	20.9	
106 1,2-Dichlorobenzene	146	10.635	10.635	-0.001	96	720122	18.7	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	77	75566	19.1	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	93	437939	19.8	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	94	184544	18.9	
111 Naphthalene	128	12.492	12.492	0.0	97	1161985	17.7	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	96	401431	19.3	
S 145 Trihalomethanes, Total	1				0		77.8	
S 11 1,2-Dichloroethene, Total	96				0		37.6	
S 114 Xylenes, Total	106				0		59.3	

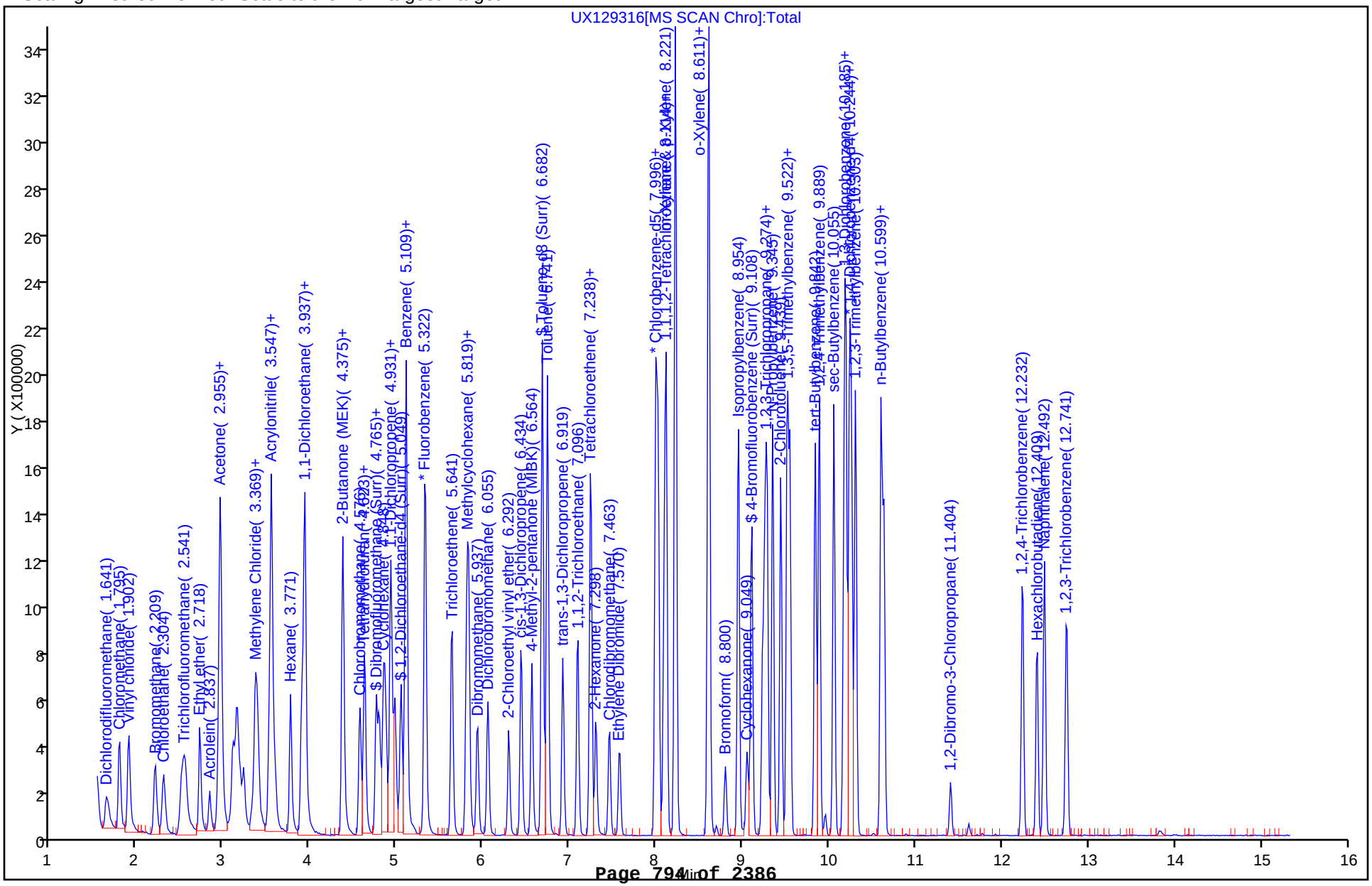
Report Date: 29-Mar-2013 09:09:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129316.D

Injection Date:	28-Mar-2013 10:02:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	4
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-80302/6

Matrix: Solid | Lab File ID: 141706.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/02/2013 16:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 80302 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	99.1		20	2.0	1.4
67-64-1	Acetone	110		20	6.3	6.3
71-43-2	Benzene	45.2		5.0	0.50	0.23
75-25-2	Bromoform	40.0		5.0	0.50	0.33
74-83-9	Bromomethane	43.5		5.0	1.0	0.54
75-15-0	Carbon disulfide	41.6		5.0	0.50	0.44
56-23-5	Carbon tetrachloride	46.0		5.0	0.50	0.37
75-34-3	1,1-Dichloroethane	45.1		5.0	0.50	0.36
108-90-7	Chlorobenzene	43.1		5.0	0.50	0.33
107-06-2	1,2-Dichloroethane	45.4		5.0	0.50	0.34
74-87-3	Chloromethane	43.2		5.0	0.50	0.41
75-35-4	1,1-Dichloroethene	48.5		5.0	1.0	0.52
10061-01-5	cis-1,3-Dichloropropene	40.0		5.0	0.50	0.34
540-59-0	1,2-Dichloroethene, Total	93.3		10	1.0	0.77
124-48-1	Dibromochloromethane	38.8		5.0	1.0	0.55
78-87-5	1,2-Dichloropropane	45.5		5.0	1.0	0.69
75-27-4	Bromodichloromethane	38.4		5.0	0.50	0.28
100-41-4	Ethylbenzene	44.6		5.0	0.50	0.26
591-78-6	2-Hexanone	93.4		20	1.0	0.63
75-09-2	Methylene Chloride	47.1		5.0	1.0	0.67
108-10-1	4-Methyl-2-pentanone (MIBK)	96.2		20	1.0	0.54
100-42-5	Styrene	45.2		5.0	0.50	0.15
79-34-5	1,1,2,2-Tetrachloroethane	48.8		5.0	0.50	0.34
127-18-4	Tetrachloroethene	45.2		5.0	1.0	0.52
108-88-3	Toluene	44.4		5.0	0.50	0.27
67-66-3	Chloroform	46.0		5.0	0.50	0.29
10061-02-6	trans-1,3-Dichloropropene	40.7		5.0	1.0	0.54
71-55-6	1,1,1-Trichloroethane	46.8		5.0	1.0	0.56
74-97-5	Bromochloromethane	46.8		5.0	1.0	0.71
79-00-5	1,1,2-Trichloroethane	46.2		5.0	0.50	0.39
106-93-4	1,2-Dibromoethane	47.1		5.0	1.0	0.50
79-01-6	Trichloroethene	43.3		5.0	0.50	0.42
75-01-4	Vinyl chloride	45.0		5.0	0.50	0.39
75-00-3	Chloroethane	46.7		5.0	1.0	0.86
1330-20-7	Xylenes, Total	132		10	1.5	0.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-80302/6

Matrix: Solid Lab File ID: 141706.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/02/2013 16:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 80302 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		61-130
2037-26-5	Toluene-d8 (Surr)	86		85-115
460-00-4	4-Bromofluorobenzene (Surr)	85		85-120
1868-53-7	Dibromofluoromethane (Surr)	87		59-138

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141706.D
Lims ID: LCS Client ID:
Inject. Date: 02-Apr-2013 16:00:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: lcs
Misc. Info.: 240-0018475-006 =240-0018475-006
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 5
Lims Batch ID: 80302 Lims Sample ID: 6
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 16:21:26

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	100	1177838	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	795972	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	98	356899	50.0	
$ 5 Dibromofluoromethane (Surr)	113	6.257	6.258	-0.001	80	273222	43.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	99	309146	44.7	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1050941	42.8	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	92	334512	42.4	
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	99	281572	41.9	
13 Chloromethane	50	1.643	1.643	0.0	100	375301	43.2	
14 Vinyl chloride	62	1.773	1.761	0.012	99	315436	45.0	
15 Bromomethane	94	2.116	2.104	0.012	90	99820	43.5	
16 Chloroethane	64	2.222	2.222	0.0	97	151988	46.7	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	99	419269	46.9	
20 Acrolein	56	3.086	3.086	0.0	96	419289	559.3	
21 1,1-Dichloroethene	96	3.205	3.205	0.0	96	261886	48.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	66	225415	47.5	
22 Acetone	43	3.323	3.311	0.012	99	174651	110.5	
24 Iodomethane	142	3.406	3.394	0.012	98	418147	47.5	
26 Carbon disulfide	76	3.477	3.477	0.0	100	654260	41.6	
27 Acetonitrile	41	3.725	3.725	0.0	99	279994	443.5	
28 Methyl acetate	43	3.832	3.820	0.012	97	391168	97.2	
30 Methylene Chloride	84	3.962	3.950	0.012	99	299361	47.1	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	91	358858	894.5	
32 Acrylonitrile	53	4.364	4.364	0.0	98	189997	97.9	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	295977	47.6	
34 Methyl tert-butyl ether	73	4.423	4.412	0.011	93	652869	46.5	
35 Hexane	86	4.802	4.802	0.0	95	81295	47.8	
36 1,1-Dichloroethane	63	4.980	4.980	0.0	97	524663	45.1	
37 Vinyl acetate	86	5.098	5.098	0.0	97	45222	49.5	
43 2,2-Dichloropropane	77	5.701	5.701	0.0	82	246469	45.0	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	86	306386	45.7	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	93	237438	99.1	
47 Chlorobromomethane	128	5.973	5.974	-0.001	97	140525	46.8	
48 Tetrahydrofuran	42	6.033	6.033	0.0	91	78909	48.2	
49 Chloroform	83	6.092	6.080	0.012	96	463257	46.0	
50 1,1,1-Trichloroethane	97	6.257	6.258	-0.001	94	366319	46.8	
51 Cyclohexane	56	6.317	6.317	0.0	94	592381	50.4	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	404487	50.2	
53 Carbon tetrachloride	117	6.435	6.435	0.0	74	348146	46.0	
55 Benzene	78	6.648	6.648	0.0	98	1129686	45.2	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	95	365101	45.4	
60 Trichloroethene	130	7.287	7.287	0.0	96	316515	43.3	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	541210	50.9	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	93	283822	45.5	
65 Dibromomethane	93	7.606	7.606	0.0	91	138931	47.0	
66 1,4-Dioxane	88	7.630	7.630	0.0	98	101982	2281.0	
67 Dichlorobromomethane	83	7.760	7.760	0.0	97	271748	38.4	
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	93	217096	91.5	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.0	89	344311	40.0	
71 4-Methyl-2-pentanone (MIBK)	43	8.293	8.293	0.0	98	464958	96.2	
72 Toluene	91	8.458	8.458	0.0	97	1189778	44.4	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	99	270928	40.7	
74 Ethyl methacrylate	69	8.731	8.731	0.0	92	265560	49.8	
75 1,1,2-Trichloroethane	97	8.802	8.802	0.0	94	190268	46.2	
77 Tetrachloroethene	164	8.932	8.932	0.0	97	249674	45.2	
76 1,3-Dichloropropane	76	8.944	8.944	0.0	98	329844	44.8	
78 2-Hexanone	43	9.015	9.015	0.0	99	299506	93.4	
79 Chlorodibromomethane	129	9.145	9.145	0.0	91	179036	38.8	
123 Ethylene Dibromide	107	9.239	9.239	0.0	98	187106	47.1	
82 Chlorobenzene	112	9.665	9.665	0.0	94	716054	43.1	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	87	238007	44.6	
84 Ethylbenzene	106	9.748	9.748	0.0	99	400381	44.6	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	968498	87.4	
85 o-Xylene	106	10.186	10.186	0.0	94	463898	44.3	
86 Styrene	104	10.198	10.198	0.0	91	728513	45.2	
87 Bromoform	173	10.364	10.364	0.0	98	88516	40.0	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	1248137	45.1	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	95	203600	48.8	
91 Bromobenzene	156	10.766	10.766	0.0	89	277183	43.8	
93 trans-1,4-Dichloro-2-butene	53	10.789	10.790	-0.001	77	61867	45.8	
92 1,2,3-Trichloropropane	110	10.789	10.790	-0.001	79	65739	46.4	
94 N-Propylbenzene	120	10.849	10.849	0.0	98	340023	45.2	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	286336	44.3	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	986620	45.8	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	289139	44.0	
97 tert-Butylbenzene	119	11.263	11.263	0.0	91	905675	44.6	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	73	939140	42.9	
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	1248354	44.7	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	98	521415	41.7	
101 4-Isopropyltoluene	119	11.570	11.570	0.0	89	1024416	42.7	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	96	518171	41.2	
105 n-Butylbenzene	91	11.914	11.914	0.0	97	896408	43.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	98	467739	40.8	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	81	23755	40.8	
108 1,3,5-Trichlorobenzene	180	12.777	12.778	-0.001	98	313364	37.4	
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	244345	33.8	
110 Hexachlorobutadiene	225	13.405	13.405	0.0	97	127289	34.9	
111 Naphthalene	128	13.476	13.476	0.0	97	476297	33.8	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	95	181893	34.7	
S 11 1,2-Dichloroethene, Total	96				0		93.3	
S 114 Xylenes, Total	106				0		131.7	

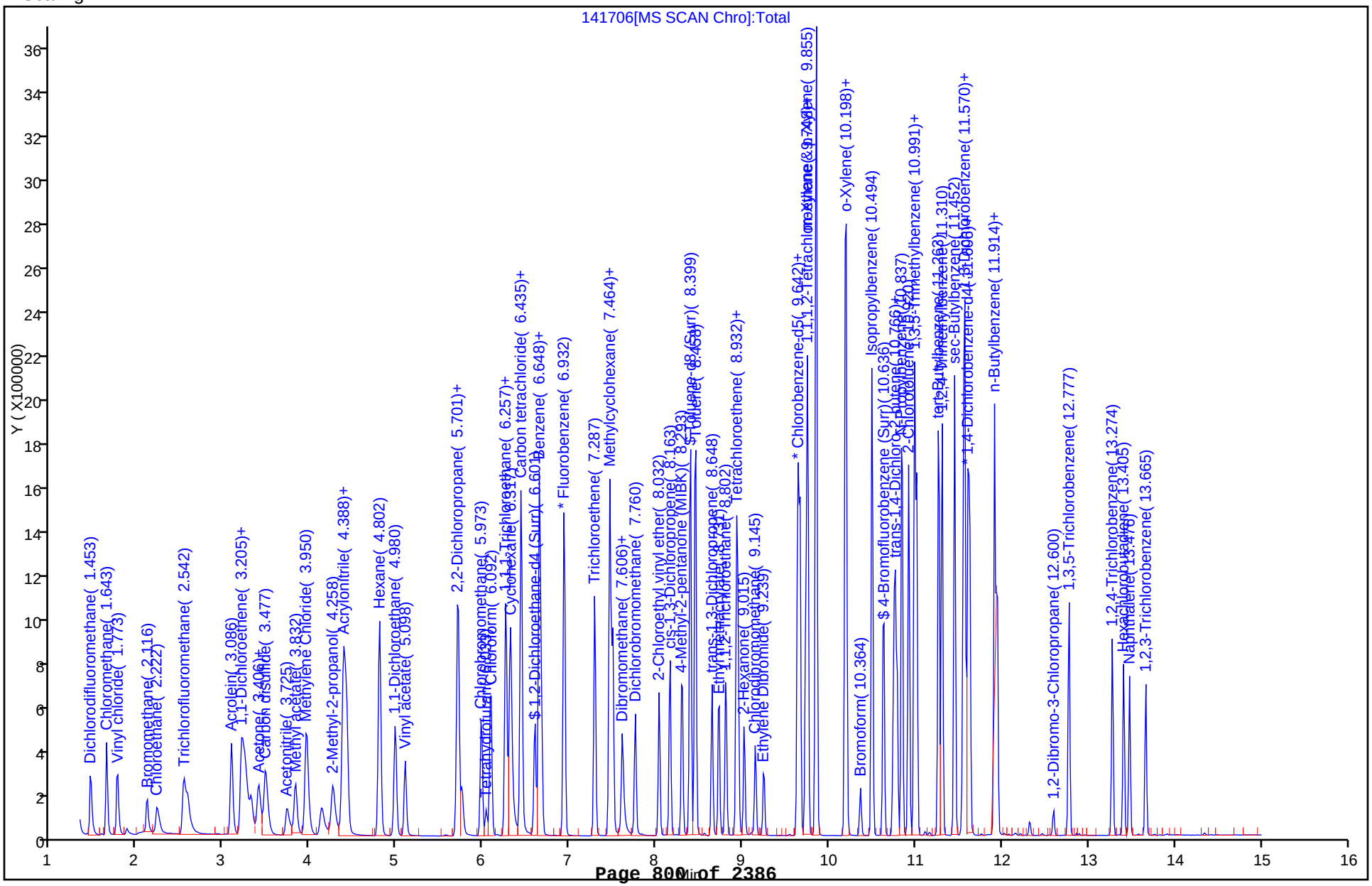
Report Date: 03-Apr-2013 14:23:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141706.D

Injection Date:	02-Apr-2013 16:00:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	6
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79725/5

Matrix: Water | Lab File ID: UX129317.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 10:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 79725 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	0.00675	J ^	0.010	0.00050	0.00057
67-64-1	Acetone	0.00824	J	0.010	0.0010	0.0011
71-43-2	Benzene	0.000966	J	0.0010	0.00025	0.00013
75-25-2	Bromoform	0.000857	J	0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.000956	J	0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.000842	J	0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.00136	^	0.0010	0.00025	0.00013
75-34-3	1,1-Dichloroethane	0.000850	J	0.0010	0.00025	0.00015
108-90-7	Chlorobenzene	0.000971	J	0.0010	0.00025	0.00015
107-06-2	1,2-Dichloroethane	0.00115		0.0010	0.00025	0.00022
74-87-3	Chloromethane	0.000984	J	0.0010	0.00050	0.00030
75-35-4	1,1-Dichloroethene	0.000973	J	0.0010	0.00025	0.00019
10061-01-5	cis-1,3-Dichloropropene	0.000862	J	0.0010	0.00025	0.00014
540-59-0	1,2-Dichloroethene, Total	0.00198	J	0.0020	0.00050	0.00034
124-48-1	Dibromochloromethane	0.000769	J	0.0010	0.00025	0.00018
78-87-5	1,2-Dichloropropane	0.000868	J	0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.000830	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000957	J	0.0010	0.00025	0.00017
591-78-6	2-Hexanone	0.00867	J	0.010	0.00050	0.00041
1634-04-4	Methyl tert-butyl ether	0.000831	J	0.0010	0.00025	0.00017
75-09-2	Methylene Chloride	0.00138	^	0.0010	0.00050	0.00033
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00786	J	0.010	0.00050	0.00032
100-42-5	Styrene	0.000958	J	0.0010	0.00025	0.00011
79-34-5	1,1,2,2-Tetrachloroethane	0.00109		0.0010	0.00025	0.00018
127-18-4	Tetrachloroethene	0.00116		0.0010	0.00050	0.00029
108-88-3	Toluene	0.00113		0.0010	0.00025	0.00013
67-66-3	Chloroform	0.000796	J	0.0010	0.00025	0.00016
10061-02-6	trans-1,3-Dichloropropene	0.000805	J	0.0010	0.00025	0.00019
71-55-6	1,1,1-Trichloroethane	0.000959	J	0.0010	0.00025	0.00022
74-97-5	Bromochloromethane	0.000968	J	0.0010	0.00050	0.00029
79-00-5	1,1,2-Trichloroethane	0.000795	J	0.0010	0.00050	0.00027
106-93-4	1,2-Dibromoethane	0.000840	J	0.0010	0.00025	0.00024
79-01-6	Trichloroethene	0.000931	J	0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.000954	J	0.0010	0.00025	0.00022
75-00-3	Chloroethane	0.00101		0.0010	0.00050	0.00029
1330-20-7	Xylenes, Total	0.00310		0.0020	0.00075	0.00028

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79725/5

Matrix: Water Lab File ID: UX129317.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 10:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79725 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-150
2037-26-5	Toluene-d8 (Surr)	112		50-150
460-00-4	4-Bromofluorobenzene (Surr)	110		50-150
1868-53-7	Dibromofluoromethane (Surr)	107		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129317.D
Lims ID: MRL Client ID:
Inject. Date: 28-Mar-2013 10:29:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018335-005
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 5
Lims Batch ID: 79725 Lims Sample ID: 5
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 10:46:18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1624775	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1192131	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	561153	20.0	
$ 4 BFB	95	2.955	3.805	-0.850	0	737	0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	55	378800	21.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	90	447982	21.1	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	92	1593701	22.3	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	572701	22.0	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.653	1.642	0.011	34	25004	1.06	
13 Chloromethane	50	1.795	1.795	0.0	80	30052	0.9840	
14 Vinyl chloride	62	1.890	1.902	-0.012	87	29597	0.9543	
15 Bromomethane	94	2.198	2.198	0.0	63	18148	0.9559	
16 Chloroethane	64	2.304	2.304	0.0	74	21469	1.01	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.505	2.517	-0.012	48	25948	1.12	
19 Ethyl ether	59		2.718					
20 Acrolein	56	2.837	2.837	0.0	70	23690	7.39	
25 Methylal	45		2.856					9
22 Acetone	43	2.955	2.955	0.0	86	46117	8.24	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	73	36660	0.9726	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	16	18579	0.9437	
24 Iodomethane	142	3.109	3.109	0.0	83	32470	0.9136	
26 Carbon disulfide	76	3.156	3.156	0.0	97	63399	0.8424	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
27 Acetonitrile	41	3.192	3.192	0.0	91	22530	9.58	
28 Methyl acetate	43	3.227	3.227	0.0	84	24670	1.75	
29 3-Chloro-1-propene	76		3.227					9
30 Methylene Chloride	49	3.357	3.369	-0.012	85	57946	1.38	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	82	22462	37.2	
32 Acrylonitrile	53	3.523	3.523	0.0	77	13106	1.75	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	82	47610	0.8310	
33 trans-1,2-Dichloroethene	61	3.558	3.559	-0.001	67	26656	0.9235	
35 Hexane	57	3.771	3.772	-0.001	84	21911	1.34	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	83	28514	0.8500	
37 Vinyl acetate	86	3.913	3.925	-0.012	79	4665	1.56	
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	46	28600	1.06	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	30	13621	1.24	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	88	15396	6.75	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.576	4.576	0.0	68	14103	0.9681	
48 Tetrahydrofuran	42	4.612	4.612	0.0	67	6226	0.3355	
49 Chloroform	83	4.623	4.624	-0.001	53	25238	0.7956	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	56	17979	0.9593	
51 Cyclohexane	56	4.848	4.860	-0.012	61	25502	0.9847	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	77	25175	1.07	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	36	17171	1.36	
54 Isobutyl alcohol	41		4.979					
55 Benzene	78	5.109	5.109	-0.001	74	76551	0.9665	
56 1,2-Dichloroethane	62	5.109	5.109	-0.001	27	25918	1.15	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.629	5.641	-0.012	69	17376	0.9313	
63 Methylcyclohexane	55	5.807	5.807	0.0	77	25523	1.56	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	68	16508	0.8677	
64 Methyl methacrylate	41	5.818	5.890	-0.072	21	20289	1.43	
66 1,4-Dioxane	88	5.937	5.937	0.0	35	10291	47.9	
65 Dibromomethane	174	5.937	5.937	0.0	70	9606	0.9090	
67 Dichlorobromomethane	83	6.055	6.055	0.0	71	17937	0.8305	
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	79	21455	1.77	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	57	24939	0.8618	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	87	125263	7.86	
72 Toluene	91	6.741	6.742	-0.001	91	86192	1.13	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	62	18080	0.8052	
74 Ethyl methacrylate	69	6.978	6.978	0.0	63	20772	0.9318	
75 1,1,2-Trichloroethane	97	7.096	7.097	-0.001	50	13501	0.7951	
77 Tetrachloroethene	166	7.238	7.239	-0.001	85	15573	1.16	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	69	32999	1.06	
80 Tetrahydrothiophene	60		7.255					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
78 2-Hexanone	43	7.298	7.298	0.0	92	85309	8.67	
136 n-Butyl acetate	43		7.404					9
79 Chlorodibromomethane	129	7.463	7.463	0.0	35	10975	0.7689	
123 Ethylene Dibromide	107	7.570	7.570	0.0	49	13471	0.8402	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.019	8.020	-0.001	52	49557	0.9710	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	61	12654	0.9594	
84 Ethylbenzene	106	8.114	8.114	0.0	89	23671	0.9573	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	94	63287	2.04	
85 o-Xylene	106	8.611	8.599	0.012	76	34104	1.06	
86 Styrene	104	8.611	8.611	0.0	87	52352	0.9582	
87 Bromoform	173	8.800	8.801	-0.001	26	6927	0.8568	
88 Isopropylbenzene	105	8.954	8.954	0.0	72	76432	1.13	
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83	9.238	9.227	0.011	65	25726	1.09	
91 Bromobenzene	156	9.262	9.262	0.0	86	20256	1.02	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	23	7730	1.02	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	3	1826	0.3495	
94 N-Propylbenzene	120	9.345	9.345	0.0	84	20331	1.12	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	85	17852	1.07	
96 1,3,5-Trimethylbenzene	105	9.522	9.511	0.011	81	58809	1.03	
104 4-Chlorotoluene	126	9.546	9.546	0.0	81	18655	1.04	
97 tert-Butylbenzene	119	9.842	9.842	0.0	74	69307	1.42	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	73	64623	1.09	
99 sec-Butylbenzene	105	10.055	10.055	0.0	85	110352	1.58	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	77	38584	1.09	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	71	89951	1.51	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	61	37722	1.03	
103 1,2,3-Trimethylbenzene	105		10.303					9
105 n-Butylbenzene	91	10.599	10.599	0.0	91	100998	1.88	
106 1,2-Dichlorobenzene	146	10.634	10.635	-0.001	79	38336	1.05	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	4	1948	0.5178	
108 1,3,5-Trichlorobenzene	180	11.628	11.617	0.011	72	23830	1.05	
109 1,2,4-Trichlorobenzene	180	12.232	12.244	-0.012	73	40203	1.92	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	62	23381	2.53	
111 Naphthalene	128	12.492	12.492	0.0	80	71329	1.14	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	72	34075	1.73	
113 2-Methylnaphthalene	142		13.830					9
S 145 Trihalomethanes, Total	1				0		3.25	
S 11 1,2-Dichloroethene, Total	96				0		1.98	
S 9 1,3-Dichloropropene, Total	75				0		1.67	
S 114 Xylenes, Total	106				0		3.10	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

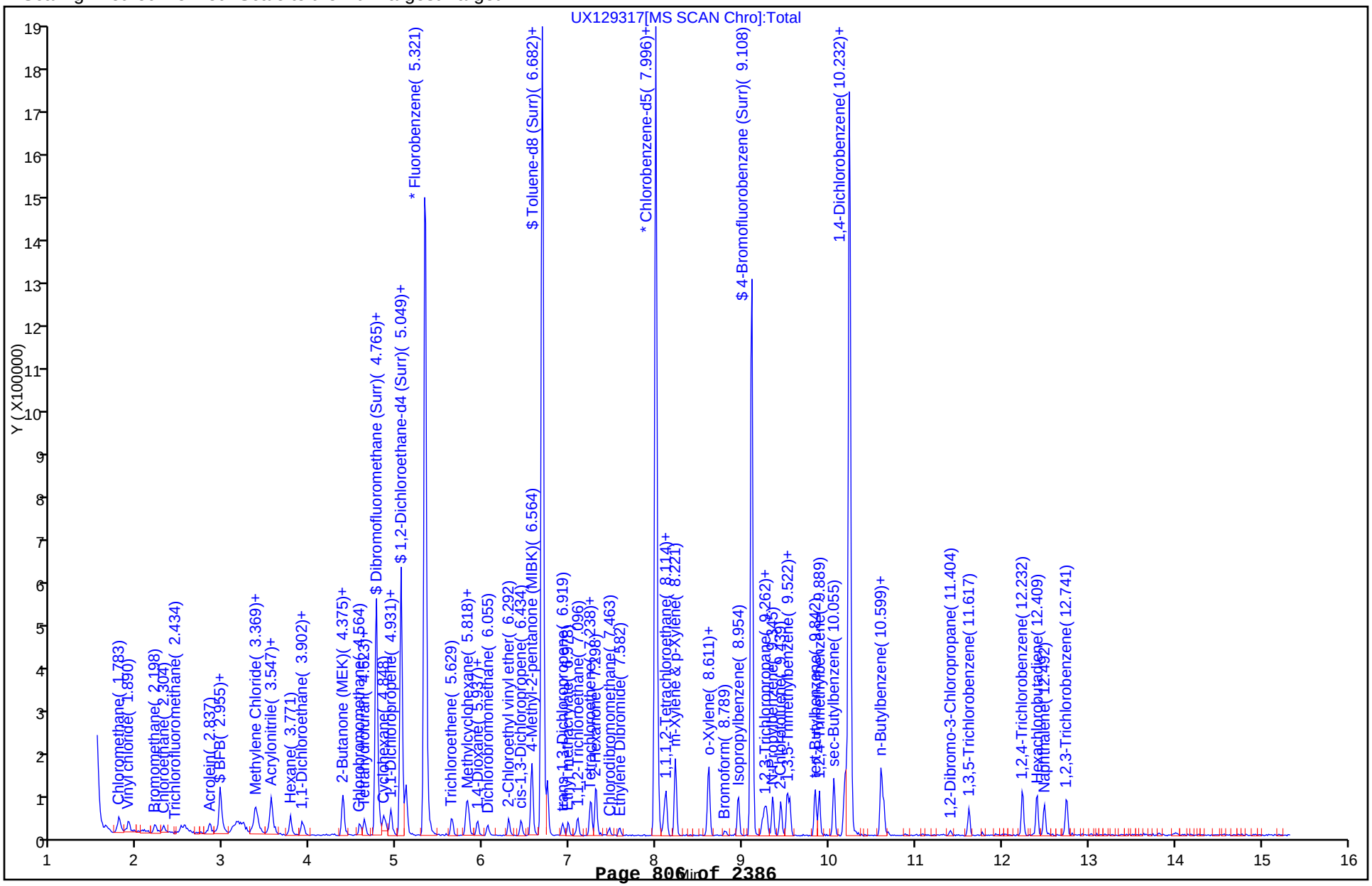
Report Date: 29-Mar-2013 09:09:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129317.D

Injection Date:	28-Mar-2013 10:29:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	5
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79725/14

Matrix: Water | Lab File ID: UX129326.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 14:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 79725 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	0.00692	J ^	0.010	0.00050	0.00057
67-64-1	Acetone	0.00654	J ^	0.010	0.0010	0.0011
71-43-2	Benzene	0.000907	J	0.0010	0.00025	0.00013
75-25-2	Bromoform	0.000641	J ^	0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.00123		0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.000845	J	0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.000966	J	0.0010	0.00025	0.00013
75-34-3	1,1-Dichloroethane	0.000803	J	0.0010	0.00025	0.00015
108-90-7	Chlorobenzene	0.000923	J	0.0010	0.00025	0.00015
107-06-2	1,2-Dichloroethane	0.00100		0.0010	0.00025	0.00022
74-87-3	Chloromethane	0.00133	^	0.0010	0.00050	0.00030
75-35-4	1,1-Dichloroethene	0.000818	J	0.0010	0.00025	0.00019
10061-01-5	cis-1,3-Dichloropropene	0.000817	J	0.0010	0.00025	0.00014
540-59-0	1,2-Dichloroethene, Total	0.00174	J	0.0020	0.00050	0.00034
124-48-1	Dibromochloromethane	0.000975	J	0.0010	0.00025	0.00018
78-87-5	1,2-Dichloropropane	0.000871	J	0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.000900	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000840	J	0.0010	0.00025	0.00017
591-78-6	2-Hexanone	0.00702	J	0.010	0.00050	0.00041
1634-04-4	Methyl tert-butyl ether	0.000814	J	0.0010	0.00025	0.00017
75-09-2	Methylene Chloride	0.00150	^	0.0010	0.00050	0.00033
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00664	J ^	0.010	0.00050	0.00032
100-42-5	Styrene	0.000848	J	0.0010	0.00025	0.00011
79-34-5	1,1,2,2-Tetrachloroethane	0.000888	J	0.0010	0.00025	0.00018
127-18-4	Tetrachloroethene	0.00101		0.0010	0.00050	0.00029
108-88-3	Toluene	0.000966	J	0.0010	0.00025	0.00013
67-66-3	Chloroform	0.000920	J	0.0010	0.00025	0.00016
10061-02-6	trans-1,3-Dichloropropene	0.000873	J	0.0010	0.00025	0.00019
71-55-6	1,1,1-Trichloroethane	0.000953	J	0.0010	0.00025	0.00022
74-97-5	Bromochloromethane	0.000990	J	0.0010	0.00050	0.00029
79-00-5	1,1,2-Trichloroethane	0.000755	J	0.0010	0.00050	0.00027
106-93-4	1,2-Dibromoethane	0.000890	J	0.0010	0.00025	0.00024
79-01-6	Trichloroethene	0.000718	J	0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.00133	^	0.0010	0.00025	0.00022
75-00-3	Chloroethane	0.00129		0.0010	0.00050	0.00029
1330-20-7	Xylenes, Total	0.00263		0.0020	0.00075	0.00028

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79725/14

Matrix: Water Lab File ID: UX129326.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 14:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79725 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		50-150
2037-26-5	Toluene-d8 (Surr)	106		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150
1868-53-7	Dibromofluoromethane (Surr)	103		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129326.D
Lims ID: MRL Client ID:
Inject. Date: 28-Mar-2013 14:26:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018335-014
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 79725 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 14:49:21

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1721180	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1262794	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.232	0.012	93	582422	20.0	
$ 4 BFB	95	4.576	3.805	0.771	0	2398	0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	56	386293	20.6	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	90	450284	20.0	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	93	1604259	21.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	89	563195	20.5	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.653	1.642	0.011	74	40412	1.62	
13 Chloromethane	50	1.783	1.795	-0.012	86	43190	1.33	
14 Vinyl chloride	62	1.902	1.902	0.0	59	43727	1.33	
15 Bromomethane	94	2.198	2.198	0.0	79	24680	1.23	
16 Chloroethane	64	2.304	2.304	0.0	61	29036	1.29	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.529	2.517	0.012	55	38435	1.46	
19 Ethyl ether	59		2.718					9
20 Acrolein	56	2.837	2.837	0.0	77	23103	6.81	
25 Methylal	45		2.856					
22 Acetone	43	2.967	2.955	0.012	93	40282	6.54	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	72	32647	0.8176	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.967	2.955	0.012	36	15576	0.7469	
24 Iodomethane	142	3.109	3.109	0.0	88	27913	0.7414	
26 Carbon disulfide	76	3.156	3.156	0.0	96	67385	0.8452	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
27 Acetonitrile	41	3.203	3.192	0.011	96	22868	9.18	
28 Methyl acetate	43	3.227	3.227	0.0	80	20704	1.38	
29 3-Chloro-1-propene	76		3.227					9
30 Methylene Chloride	49	3.369	3.369	0.0	81	65169	1.50	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	79	18701	34.9	
32 Acrylonitrile	53	3.523	3.523	0.0	82	12819	1.62	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	85	49426	0.8144	
33 trans-1,2-Dichloroethene	61	3.558	3.559	-0.001	55	28477	0.9313	
35 Hexane	57	3.771	3.772	-0.001	78	20895	1.21	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	78	28546	0.8033	
37 Vinyl acetate	86	3.925	3.925	0.0	90	2765	1.07	
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	53	23002	0.8036	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	41	13492	1.16	
41 2-Butanone (MEK)	72	4.387	4.375	0.012	90	16697	6.92	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.576	4.576	0.0	70	15278	0.9900	
48 Tetrahydrofuran	42	4.612	4.612	0.0	38	5678	0.1580	
49 Chloroform	83	4.635	4.624	0.011	53	30925	0.9203	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	71	18925	0.9532	
51 Cyclohexane	56	4.848	4.860	-0.012	52	25151	0.9167	
52 1,1-Dichloropropene	75	4.919	4.931	-0.012	75	20541	0.8256	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	39	12939	0.9662	
54 Isobutyl alcohol	41		4.979					
55 Benzene	78	5.109	5.109	0.0	91	76067	0.9066	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	46	23938	1.00	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.641	5.641	0.0	56	14188	0.7179	
63 Methylcyclohexane	55	5.807	5.807	0.0	79	24997	1.44	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	76	17551	0.8708	
64 Methyl methacrylate	41	5.819	5.890	-0.071	28	19124	1.27	
66 1,4-Dioxane	88	5.937	5.937	0.0	27	5990	26.3	
65 Dibromomethane	174	5.937	5.937	0.0	69	9187	0.8207	
67 Dichlorobromomethane	83	6.055	6.055	0.0	73	20583	0.8996	
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	70	21977	1.71	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	65	25058	0.8174	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	91	112182	6.64	
72 Toluene	91	6.741	6.742	-0.001	88	78231	0.9657	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	60	20770	0.8732	
74 Ethyl methacrylate	69	6.978	6.978	0.0	65	21217	0.8985	
75 1,1,2-Trichloroethane	97	7.085	7.097	-0.012	61	13574	0.7547	
77 Tetrachloroethene	166	7.238	7.239	-0.001	77	14351	1.01	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	74	25992	0.7907	
80 Tetrahydrothiophene	60		7.255					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
78 2-Hexanone	43	7.309	7.298	0.011	90	73254	7.02	
136 n-Butyl acetate	43		7.404					9
79 Chlorodibromomethane	129	7.463	7.463	0.0	37	14742	0.9750	
123 Ethylene Dibromide	107	7.582	7.570	0.012	39	15122	0.8904	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.019	8.020	-0.001	64	49882	0.9227	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	59	14371	1.03	
84 Ethylbenzene	106	8.114	8.114	0.0	91	21998	0.8399	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	94	56279	1.71	
85 o-Xylene	106	8.599	8.599	0.0	77	31223	0.9163	
86 Styrene	104	8.611	8.611	0.0	82	49061	0.8477	
87 Bromoform	173	8.800	8.801	-0.001	63	5490	0.6410	
88 Isopropylbenzene	105	8.954	8.954	0.0	79	67505	0.9448	
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	73	21673	0.8878	
91 Bromobenzene	156	9.262	9.262	0.0	84	17076	0.8293	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	43	6841	0.8702	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	16	2998	0.5529	
94 N-Propylbenzene	120	9.345	9.345	0.0	89	16397	0.8739	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	78	16565	0.9530	
96 1,3,5-Trimethylbenzene	105	9.510	9.511	-0.001	68	60905	1.03	
104 4-Chlorotoluene	126	9.546	9.546	0.0	81	19246	1.03	
97 tert-Butylbenzene	119	9.842	9.842	0.0	68	57799	1.14	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	45	63662	1.04	
99 sec-Butylbenzene	105	10.055	10.055	0.0	74	108942	1.50	
100 1,3-Dichlorobenzene	146	10.185	10.173	0.012	79	37889	1.03	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	76	86969	1.40	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	63	35981	0.9495	
103 1,2,3-Trimethylbenzene	105		10.303					9
105 n-Butylbenzene	91	10.599	10.599	0.0	88	93873	1.68	
106 1,2-Dichlorobenzene	146	10.635	10.635	-0.001	79	34446	0.9067	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	1	3606	0.9235	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	72	22299	0.9439	
109 1,2,4-Trichlorobenzene	180	12.232	12.244	-0.012	70	41076	1.89	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	70	18132	1.89	
111 Naphthalene	128	12.492	12.492	0.0	78	62954	0.9717	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	72	36096	1.76	
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1				0		3.44	
S 11 1,2-Dichloroethene, Total	96				0		1.73	
S 9 1,3-Dichloropropene, Total	75				0		1.69	
S 114 Xylenes, Total	106				0		2.63	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

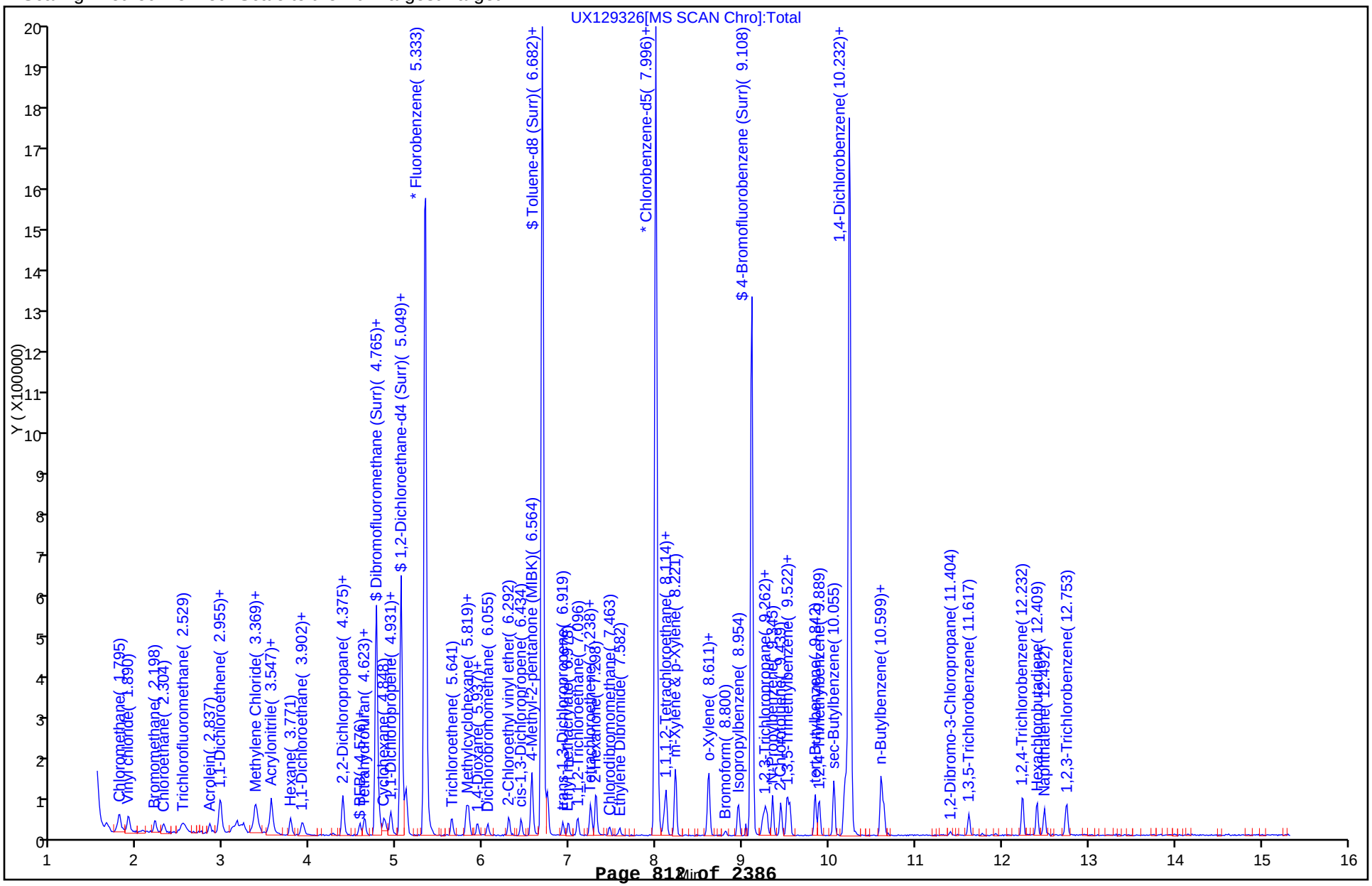
Report Date: 29-Mar-2013 09:09:33 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129326.D

Injection Date:	28-Mar-2013 14:26:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	14
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-80302/5

Matrix: Solid Lab File ID: 141705.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/02/2013 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 80302 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	0.00833	J	0.010	0.00050	0.00057
67-64-1	Acetone	0.0129		0.010	0.0010	0.0011
71-43-2	Benzene	0.00449		0.0010	0.00025	0.00013
75-25-2	Bromoform	0.00535		0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.00550		0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.00561		0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.00357		0.0010	0.00025	0.00013
75-34-3	1,1-Dichloroethane	0.00432		0.0010	0.00025	0.00015
108-90-7	Chlorobenzene	0.00439		0.0010	0.00025	0.00015
107-06-2	1,2-Dichloroethane	0.00457		0.0010	0.00025	0.00022
74-87-3	Chloromethane	0.00508		0.0010	0.00050	0.00030
75-35-4	1,1-Dichloroethene	0.00432		0.0010	0.00025	0.00019
10061-01-5	cis-1,3-Dichloropropene	0.00382		0.0010	0.00025	0.00014
540-59-0	1,2-Dichloroethene, Total	0.00887		0.0020	0.00050	0.00034
124-48-1	Dibromochloromethane	0.00576		0.0010	0.00025	0.00018
78-87-5	1,2-Dichloropropane	0.00461		0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.00379		0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.00465		0.0010	0.00025	0.00017
591-78-6	2-Hexanone	0.00795	J	0.010	0.00050	0.00041
75-09-2	Methylene Chloride	0.00939	^	0.0010	0.00050	0.00033
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00813	J	0.010	0.00050	0.00032
100-42-5	Styrene	0.00411		0.0010	0.00025	0.00011
79-34-5	1,1,2,2-Tetrachloroethane	0.00425		0.0010	0.00025	0.00018
127-18-4	Tetrachloroethene	0.00465		0.0010	0.00050	0.00029
108-88-3	Toluene	0.00461		0.0010	0.00025	0.00013
67-66-3	Chloroform	0.00427		0.0010	0.00025	0.00016
10061-02-6	trans-1,3-Dichloropropene	0.00363		0.0010	0.00025	0.00019
71-55-6	1,1,1-Trichloroethane	0.00407		0.0010	0.00025	0.00022
74-97-5	Bromochloromethane	0.00445		0.0010	0.00050	0.00029
79-00-5	1,1,2-Trichloroethane	0.00451		0.0010	0.00050	0.00027
106-93-4	1,2-Dibromoethane	0.00422		0.0010	0.00025	0.00024
79-01-6	Trichloroethene	0.00440		0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.00487		0.0010	0.00025	0.00022
75-00-3	Chloroethane	0.00507		0.0010	0.0050	0.00029
1330-20-7	Xylenes, Total	0.00879		0.0020	0.00075	0.00028

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-80302/5

Matrix: Solid Lab File ID: 141705.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/02/2013 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 80302 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		50-150
2037-26-5	Toluene-d8 (Surr)	99		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150
1868-53-7	Dibromofluoromethane (Surr)	91		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141705.D
Lims ID: QCMRL Client ID:
Inject. Date: 02-Apr-2013 15:38:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: qcmrl
Misc. Info.: 240-0018475-005 =240-0018475-005
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 80302 Lims Sample ID: 5
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 02-Apr-2013 16:04:34

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	99	1254745	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	818251	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	371725	50.0	
$ 4 BFB	95	4.376	4.502	-0.126	0	1338	0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.258	0.0	65	304436	45.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	95	359899	49.3	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1233056	49.6	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	91	392418	48.5	
133 Benzyl chloride	126		0.000					
136 Hexachloroethane TIC	1		0.000					
135 1,4-Dichlorobutane	1		0.000					
138 Butyl Methacrylate TIC	1		0.000					
134 Chlorodifluoromethane TIC	1		0.000					
142 1,3-Diethylbenzene TIC	1		0.000					
141 Isobutylene TIC	1		0.000					
143 1,3-Butadiene TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	97	38561	5.38	
13 Chloromethane	50	1.643	1.643	0.0	100	47000	5.08	
14 Vinyl chloride	62	1.773	1.761	0.012	97	36297	4.87	
15 Bromomethane	94	2.116	2.104	0.012	89	13447	5.50	
16 Chloroethane	64	2.223	2.222	0.0	87	17587	5.07	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	95	51965	5.14	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	97	47969	5.04	
19 Ethyl ether	59	2.921	2.921	0.0	97	24048	4.25	
25 Methylal	45	2.932	2.932	0.0	69	23928	0	
20 Acrolein	56	3.086	3.086	0.0	94	32259	40.4	
21 1,1-Dichloroethene	96	3.205	3.205	0.0	95	24892	4.32	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.252	3.240	0.012	86	19878	3.93	
22 Acetone	43	3.311	3.311	0.0	98	30964	12.9	
24 Iodomethane	142	3.406	3.394	0.012	97	39814	4.24	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
26 Carbon disulfide	76	3.477	3.477	0.0	98	45960	5.61	
27 Acetonitrile	41	3.749	3.725	0.024	71	46651	69.4	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	84	11689	3.44	
28 Methyl acetate	43	3.832	3.820	0.012	97	92171	21.5	
30 Methylene Chloride	84	3.950	3.950	0.0	98	63496	9.39	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	85	17377	40.7	
32 Acrylonitrile	53	4.364	4.364	0.0	98	86043	41.6	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	29819	4.50	
34 Methyl tert-butyl ether	73	4.412	4.412	0.0	90	61589	4.12	
35 Hexane	86	4.802	4.802	0.0	96	8380	4.62	
36 1,1-Dichloroethane	63	4.980	4.980	0.0	96	53520	4.32	
37 Vinyl acetate	86	5.098	5.098	0.0	97	3413	3.51	
39 2-Chloro-1,3-butadiene	53		5.098					
38 Isopropyl ether	87		5.122					9
40 Tert-butyl ethyl ether	59		5.571					9
61 Ethyl acrylate	55		5.605					
43 2,2-Dichloropropane	77	5.701	5.701	0.0	68	23292	4.00	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	83	31207	4.37	
41 2-Butanone (MEK)	43	5.761	5.749	0.012	83	21264	8.33	
44 Propionitrile	54		5.820					
45 Ethyl acetate	43		5.843					9
47 Chlorobromomethane	128	5.985	5.974	0.011	96	14245	4.45	
46 Methacrylonitrile	41		5.985					9
48 Tetrahydrofuran	42	6.033	6.033	0.0	84	14194	8.14	
49 Chloroform	83	6.092	6.080	0.012	95	45857	4.27	
50 1,1,1-Trichloroethane	97	6.258	6.258	0.0	89	33887	4.07	
51 Cyclohexane	56	6.317	6.317	0.0	94	56277	4.50	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	89	38473	4.48	
53 Carbon tetrachloride	117	6.435	6.435	0.0	72	28808	3.57	
54 Isobutyl alcohol	41	6.636	6.636	0.0	70	17565	101.0	
55 Benzene	78	6.648	6.648	0.0	98	119496	4.49	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	88	39135	4.57	
57 Tert-amyl methyl ether	73		6.790					
58 n-Heptane	100	6.944	6.944	0.0	80	9912	4.70	
80 Tetrahydrothiophene	60		7.255					9
59 n-Butanol	56		7.275					
60 Trichloroethene	130	7.287	7.287	0.0	93	34230	4.40	
63 Methylcyclohexane	83	7.464	7.464	0.0	96	52190	4.61	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	89	30693	4.61	
65 Dibromomethane	93	7.606	7.606	0.0	91	13220	4.20	
64 Methyl methacrylate	41		7.618					9
66 1,4-Dioxane	88	7.630	7.630	0.0	62	3518	73.9	
67 Dichlorobromomethane	83	7.760	7.760	0.0	94	21996	3.79	
68 2-Nitropropane	41		7.962					
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	91	19739	7.81	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.0	86	26569	3.82	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.293	0.012	98	40390	8.13	
72 Toluene	91	8.458	8.458	0.0	93	127039	4.61	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	96	18456	3.63	
74 Ethyl methacrylate	69	8.731	8.731	0.0	89	20576	3.75	
75 1,1,2-Trichloroethane	97	8.802	8.802	0.0	94	19113	4.51	
77 Tetrachloroethene	164	8.932	8.932	0.0	97	26396	4.65	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
76 1,3-Dichloropropane	76	8.944	8.944	0.0	95	33957	4.48	
78 2-Hexanone	43	9.015	9.015	0.0	93	26204	7.95	
132 n-Butyl acetate	43		9.121					
79 Chlorodibromomethane	129	9.145	9.145	0.0	85	12343	5.76	
123 Ethylene Dibromide	107	9.251	9.239	0.012	92	17221	4.22	
81 1-Chlorohexane	91		9.594					
82 Chlorobenzene	112	9.665	9.665	0.0	93	75024	4.39	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	83	19615	3.58	
84 Ethylbenzene	106	9.748	9.748	0.0	98	42927	4.65	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	98	51143	4.49	
85 o-Xylene	106	10.186	10.186	0.0	95	46321	4.30	
86 Styrene	104	10.198	10.198	0.0	88	68047	4.11	
87 Bromoform	173	10.364	10.364	0.0	87	5804	5.35	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	125884	4.43	
89 Cyclohexanone	55	10.577	10.588	-0.011	1	530	3.83	
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	97	18466	4.25	
91 Bromobenzene	156	10.766	10.766	0.0	90	29646	4.50	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.790	0.0	56	5330	3.79	
92 1,2,3-Trichloropropane	110	10.790	10.790	0.0	71	6835	4.63	
94 N-Propylbenzene	120	10.849	10.849	0.0	97	35928	4.58	
95 2-Chlorotoluene	126	10.920	10.920	0.0	95	31357	4.66	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	94	100508	4.48	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	30614	4.47	
97 tert-Butylbenzene	119	11.263	11.263	0.0	91	93461	4.42	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	75	101746	4.46	
99 sec-Butylbenzene	105	11.452	11.452	0.0	94	132556	4.55	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	84	58659	4.50	
101 4-Isopropyltoluene	119	11.571	11.570	0.0	74	109711	4.39	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	88	56941	4.34	
103 1,2,3-Trimethylbenzene	105	11.665	11.665	0.0	10	2388	0.1097	
105 n-Butylbenzene	91	11.914	11.914	0.0	95	94698	4.39	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	97	51409	4.30	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	42	2022	3.70	
108 1,3,5-Trichlorobenzene	180		12.778					9
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	92	34999	4.65	
110 Hexachlorobutadiene	225	13.405	13.405	0.0	92	18802	4.94	
111 Naphthalene	128	13.476	13.476	0.0	97	61261	4.18	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	95	29305	4.18	
113 2-Methylnaphthalene	142	14.339	14.339	0.0	83	13577	1.52	
A 140 C6-C10	1	7.589	3.915 - 11.263		0	9091783	0	
A 139 C6-C12	1	8.388	3.915 - 12.860		0	11032640	0	
S 137 Trihalomethanes, Total	1				0		19.2	
S 11 1,2-Dichloroethene, Total	96				0		8.87	
S 9 1,3-Dichloropropene, Total	75				0		7.45	
S 114 Xylenes, Total	106				0		8.79	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

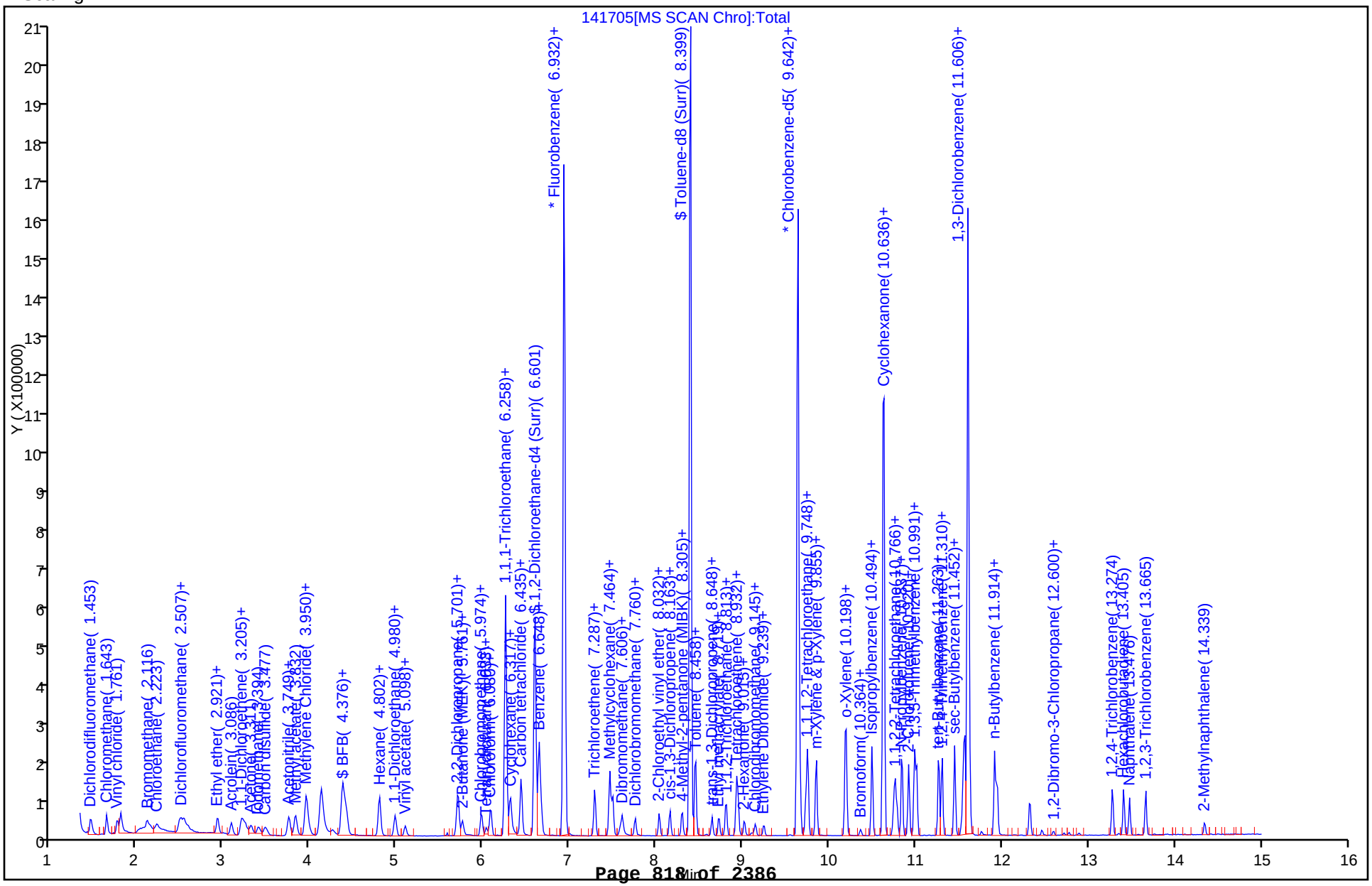
Report Date: 03-Apr-2013 14:23:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141705.D

Injection Date:	02-Apr-2013 15:38:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	5
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80302/31

Matrix: Solid | Lab File ID: 141731.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/03/2013 01:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 80302 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-93-3	2-Butanone (MEK)	0.00984	J	0.010	0.00050	0.00057
67-64-1	Acetone	0.0141	^	0.010	0.0010	0.0011
71-43-2	Benzene	0.00560		0.0010	0.00025	0.00013
75-25-2	Bromoform	0.00584		0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.00628		0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.00597		0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.00408		0.0010	0.00025	0.00013
75-34-3	1,1-Dichloroethane	0.00532		0.0010	0.00025	0.00015
108-90-7	Chlorobenzene	0.00547		0.0010	0.00025	0.00015
107-06-2	1,2-Dichloroethane	0.00574		0.0010	0.00025	0.00022
74-87-3	Chloromethane	0.00584		0.0010	0.00050	0.00030
75-35-4	1,1-Dichloroethene	0.00542		0.0010	0.00025	0.00019
10061-01-5	cis-1,3-Dichloropropene	0.00425		0.0010	0.00025	0.00014
540-59-0	1,2-Dichloroethene, Total	0.0107		0.0020	0.00050	0.00034
124-48-1	Dibromochloromethane	0.00612		0.0010	0.00025	0.00018
78-87-5	1,2-Dichloropropane	0.00551		0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.00432		0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.00546		0.0010	0.00025	0.00017
591-78-6	2-Hexanone	0.00999	J	0.010	0.00050	0.00041
75-09-2	Methylene Chloride	0.00791	^	0.0010	0.00050	0.00033
108-10-1	4-Methyl-2-pentanone (MIBK)	0.0104		0.010	0.00050	0.00032
100-42-5	Styrene	0.00493		0.0010	0.00025	0.00011
79-34-5	1,1,2,2-Tetrachloroethane	0.00597		0.0010	0.00025	0.00018
127-18-4	Tetrachloroethene	0.00565		0.0010	0.00050	0.00029
108-88-3	Toluene	0.00542		0.0010	0.00025	0.00013
67-66-3	Chloroform	0.00530		0.0010	0.00025	0.00016
10061-02-6	trans-1,3-Dichloropropene	0.00388		0.0010	0.00025	0.00019
71-55-6	1,1,1-Trichloroethane	0.00497		0.0010	0.00025	0.00022
74-97-5	Bromochloromethane	0.00518		0.0010	0.00050	0.00029
79-00-5	1,1,2-Trichloroethane	0.00564		0.0010	0.00050	0.00027
106-93-4	1,2-Dibromoethane	0.00486		0.0010	0.00025	0.00024
79-01-6	Trichloroethene	0.00549		0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.00587		0.0010	0.00025	0.00022
75-00-3	Chloroethane	0.00708	^	0.0010	0.0050	0.00029
1330-20-7	Xylenes, Total	0.0106		0.0020	0.00075	0.00028

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-80302/31

Matrix: Solid Lab File ID: 141731.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/03/2013 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 80302 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-150
2037-26-5	Toluene-d8 (Surr)	98		50-150
460-00-4	4-Bromofluorobenzene (Surr)	92		50-150
1868-53-7	Dibromofluoromethane (Surr)	91		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141731.D
Lims ID: qcmrl Client ID:
Inject. Date: 03-Apr-2013 01:12:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: qcmrl
Misc. Info.: 240-0018475-031 =240-0018475-031
Operator: 002808 Instrument ID: A3UX14
Purge Vol: 5.000 mL ALS Bottle#: 30
Lims Batch ID: 80302 Lims Sample ID: 31
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX14\20130402-18475.b\8260_14.m
Last Update: 03-Apr-2013 14:23:45 Calib Date: 01-Apr-2013 20:09:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20130401-18434.b\141682.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK035

First Level Reviewer: macenczaks Date: 03-Apr-2013 09:20:21

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	6.932	6.932	0.0	99	1054750	50.0	
* 2 Chlorobenzene-d5	117	9.642	9.642	0.0	95	694380	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.606	11.606	0.0	99	316483	50.0	
$ 4 BFB	95	4.388	4.502	-0.114	0	1842	0	
$ 5 Dibromofluoromethane (Surr)	113	6.258	6.258	0.0	75	255446	45.6	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	6.601	6.601	0.0	95	315646	51.7	
$ 7 Toluene-d8 (Surr)	98	8.399	8.399	0.0	93	1032890	48.9	
$ 131 4-Bromofluorobenzene (Surr)	95	10.624	10.624	0.0	92	320367	46.2	
133 Benzyl chloride	126		0.000					
136 Hexachloroethane TIC	1		0.000					
135 1,4-Dichlorobutane	1		0.000					
138 Butyl Methacrylate TIC	1		0.000					
134 Chlorodifluoromethane TIC	1		0.000					
142 1,3-Diethylbenzene TIC	1		0.000					
141 Isobutylene TIC	1		0.000					
143 1,3-Butadiene TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.453	1.453	0.0	96	36390	6.05	
13 Chloromethane	50	1.643	1.643	0.0	99	45467	5.84	
14 Vinyl chloride	62	1.761	1.761	0.0	99	36821	5.87	
15 Bromomethane	94	2.104	2.104	0.0	91	12916	6.28	
16 Chloroethane	64	2.223	2.222	0.0	96	20642	7.08	
17 Dichlorofluoromethane	67	2.495	2.495	0.0	93	55893	6.58	
18 Trichlorofluoromethane	101	2.542	2.542	0.0	96	50250	6.28	
19 Ethyl ether	59	2.921	2.921	0.0	97	27811	5.85	
25 Methylal	45	2.921	2.932	-0.011	69	25405	0	
20 Acrolein	56	3.086	3.086	0.0	94	30017	44.7	
21 1,1-Dichloroethene	96	3.205	3.205	0.0	94	26235	5.42	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.240	3.240	0.0	90	22006	5.17	
22 Acetone	43	3.311	3.311	0.0	96	27652	14.1	
24 Iodomethane	142	3.406	3.394	0.012	97	43036	5.46	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
26 Carbon disulfide	76	3.477	3.477	0.0	99	44041	5.97	
27 Acetonitrile	41	3.749	3.725	0.024	63	41485	73.4	
29 3-Chloro-1-propene	76	3.749	3.749	0.0	79	11340	3.97	
28 Methyl acetate	43	3.820	3.820	0.0	97	99509	27.6	
30 Methylene Chloride	84	3.950	3.950	0.0	98	44962	7.91	
31 2-Methyl-2-propanol	59	4.258	4.258	0.0	80	20170	56.1	
32 Acrylonitrile	53	4.364	4.364	0.0	97	91225	52.5	
33 trans-1,2-Dichloroethene	96	4.388	4.388	0.0	96	28862	5.18	
34 Methyl tert-butyl ether	73	4.412	4.412	0.0	91	65792	5.23	
35 Hexane	86	4.802	4.802	0.0	95	7818	5.13	
36 1,1-Dichloroethane	63	4.980	4.980	0.0	97	55358	5.32	
37 Vinyl acetate	86	5.098	5.098	0.0	97	2774	3.39	
39 2-Chloro-1,3-butadiene	53		5.098					
38 Isopropyl ether	87		5.122					
40 Tert-butyl ethyl ether	59		5.571					
61 Ethyl acrylate	55		5.605					9
43 2,2-Dichloropropane	77	5.701	5.701	0.0	76	21875	4.46	
42 cis-1,2-Dichloroethene	96	5.713	5.713	0.0	85	33300	5.55	
41 2-Butanone (MEK)	43	5.749	5.749	0.0	93	21104	9.84	
44 Propionitrile	54		5.820					
45 Ethyl acetate	43		5.843					
47 Chlorobromomethane	128	5.974	5.974	0.0	94	13930	5.18	
46 Methacrylonitrile	41		5.985					9
48 Tetrahydrofuran	42	6.033	6.033	0.0	87	14234	9.71	
49 Chloroform	83	6.092	6.080	0.012	96	47841	5.30	
50 1,1,1-Trichloroethane	97	6.258	6.258	0.0	85	34806	4.97	
51 Cyclohexane	56	6.317	6.317	0.0	95	57188	5.44	
52 1,1-Dichloropropene	75	6.435	6.435	0.0	90	38624	5.35	
53 Carbon tetrachloride	117	6.435	6.435	0.0	82	27701	4.08	
54 Isobutyl alcohol	41	6.636	6.636	0.0	87	22165	151.6	
55 Benzene	78	6.648	6.648	0.0	95	125179	5.60	
56 1,2-Dichloroethane	62	6.672	6.672	0.0	83	41331	5.74	
57 Tert-amyl methyl ether	73		6.790					
58 n-Heptane	100	6.944	6.944	0.0	81	9207	5.19	
80 Tetrahydrothiophene	60		7.255					9
59 n-Butanol	56		7.275					9
60 Trichloroethene	130	7.287	7.287	0.0	96	35890	5.49	
63 Methylcyclohexane	83	7.464	7.464	0.0	95	51540	5.41	
62 1,2-Dichloropropane	63	7.500	7.500	0.0	90	30826	5.51	
65 Dibromomethane	93	7.606	7.606	0.0	86	13653	5.16	
64 Methyl methacrylate	41		7.618					9
66 1,4-Dioxane	88	7.642	7.630	0.012	67	3676	91.8	
67 Dichlorobromomethane	83	7.760	7.760	0.0	92	21930	4.32	
68 2-Nitropropane	41		7.962					
69 2-Chloroethyl vinyl ether	63	8.032	8.032	0.0	91	17479	8.23	
70 cis-1,3-Dichloropropene	75	8.163	8.163	0.0	84	25777	4.25	
71 4-Methyl-2-pentanone (MIBK)	43	8.305	8.293	0.012	98	43944	10.4	
72 Toluene	91	8.458	8.458	0.0	93	126866	5.42	
73 trans-1,3-Dichloropropene	75	8.648	8.648	0.0	96	17102	3.88	
74 Ethyl methacrylate	69	8.731	8.731	0.0	88	21616	4.64	
75 1,1,2-Trichloroethane	97	8.802	8.802	0.0	89	20275	5.64	
77 Tetrachloroethene	164	8.932	8.932	0.0	96	27206	5.65	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
76 1,3-Dichloropropane	76	8.944	8.944	0.0	95	34544	5.38	
78 2-Hexanone	43	9.015	9.015	0.0	96	27952	10.0	
132 n-Butyl acetate	43		9.121					1
79 Chlorodibromomethane	129	9.145	9.145	0.0	88	12058	6.12	
123 Ethylene Dibromide	107	9.239	9.239	0.0	98	16834	4.86	
81 1-Chlorohexane	91		9.594					9
82 Chlorobenzene	112	9.665	9.665	0.0	94	79225	5.47	
83 1,1,1,2-Tetrachloroethane	131	9.736	9.736	0.0	84	20170	4.33	
84 Ethylbenzene	106	9.748	9.748	0.0	98	42792	5.46	
10 m-Xylene & p-Xylene	106	9.855	9.855	0.0	99	50460	5.22	
85 o-Xylene	106	10.186	10.186	0.0	94	48719	5.33	
86 Styrene	104	10.198	10.198	0.0	91	69279	4.93	
87 Bromoform	173	10.364	10.364	0.0	87	5911	5.84	
88 Isopropylbenzene	105	10.494	10.494	0.0	96	127200	5.27	
89 Cyclohexanone	55		10.588					
90 1,1,2,2-Tetrachloroethane	83	10.742	10.742	0.0	97	22087	5.97	
91 Bromobenzene	156	10.766	10.766	0.0	91	32442	5.78	
93 trans-1,4-Dichloro-2-butene	53	10.790	10.790	0.0	48	5975	4.99	
92 1,2,3-Trichloropropane	110	10.790	10.790	0.0	72	7789	6.20	
94 N-Propylbenzene	120	10.849	10.849	0.0	96	35592	5.33	
95 2-Chlorotoluene	126	10.920	10.920	0.0	96	31369	5.48	
96 1,3,5-Trimethylbenzene	105	10.991	10.991	0.0	93	101918	5.33	
104 4-Chlorotoluene	126	11.014	11.014	0.0	97	31685	5.43	
97 tert-Butylbenzene	119	11.275	11.263	0.012	89	97095	5.39	
98 1,2,4-Trimethylbenzene	105	11.310	11.310	0.0	72	102305	5.27	
99 sec-Butylbenzene	105	11.452	11.452	0.0	93	137214	5.54	
100 1,3-Dichlorobenzene	146	11.559	11.559	0.0	84	62436	5.63	
101 4-Isopropyltoluene	119	11.571	11.570	0.0	79	112495	5.29	
102 1,4-Dichlorobenzene	146	11.630	11.630	0.0	91	60033	5.38	
103 1,2,3-Trimethylbenzene	105		11.665					
105 n-Butylbenzene	91	11.914	11.914	0.0	97	94938	5.16	
106 1,2-Dichlorobenzene	146	11.949	11.949	0.0	97	60497	5.95	
107 1,2-Dibromo-3-Chloropropane	157	12.600	12.600	0.0	32	2258	4.95	
108 1,3,5-Trichlorobenzene	180		12.778					9
109 1,2,4-Trichlorobenzene	180	13.274	13.274	0.0	94	34787	5.43	
110 Hexachlorobutadiene	225	13.405	13.405	0.0	95	19119	5.90	
111 Naphthalene	128	13.476	13.476	0.0	97	69858	5.59	
112 1,2,3-Trichlorobenzene	180	13.665	13.665	0.0	96	33665	6.22	
113 2-Methylnaphthalene	142		14.339					9
A 140 C6-C10	1	7.589	3.915 - 11.263		0	8941146	0	
A 139 C6-C12	1	8.388	3.915 - 12.860		0	10391338	0	
S 137 Trihalomethanes, Total	1				0		21.6	
S 11 1,2-Dichloroethene, Total	96				0		10.7	
S 9 1,3-Dichloropropene, Total	75				0		8.13	
S 114 Xylenes, Total	106				0		10.6	

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

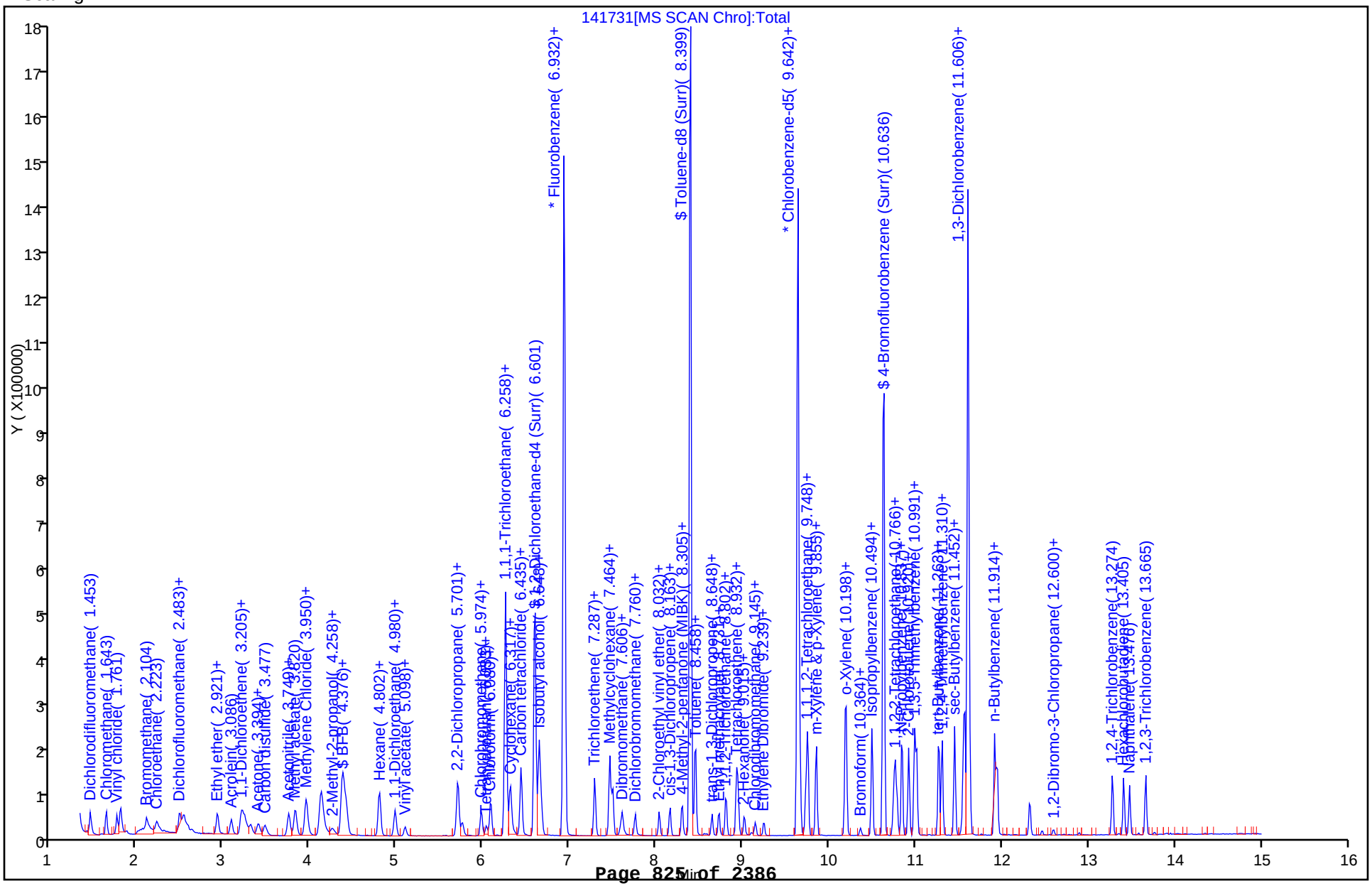
Report Date: 03-Apr-2013 14:23:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20130402-18475.b\141731.D

Injection Date:	03-Apr-2013 01:12:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX14
Lims Batch ID:	80302	Lims Sample ID:	31
Operator ID:	002808	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A3UX12 Start Date: 03/19/2013 17:39

Analysis Batch Number: 78761 End Date: 03/19/2013 21:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-78761/32		03/19/2013 17:39	1	BFB2145.D	DB-624 0.18(mm)
STD8260 240-78761/3 IC		03/19/2013 18:52	1	UX129104.D	DB-624 0.18(mm)
STD8260 240-78761/4 IC		03/19/2013 19:19	1	UX129105.D	DB-624 0.18(mm)
STD8260 240-78761/5 IC		03/19/2013 19:45	1	UX129106.D	DB-624 0.18(mm)
STD8260 240-78761/6 ICIS		03/19/2013 20:12	1	UX129107.D	DB-624 0.18(mm)
STD8260 240-78761/7 IC		03/19/2013 20:38	1	UX129108.D	DB-624 0.18(mm)
STD8260 240-78761/8 IC		03/19/2013 21:04	1	UX129109.D	DB-624 0.18(mm)
ICV 240-78761/9		03/19/2013 21:32	1	UX129110.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A3UX12 Start Date: 03/28/2013 08:11

Analysis Batch Number: 79725 End Date: 03/28/2013 15:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-79725/1		03/28/2013 08:11	1	BFB2151.D	DB-624 0.18(mm)
CCV 240-79725/2		03/28/2013 09:36	1	UX129315.D	DB-624 0.18(mm)
LCS 240-79725/4		03/28/2013 10:02	1	UX129316.D	DB-624 0.18(mm)
MRL 240-79725/5		03/28/2013 10:29	1	UX129317.D	DB-624 0.18(mm)
MB 240-79725/6		03/28/2013 10:55	1	UX129318.D	DB-624 0.18(mm)
ZZZZZ		03/28/2013 11:21	1		DB-624 0.18(mm)
ZZZZZ		03/28/2013 11:47	1		DB-624 0.18(mm)
240-22274-1	079SD-0194-0001-TB	03/28/2013 12:14	1	UX129321.D	DB-624 0.18(mm)
ZZZZZ		03/28/2013 12:40	1		DB-624 0.18(mm)
ZZZZZ		03/28/2013 13:07	1		DB-624 0.18(mm)
ZZZZZ		03/28/2013 13:33	1		DB-624 0.18(mm)
ZZZZZ		03/28/2013 13:59	1		DB-624 0.18(mm)
MRL 240-79725/14		03/28/2013 14:26	1	UX129326.D	DB-624 0.18(mm)
LODV 240-79725/16		03/28/2013 15:19	1	UX129328.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A3UX14 Start Date: 04/01/2013 13:20

Analysis Batch Number: 80127 End Date: 04/01/2013 21:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-80127/1		04/01/2013 13:20	1	BFB14383.D	DB-624 0.18(mm)
IC 240-80127/3		04/01/2013 14:03	1	141665.D	DB-624 0.18(mm)
IC 240-80127/4		04/01/2013 14:25	1	141666.D	DB-624 0.18(mm)
IC 240-80127/5		04/01/2013 14:46	1	141667.D	DB-624 0.18(mm)
ICIS 240-80127/6		04/01/2013 15:08	1	141668.D	DB-624 0.18(mm)
IC 240-80127/7		04/01/2013 15:29	1	141669.D	DB-624 0.18(mm)
IC 240-80127/8		04/01/2013 15:51	1	141670.D	DB-624 0.18(mm)
IC 240-80127/9		04/01/2013 16:12	1	141671.D	DB-624 0.18(mm)
IC 240-80127/10		04/01/2013 16:34	1	141672.D	DB-624 0.18(mm)
IC 240-80127/11		04/01/2013 16:55	1	141673.D	DB-624 0.18(mm)
IC 240-80127/12		04/01/2013 17:17	1		DB-624 0.18(mm)
IC 240-80127/13		04/01/2013 17:38	1		DB-624 0.18(mm)
IC 240-80127/14		04/01/2013 18:00	1		DB-624 0.18(mm)
IC 240-80127/15		04/01/2013 18:21	1		DB-624 0.18(mm)
IC 240-80127/16		04/01/2013 18:43	1		DB-624 0.18(mm)
IC 240-80127/17		04/01/2013 19:04	1		DB-624 0.18(mm)
IC 240-80127/18		04/01/2013 19:26	1		DB-624 0.18(mm)
IC 240-80127/19		04/01/2013 19:48	1		DB-624 0.18(mm)
IC 240-80127/20		04/01/2013 20:09	1		DB-624 0.18(mm)
ICV 240-80127/21		04/01/2013 20:31	1	141683.D	DB-624 0.18(mm)
ZZZZZ		04/01/2013 21:14	1		DB-624 0.18(mm)
ZZZZZ		04/01/2013 21:35	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A3UX14 Start Date: 04/02/2013 14:12

Analysis Batch Number: 80302 End Date: 04/03/2013 01:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-80302/1		04/02/2013 14:12	1	BFB14385.D	DB-624 0.18(mm)
CCV 240-80302/3		04/02/2013 14:55	1	141703.D	DB-624 0.18(mm)
CCV 240-80302/4		04/02/2013 15:17	1	141704.D	DB-624 0.18(mm)
MRL 240-80302/5		04/02/2013 15:38	1	141705.D	DB-624 0.18(mm)
LCS 240-80302/6		04/02/2013 16:00	1	141706.D	DB-624 0.18(mm)
MB 240-80302/7		04/02/2013 16:21	1	141707.D	DB-624 0.18(mm)
240-22274-2	079SD-0309-0001-SD	04/02/2013 16:58	1	141708.D	DB-624 0.18(mm)
ZZZZZ		04/02/2013 17:20	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 17:41	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 18:03	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 18:25	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 18:46	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 19:08	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 20:33	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 22:21	1		DB-624 0.18(mm)
ZZZZZ		04/02/2013 23:25	1		DB-624 0.18(mm)
ZZZZZ		04/03/2013 00:08	1		DB-624 0.18(mm)
ZZZZZ		04/03/2013 00:51	1		DB-624 0.18(mm)
MRL 240-80302/31		04/03/2013 01:12	1	141731.D	DB-624 0.18(mm)
MDLV 240-80302/32		04/03/2013 01:34	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79220 Batch Start Date: 03/22/13 23:27 Batch Analyst: Mancine, Louis

Batch Method: 5035 Batch End Date: 03/23/13 03:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
240-22274-C-2	079SD-0309-0001-SD	5035, 8260B/DoD	T	+030.206 g	35.73 g	5.524 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270C DOD

Semivolatile Compounds (GC/MS) by Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
079SD-0309-0001-SD	240-22274-2	65 M	65	56	60	85	60
	MB 240-80284/23-A	72	76	72	71	56	63
	LCS 240-80284/24-A	74	74	70	67	52	60

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl (Surr)	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Column to be used to flag recovery values

FORM II 8270C/DoD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
	MRL 240-80755/3	99	97	95	94	96	91
	MRL 240-80755/16	94	92	90	94	106	92

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	50-150
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Column to be used to flag recovery values

FORM II 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30405007.D

Lab ID: LCS 240-80284/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	508	76	45-110	
Acenaphthylene	667	527	79	45-105	
Anthracene	667	557	83	55-105	
Benzo[a]anthracene	667	570	86	50-110	
Benzo[a]pyrene	667	517	78	50-110	
Benzo[b]fluoranthene	667	593	89	45-115	
Benzo[g,h,i]perylene	667	550	82	40-125	
Benzoic acid	667	330 U	19	0-110	
Benzo[k]fluoranthene	667	504	76	45-125	
Benzyl alcohol	667	501	75	20-125	
Bis(2-chloroethoxy)methane	667	520	78	45-110	
Bis(2-chloroethyl)ether	667	502	75	40-105	
bis (2-chloroisopropyl) ether	667	516	77	20-115	
Bis(2-ethylhexyl) phthalate	667	551	83	45-125	
4-Bromophenyl phenyl ether	667	529	79	45-115	
Butyl benzyl phthalate	667	567	85	50-125	
Carbazole	667	546	82	45-115	
4-Chloroaniline	667	324	49	10-110	
4-Chloro-3-methylphenol	667	549	82	45-115	
2-Chloronaphthalene	667	500	75	45-105	
2-Chlorophenol	667	543	81	45-105	
4-Chlorophenyl phenyl ether	667	532	80	45-110	
Chrysene	667	583	88	55-110	
Dibenz(a,h)anthracene	667	548	82	40-125	
Dibenzofuran	667	531	80	50-105	
1,2-Dichlorobenzene	667	493	74	45-110	
1,3-Dichlorobenzene	667	478	72	40-100	
1,4-Dichlorobenzene	667	491	74	35-105	
3,3'-Dichlorobenzidine	667	359	54	10-130	
2,4-Dichlorophenol	667	522	78	45-110	
Diethyl phthalate	667	544	82	50-115	
2,4-Dimethylphenol	667	449	67	30-105	
Dimethyl phthalate	667	536	80	50-110	
Di-n-butyl phthalate	667	590	89	55-110	
4,6-Dinitro-2-methylphenol	667	521	78	30-135	
2,4-Dinitrophenol	667	361	54	15-130	
2,4-Dinitrotoluene	667	564	85	50-115	
2,6-Dinitrotoluene	667	549	82	50-110	
Di-n-octyl phthalate	667	594	89	40-130	
Fluoranthene	667	565	85	55-115	
Fluorene	667	527	79	50-110	
Hexachlorobenzene	667	516	77	45-120	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30405007.D

Lab ID: LCS 240-80284/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	667	500	75	40-115	
Hexachloroethane	667	488	73	35-110	
Indeno[1,2,3-cd]pyrene	667	535	80	40-120	
Isophorone	667	523	78	45-110	
2-Methylnaphthalene	667	500	75	45-105	
2-Methylphenol	667	521	78	40-105	
3 & 4 Methylphenol	1330	1050	79	40-105	
Naphthalene	667	523	78	40-105	
2-Nitroaniline	667	550	82	45-120	
3-Nitroaniline	667	475	71	25-110	
4-Nitroaniline	667	553	83	35-115	
Nitrobenzene	667	520	78	40-115	
2-Nitrophenol	667	539	81	40-110	
4-Nitrophenol	667	501	75	15-140	
N-Nitrosodi-n-propylamine	667	516	77	40-115	
N-Nitrosodiphenylamine	667	588	88	50-115	
Pentachlorophenol	667	420	63	25-120	
Phenanthrene	667	537	81	50-110	
Phenol	667	564	85	40-100	
Pyrene	667	568	85	45-125	
1,2,4-Trichlorobenzene	667	513	77	45-110	
2,4,5-Trichlorophenol	667	490	73	50-110	
2,4,6-Trichlorophenol	667	425	64	45-110	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30405003.D

Lab ID: MRL 240-80755/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.97	99	70-130	
Acenaphthylene	5.00	5.06	101	70-130	
Anthracene	5.00	5.01	100	70-130	
Benzo[a]anthracene	5.00	4.61	92	70-130	
Benzo[a]pyrene	5.00	4.79	96	70-130	
Benzo[b]fluoranthene	5.00	4.74	95	70-130	
Benzo[g,h,i]perylene	5.00	4.85	97	70-130	
Benzoic acid	10.0	8.72	87	70-130	
Benzo[k]fluoranthene	5.00	4.76	95	70-130	
Benzyl alcohol	5.00	4.92	98	70-130	
Bis(2-chloroethoxy)methane	5.00	4.97	99	70-130	
Bis(2-chloroethyl)ether	5.00	4.92	98	70-130	
bis (2-chloroisopropyl) ether	5.00	4.95	99	70-130	
Bis(2-ethylhexyl) phthalate	5.00	4.66	93	70-130	
4-Bromophenyl phenyl ether	5.00	5.00	100	70-130	
Butyl benzyl phthalate	5.00	4.75	95	70-130	
Carbazole	5.00	4.93	99	70-130	
4-Chloroaniline	5.00	4.74	95	70-130	
4-Chloro-3-methylphenol	5.00	4.98	100	70-130	
2-Chloronaphthalene	5.00	4.84	97	70-130	
2-Chlorophenol	5.00	5.03	101	70-130	
4-Chlorophenyl phenyl ether	5.00	4.91	98	70-130	
Chrysene	5.00	4.89	98	70-130	
Dibenz(a,h)anthracene	5.00	4.80	96	70-130	
Dibenzofuran	5.00	4.92	98	70-130	
1,2-Dichlorobenzene	5.00	5.07	101	70-130	
1,3-Dichlorobenzene	5.00	5.11	102	70-130	
1,4-Dichlorobenzene	5.00	5.10	102	70-130	
3,3'-Dichlorobenzidine	10.0	9.78	98	70-130	
2,4-Dichlorophenol	5.00	4.98	100	70-130	
Diethyl phthalate	5.00	4.89	98	70-130	
2,4-Dimethylphenol	5.00	5.07	101	70-130	
Dimethyl phthalate	5.00	4.92	98	70-130	
Di-n-butyl phthalate	5.00	5.16	103	70-130	
4,6-Dinitro-2-methylphenol	10.0	10.2	102	70-130	
2,4-Dinitrophenol	10.0	9.29	93	70-130	
2,4-Dinitrotoluene	5.00	5.12	102	70-130	
2,6-Dinitrotoluene	5.00	5.05	101	70-130	
Di-n-octyl phthalate	5.00	5.06	101	70-130	
Fluoranthene	5.00	4.91	98	70-130	
Fluorene	5.00	4.89	98	70-130	
Hexachlorobenzene	5.00	4.67	93	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30405003.D

Lab ID: MRL 240-80755/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	5.09	102	70-130	
Hexachloroethane	5.00	5.02	100	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.76	95	70-130	
Isophorone	5.00	5.06	101	70-130	
2-Methylnaphthalene	5.00	4.79	96	70-130	
2-Methylphenol	5.00	4.98	100	70-130	
3 & 4 Methylphenol	5.00	4.93	99	70-130	
Naphthalene	5.00	4.97	99	70-130	
2-Nitroaniline	5.00	5.07	101	70-130	
3-Nitroaniline	5.00	4.97	99	70-130	
4-Nitroaniline	5.00	5.01	100	70-130	
Nitrobenzene	5.00	5.06	101	70-130	
2-Nitrophenol	5.00	5.12	102	70-130	
4-Nitrophenol	10.0	10.1	101	70-130	
N-Nitrosodi-n-propylamine	5.00	4.92	98	70-130	
N-Nitrosodiphenylamine	10.0	9.57	96	70-130	
Pentachlorophenol	10.0	9.91	99	70-130	
Phenanthrene	5.00	4.82	96	70-130	
Phenol	5.00	5.06	101	70-130	
Pyrene	5.00	4.94	99	70-130	
1,2,4-Trichlorobenzene	5.00	4.94	99	70-130	
2,4,5-Trichlorophenol	5.00	4.83	97	70-130	
2,4,6-Trichlorophenol	5.00	4.79	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30405016.D

Lab ID: MRL 240-80755/16 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.83	97	70-130	
Acenaphthylene	5.00	4.91	98	70-130	
Anthracene	5.00	5.02	100	70-130	
Benzo[a]anthracene	5.00	4.75	95	70-130	
Benzo[a]pyrene	5.00	4.75	95	70-130	
Benzo[b]fluoranthene	5.00	4.60	92	70-130	
Benzo[g,h,i]perylene	5.00	4.92	98	70-130	
Benzoic acid	10.0	8.55	86	70-130	M
Benzo[k]fluoranthene	5.00	4.76	95	70-130	
Benzyl alcohol	5.00	4.57	91	70-130	
Bis(2-chloroethoxy)methane	5.00	4.94	99	70-130	
Bis(2-chloroethyl)ether	5.00	4.91	98	70-130	
bis (2-chloroisopropyl) ether	5.00	4.66	93	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.00	100	70-130	
4-Bromophenyl phenyl ether	5.00	4.99	100	70-130	
Butyl benzyl phthalate	5.00	5.06	101	70-130	
Carbazole	5.00	4.92	98	70-130	
4-Chloroaniline	5.00	4.82	96	70-130	
4-Chloro-3-methylphenol	5.00	4.93	99	70-130	
2-Chloronaphthalene	5.00	4.74	95	70-130	
2-Chlorophenol	5.00	4.84	97	70-130	
4-Chlorophenyl phenyl ether	5.00	5.03	101	70-130	
Chrysene	5.00	4.90	98	70-130	
Dibenz(a,h)anthracene	5.00	4.92	98	70-130	
Dibenzofuran	5.00	4.90	98	70-130	
1,2-Dichlorobenzene	5.00	4.83	97	70-130	
1,3-Dichlorobenzene	5.00	4.91	98	70-130	
1,4-Dichlorobenzene	5.00	4.95	99	70-130	
3,3'-Dichlorobenzidine	10.0	10.3	103	70-130	
2,4-Dichlorophenol	5.00	5.00	100	70-130	
Diethyl phthalate	5.00	4.97	99	70-130	
2,4-Dimethylphenol	5.00	4.98	100	70-130	
Dimethyl phthalate	5.00	4.91	98	70-130	
Di-n-butyl phthalate	5.00	5.27	105	70-130	
4,6-Dinitro-2-methylphenol	10.0	7.98	80	70-130	
2,4-Dinitrophenol	10.0	6.29	63	70-130	^
2,4-Dinitrotoluene	5.00	4.88	98	70-130	
2,6-Dinitrotoluene	5.00	4.96	99	70-130	
Di-n-octyl phthalate	5.00	5.24	105	70-130	
Fluoranthene	5.00	5.01	100	70-130	
Fluorene	5.00	4.96	99	70-130	
Hexachlorobenzene	5.00	4.80	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30405016.D

Lab ID: MRL 240-80755/16 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	5.14	103	70-130	
Hexachloroethane	5.00	4.52	90	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.82	96	70-130	
Isophorone	5.00	5.01	100	70-130	
2-Methylnaphthalene	5.00	4.87	97	70-130	
2-Methylphenol	5.00	4.83	97	70-130	
3 & 4 Methylphenol	5.00	4.67	93	70-130	
Naphthalene	5.00	4.99	100	70-130	
2-Nitroaniline	5.00	4.80	96	70-130	
3-Nitroaniline	5.00	4.90	98	70-130	
4-Nitroaniline	5.00	4.94	99	70-130	
Nitrobenzene	5.00	4.80	96	70-130	
2-Nitrophenol	5.00	4.73	95	70-130	
4-Nitrophenol	10.0	9.47	95	70-130	
N-Nitrosodi-n-propylamine	5.00	4.77	95	70-130	
N-Nitrosodiphenylamine	10.0	10.6	106	70-130	
Pentachlorophenol	10.0	10.6	106	70-130	
Phenanthrene	5.00	4.84	97	70-130	
Phenol	5.00	4.87	97	70-130	
Pyrene	5.00	4.93	99	70-130	
1,2,4-Trichlorobenzene	5.00	5.04	101	70-130	
2,4,5-Trichlorophenol	5.00	4.93	99	70-130	
2,4,6-Trichlorophenol	5.00	4.85	97	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: 30405006.D Lab Sample ID: MB 240-80284/23-A

Matrix: Solid Date Extracted: 04/02/2013 12:45

Instrument ID: A4HP9 Date Analyzed: 04/05/2013 13:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-80284/24-A	30405007.D	04/05/2013 13:24
079SD-0309-0001-SD	240-22274-2	30405015.D	04/05/2013 16:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: 30404001.D DFTPP Injection Date: 04/04/2013

Instrument ID: A4HP9 DFTPP Injection Time: 12:03

Analysis Batch No.: 80575

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	43.3	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	63.0	
70	Less than 2.0% of mass 69	0.2	(0.4)1
127	25.0 - 75.0% of mass 198	49.9	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.6	
275	10.0- 30.0% of mass 198	21.8	
365	Greater than 0.75% of mass 198	3.0	
441	Present, but less than mass 443	12.5	
442	40.0 - 110.0% of mass 198	74.0	
443	15.0 - 24.0% of mass 442	14.1	(19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-80575/2	30404002.D	04/04/2013	12:21
	STD4 240-80575/3	30403003.D	04/04/2013	12:47
	STD3 240-80575/4	30403004.D	04/04/2013	13:07
	STD2 240-80575/5	30403005.D	04/04/2013	13:27
	STD1 240-80575/6	30403006.D	04/04/2013	13:48
	STD9 240-80575/7	30403007.D	04/04/2013	14:08
	STD8 240-80575/8	30403008.D	04/04/2013	14:28
	STD7 240-80575/9	30403009.D	04/04/2013	14:49
	STD6 240-80575/10	30403010.D	04/04/2013	15:09
	ICV 240-80575/11	30403011.D	04/04/2013	15:36

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab File ID: 30405001.D DFTPP Injection Date: 04/05/2013

Instrument ID: A4HP9 DFTPP Injection Time: 11:04

Analysis Batch No.: 80755

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	49.4	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	69.4	
70	Less than 2.0% of mass 69	0.3	(0.5)1
127	25.0 - 75.0% of mass 198	52.0	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.8	
275	10.0- 30.0% of mass 198	21.0	
365	Greater than 0.75% of mass 198	2.8	
441	Present, but less than mass 443	10.4	
442	40.0 - 110.0% of mass 198	63.5	
443	15.0 - 24.0% of mass 442	11.8	(18.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-80755/2	30405002.D	04/05/2013	11:22
	MRL 240-80755/3	30405003.D	04/05/2013	11:46
	MB 240-80284/23-A	30405006.D	04/05/2013	13:03
	LCS 240-80284/24-A	30405007.D	04/05/2013	13:24
079SD-0309-0001-SD	240-22274-2	30405015.D	04/05/2013	16:06
	MRL 240-80755/16	30405016.D	04/05/2013	16:27
	mdll1	30405017.D	04/05/2013	16:47
	mdll2	30405018.D	04/05/2013	17:07
	mdll3	30405019.D	04/05/2013	17:28

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: STD6 240-80575/10 Date Analyzed: 04/04/2013 15:09

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 30403010.D Heated Purge: (Y/N) N

Calibration ID: 14380

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		380183	3.81	1678264	4.83	928383	6.30
UPPER LIMIT		760366	4.31	3356528	5.33	1856766	6.80
LOWER LIMIT		190092	3.31	839132	4.33	464192	5.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-80575/11		343535	3.81	1529827	4.84	823084	6.30
CCV 240-80755/2		384903	3.75	1652511	4.77	933659	6.24
MB 240-80284/23-A		303792	3.74	1310242	4.77	731043	6.24
LCS 240-80284/24-A		305624	3.75	1347108	4.77	770005	6.24
240-22274-2	079SD-0309-0001-SD	288812	3.75	1257354	4.77	733630	6.24

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: STD6 240-80575/10 Date Analyzed: 04/04/2013 15:09

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 30403010.D Heated Purge: (Y/N) N

Calibration ID: 14380

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1568919	7.56	1637382	9.81	1293431	11.37
UPPER LIMIT		3137838	8.06	3274764	10.31	2586862	11.87
LOWER LIMIT		784460	7.06	818691	9.31	646716	10.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-80575/11		1368725	7.56	1409640	9.81	1141914	11.37
CCV 240-80755/2		1591948	7.50	1643296	9.74	1284987	11.25
MB 240-80284/23-A		1247039	7.49	1249983	9.73	982436	11.24
LCS 240-80284/24-A		1303994	7.49	1314115	9.73	1040169	11.24
240-22274-2	079SD-0309-0001-SD	1327877	7.50	1389299	9.74	1204367	11.25

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C/DOD

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD | Lab Sample ID: 240-22274-2

Matrix: Solid | Lab File ID: 30405015.D

Analysis Method: 8270C/DoD | Date Collected: 03/20/2013 11:30

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.15(g) | Date Analyzed: 04/05/2013 16:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.5	U	9.0	4.5	4.5
208-96-8	Acenaphthylene	4.5	U	9.0	4.5	4.5
120-12-7	Anthracene	4.5	U	9.0	4.5	4.5
56-55-3	Benzo[a]anthracene	17		9.0	4.5	4.5
50-32-8	Benzo[a]pyrene	18		9.0	4.5	4.5
205-99-2	Benzo[b]fluoranthene	31		9.0	4.5	4.5
191-24-2	Benzo[g,h,i]perylene	14		9.0	4.5	4.5
65-85-0	Benzoic acid	450	U	890	450	450
207-08-9	Benzo[k]fluoranthene	11	M	9.0	4.5	4.5
100-51-6	Benzyl alcohol	36	U	450	36	28
111-91-1	Bis(2-chloroethoxy)methane	36	U	140	36	30
111-44-4	Bis(2-chloroethyl)ether	4.5	U	140	4.5	2.7
108-60-1	bis (2-chloroisopropyl) ether	36	U	140	36	13
117-81-7	Bis(2-ethylhexyl) phthalate	60	J B	68	36	26
101-55-3	4-Bromophenyl phenyl ether	36	U	68	36	18
85-68-7	Butyl benzyl phthalate	36	U	68	36	14
86-74-8	Carbazole	36	U	68	36	36
106-47-8	4-Chloroaniline	36	U	200	36	23
59-50-7	4-Chloro-3-methylphenol	36	U	200	36	28
91-58-7	2-Chloronaphthalene	4.5	U	68	4.5	4.5
95-57-8	2-Chlorophenol	36	U	68	36	36
7005-72-3	4-Chlorophenyl phenyl ether	36	U	68	36	18
218-01-9	Chrysene	23		9.0	4.5	1.5
53-70-3	Dibenz(a,h)anthracene	4.5	U	9.0	4.5	4.5
132-64-9	Dibenzofuran	4.5	U	68	4.5	4.5
95-50-1	1,2-Dichlorobenzene	36	U	68	36	13
541-73-1	1,3-Dichlorobenzene	36	U	68	36	15
106-46-7	1,4-Dichlorobenzene	36	U	68	36	27
91-94-1	3,3'-Dichlorobenzidine	110	U	140	110	24
120-83-2	2,4-Dichlorophenol	36	U	200	36	27
84-66-2	Diethyl phthalate	36	U	68	36	22
105-67-9	2,4-Dimethylphenol	110	U	200	110	27
131-11-3	Dimethyl phthalate	36	U	68	36	23
84-74-2	Di-n-butyl phthalate	36	U	68	36	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD | Lab Sample ID: 240-22274-2

Matrix: Solid | Lab File ID: 30405015.D

Analysis Method: 8270C/DoD | Date Collected: 03/20/2013 11:30

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.15(g) | Date Analyzed: 04/05/2013 16:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	110	U	200	110	110
51-28-5	2,4-Dinitrophenol	110	U	450	110	110
121-14-2	2,4-Dinitrotoluene	36	U	270	36	36
606-20-2	2,6-Dinitrotoluene	36	U	270	36	28
117-84-0	Di-n-octyl phthalate	36	U	68	36	36
206-44-0	Fluoranthene	43		9.0	4.5	4.5
86-73-7	Fluorene	4.5	U	9.0	4.5	4.5
118-74-1	Hexachlorobenzene	4.5	U	9.0	4.5	2.8
87-68-3	Hexachlorobutadiene	36	U	68	36	36
77-47-4	Hexachlorocyclopentadiene	36	U	450	36	36
67-72-1	Hexachloroethane	36	U	68	36	12
193-39-5	Indeno[1,2,3-cd]pyrene	13		9.0	4.5	4.5
78-59-1	Isophorone	36	U	68	36	18
91-57-6	2-Methylnaphthalene	7.2	J	9.0	4.5	4.5
95-48-7	2-Methylphenol	110	U	270	110	110
15831-10-4	3 & 4 Methylphenol	110	U	540	110	27
91-20-3	Naphthalene	5.4	J	9.0	4.5	4.5
88-74-4	2-Nitroaniline	36	U	270	36	12
99-09-2	3-Nitroaniline	110	U	270	110	22
100-01-6	4-Nitroaniline	36	U	270	36	35
98-95-3	Nitrobenzene	4.5	U	140	4.5	3.0
88-75-5	2-Nitrophenol	36	U	68	36	36
100-02-7	4-Nitrophenol	110	U	450	110	110
621-64-7	N-Nitrosodi-n-propylamine	36	U	68	36	36
86-30-6	N-Nitrosodiphenylamine	36	U	68	36	28
87-86-5	Pentachlorophenol	110	U	200	110	110
85-01-8	Phenanthrene	22		9.0	4.5	4.5
108-95-2	Phenol	36	U	68	36	36
129-00-0	Pyrene	34		9.0	4.5	4.5
120-82-1	1,2,4-Trichlorobenzene	36	U	68	36	36
95-95-4	2,4,5-Trichlorophenol	36	U	200	36	34
88-06-2	2,4,6-Trichlorophenol	110	U	200	110	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD | Lab Sample ID: 240-22274-2

Matrix: Solid | Lab File ID: 30405015.D

Analysis Method: 8270C/DoD | Date Collected: 03/20/2013 11:30

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.15(g) | Date Analyzed: 04/05/2013 16:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	60		45-105
367-12-4	2-Fluorophenol (Surr)	65	M	35-105
4165-60-0	Nitrobenzene-d5 (Surr)	56		35-100
4165-62-2	Phenol-d5 (Surr)	65		40-100
1718-51-0	Terphenyl-d14 (Surr)	60		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	85		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D
Lims ID: 240-22274-E-2-H Client ID: 079SD-0309-0001-SD
Inject. Date: 05-Apr-2013 16:06:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0018588-015
Misc. Info.: 240-22274-E-2-H =240-22274-E-2-H
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 80755 Lims Sample ID: 15
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 08-Apr-2013 11:07:16 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK007

First Level Reviewer: ulmanm Date: 08-Apr-2013 09:36:10

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.747	3.746	0.001	94	288812	4.00	
* 2 Naphthalene-d8	136	4.767	4.772	-0.005	99	1257354	4.00	
* 3 Acenaphthene-d10	164	6.236	6.236	0.0	86	733630	4.00	
* 4 Phenanthrene-d10	188	7.497	7.497	0.0	97	1327877	4.00	
* 5 Chrysene-d12	240	9.735	9.735	0.0	85	1389299	4.00	
* 6 Perylene-d12	264	11.247	11.247	0.0	92	1204367	4.00	
$ 7 2-Fluorophenol	112	2.780	2.763	0.017	94	1266624	9.72	M
$ 8 Phenol-d5	99	3.416	3.415	0.001	94	1811597	9.78	
$ 9 Nitrobenzene-d5	82	4.180	4.184	-0.004	85	1090759	5.62	
$ 10 2-Fluorobiphenyl (Surr)	172	5.649	5.654	-0.005	99	1337975	6.01	
$ 11 2,4,6-Tribromophenol	330	6.899	6.904	-0.005	84	295968	12.7	
$ 12 Terphenyl-d14	244	8.822	8.821	0.001	98	1642337	5.98	
43 Phenol	94		3.426					9
69 Bis(2-chloroethyl)ether	93		3.522					
46 2-Chlorophenol	128		3.586					9
47 1,3-Dichlorobenzene	146		3.709					9
48 1,4-Dichlorobenzene	146		3.762					9
49 Benzyl alcohol	108		3.832					
50 1,2-Dichlorobenzene	146		3.885					
51 2-Methylphenol	108		3.896					
53 2,2'-oxybis[1-chloropropane]	45		3.933					
21 3 & 4 Methylphenol	108		4.019					
57 N-Nitrosodi-n-propylamine	70		4.040					
61 Hexachloroethane	117		4.152					
62 Nitrobenzene	77		4.200					
64 Isophorone	82		4.382					
66 2-Nitrophenol	139		4.452					
65 2,4-Dimethylphenol	107		4.452					
71 Benzoic acid	122	4.468	4.521	-0.053	82	62777	2.00	
70 Bis(2-chloroethoxy)methane	93		4.537					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
73 2,4-Dichlorophenol	162		4.639					9
74 1,2,4-Trichlorobenzene	180		4.713					
75 Naphthalene	128	4.789	4.793	-0.004	1	17754	0.0597	
76 4-Chloroaniline	127		4.815					
79 Hexachlorobutadiene	225		4.874					
86 4-Chloro-3-methylphenol	107		5.194					9
87 2-Methylnaphthalene	142	5.355	5.360	-0.005	60	15389	0.0798	
89 Hexachlorocyclopentadiene	237		5.477					
92 2,4,6-Trichlorophenol	196		5.579					
93 2,4,5-Trichlorophenol	196		5.616					
100 2-Chloronaphthalene	162		5.771					9
102 2-Nitroaniline	65		5.841					9
105 Dimethyl phthalate	163		5.979					
107 2,6-Dinitrotoluene	165		6.038					
109 Acenaphthylene	152		6.124					
110 3-Nitroaniline	138		6.188					
112 Acenaphthene	153		6.268					9
111 2,4-Dinitrophenol	184		6.273					
113 4-Nitrophenol	109		6.300					
114 2,4-Dinitrotoluene	165		6.380					9
116 Dibenzofuran	168		6.412					
121 Diethyl phthalate	149		6.567					9
123 4-Chlorophenyl phenyl ether	204		6.685					
126 Fluorene	166		6.701					9
125 4-Nitroaniline	138		6.706					
128 4,6-Dinitro-2-methylphenol	198		6.722					
131 N-Nitrosodiphenylamine	169		6.781					
139 4-Bromophenyl phenyl ether	248		7.101					
141 Hexachlorobenzene	284		7.160					
143 Pentachlorophenol	266		7.320					9
148 Phenanthrene	178	7.513	7.518	-0.005	77	79172	0.2395	
149 Anthracene	178		7.561					
151 Carbazole	167		7.684					
154 Di-n-butyl phthalate	149		7.935					
159 Fluoranthene	202	8.523	8.522	0.001	78	166388	0.4764	
161 Pyrene	202	8.720	8.725	-0.005	93	139537	0.3803	
168 Butyl benzyl phthalate	149		9.211					
173 Bis(2-ethylhexyl) phthalate	149	9.666	9.671	-0.005	92	87391	0.6616	
175 3,3'-Dichlorobenzidine	252		9.687					
177 Benzo[a]anthracene	228	9.725	9.724	0.001	78	68535	0.1923	
178 Chrysene	228	9.757	9.762	-0.005	84	82273	0.2511	
180 Di-n-octyl phthalate	149		10.248					
182 Benzo[b]fluoranthene	252	10.777	10.782	-0.005	58	118758	0.3454	
183 Benzo[k]fluoranthene	252	10.804	10.814	-0.010	1	43883	0.1218	M
184 Benzo[a]pyrene	252	11.172	11.183	-0.011	65	63936	0.2006	
188 Indeno[1,2,3-cd]pyrene	276	12.882	12.887	-0.005	42	49511	0.1475	
189 Dibenz(a,h)anthracene	278		12.908					
190 Benzo[g,h,i]perylene	276	13.379	13.394	-0.015	81	43959	0.1593	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

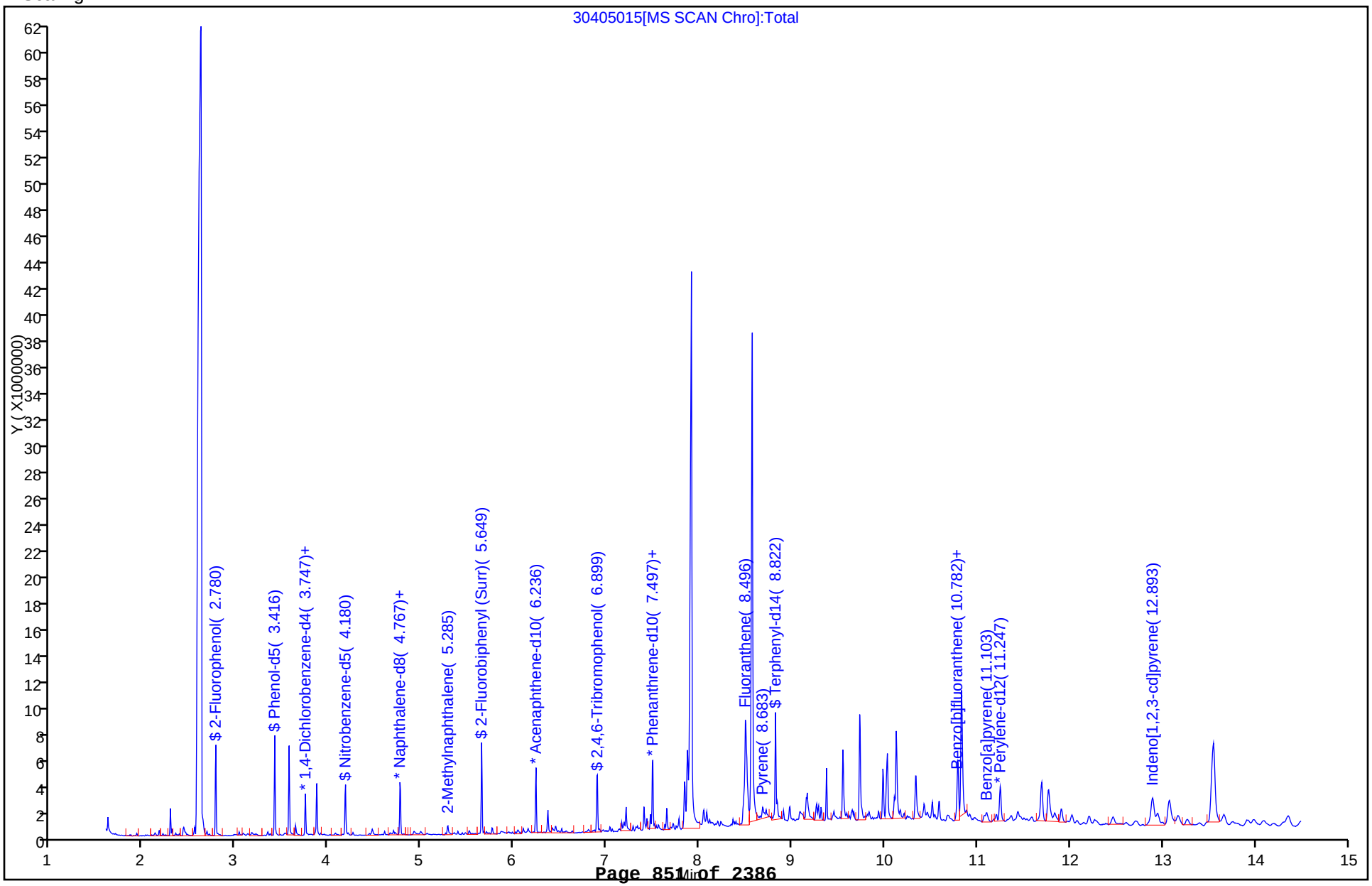
Report Date: 08-Apr-2013 11:07:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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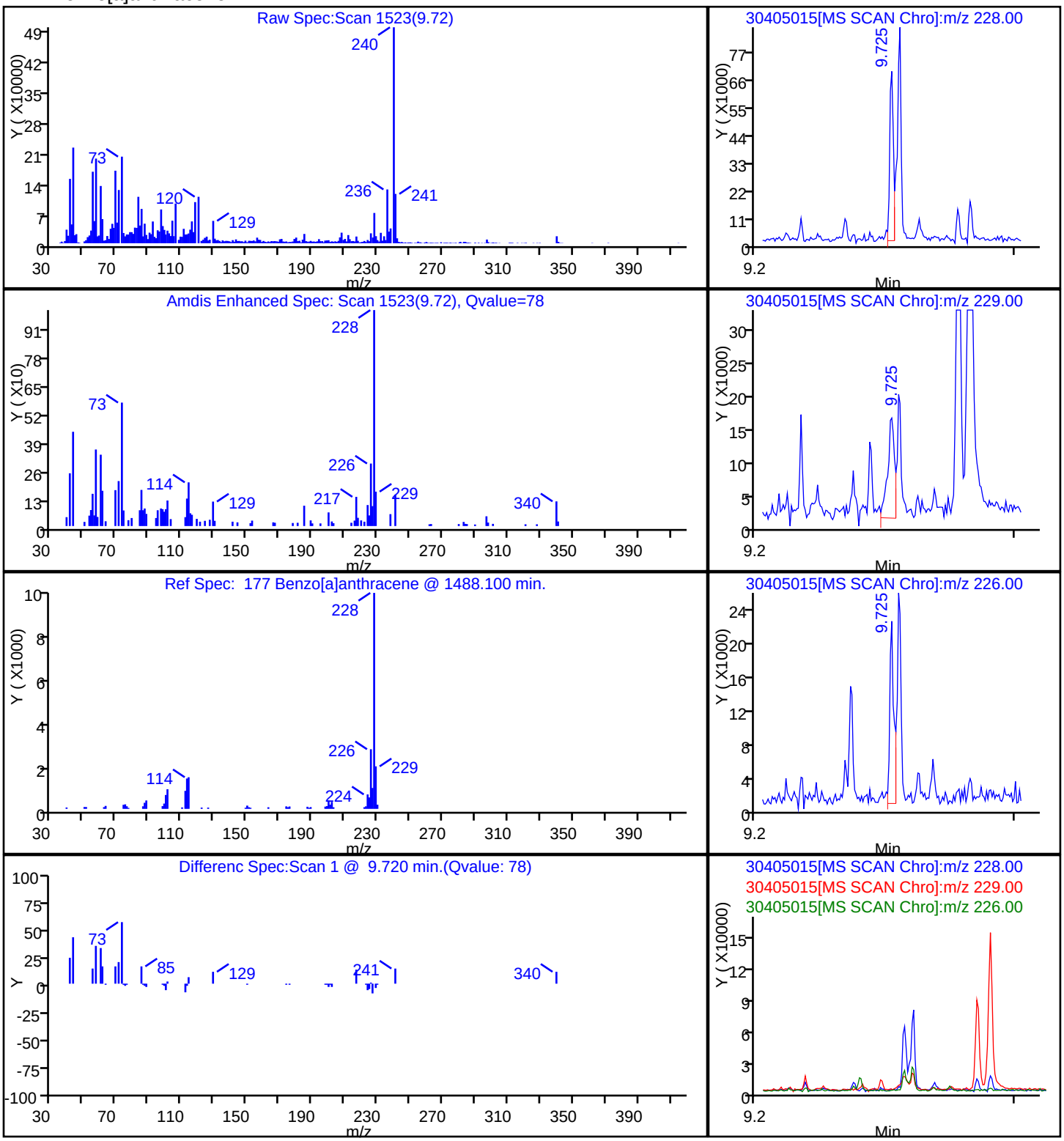
Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

177 Benzo[a]anthracene



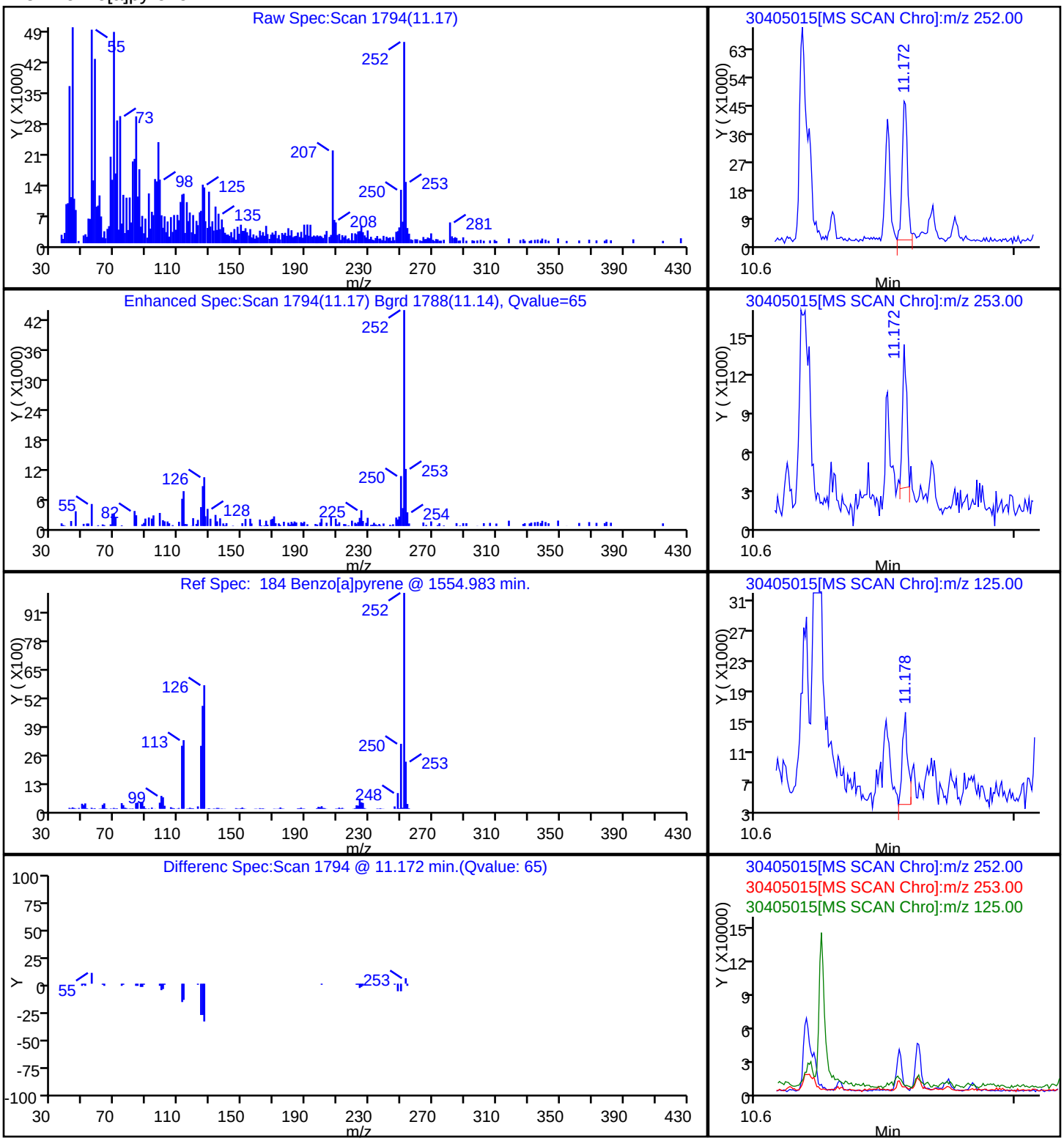
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[a]pyrene



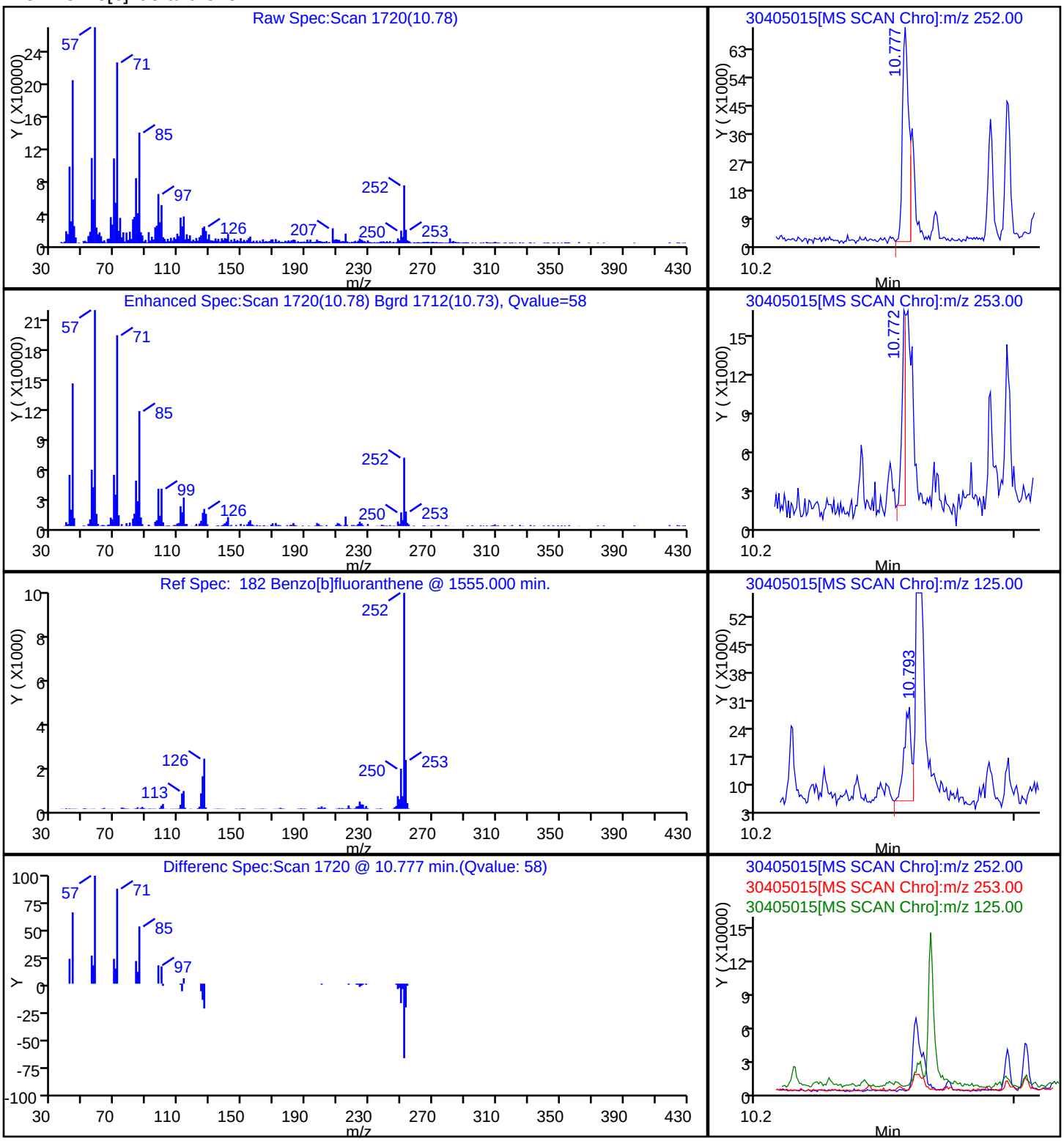
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

182 Benzo[b]fluoranthene



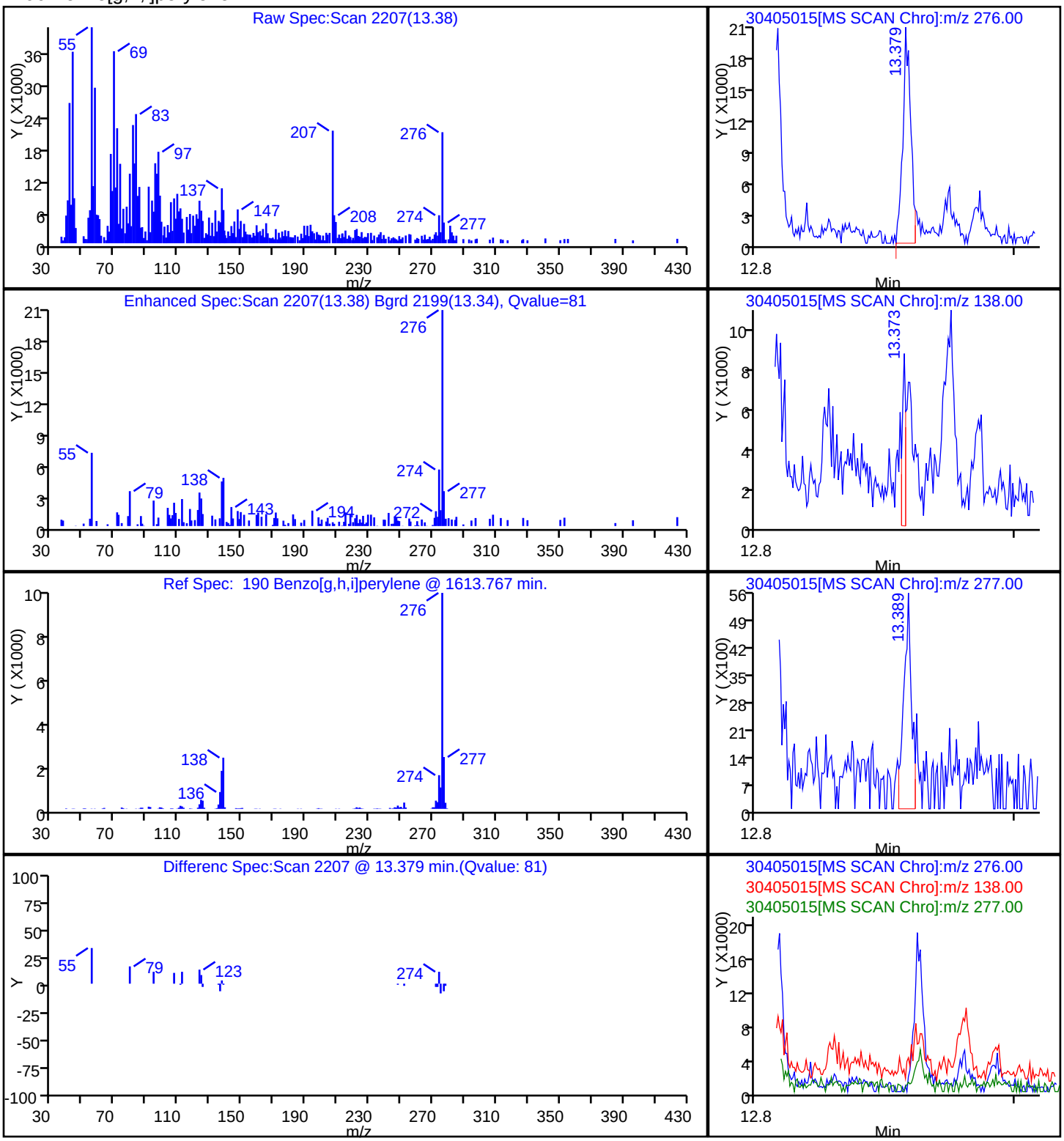
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Benzo[g,h,i]perylene



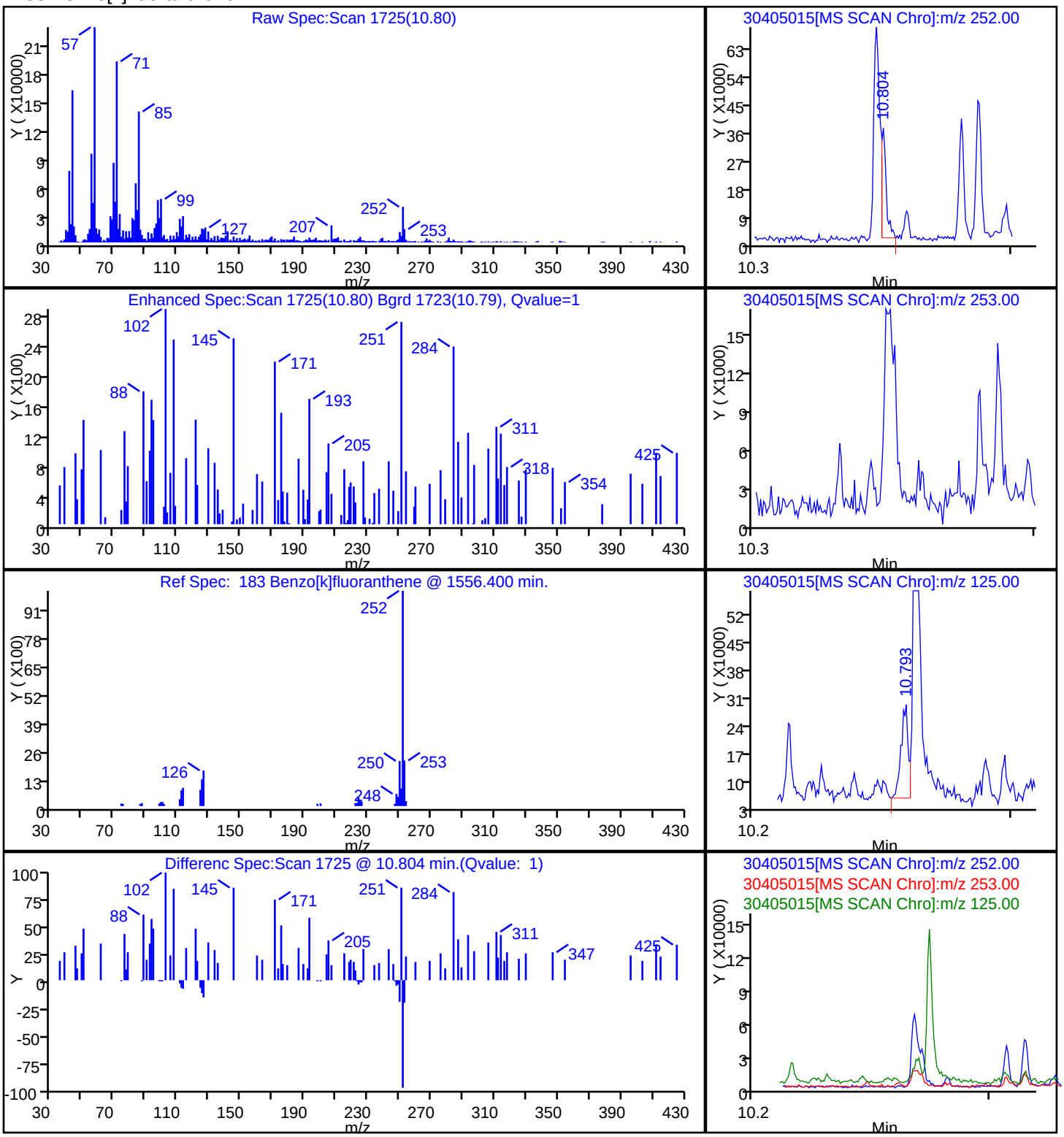
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

183 Benzo[k]fluoranthene



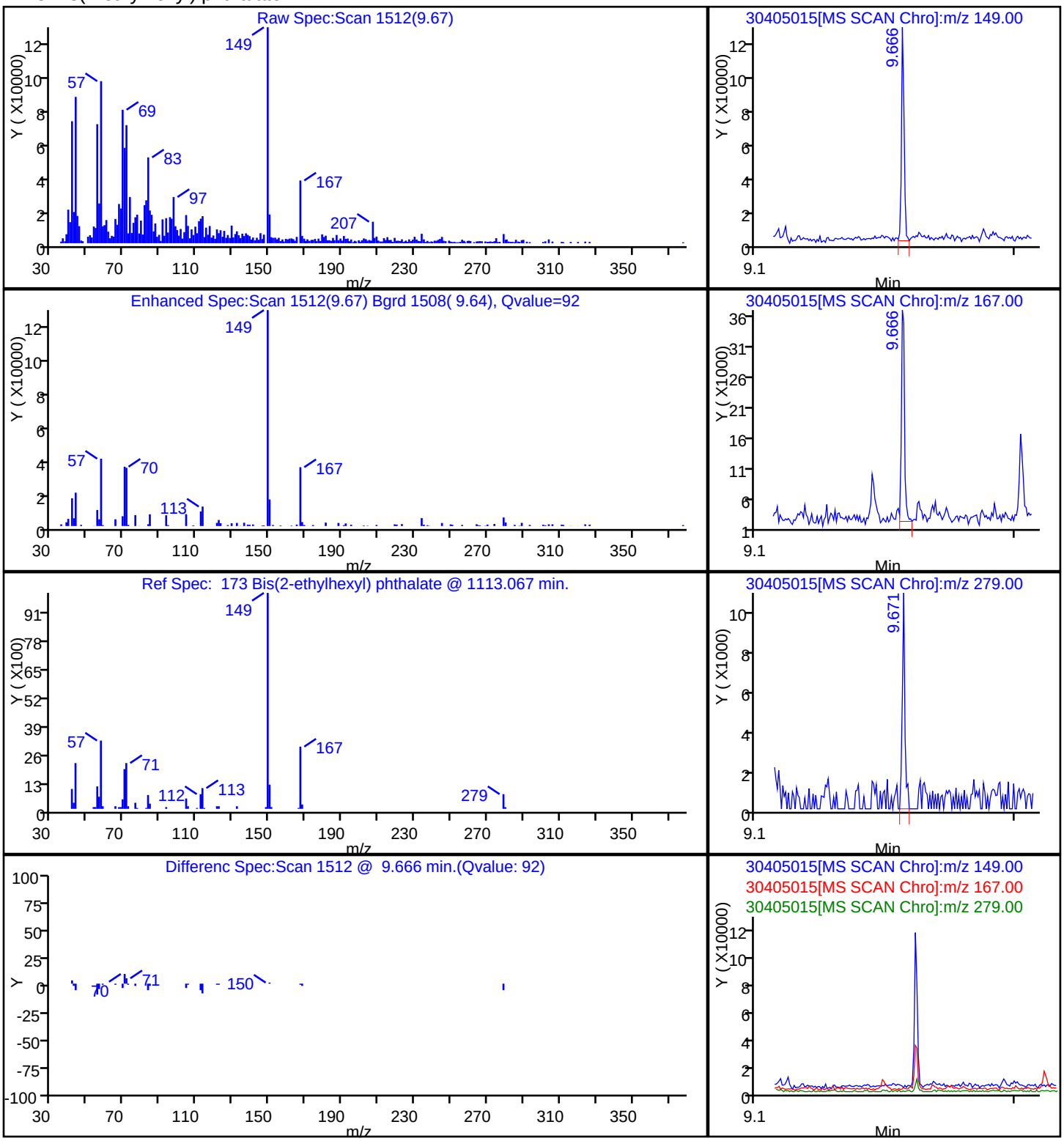
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

173 Bis(2-ethylhexyl) phthalate



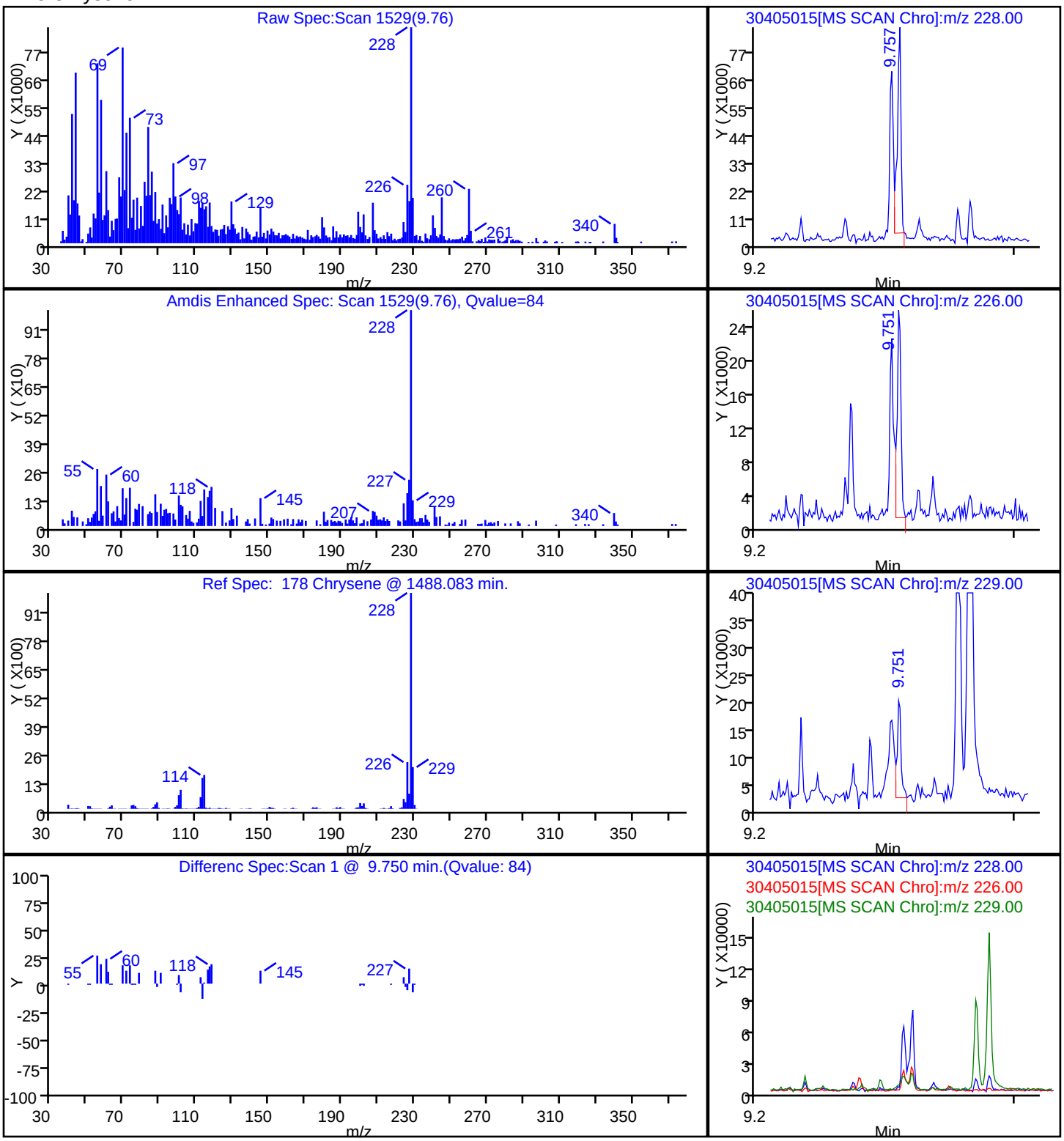
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

178 Chrysene



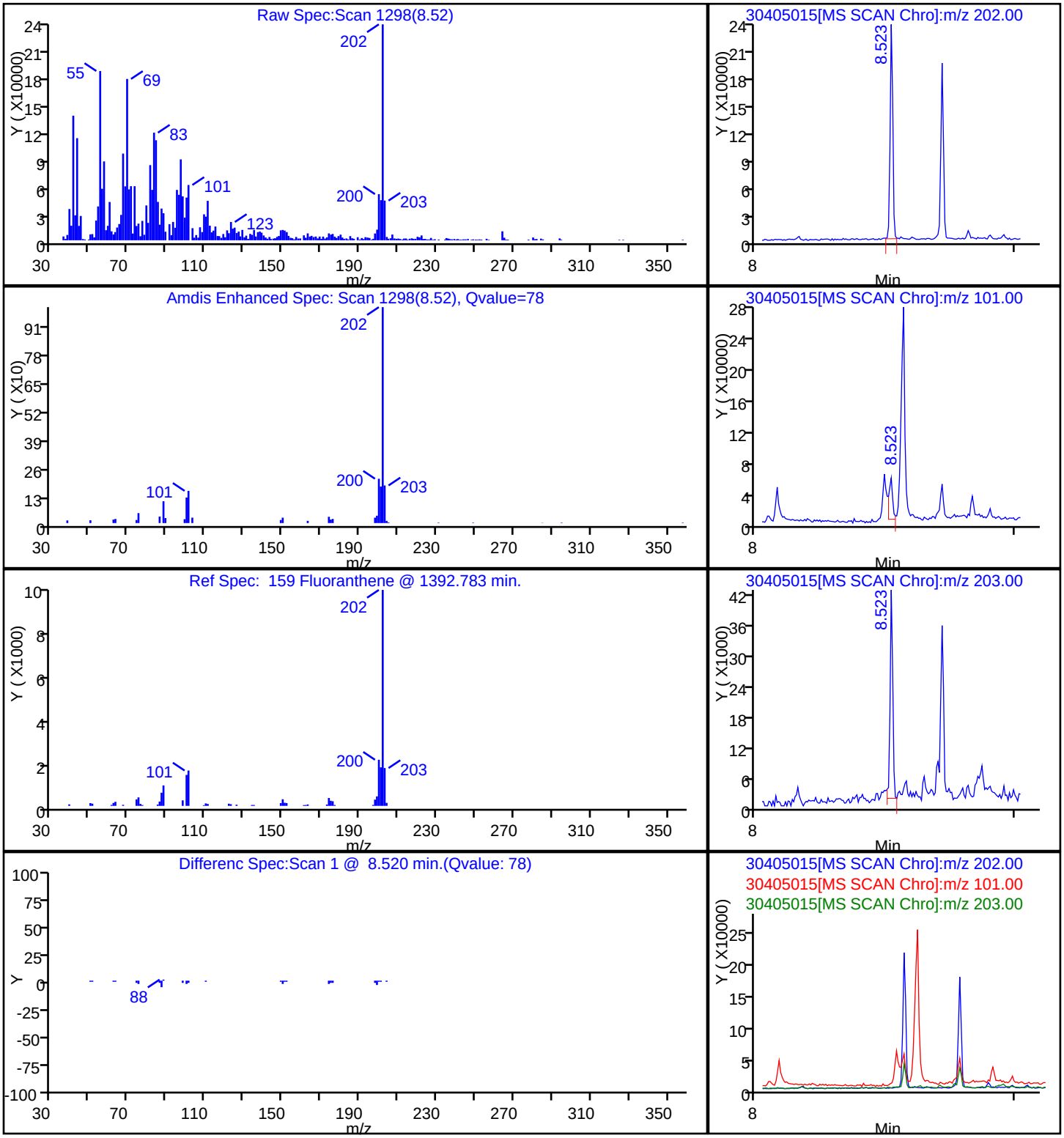
Report Date: 08-Apr-2013 11:07:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

159 Fluoranthene



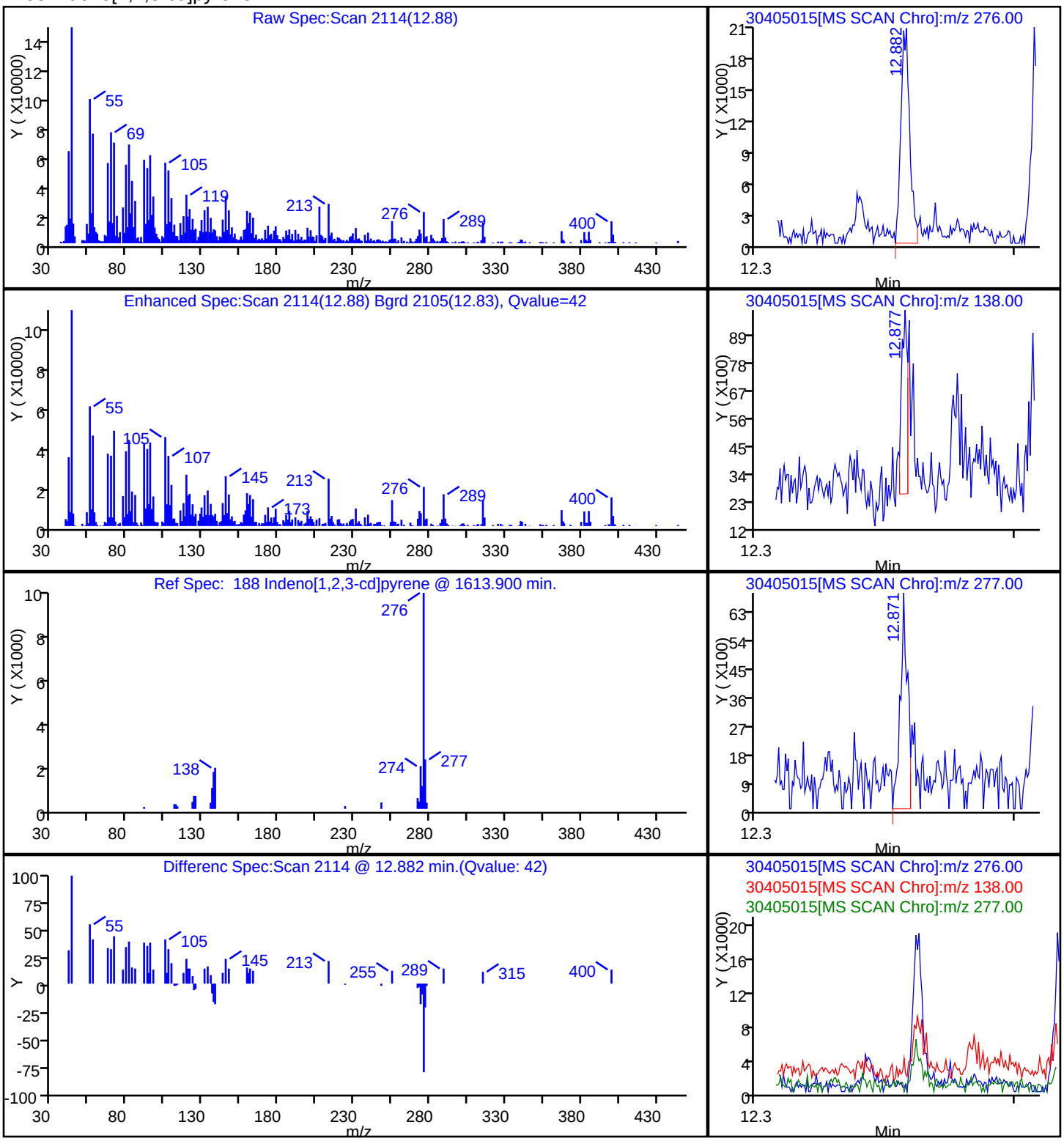
Report Date: 08-Apr-2013 11:07:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Indeno[1,2,3-cd]pyrene



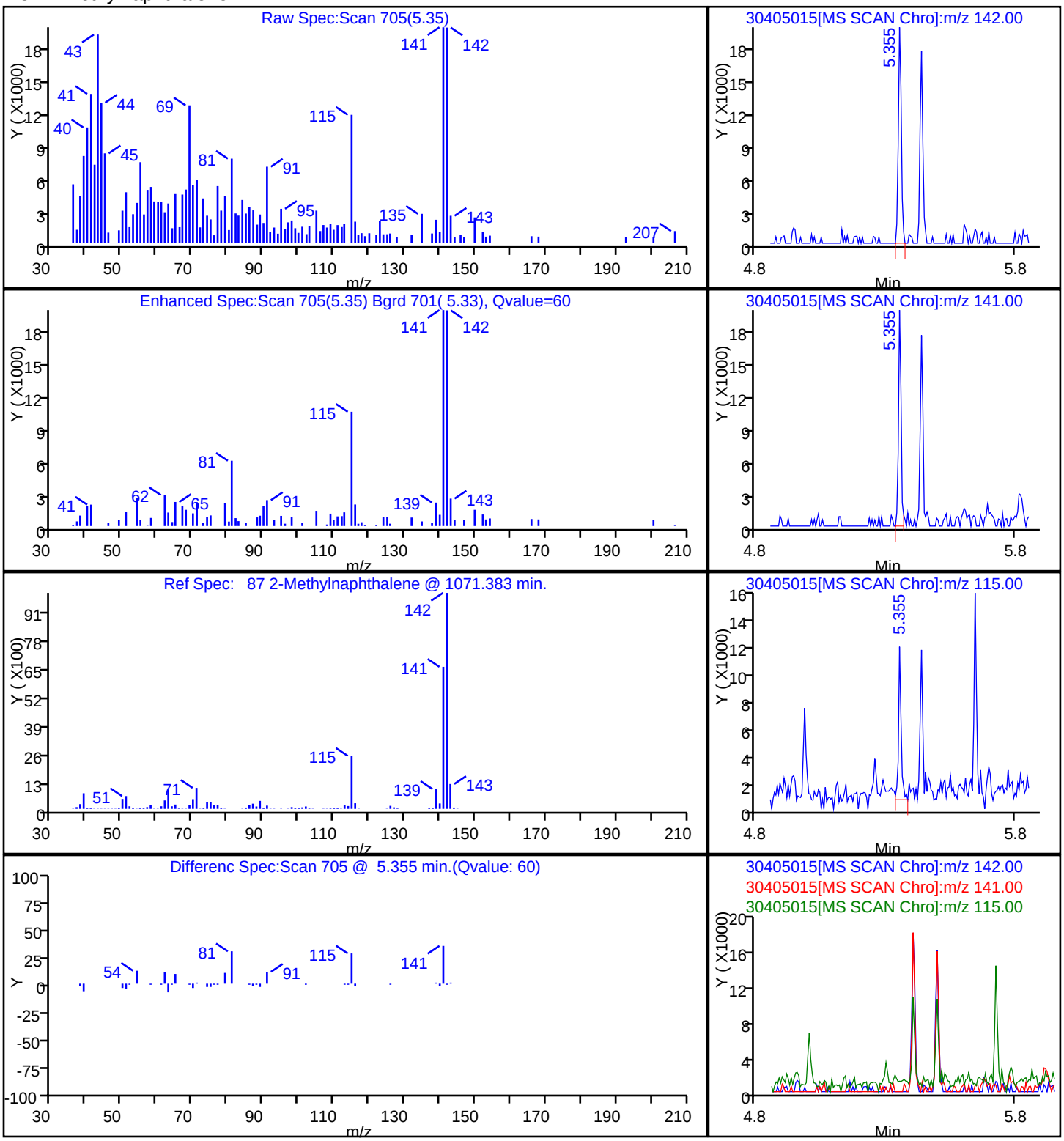
Report Date: 08-Apr-2013 11:07:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

87 2-Methylnaphthalene



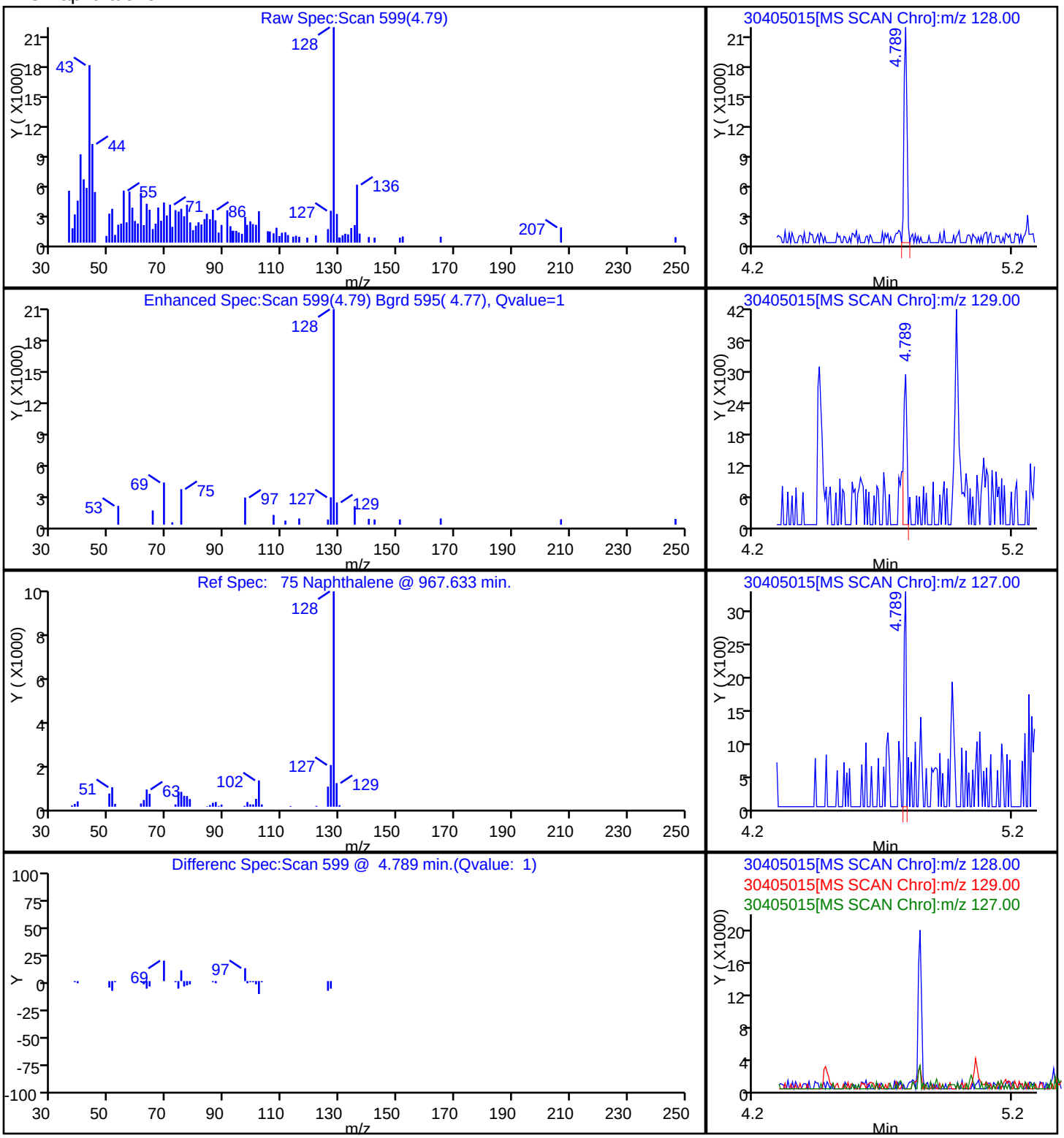
Report Date: 08-Apr-2013 11:07:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

75 Naphthalene



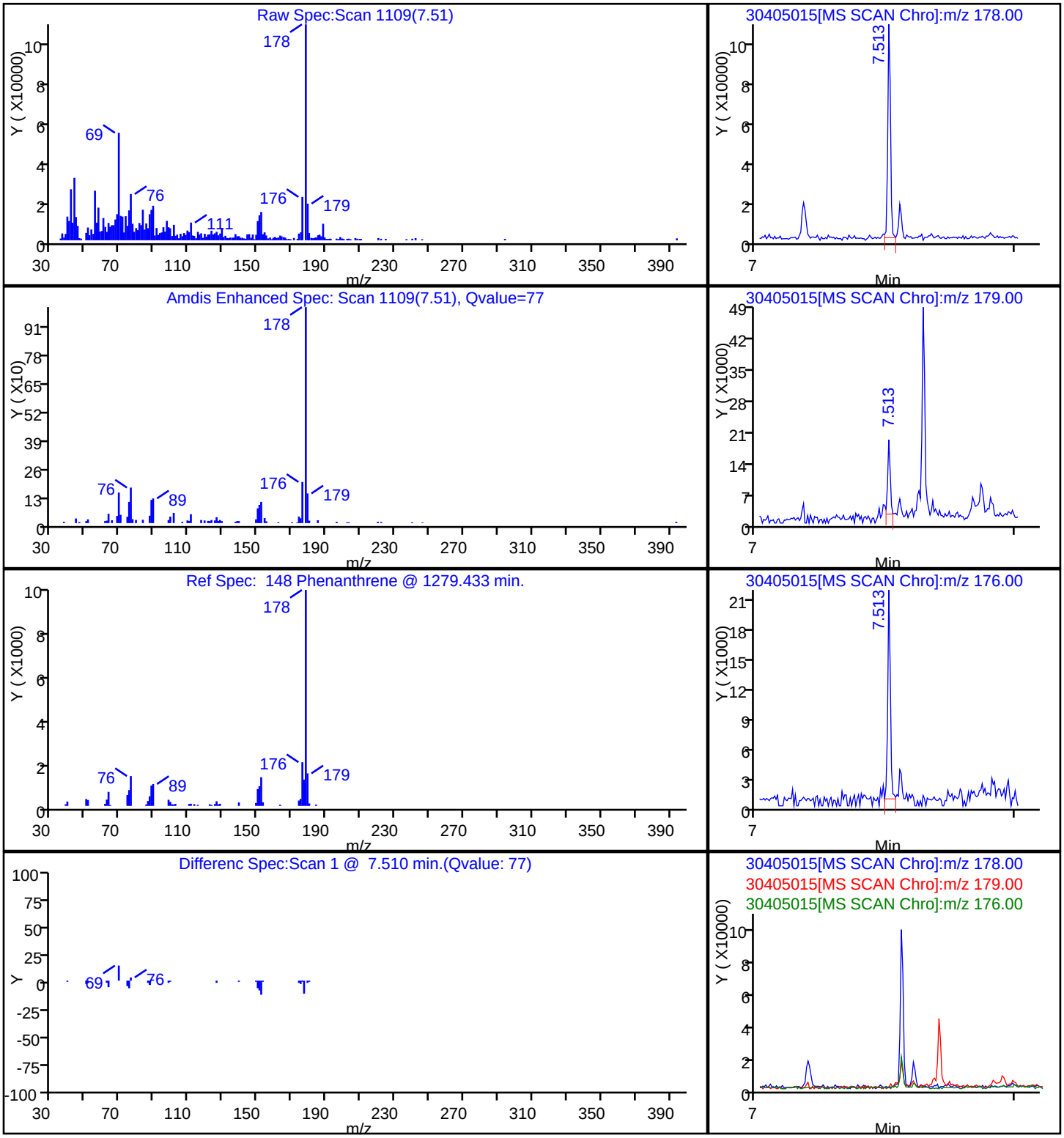
Report Date: 08-Apr-2013 11:07:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

148 Phenanthrene



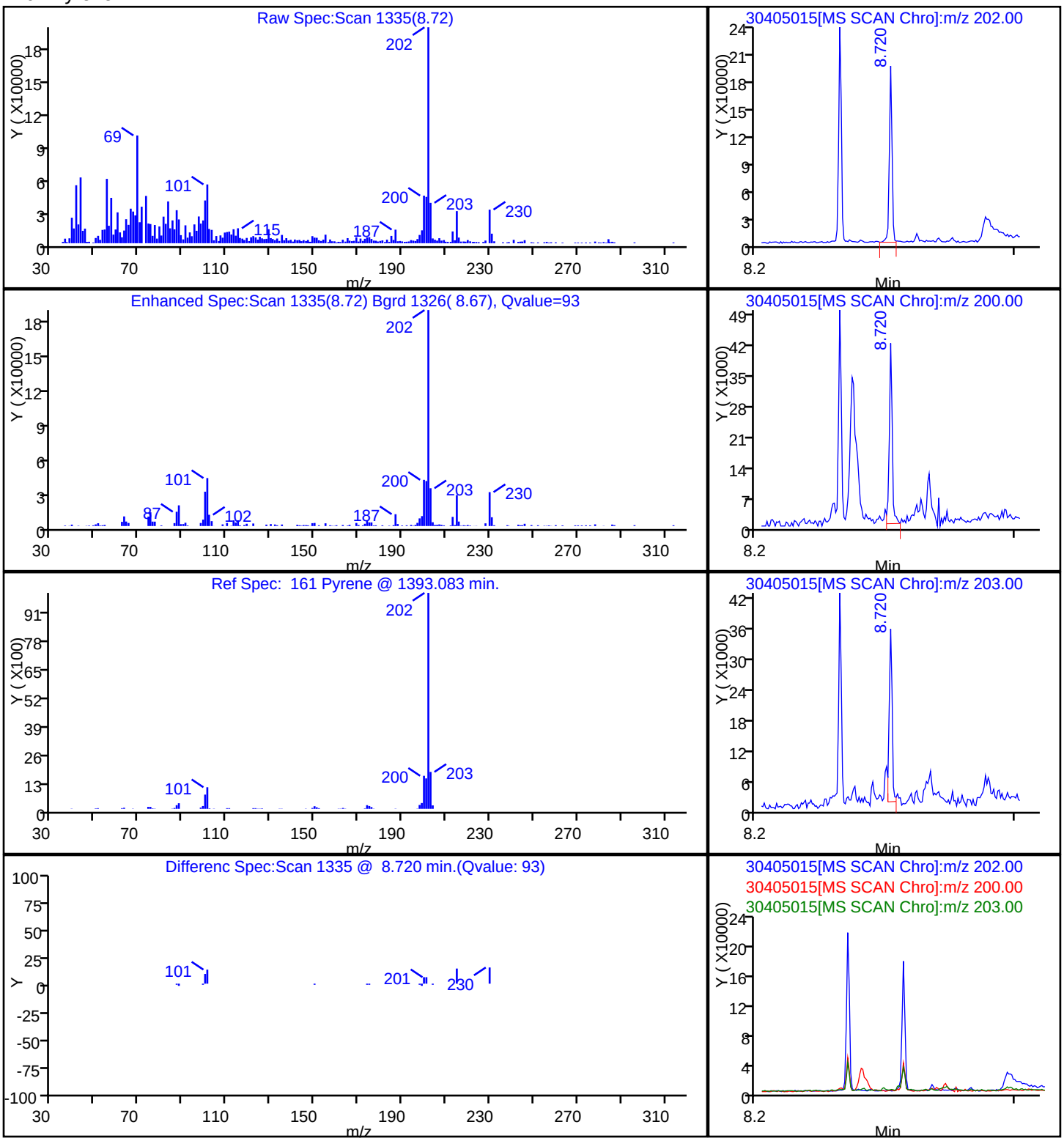
Report Date: 08-Apr-2013 11:07:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D

Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

161 Pyrene



Manual Integration/User Assign Peak Report

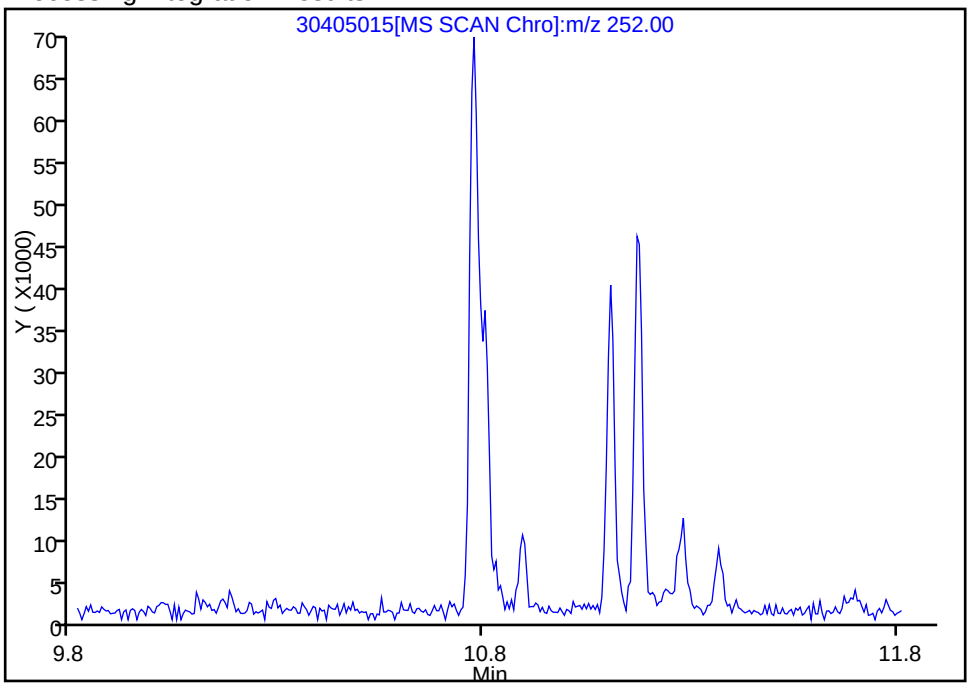
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D		
Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

183 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 10.81

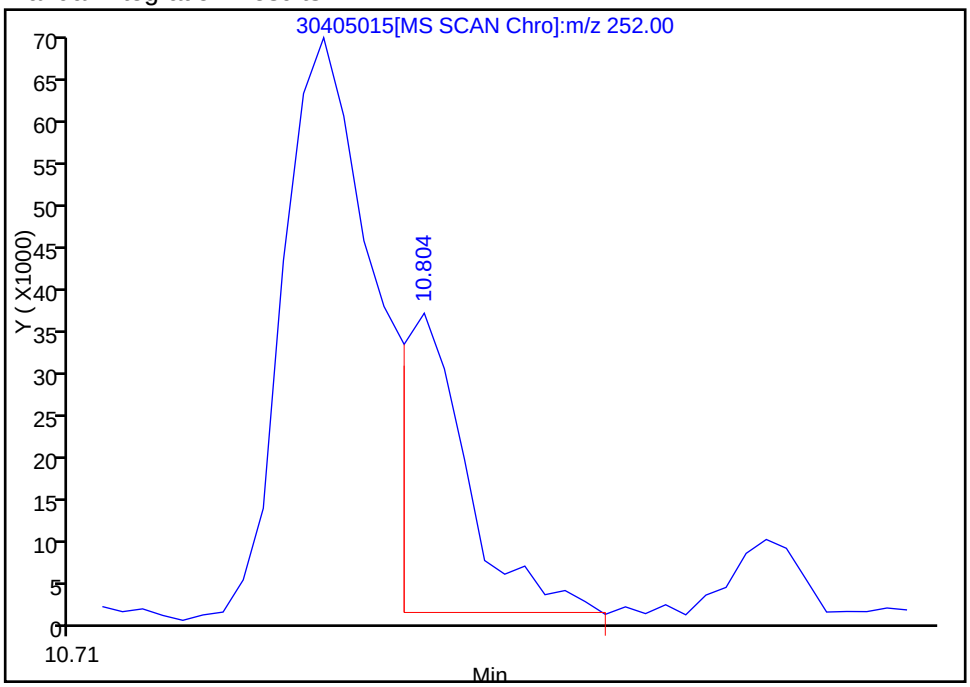
Processing Integration Results

Not Detected
Expected RT: 10.81



Manual Integration Results

RT: 10.80
Response: 43883
Amount: 0.121816



Reviewer: ulmanm, 08-Apr-2013 09:36:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

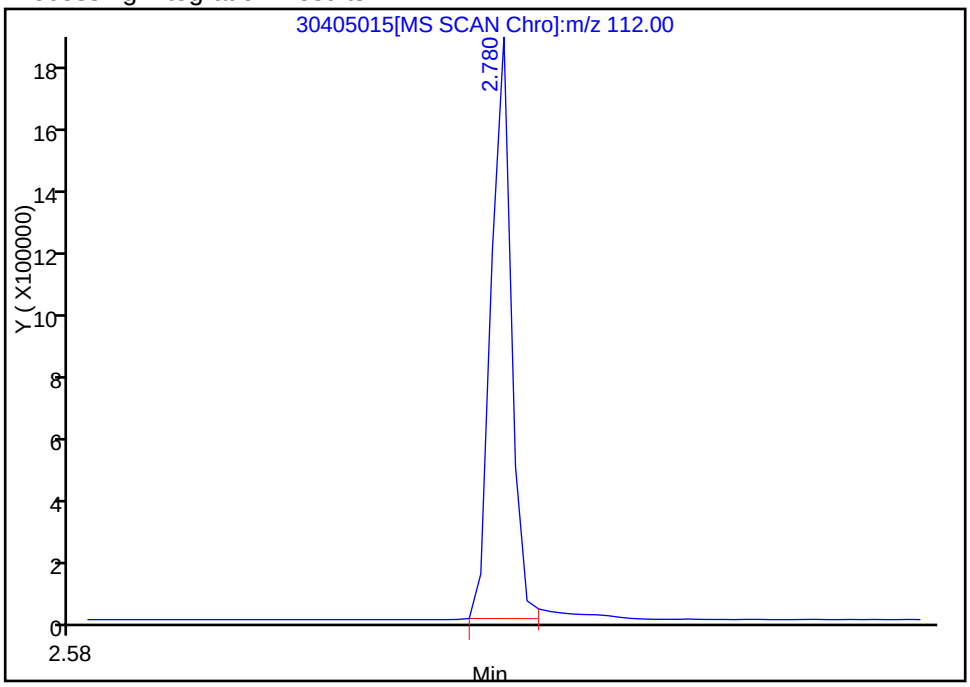
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405015.D		
Injection Date:	05-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	15
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

$ 7 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 2.76

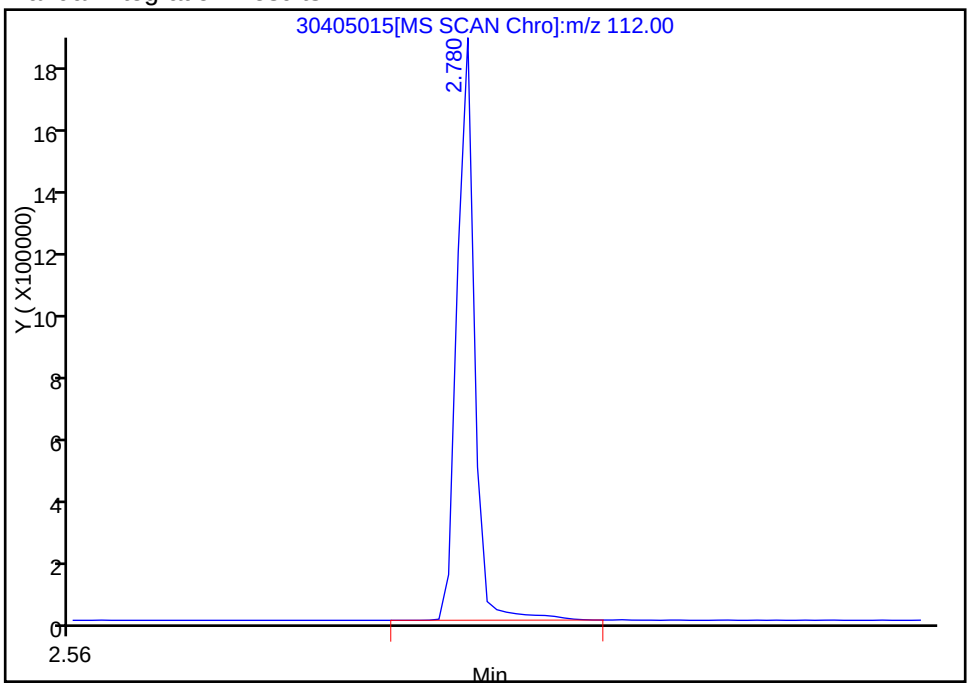
Processing Integration Results

RT: 2.78
Response: 1221640
Amount: 9.372234



Manual Integration Results

RT: 2.78
Response: 1266624
Amount: 9.717344



Reviewer: ulmanm, 08-Apr-2013 09:36:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-80575/6	30403006.D
Level 2	STD2 240-80575/5	30403005.D
Level 3	STD3 240-80575/4	30403004.D
Level 4	STD4 240-80575/3	30403003.D
Level 5	STD5 240-80575/2	30404002.D
Level 6	STD6 240-80575/10	30403010.D
Level 7	STD7 240-80575/9	30403009.D
Level 8	STD8 240-80575/8	30403008.D
Level 9	STD9 240-80575/7	30403007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.8014	0.9013 0.8679	0.8571 0.8856	0.8717 0.8689	0.8440	Ave		0.8623			0.0500	3.5		15.0			
N-Nitrosodimethylamine	1.5052	1.4795 1.5668	1.5792 1.6643	1.5602 1.6162	1.5733	Ave		1.5681			0.0500	3.7		15.0			
Pyridine	2.4395	2.3453 2.5438	2.2439 2.7778	2.4318 2.7904	2.3685	Ave		2.4926			0.0500	8.0		15.0			
Phenol	2.4123	2.5457 2.4566	2.6144 2.6013	2.5377 2.5076	2.5081	Ave		2.5230			0.0500	2.7		15.0			
Benzaldehyde	2.1931 1.7752	2.0804 1.6519	2.0793 1.6078	2.0483 1.5843	1.9683	Ave		1.8876			0.0500	12.0		15.0			
Aniline	3.3323	3.2953 3.4962	3.3386 3.7288	3.2889 3.6685	3.3294	Ave		3.4348			0.0500	5.1		15.0			
Bis(2-chloroethyl)ether	2.1246	2.3163 2.3502	2.2787 2.4688	2.2030 2.4917	2.1502	Ave		2.2979			0.0500	6.0		15.0			
2-Chlorophenol	1.2958	1.3901 1.3197	1.3916 1.4286	1.3455 1.4007	1.3558	Ave		1.3660			0.0500	3.3		15.0			
1,3-Dichlorobenzene	1.3294	1.3964 1.3862	1.4513 1.4677	1.3749 1.4355	1.3866	Ave		1.4035			0.0500	3.2		15.0			
1,4-Dichlorobenzene	1.3466	1.4737 1.4194	1.3974 1.5048	1.4249 1.4586	1.3852	Ave		1.4263			0.0500	3.6		15.0			
Benzyl alcohol	1.1591	1.1666 1.1935	1.1622 1.2910	1.1620 1.2788	1.1798	Ave		1.1991			0.0500	4.5		15.0			
1,2-Dichlorobenzene	1.2811	1.3647 1.3235	1.3491 1.4134	1.3331 1.3900	1.3166	Ave		1.3464			0.0500	3.1		15.0			
2-Methylphenol	1.5863	1.6900 1.6338	1.6339 1.7638	1.6211 1.7573	1.6093	Ave		1.6619			0.0500	4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	2.3065	2.3468 2.3259	2.3805 2.5109	2.3541 2.4765	2.2736	Ave		2.3718			0.0500	3.5		15.0			
Indene	2.9602	2.9971 2.6706	2.9663 2.3113	2.9266 2.3366	2.9092	Ave		2.7597			0.0500	10.0		15.0			
3 & 4 Methylphenol	1.6964	1.6702 1.7552	1.6693 1.8922	1.7135 1.9003	1.7137	Ave		1.7513			0.0500	5.3		15.0			
N-Nitrosodi-n-propylamine	1.8143	1.8323 1.8109	1.8457 1.9927	1.8252 1.9609	1.8284	Ave		1.8638			0.0500	3.8		15.0			
Acetophenone	2.5976	2.6281 2.6644	2.6584 2.8724	2.5955 2.8526	2.5998	Ave		2.6836			0.0500	4.2		15.0			
Hexachloroethane	0.6791	0.6776 0.6797	0.7015 0.7241	0.7136 0.7165	0.6949	Ave		0.6984			0.0500	2.7		15.0			
Nitrobenzene	0.5866	0.5619 0.5902	0.5667 0.6492	0.5605 0.6307	0.5805	Ave		0.5908			0.0500	5.5		15.0			
Isophorone	1.0154	0.9842 1.0076	0.9909 1.0098	0.9803 0.9938	0.9924	Ave		0.9968			0.0500	1.3		15.0			
2,4-Dimethylphenol	0.3839	0.3781 0.3843	0.4164 0.4145	0.4068 0.4002	0.4003	Ave		0.3981			0.0500	3.7		15.0			
2-Nitrophenol	0.1599	0.1519 0.1564	0.1701 0.1691	0.1596 0.1647	0.1624	Ave		0.1618			0.0500	3.8		15.0			
Benzoic acid	0.2183	+++++ 0.2196	0.1356 0.2513	0.1504 0.2417	0.2083	Lin1	-0.290	0.2441			0.0500				0.9960		0.9950
Bis(2-chloroethoxy)methane	0.5676	0.5517 0.5534	0.5927 0.6123	0.5743 0.5975	0.5719	Ave		0.5777			0.0500	3.7		15.0			
2,4-Dichlorophenol	0.2342	0.2244 0.2403	0.2368 0.2613	0.2400 0.2501	0.2399	Ave		0.2409			0.0500	4.5		15.0			
1,2,4-Trichlorobenzene	0.2516	0.2558 0.2535	0.2542 0.2773	0.2584 0.2700	0.2600	Ave		0.2601			0.0500	3.5		15.0			
Naphthalene	1.0585 0.9455	0.9636 0.9242	0.9674 0.8968	0.9519 0.8608	0.9463	Ave		0.9461			0.0500	5.7		15.0			
4-Chloroaniline	0.3896	0.3882 0.3974	0.4115 0.4433	0.4038 0.4306	0.4046	Ave		0.4086			0.0500	4.8		15.0			
Hexachlorobutadiene	0.1429	0.1452 0.1417	0.1439 0.1550	0.1505 0.1479	0.1444	Ave		0.1464			0.0500	3.1		15.0			
Caprolactam	0.1239	0.1146 0.1195	0.1246 0.1416	0.1247 0.1361	0.1254	Ave		0.1263			0.0500	6.9		15.0			
4-Chloro-3-methylphenol	0.3511	0.3188 0.3544	0.3563 0.3857	0.3496 0.3741	0.3527	Ave		0.3554			0.0500	5.5		15.0			
2-Methylnaphthalene	0.6839 0.5840	0.5912 0.5828	0.6327 0.6444	0.5895 0.6216	0.5927	Ave		0.6137			0.0500	5.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.5929 0.5485	0.5502 0.5396	0.5867 0.6018	0.5548 0.5758	0.5544	Ave		0.5672			0.0500	4.0		15.0			
Hexachlorocyclopentadiene	0.3103	0.2864 0.3137	0.3005 0.3400	0.3027 0.3317	0.3139	Ave		0.3124			0.0500	5.5		15.0			
1,2,4,5-Tetrachlorobenzene	0.4161	0.4133 0.4122	0.4544 0.4414	0.4239 0.4386	0.4308	Ave		0.4288			0.0500	3.5		15.0			
2,4,6-Trichlorophenol	0.2908	0.2870 0.2906	0.3065 0.3040	0.2929 0.2960	0.2944	Ave		0.2953			0.0500	2.3		15.0			
2,4,5-Trichlorophenol	0.3046	0.3076 0.3007	0.3326 0.3279	0.3077 0.3198	0.3102	Ave		0.3139			0.0500	3.7		15.0			
1,1'-Biphenyl	1.4635 1.3170	1.3397 1.3147	1.3172 1.3913	1.3166 1.3315	1.3315	Ave		1.3470			0.0500	3.7		15.0			
2-Chloronaphthalene	1.1396 0.9636	0.9482 0.9641	0.9801 1.0329	0.9671 1.0110	0.9637	Ave		0.9967			0.0500	6.0		15.0			
2-Nitroaniline	0.5312	0.4809 0.5301	0.5001 0.5720	0.5073 0.5534	0.5348	Ave		0.5262			0.0500	5.6		15.0			
Dimethyl phthalate	1.1125	1.1039 1.1125	1.0891 1.2172	1.0966 1.1810	1.1057	Ave		1.1273			0.0500	4.1		15.0			
1,3-Dinitrobenzene	0.1972	0.1472 0.1972	0.1786 0.2134	0.1833 0.2055	0.1975	Ave		0.1900			0.0500	11.0		15.0			
2,6-Dinitrotoluene	0.2554	0.2334 0.2573	0.2466 0.2733	0.2484 0.2655	0.2615	Ave		0.2552			0.0500	4.8		15.0			
Acenaphthylene	1.5989 1.5889	1.5208 1.5862	1.5209 1.6105	1.5598 1.5684	1.5805	Ave		1.5705			0.0500	2.0		15.0			
3-Nitroaniline	0.3038	0.2838 0.3057	0.2914 0.3278	0.2968 0.3212	0.3112	Ave		0.3052			0.0500	4.8		15.0			
Acenaphthene	1.1614 0.9430	0.9617 0.9226	0.9864 0.9883	0.9691 0.9743	0.9506	Ave		0.9842			0.0500	7.1		15.0			
2,4-Dinitrophenol	0.1760	0.1033 0.1755	0.1387 0.1947	0.1571 0.1892	0.1769	Lin1	-0.100	0.1886			0.0500				0.9980		0.9950
4-Nitrophenol	0.2364	0.2069 0.2396	0.2146 0.2573	0.2310 0.2536	0.2412	Ave		0.2351			0.0500	7.4		15.0			
2,4-Dinitrotoluene	0.3478	0.2871 0.3435	0.3181 0.3696	0.3338 0.3599	0.3416	Ave		0.3377			0.0500	7.6		15.0			
Dibenzofuran	1.5095 1.3630	1.3547 1.3699	1.3717 1.4228	1.3493 1.4034	1.3476	Ave		1.3880			0.0500	3.7		15.0			
2,3,4,6-Tetrachlorophenol	0.2568	0.2282 0.2523	0.2450 0.2685	0.2551 0.2648	0.2571	Ave		0.2535			0.0500	4.9		15.0			
Diethyl phthalate	1.0744	1.0775 1.0647	1.0982 1.1716	1.0979 1.1427	1.0808	Ave		1.1010			0.0500	3.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.5327	0.5245 0.5240	0.5206 0.5635	0.5339 0.5498	0.5284	Ave		0.5347			0.0500	2.8		15.0			
Fluorene	1.1755 1.0948	1.0930 1.0938	1.1529 1.1824	1.0960 1.1560	1.1240	Ave		1.1298			0.0500	3.3		15.0			
4-Nitroaniline	0.3040	0.2559 0.3048	0.3090 0.3225	0.3068 0.3198	0.3166	Ave		0.3049			0.0500	6.9		15.0			
4,6-Dinitro-2-methylphenol	0.1367	0.0915 0.1391	0.1168 0.1515	0.1223 0.1476	0.1324	Ave		0.1297			0.0500	15.0		15.0			
N-Nitrosodiphenylamine	0.4629	0.4579 0.4579	0.4450 0.4504	0.4467 0.4488	0.4082	Ave		0.4472			0.0500	3.8		15.0			
1,2-Diphenylhydrazine(as Azobenzene)	1.3313	1.2365 1.2111	1.2881 1.0741	1.2890 1.0607	1.2799	Ave		1.2209			0.0500	8.3		15.0			
Azobenzene	1.3315	1.2390 1.2111	1.2795 1.0741	1.2901 1.0607	1.2810	Ave		1.2209			0.0500	8.3		15.0			
4-Bromophenyl phenyl ether	0.1592	0.1687 0.1586	0.1652 0.1739	0.1674 0.1707	0.1614	Ave		0.1656			0.0500	3.3		15.0			
Hexachlorobenzene	0.1982 0.1521	0.1449 0.1556	0.1681 0.1685	0.1578 0.1629	0.1503	Ave		0.1620			0.0500	9.7		15.0			
Atrazine	0.1847	0.1775 0.1832	0.1893 0.1798	0.1881 0.1743	0.1850	Ave		0.1828			0.0500	2.8		15.0			
Pentachlorophenol	0.1015	0.0863 0.1013	0.0870 0.1116	0.0910 0.1087	0.0823	Ave		0.0962			0.0500	11.0		15.0			
Phenanthrene	1.1651 0.9798	0.9875 0.9917	0.9672 0.9734	0.9949 0.9494	0.9528	Ave		0.9958			0.0500	6.6		15.0			
Anthracene	0.9763 1.0174	0.9150 1.0347	0.9616 0.9960	1.0008 0.9927	0.9975	Ave		0.9880			0.0500	3.5		15.0			
Carbazole	0.9179	0.8495 0.9387	0.8867 0.9440	0.8855 0.9629	0.9009	Ave		0.9108			0.0500	4.1		15.0			
Di-n-butyl phthalate	1.1411	1.0279 1.1388	1.0689 1.0309	1.0810 1.0280	1.1020	Ave		1.0773			0.0500	4.4		15.0			
Fluoranthene	1.1602 1.0718	0.9756 1.0732	1.0440 1.0487	1.0498 1.0163	1.0284	Ave		1.0520			0.0500	4.8		15.0			
Benzidine	0.4078	0.4692 0.3749	0.5377 0.4041	0.5358 0.3719	0.5102	Qua	0.3558	0.4174	-0.001		0.0500				0.9950		0.9950
Pyrene	1.1475 1.0494	0.9998 1.0844	1.0349 1.0515	1.0497 1.0525	1.0378	Ave		1.0564			0.0500	3.8		15.0			
Butyl benzyl phthalate	0.4596	0.4180 0.4698	0.4646 0.5187	0.4578 0.5228	0.4747	Ave		0.4732			0.0500	7.2		15.0			
Bis(2-ethylhexyl) phthalate	0.6482	0.5571 0.6547	0.9974 0.7218	0.6383 0.7303	0.6454	Lin	-0.225	0.7207			0.0500				0.9960		0.9950

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
3,3'-Dichlorobenzidine	0.3218	0.2942 0.3354	0.3176 0.3651	0.3294 0.3753	0.3412	Ave		0.3350			0.0500	7.8		15.0			
Benzo[a]anthracene	1.1480 0.9939	0.9451 1.0412	0.9716 1.1169	0.9415 1.1011	0.9740	Ave		1.0259			0.0500	7.7		15.0			
Chrysene	1.0530 0.9180	0.8854 0.9397	0.8809 1.0005	0.9222 0.9874	0.9036	Ave		0.9434			0.0500	6.2		15.0			
Di-n-octyl phthalate	1.4157	1.0884 1.4876	1.2140 1.5221	1.3325 1.5201	1.4030	Ave		1.3729			0.0500	11.0		15.0			
Benzo[b]fluoranthene	1.2178 1.0655	0.9798 1.1967	1.0893 1.2529	1.0771 1.2663	1.1310	Ave		1.1418			0.0500	8.5		15.0			
Benzo[k]fluoranthene	1.3188 1.2107	1.1207 1.1663	1.0985 1.3360	1.0709 1.3439	1.1022	Ave		1.1964			0.0500	9.2		15.0			
Benzo[a]pyrene	1.0757 1.0391	0.9399 1.0954	0.9832 1.1851	0.9847 1.1956	1.0280	Ave		1.0585			0.0500	8.4		15.0			
Indeno[1,2,3-cd]pyrene	1.1095 1.1125	0.9867 1.1591	1.0117 1.2633	1.0313 1.2568	1.1047	Ave		1.1151			0.0500	8.9		15.0			
Dibenz(a,h)anthracene	0.8556 0.9376	0.7830 0.9824	0.8584 1.0877	0.8483 1.0803	0.9071	Ave		0.9267			0.0500	11.0		15.0			
Benzo[g,h,i]perylene	0.8466 0.9118	0.8257 0.9400	0.8356 1.0539	0.8811 1.0431	0.9085	Ave		0.9163			0.0500	9.2		15.0			
2-Fluorophenol (Surr)	1.7320	1.8794 1.7534	1.7791 1.8648	1.7812 1.8896	1.7627	Ave		1.8053			0.0500	3.5		15.0			
Phenol-d5 (Surr)	2.4309	2.8153 2.4503	2.6086 2.6183	2.5034 2.6177	2.4784	Ave		2.5654			0.0500	4.9		15.0			
Nitrobenzene-d5 (Surr)	0.8471 0.5710	0.5836 0.5797	0.5760 0.6374	0.5790 0.6177	0.5699	Ave		0.6179			0.0500	14.0		15.0			
2-Fluorobiphenyl (Surr)	1.6602 1.1368	1.1516 1.1222	1.1645 1.2219	1.1308 1.1967	1.1328	Ave		1.2131			0.0500	14.0		15.0			
2,4,6-Tribromophenol (Surr)	0.1289	0.1281 0.1229	0.1308 0.1303	0.1253 0.1273	0.1190	Ave		0.1266			0.0500	3.2		15.0			
Terphenyl-d14 (Surr)	1.0789 0.7296	0.7788 0.7490	0.7534 0.7995	0.7082 0.7972	0.7177	Ave		0.7903			0.0500	14.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-80575/6	30403006.D
Level 2	STD2 240-80575/5	30403005.D
Level 3	STD3 240-80575/4	30403004.D
Level 4	STD4 240-80575/3	30403003.D
Level 5	STD5 240-80575/2	30404002.D
Level 6	STD6 240-80575/10	30403010.D
Level 7	STD7 240-80575/9	30403009.D
Level 8	STD8 240-80575/8	30403008.D
Level 9	STD9 240-80575/7	30403007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	761705	43044 1273667	80298 1569667	161004 1555026	363832	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	1430617	70657 2299236	147942 2949761	288180 2892356	678191	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	2318672	112006 3732955	210212 4923242	449163 4993750	1020977	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol	DCB	Ave	2292745	121576 3604893	244922 4610474	468737 4487572	1081162	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzaldehyde	DCB	Ave	40834 3374414	198711 4848155	389585 5699138	756655 5670737	1696951	0.200 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Aniline	DCB	Ave	3167241	157374 5130544	312768 6608849	607474 6565141	1435210	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	2019366	110622 3448880	213473 4375651	406917 4459113	926866	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	1231568	66386 1936556	130372 2532052	248517 2506704	584448	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	1263557	66687 2034183	135964 2601292	253952 2569005	597739	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	1279929	70380 2082860	130914 2667057	263190 2610285	597096	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	1101704	55713 1751374	108879 2288153	214635 2288478	508582	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	1217661	65173 1942214	126388 2504999	246239 2487630	567536	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	1507709	80708 2397501	153067 3126138	299426 3144946	693718	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
bis (2-chloroisopropyl) ether	DCB	Ave	2192206	112076 3413102	223014 4450294	434820 4431975	980071	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indene	DCB	Ave	5627115	286264 7837951	555784 8192895	1081121 8363273	2508090	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
3 & 4 Methylphenol	DCB	Ave	1612319	79766 2575639	156381 3353757	316487 3400767	738709	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	1724400	87508 2657437	172912 3531759	337119 3509179	788174	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	2468948	125509 3909903	249044 5090916	479398 5104977	1120704	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	645436	32359 997471	65718 1283413	131812 1282276	299544	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	2461061	117964 3876793	230518 5124728	451040 5135045	1090096	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	4260308	206646 6618813	403079 7970612	788854 8092099	1863529	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	1610745	79384 2524593	169391 3271934	327349 3258879	751711	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	671030	31900 1027361	69215 1334706	128461 1340964	304990	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Lin1	1831514	+++++ 2885324	110305 3966964	242020 3936371	782283	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	2381430	115840 3635562	241131 4833162	462131 4864717	1073928	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	982495	47121 1578839	96341 2062882	193141 2036391	450459	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	1055508	53714 1665019	103407 2188615	207966 2198089	488282	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	43083 3967153	202317 6071299	393550 7078851	765987 7008851	1776892	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	1634754	81499 2610814	167409 3499160	324912 3506078	759819	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	599515	30475 930585	58546 1223440	121138 1204424	271215	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	1039964	48134 1570238	101368 2235085	200614 2216916	470826	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Chloro-3-methylphenol	NPT	Ave	1473159	66934 2328039	144961 3044726	281335 3046387	662260	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	27836 2450251	124134 3828369	257393 5086809	474397 5061151	1113030	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	24133 2301242	115525 3544364	238655 4750347	446440 4688654	1040956	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Ave	720103	33337 1142460	68604 1542459	135505 1532549	324968	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	965719	48109 1501173	103738 2002465	189754 2026605	445934	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	674897	33402 1058250	69972 1378996	131128 1367482	304735	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	706937	35801 1095059	75934 1487730	137754 1477677	321074	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	32899 3056647	155942 4787727	300725 6311905	589384 6152059	1378359	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	25617 2236539	110365 3511142	223770 4686254	432937 4671140	997596	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	1232982	55980 1930573	114168 2595215	227111 2556746	553610	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	2582150	128490 4051474	248651 5522235	490909 5456678	1144655	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dinitrobenzene	ANT	Ave	457619	17132 718255	40767 968106	82036 949301	204420	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	592742	27171 936859	56312 1240011	111187 1226689	270694	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	35942 3687879	177018 5776599	347244 7306689	698245 7246343	1636092	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	705050	33033 1113246	66533 1486993	132887 1483956	322161	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthene	ANT	Ave	26107 2188576	111943 3359823	225205 4483598	433840 4501674	984075	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Lin1	817087	24040 1278587	63321 1766338	140673 1747999	366278	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Nitrophenol	ANT	Ave	1097181	48171 1745151	98006 2334438	206820 2342961	499331	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Ave	807275	33413 1250995	72618 1676927	149408 1663017	353667	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	33931 3163417	157689 4988936	313182 6454990	604018 6484219	1395029	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	595933	26565 918824	55928 1218090	114180 1223631	266137	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	2493535	125414 3877412	250738 5315359	491485 5279562	1118855	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	1236354	61055 1908254	118857 2556538	239026 2540305	546971	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluorene	ANT	Ave	26425 2541079	127226 3983488	263214 5364516	490628 5340982	1163555	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Ave	705507	29783 1110036	70552 1463122	137331 1477405	327756	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4,6-Dinitro-2-methylphenol	PHN	Ave	1072084	35845 1690793	88594 2288403	180853 2259679	470755	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	3631541	179468 5566807	337591 6804380	660590 6869182	1451620	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	5221941	242332 7362622	488614 8113875	953084 8117053	2275856	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	5222583	242822 7362622	485334 8113875	953891 8117037	2277923	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	624573	33069 964066	62674 1313360	123749 1305997	287053	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobenzene	PHN	Ave	7543 596428	28405 946047	63753 1273177	116703 1246430	267191	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Atrazine	PHN	Ave	1448593	69592 2227720	143627 2716978	278231 2668366	657947	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pentachlorophenol	PHN	Ave	796080	33828 1231558	65989 1685435	134503 1664339	292867	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	44338 3843072	193525 6028646	366889 7353212	735587 7265275	1694311	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	37154 3990417	179318 6289713	364774 7523676	739963 7596601	1773754	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	3600447	166479 5706136	336345 7131371	654736 7369056	1602012	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	4475773	201449 6922982	405463 7787447	799242 7866767	1959485	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	44150 4203960	191200 6524223	396027 7921807	776222 7777523	1828639	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Qua	3338443	185344 4674323	419672 6254340	816111 5747132	1837488	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pyrene	CRY	Ave	43873 4295830	197460 6759577	403858 8137074	799531 8131505	1868808	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	1881281	82555 2928227	181280 4013762	348646 4039377	854923	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Lin	2653307	110027 4081133	389204 5585854	486142 5642269	1162281	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	2634910	116207 4181180	247881 5650809	501831 5799839	1228983	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	43892 4068520	186650 6490121	379150 8643176	717064 8507516	1753943	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	40260 3757906	174866 5857690	343739 7742709	702390 7628834	1627179	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Ave	4577791	174958 7284355	383476 9403055	819967 9247877	2030308	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80575

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 12:21 Calibration End Date: 04/04/2013 15:09 Calibration ID: 14380

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[b]fluoranthene	PRY	Ave	37763 3445527	157498 5859840	344084 7740342	662828 7703450	1636769	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	40895 3915050	180146 5711004	346995 8253830	659013 8175697	1594994	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	33357 3360168	151082 5364081	310580 7321248	605935 7273323	1487677	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	34405 3597394	158609 5675865	319590 7804767	634638 7646058	1598645	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	26533 3031952	125864 4810688	271151 6719549	522021 6571877	1312654	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	26253 2948530	132731 4602708	263959 6510943	542222 6345461	1314760	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCB	Ave	 1646151	89757 2573071	166673 3305068	329002 3381706	759835	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5 (Surr)	DCB	Ave	 2310447	134452 3595704	244377 4640652	462400 4684609	1068362	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	34478 2395660	122521 3808104	234334 5031517	465890 5029547	1070130	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	37320 2638384	134049 4086962	265859 5543641	506200 5529261	1172664	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	 299211	14915 447428	29862 591213	56077 588368	123231	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14 (Surr)	CRY	Ave	41249 2986662	153818 4668574	294010 6187307	539395 6159160	1292512	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404002.D		
Lims ID:	std5 lst1	Client ID:	
Inject. Date:	04-Apr-2013 12:21:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018548-002		
Misc. Info.:	STD5 LST1 =STD5 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	80575	Lims Sample ID:	2
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:19	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 12:56:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.805	3.805	0.0	94	344854	4.00	
* 2 Naphthalene-d8	136	4.831	4.831	0.0	99	1502225	4.00	
* 3 Acenaphthene-d10	164	6.300	6.300	0.0	85	828156	4.00	
* 4 Phenanthrene-d10	188	7.561	7.561	0.0	97	1422557	4.00	
* 5 Chrysene-d12	240	9.805	9.805	0.0	76	1440660	4.00	
* 6 Perylene-d12	264	11.364	11.364	0.0	96	1157701	4.00	
$ 7 2-Fluorophenol	112	2.817	2.817	0.0	95	759835	4.88	
$ 8 Phenol-d5	99	3.463	3.463	0.0	0	1068362	4.83	
$ 9 Nitrobenzene-d5	82	4.238	4.238	0.0	83	1070130	4.61	
$ 10 2-Fluorobiphenyl (Surr)	172	5.712	5.712	0.0	99	1172664	4.67	
$ 11 2,4,6-Tribromophenol	330	6.963	6.963	0.0	81	123231	4.70	
$ 12 Terphenyl-d14	244	8.886	8.886	0.0	98	1292512	4.54	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.818	1.818	0.0	92	363832	4.89	
26 N-Nitrosodimethylamine	74	1.994	1.994	0.0	83	678191	5.02	
27 Pyridine	79	2.026	2.026	0.0	94	1020977	4.75	
43 Phenol	94	3.474	3.474	0.0	97	1081162	4.97	
41 Benzaldehyde	77	3.479	3.479	0.0	87	1696951	10.4	
44 Aniline	93	3.549	3.549	0.0	97	1435210	4.85	
69 Bis(2-chloroethyl)ether	93	3.576	3.576	0.0	97	926866	4.68	
46 2-Chlorophenol	128	3.640	3.640	0.0	86	584448	4.96	
47 1,3-Dichlorobenzene	146	3.768	3.768	0.0	89	597739	4.94	
48 1,4-Dichlorobenzene	146	3.821	3.821	0.0	83	597096	4.86	
49 Benzyl alcohol	108	3.891	3.891	0.0	84	508582	4.92	
50 1,2-Dichlorobenzene	146	3.944	3.944	0.0	86	567536	4.89	
51 2-Methylphenol	108	3.950	3.950	0.0	95	693718	4.84	
53 2,2'-oxybis[1-chloropropane]	45	3.987	3.987	0.0	93	980071	4.79	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.014	4.014	0.0	69	2508090	10.5	
21 3 & 4 Methylphenol	108	4.067	4.067	0.0	94	738709	4.89	
57 N-Nitrosodi-n-propylamine	70	4.094	4.094	0.0	68	788174	4.91	
58 Acetophenone	105	4.110	4.110	0.0	72	1120704	4.84	
61 Hexachloroethane	117	4.217	4.217	0.0	92	299544	4.98	
62 Nitrobenzene	77	4.254	4.254	0.0	75	1090096	4.91	
64 Isophorone	82	4.436	4.436	0.0	95	1863529	4.98	
65 2,4-Dimethylphenol	107	4.505	4.505	0.0	95	751711	5.03	
66 2-Nitrophenol	139	4.510	4.510	0.0	80	304990	5.02	
71 Benzoic acid	122	4.553	4.553	0.0	80	782283	9.72	M
70 Bis(2-chloroethoxy)methane	93	4.591	4.591	0.0	97	1073928	4.95	
73 2,4-Dichlorophenol	162	4.692	4.692	0.0	88	450459	4.98	
74 1,2,4-Trichlorobenzene	180	4.778	4.778	0.0	84	488282	5.00	
75 Naphthalene	128	4.852	4.852	0.0	97	1776892	5.00	
76 4-Chloroaniline	127	4.874	4.874	0.0	71	759819	4.95	
79 Hexachlorobutadiene	225	4.933	4.933	0.0	94	271215	4.93	
84 Caprolactam	113	5.157	5.157	0.0	80	470826	9.93	
86 4-Chloro-3-methylphenol	107	5.248	5.248	0.0	84	662260	4.96	
87 2-Methylnaphthalene	142	5.419	5.419	0.0	82	1113030	4.83	
88 1-Methylnaphthalene	142	5.504	5.504	0.0	79	1040956	4.89	
89 Hexachlorocyclopentadiene	237	5.542	5.542	0.0	91	324968	5.02	
91 1,2,4,5-Tetrachlorobenzene	216	5.552	5.552	0.0	91	445934	5.02	
92 2,4,6-Trichlorophenol	196	5.638	5.638	0.0	87	304735	4.99	
93 2,4,5-Trichlorophenol	196	5.670	5.670	0.0	85	321074	4.94	
98 1,1'-Biphenyl	154	5.803	5.803	0.0	95	1378359	4.94	
100 2-Chloronaphthalene	162	5.830	5.830	0.0	98	997596	4.83	
102 2-Nitroaniline	65	5.899	5.899	0.0	71	553610	5.08	
105 Dimethyl phthalate	163	6.033	6.033	0.0	93	1144655	4.90	
106 1,3-Dinitrobenzene	168	6.076	6.076	0.0	80	204420	5.20	
107 2,6-Dinitrotoluene	165	6.097	6.097	0.0	73	270694	5.12	
109 Acenaphthylene	152	6.183	6.183	0.0	92	1636092	5.03	
110 3-Nitroaniline	138	6.241	6.241	0.0	86	322161	5.10	
112 Acenaphthene	153	6.327	6.327	0.0	84	984075	4.83	
111 2,4-Dinitrophenol	184	6.327	6.327	0.0	62	366278	9.91	
113 4-Nitrophenol	109	6.348	6.348	0.0	83	499331	10.3	
114 2,4-Dinitrotoluene	165	6.434	6.434	0.0	72	353667	5.06	
116 Dibenzofuran	168	6.471	6.471	0.0	85	1395029	4.85	
119 2,3,4,6-Tetrachlorophenol	232	6.562	6.562	0.0	76	266137	5.07	
121 Diethyl phthalate	149	6.621	6.621	0.0	93	1118855	4.91	
123 4-Chlorophenyl phenyl ether	204	6.744	6.744	0.0	93	546971	4.94	
126 Fluorene	166	6.760	6.760	0.0	79	1163555	4.97	
125 4-Nitroaniline	138	6.760	6.760	0.0	76	327756	5.19	
128 4,6-Dinitro-2-methylphenol	198	6.781	6.781	0.0	62	470755	10.2	
131 N-Nitrosodiphenylamine	169	6.840	6.840	0.0	98	1451620	9.13	M
132 1,2-Diphenylhydrazine	77	6.877	6.877	0.0	100	2275856	5.24	
133 Azobenzene	77	6.877	6.877	0.0	94	2277923	5.25	
139 4-Bromophenyl phenyl ether	248	7.160	7.160	0.0	72	287053	4.87	
141 Hexachlorobenzene	284	7.224	7.224	0.0	85	267191	4.64	
142 Atrazine	200	7.267	7.267	0.0	81	657947	10.1	
143 Pentachlorophenol	266	7.379	7.379	0.0	80	292867	8.56	
148 Phenanthrene	178	7.582	7.582	0.0	98	1694311	4.78	
149 Anthracene	178	7.625	7.625	0.0	98	1773754	5.05	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.748	7.748	0.0	83	1602012	4.95	
154 Di-n-butyl phthalate	149	7.994	7.994	0.0	99	1959485	5.11	
159 Fluoranthene	202	8.592	8.592	0.0	99	1828639	4.89	
160 Benzidine	184	8.683	8.683	0.0	99	1837488	11.7	
161 Pyrene	202	8.790	8.790	0.0	94	1868808	4.91	
168 Butyl benzyl phthalate	149	9.276	9.276	0.0	88	854923	5.02	
173 Bis(2-ethylhexyl) phthalate	149	9.730	9.730	0.0	91	1162281	4.79	
175 3,3'-Dichlorobenzidine	252	9.751	9.751	0.0	68	1228983	10.2	
177 Benzo[a]anthracene	228	9.794	9.794	0.0	90	1753943	4.75	
178 Chrysene	228	9.826	9.826	0.0	93	1627179	4.79	
180 Di-n-octyl phthalate	149	10.328	10.328	0.0	99	2030308	5.11	
182 Benzo[b]fluoranthene	252	10.878	10.878	0.0	86	1636769	4.95	
183 Benzo[k]fluoranthene	252	10.910	10.910	0.0	90	1594994	4.61	
184 Benzo[a]pyrene	252	11.290	11.290	0.0	77	1487677	4.86	
188 Indeno[1,2,3-cd]pyrene	276	13.053	13.053	0.0	90	1598645	4.95	
189 Dibenz(a,h)anthracene	278	13.074	13.074	0.0	76	1312654	4.89	
190 Benzo[g,h,i]perylene	276	13.576	13.576	0.0	89	1314760	4.96	
S 245 Total Cresols	100				0		9.73	
S 191 Methyl Phenols,Total	100				0		9.73	

QC Flag Legend

Review Flags
M - Manually Integrated

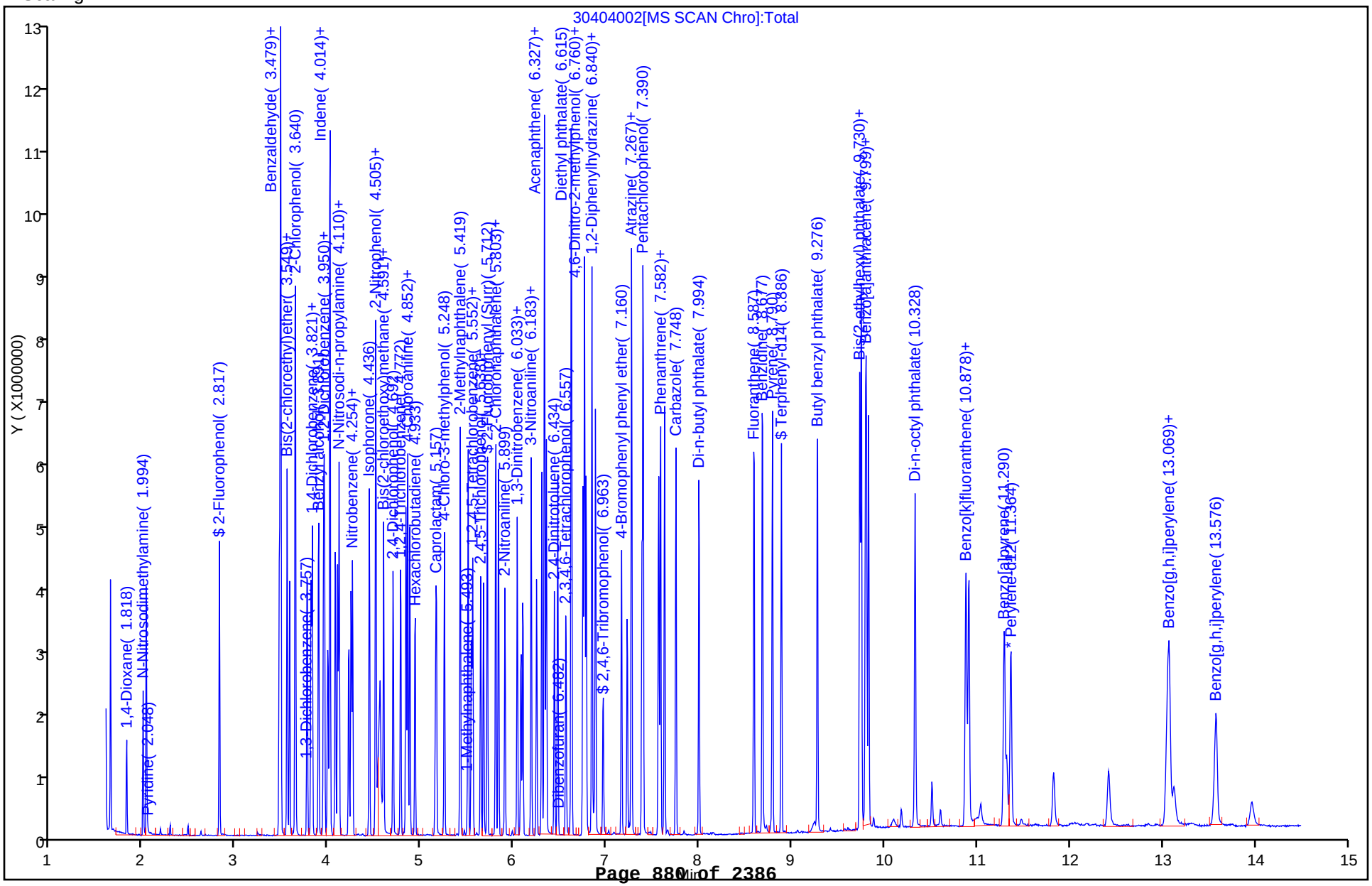
Report Date: 05-Apr-2013 13:13:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404002.D

Injection Date:	04-Apr-2013 12:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

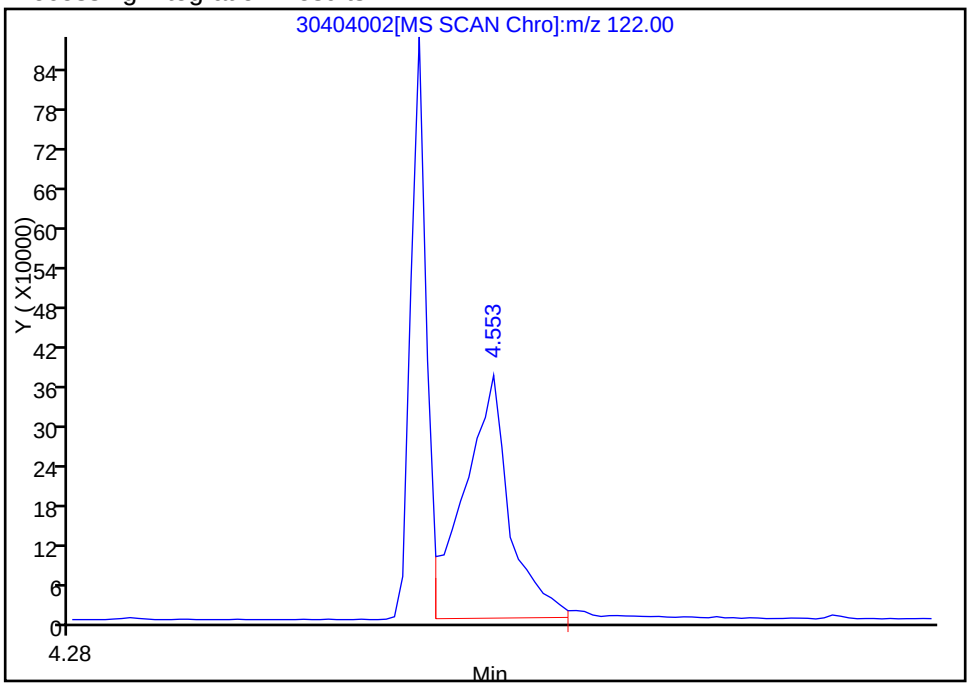
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404002.D		
Injection Date:	04-Apr-2013 12:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.55

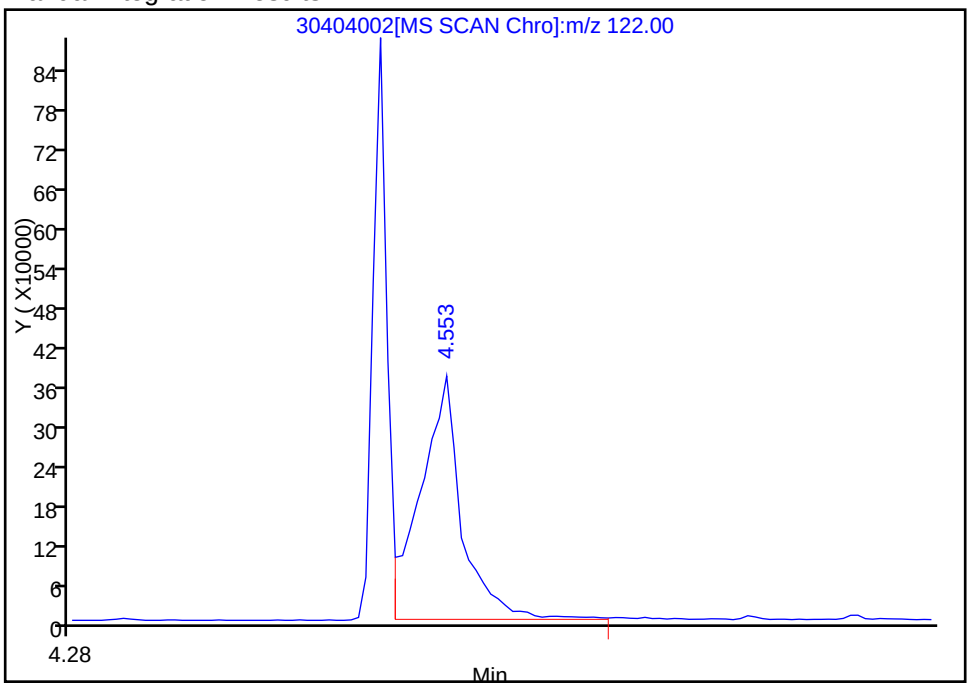
Processing Integration Results

RT: 4.55
Response: 757162
Amount: 10.000000



Manual Integration Results

RT: 4.55
Response: 782283
Amount: 9.721131



Reviewer: ulmanm, 04-Apr-2013 12:56:09
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

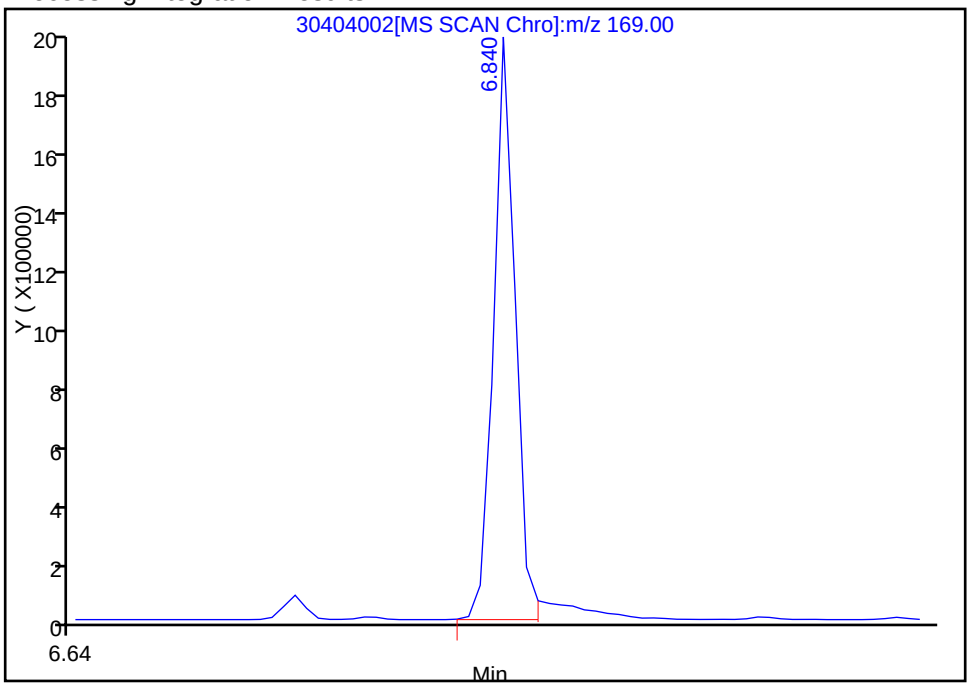
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404002.D		
Injection Date:	04-Apr-2013 12:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

131 N-Nitrosodiphenylamine, Signal: 1, m/z: 169.0 Type: quant, RT: 6.84

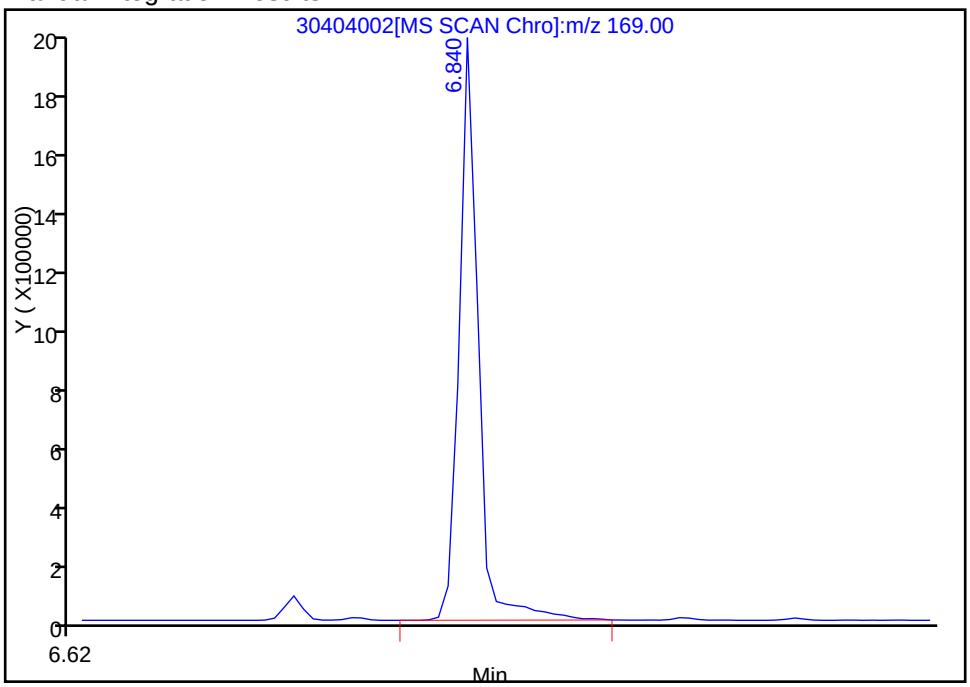
Processing Integration Results

RT: 6.84
Response: 1367701
Amount: 8.694391



Manual Integration Results

RT: 6.84
Response: 1451620
Amount: 9.126937



Reviewer: ulmanm, 04-Apr-2013 12:59:23
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403003.D		
Lims ID:	std4 lst1	Client ID:	
Inject. Date:	04-Apr-2013 12:47:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018548-003		
Misc. Info.:	STD4 LST1 =STD4 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	3
Lims Batch ID:	80575	Lims Sample ID:	3
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:11:24	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.805	0.003	94	369413	4.00	
* 2 Naphthalene-d8	136	4.833	4.831	0.002	99	1609411	4.00	
* 3 Acenaphthene-d10	164	6.297	6.300	-0.003	84	895324	4.00	
* 4 Phenanthrene-d10	188	7.558	7.561	-0.003	96	1478773	4.00	
* 5 Chrysene-d12	240	9.801	9.805	-0.004	79	1523286	4.00	
* 6 Perylene-d12	264	11.361	11.364	-0.003	96	1230747	4.00	
$ 7 2-Fluorophenol	112	2.819	2.817	0.002	94	329002	1.97	
$ 8 Phenol-d5	99	3.460	3.463	-0.003	100	462400	1.95	
$ 9 Nitrobenzene-d5	82	4.235	4.238	-0.003	84	465890	1.87	
$ 10 2-Fluorobiphenyl (Surr)	172	5.709	5.712	-0.003	98	506200	1.86	
$ 11 2,4,6-Tribromophenol	330	6.959	6.963	-0.004	75	56077	1.98	
$ 12 Terphenyl-d14	244	8.888	8.886	0.002	98	539395	1.79	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.820	1.818	0.002	91	161004	2.02	
26 N-Nitrosodimethylamine	74	1.997	1.994	0.003	78	288180	1.99	
27 Pyridine	79	2.034	2.026	0.008	93	449163	1.95	
43 Phenol	94	3.471	3.474	-0.003	96	468737	2.01	
41 Benzaldehyde	77	3.476	3.479	-0.003	88	756655	4.34	
44 Aniline	93	3.546	3.549	-0.003	96	607474	1.92	
69 Bis(2-chloroethyl)ether	93	3.572	3.576	-0.004	95	406917	1.92	
46 2-Chlorophenol	128	3.642	3.640	0.002	90	248517	1.97	
47 1,3-Dichlorobenzene	146	3.765	3.768	-0.003	86	253952	1.96	
48 1,4-Dichlorobenzene	146	3.818	3.821	-0.003	82	263190	2.00	
49 Benzyl alcohol	108	3.888	3.891	-0.003	85	214635	1.94	
50 1,2-Dichlorobenzene	146	3.941	3.944	-0.003	85	246239	1.98	
51 2-Methylphenol	108	3.952	3.950	0.002	95	299426	1.95	
53 2,2'-oxybis[1-chloropropane]	45	3.989	3.987	0.002	92	434820	1.99	
52 Indene	115	4.011	4.014	-0.003	69	1081121	4.24	
21 3 & 4 Methylphenol	108	4.069	4.067	0.002	91	316487	1.96	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
57 N-Nitrosodi-n-propylamine	70	4.091	4.094	-0.003	73	337119	1.96	
58 Acetophenone	105	4.107	4.110	-0.003	85	479398	1.93	
61 Hexachloroethane	117	4.214	4.217	-0.003	90	131812	2.04	
62 Nitrobenzene	77	4.251	4.254	-0.003	78	451040	1.90	
64 Isophorone	82	4.433	4.436	-0.003	95	788854	1.97	
65 2,4-Dimethylphenol	107	4.502	4.505	-0.003	93	327349	2.04	
66 2-Nitrophenol	139	4.507	4.510	-0.003	83	128461	1.97	
71 Benzoic acid	122	4.534	4.553	-0.019	72	242020	3.65	M
70 Bis(2-chloroethoxy)methane	93	4.587	4.591	-0.004	98	462131	1.99	
73 2,4-Dichlorophenol	162	4.694	4.692	0.002	95	193141	1.99	
74 1,2,4-Trichlorobenzene	180	4.774	4.778	-0.004	85	207966	1.99	
75 Naphthalene	128	4.849	4.852	-0.003	98	765987	2.01	
76 4-Chloroaniline	127	4.871	4.874	-0.003	71	324912	1.98	
79 Hexachlorobutadiene	225	4.929	4.933	-0.004	91	121138	2.06	
84 Caprolactam	113	5.148	5.157	-0.009	79	200614	3.95	
86 4-Chloro-3-methylphenol	107	5.245	5.248	-0.003	86	281335	1.97	
87 2-Methylnaphthalene	142	5.416	5.419	-0.003	80	474397	1.92	
88 1-Methylnaphthalene	142	5.501	5.504	-0.003	76	446440	1.96	
89 Hexachlorocyclopentadiene	237	5.538	5.542	-0.004	71	135505	1.94	
91 1,2,4,5-Tetrachlorobenzene	216	5.554	5.552	0.002	94	189754	1.98	
92 2,4,6-Trichlorophenol	196	5.640	5.638	0.002	91	131128	1.98	
93 2,4,5-Trichlorophenol	196	5.667	5.670	-0.003	85	137754	1.96	
98 1,1'-Biphenyl	154	5.800	5.803	-0.003	96	589384	1.95	
100 2-Chloronaphthalene	162	5.832	5.830	0.002	97	432937	1.94	
102 2-Nitroaniline	65	5.902	5.899	0.003	72	227111	1.93	
105 Dimethyl phthalate	163	6.030	6.033	-0.003	93	490909	1.95	
106 1,3-Dinitrobenzene	168	6.073	6.076	-0.003	77	82036	1.93	
107 2,6-Dinitrotoluene	165	6.094	6.097	-0.003	73	111187	1.95	
109 Acenaphthylene	152	6.185	6.183	0.002	92	698245	1.99	
110 3-Nitroaniline	138	6.244	6.241	0.003	87	132887	1.95	
111 2,4-Dinitrophenol	184	6.329	6.327	0.002	48	140673	3.86	
112 Acenaphthene	153	6.329	6.327	0.002	84	433840	1.97	
113 4-Nitrophenol	109	6.345	6.348	-0.003	74	206820	3.93	
114 2,4-Dinitrotoluene	165	6.431	6.434	-0.003	71	149408	1.98	
116 Dibenzofuran	168	6.468	6.471	-0.003	83	604018	1.94	
119 2,3,4,6-Tetrachlorophenol	232	6.559	6.562	-0.003	77	114180	2.01	
121 Diethyl phthalate	149	6.623	6.621	0.002	95	491485	1.99	
123 4-Chlorophenyl phenyl ether	204	6.746	6.744	0.002	93	239026	2.00	
126 Fluorene	166	6.762	6.760	0.002	81	490628	1.94	
125 4-Nitroaniline	138	6.756	6.760	-0.004	76	137331	2.01	
128 4,6-Dinitro-2-methylphenol	198	6.778	6.781	-0.003	70	180853	3.77	
131 N-Nitrosodiphenylamine	169	6.842	6.840	0.002	98	660590	4.00	M
132 1,2-Diphenylhydrazine	77	6.879	6.877	0.002	99	953084	2.11	
133 Azobenzene	77	6.879	6.877	0.002	94	953891	2.11	
139 4-Bromophenyl phenyl ether	248	7.162	7.160	0.002	72	123749	2.02	
141 Hexachlorobenzene	284	7.221	7.224	-0.003	86	116703	1.95	
142 Atrazine	200	7.264	7.267	-0.003	81	278231	4.12	
143 Pentachlorophenol	266	7.381	7.379	0.002	80	134503	3.78	
148 Phenanthrene	178	7.579	7.582	-0.003	97	735587	2.00	
149 Anthracene	178	7.622	7.625	-0.003	98	739963	2.03	
151 Carbazole	167	7.745	7.748	-0.003	83	654736	1.94	
154 Di-n-butyl phthalate	149	7.996	7.994	0.002	99	799242	2.01	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
159 Fluoranthene	202	8.589	8.592	-0.003	99	776222	2.00	
160 Benzidine	184	8.680	8.683	-0.003	97	816111	4.33	
161 Pyrene	202	8.786	8.790	-0.004	95	799531	1.99	
168 Butyl benzyl phthalate	149	9.273	9.276	-0.003	86	348646	1.93	
173 Bis(2-ethylhexyl) phthalate	149	9.732	9.730	0.002	93	486142	2.08	
175 3,3'-Dichlorobenzidine	252	9.748	9.751	-0.003	72	501831	3.93	
177 Benzo[a]anthracene	228	9.791	9.794	-0.003	87	717064	1.84	
178 Chrysene	228	9.823	9.826	-0.003	91	702390	1.96	
180 Di-n-octyl phthalate	149	10.325	10.328	-0.003	98	819967	1.94	
182 Benzo[b]fluoranthene	252	10.875	10.878	-0.003	94	662828	1.89	
183 Benzo[k]fluoranthene	252	10.907	10.910	-0.003	87	659013	1.79	
184 Benzo[a]pyrene	252	11.292	11.290	0.002	78	605935	1.86	
188 Indeno[1,2,3-cd]pyrene	276	13.049	13.053	-0.004	90	634638	1.85	
189 Dibenz(a,h)anthracene	278	13.071	13.074	-0.003	83	522021	1.83	
190 Benzo[g,h,i]perylene	276	13.573	13.576	-0.003	87	542222	1.92	
S 245 Total Cresols	100				0		3.91	
S 191 Methyl Phenols,Total	100				0		3.91	

QC Flag Legend

Review Flags
M - Manually Integrated

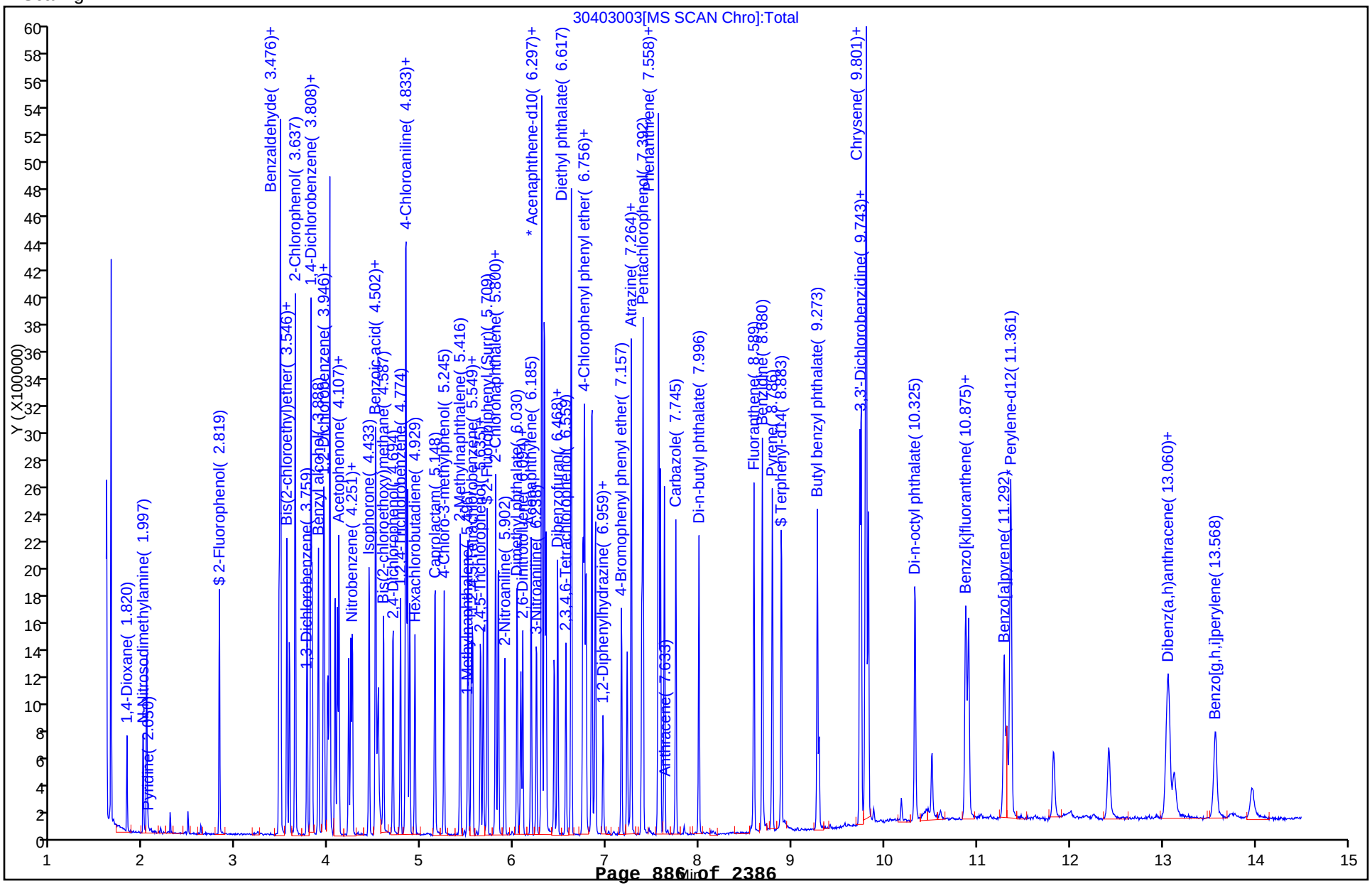
Report Date: 05-Apr-2013 13:11:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403003.D

Injection Date:	04-Apr-2013 12:47:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

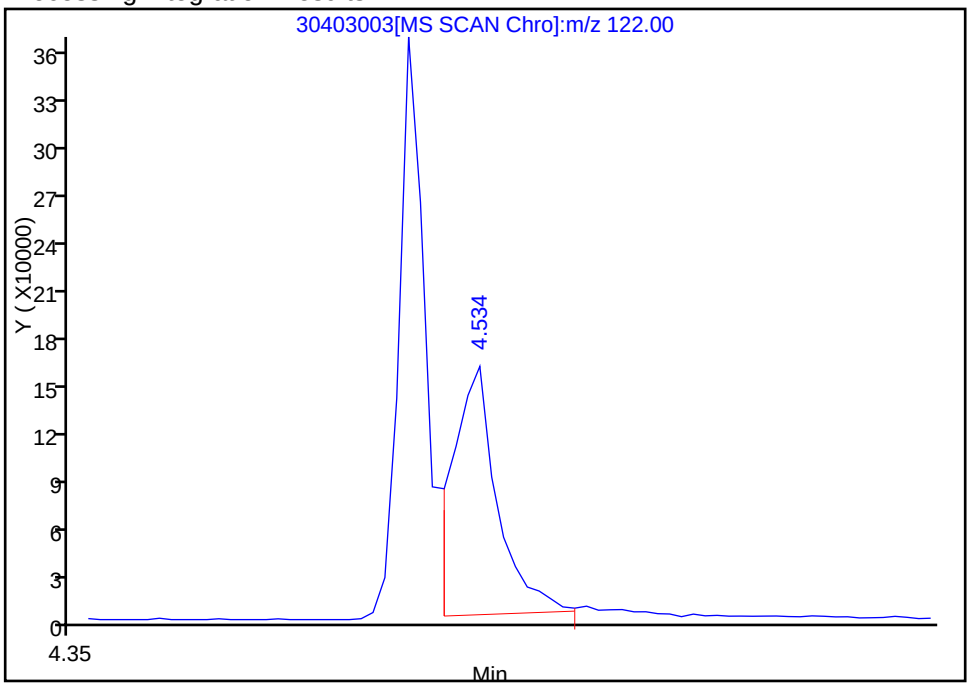
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403003.D		
Injection Date:	04-Apr-2013 12:47:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.55

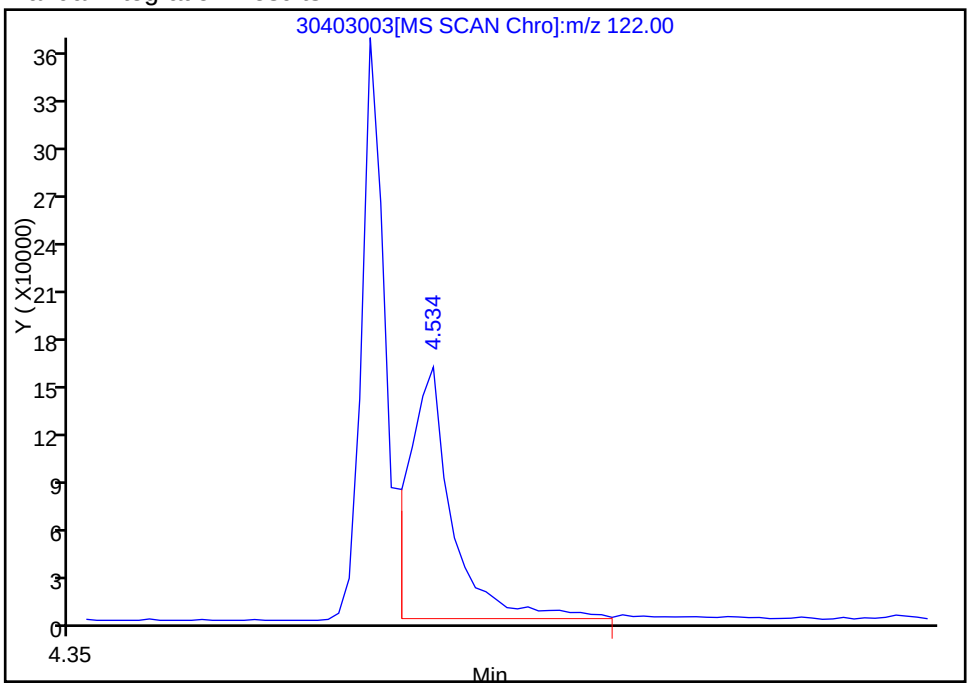
Processing Integration Results

RT: 4.53
Response: 220045
Amount: 3.413832



Manual Integration Results

RT: 4.53
Response: 242020
Amount: 3.651070



Reviewer: ulmanm, 04-Apr-2013 13:44:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

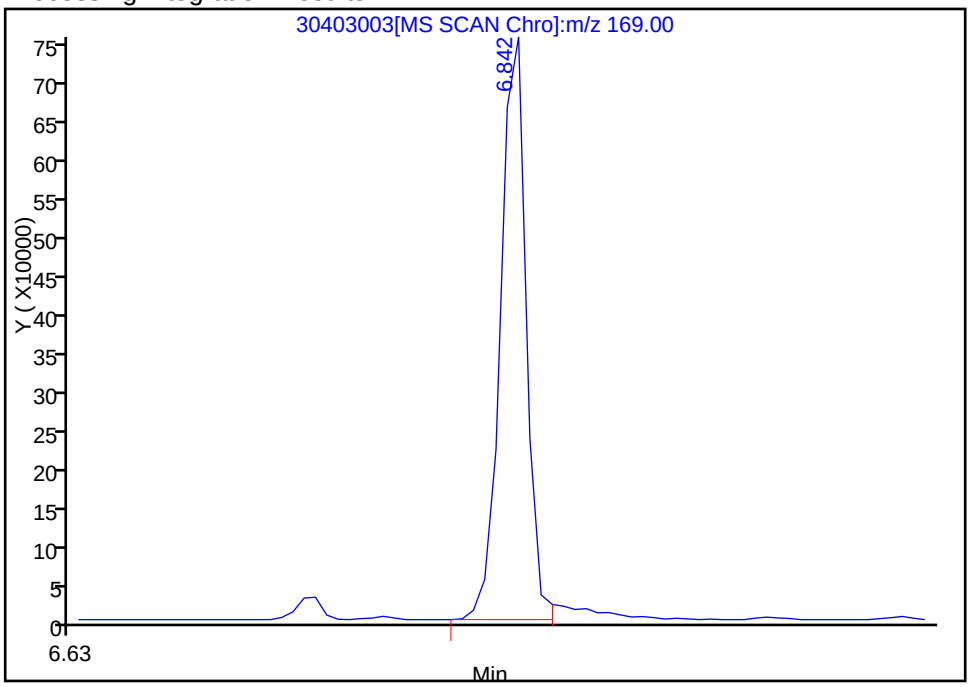
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403003.D		
Injection Date:	04-Apr-2013 12:47:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

131 N-Nitrosodiphenylamine, Signal: 1, m/z: 169.0 Type: quant, RT: 6.84

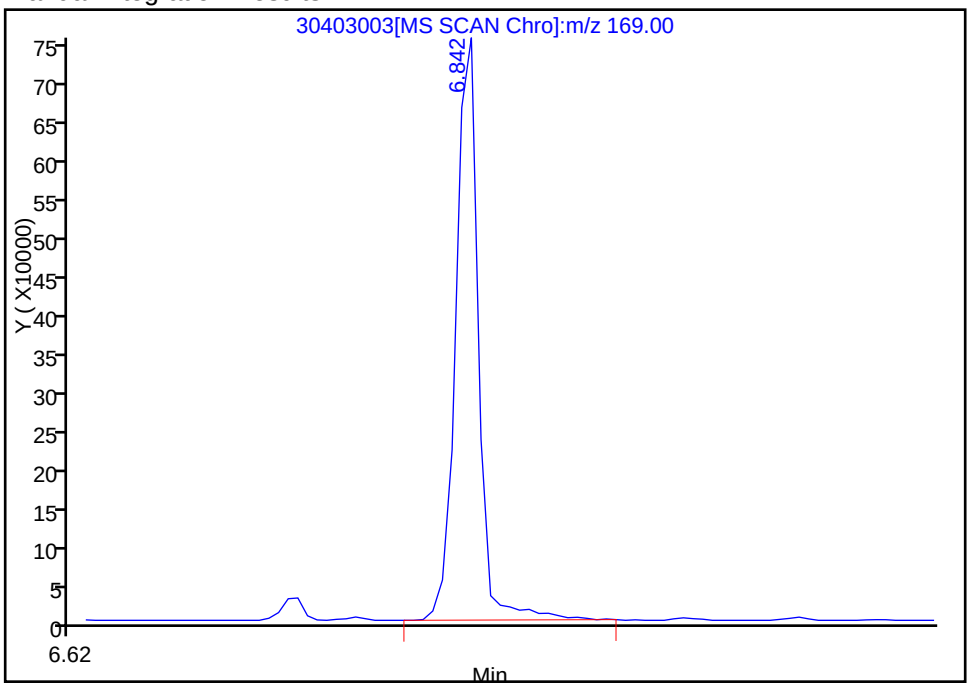
Processing Integration Results

RT: 6.84
Response: 637622
Amount: 3.873406



Manual Integration Results

RT: 6.84
Response: 660590
Amount: 3.995510



Reviewer: ulmanm, 05-Apr-2013 09:37:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403004.D		
Lims ID:	std3 lst1	Client ID:	
Inject. Date:	04-Apr-2013 13:07:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018548-004		
Misc. Info.:	STD3 LST1 =STD3 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	80575	Lims Sample ID:	4
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:11:25	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.806	3.805	0.001	92	374727	4.00	
* 2 Naphthalene-d8	136	4.832	4.831	0.001	98	1627204	4.00	
* 3 Acenaphthene-d10	164	6.295	6.300	-0.005	83	913251	4.00	
* 4 Phenanthrene-d10	188	7.556	7.561	-0.005	95	1517300	4.00	
* 5 Chrysene-d12	240	9.800	9.805	-0.005	75	1560893	4.00	
* 6 Perylene-d12	264	11.360	11.364	-0.004	92	1263517	4.00	
$ 7 2-Fluorophenol	112	2.818	2.817	0.001	94	166673	0.9855	
$ 8 Phenol-d5	99	3.464	3.463	0.001	0	244377	1.02	
$ 9 Nitrobenzene-d5	82	4.239	4.238	0.001	83	234334	0.9322	
$ 10 2-Fluorobiphenyl (Surr)	172	5.708	5.712	-0.004	98	265859	0.9599	
$ 11 2,4,6-Tribromophenol	330	6.958	6.963	-0.005	77	29862	1.03	
$ 12 Terphenyl-d14	244	8.881	8.886	-0.005	95	294010	0.9534	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.819	1.818	0.001	92	80298	0.99	
26 N-Nitrosodimethylamine	74	1.995	1.994	0.001	80	147942	1.01	
27 Pyridine	79	2.032	2.026	0.006	93	210212	0.9002	
43 Phenol	94	3.475	3.474	0.001	96	244922	1.04	
41 Benzaldehyde	77	3.480	3.479	0.001	86	389585	2.20	
44 Aniline	93	3.549	3.549	0.0	97	312768	0.9720	
69 Bis(2-chloroethyl)ether	93	3.576	3.576	0.0	94	213473	0.99	
46 2-Chlorophenol	128	3.640	3.640	0.0	87	130372	1.02	
47 1,3-Dichlorobenzene	146	3.763	3.768	-0.005	84	135964	1.03	
48 1,4-Dichlorobenzene	146	3.822	3.821	0.001	81	130914	0.9797	
49 Benzyl alcohol	108	3.886	3.891	-0.005	86	108879	0.9692	
50 1,2-Dichlorobenzene	146	3.945	3.944	0.001	86	126388	1.00	
51 2-Methylphenol	108	3.950	3.950	0.0	94	153067	0.9831	
53 2,2'-oxybis[1-chloropropane]	45	3.987	3.987	0.0	92	223014	1.00	
52 Indene	115	4.009	4.014	-0.005	68	555784	2.15	
21 3 & 4 Methylphenol	108	4.068	4.067	0.001	86	156381	0.9531	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
57 N-Nitrosodi-n-propylamine	70	4.089	4.094	-0.005	69	172912	0.99	
58 Acetophenone	105	4.110	4.110	0.0	83	249044	0.99	
61 Hexachloroethane	117	4.212	4.217	-0.005	87	65718	1.00	
62 Nitrobenzene	77	4.255	4.254	0.001	80	230518	0.9592	
64 Isophorone	82	4.436	4.436	0.0	95	403079	0.99	
65 2,4-Dimethylphenol	107	4.506	4.505	0.001	90	169391	1.05	
66 2-Nitrophenol	139	4.506	4.510	-0.004	73	69215	1.05	
71 Benzoic acid	122	4.527	4.553	-0.026	73	110305	2.30	
70 Bis(2-chloroethoxy)methane	93	4.591	4.591	0.0	98	241131	1.03	
73 2,4-Dichlorophenol	162	4.693	4.692	0.001	89	96341	0.9831	
74 1,2,4-Trichlorobenzene	180	4.773	4.778	-0.005	84	103407	0.9773	
75 Naphthalene	128	4.848	4.852	-0.004	97	393550	1.02	
76 4-Chloroaniline	127	4.874	4.874	0.0	78	167409	1.01	
79 Hexachlorobutadiene	225	4.928	4.933	-0.005	86	58546	0.9828	
84 Caprolactam	113	5.141	5.157	-0.016	80	101368	1.97	
86 4-Chloro-3-methylphenol	107	5.243	5.248	-0.005	84	144961	1.00	
87 2-Methylnaphthalene	142	5.419	5.419	0.0	87	257393	1.03	
88 1-Methylnaphthalene	142	5.505	5.504	0.001	82	238655	1.03	
89 Hexachlorocyclopentadiene	237	5.537	5.542	-0.005	89	68604	0.9619	
91 1,2,4,5-Tetrachlorobenzene	216	5.553	5.552	0.001	94	103738	1.06	
92 2,4,6-Trichlorophenol	196	5.638	5.638	0.0	92	69972	1.04	
93 2,4,5-Trichlorophenol	196	5.665	5.670	-0.005	86	75934	1.06	
98 1,1'-Biphenyl	154	5.798	5.803	-0.005	96	300725	0.9779	
100 2-Chloronaphthalene	162	5.830	5.830	0.0	98	223770	0.9833	
102 2-Nitroaniline	65	5.900	5.899	0.001	71	114168	0.9502	
105 Dimethyl phthalate	163	6.028	6.033	-0.005	93	248651	0.9661	
106 1,3-Dinitrobenzene	168	6.071	6.076	-0.005	78	40767	0.9400	
107 2,6-Dinitrotoluene	165	6.092	6.097	-0.005	71	56312	0.9666	
109 Acenaphthylene	152	6.183	6.183	0.0	93	347244	0.9684	
110 3-Nitroaniline	138	6.242	6.241	0.001	88	66533	0.9548	
111 2,4-Dinitrophenol	184	6.327	6.327	0.0	54	63321	2.00	
112 Acenaphthene	153	6.327	6.327	0.0	85	225205	1.00	
113 4-Nitrophenol	109	6.343	6.348	-0.005	85	98006	1.83	
114 2,4-Dinitrotoluene	165	6.434	6.434	0.0	78	72618	0.9419	
116 Dibenzofuran	168	6.466	6.471	-0.005	84	313182	0.9883	
119 2,3,4,6-Tetrachlorophenol	232	6.557	6.562	-0.005	76	55928	0.9665	
121 Diethyl phthalate	149	6.616	6.621	-0.005	94	250738	1.00	
123 4-Chlorophenyl phenyl ether	204	6.739	6.744	-0.005	90	118857	0.9736	
126 Fluorene	166	6.760	6.760	0.0	73	263214	1.02	
125 4-Nitroaniline	138	6.755	6.760	-0.005	76	70552	1.01	
128 4,6-Dinitro-2-methylphenol	198	6.776	6.781	-0.005	71	88594	1.80	
131 N-Nitrosodiphenylamine	169	6.840	6.840	0.0	98	337591	1.99	
132 1,2-Diphenylhydrazine	77	6.878	6.877	0.001	99	488614	1.06	
133 Azobenzene	77	6.878	6.877	0.001	94	485334	1.05	
139 4-Bromophenyl phenyl ether	248	7.161	7.160	0.001	73	62674	1.00	
141 Hexachlorobenzene	284	7.219	7.224	-0.005	88	63753	1.04	
142 Atrazine	200	7.262	7.267	-0.005	82	143627	2.07	
143 Pentachlorophenol	266	7.380	7.379	0.001	82	65989	1.81	
148 Phenanthrene	178	7.577	7.582	-0.005	97	366889	0.9713	
149 Anthracene	178	7.620	7.625	-0.005	98	364774	0.9733	
151 Carbazole	167	7.743	7.748	-0.005	84	336345	0.9736	
154 Di-n-butyl phthalate	149	7.994	7.994	0.0	99	405463	0.99	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
159 Fluoranthene	202	8.587	8.592	-0.005	99	396027	0.99	
160 Benzidine	184	8.678	8.683	-0.005	98	419672	1.73	
161 Pyrene	202	8.785	8.790	-0.005	94	403858	0.9797	
168 Butyl benzyl phthalate	149	9.271	9.276	-0.005	89	181280	0.9817	
173 Bis(2-ethylhexyl) phthalate	149	9.730	9.730	0.0	92	389204	1.70	
175 3,3'-Dichlorobenzidine	252	9.746	9.751	-0.005	67	247881	1.90	
177 Benzo[a]anthracene	228	9.789	9.794	-0.005	98	379150	0.9471	
178 Chrysene	228	9.821	9.826	-0.005	92	343739	0.9337	
180 Di-n-octyl phthalate	149	10.329	10.328	0.001	98	383476	0.8842	
182 Benzo[b]fluoranthene	252	10.868	10.878	-0.010	93	344084	0.9540	
183 Benzo[k]fluoranthene	252	10.906	10.910	-0.004	90	346995	0.9181	
184 Benzo[a]pyrene	252	11.290	11.290	0.0	74	310580	0.9289	
188 Indeno[1,2,3-cd]pyrene	276	13.042	13.053	-0.011	90	319590	0.9073	
189 Dibenz(a,h)anthracene	278	13.064	13.074	-0.010	57	271151	0.9263	
190 Benzo[g,h,i]perylene	276	13.566	13.576	-0.010	87	263959	0.9120	
S 245 Total Cresols	100				0		1.94	
S 191 Methyl Phenols,Total	100				0		1.94	

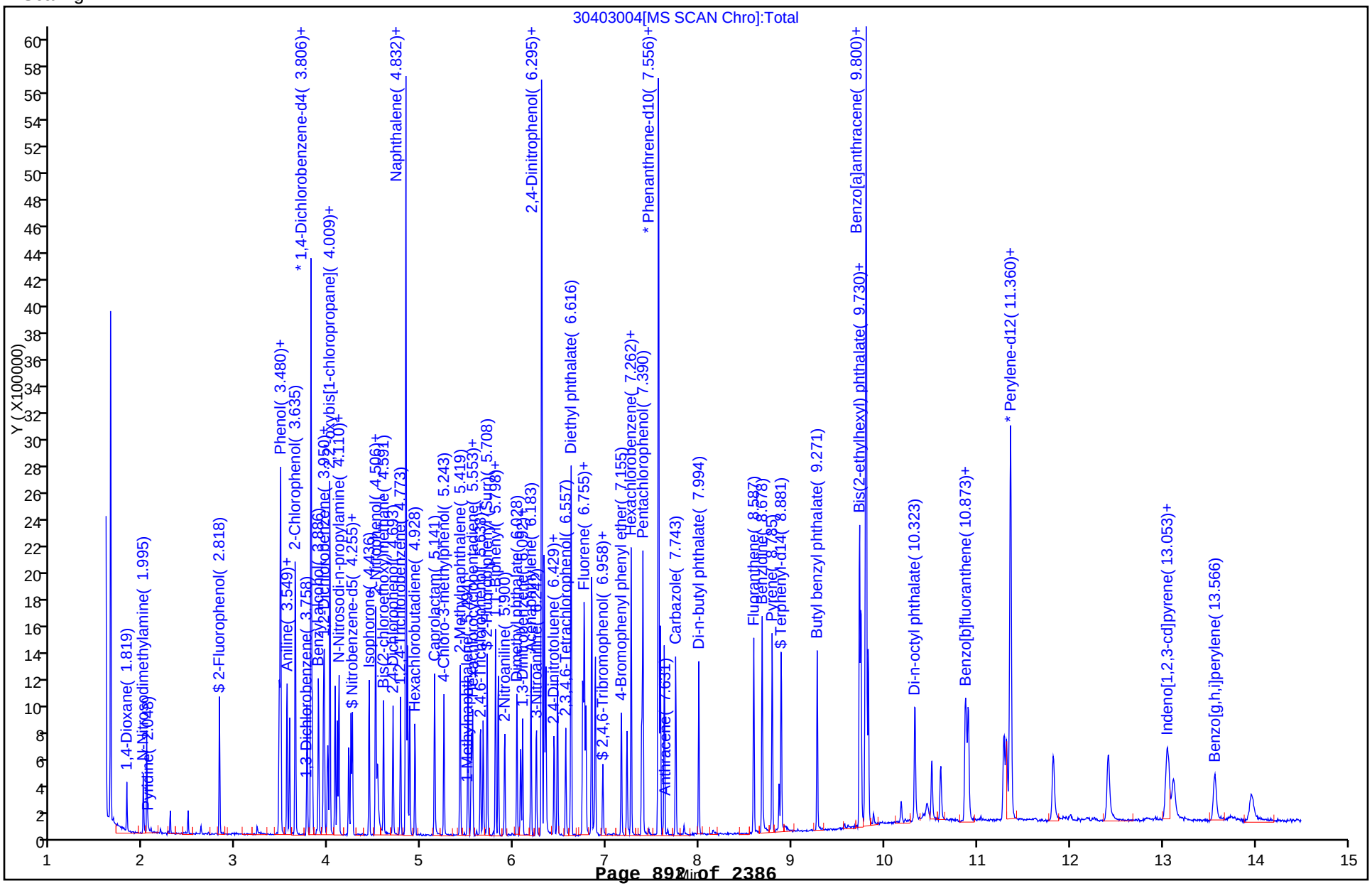
Report Date: 05-Apr-2013 13:11:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403004.D

Injection Date:	04-Apr-2013 13:07:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403005.D		
Lims ID:	std2 lst1	Client ID:	
Inject. Date:	04-Apr-2013 13:27:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018548-005		
Misc. Info.:	STD2 LST1 =STD2 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	80575	Lims Sample ID:	5
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:22	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 13:47:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.806	3.805	0.001	94	382059	4.00	
* 2 Naphthalene-d8	136	4.832	4.831	0.001	99	1679631	4.00	
* 3 Acenaphthene-d10	164	6.296	6.300	-0.004	87	931182	4.00	
* 4 Phenanthrene-d10	188	7.556	7.561	-0.005	97	1567834	4.00	
* 5 Chrysene-d12	240	9.800	9.805	-0.005	78	1579965	4.00	
* 6 Perylene-d12	264	11.360	11.364	-0.004	96	1285998	4.00	
$ 7 2-Fluorophenol	112	2.823	2.817	0.006	90	89757	0.5205	
$ 8 Phenol-d5	99	3.464	3.463	0.001	0	134452	0.5487	
$ 9 Nitrobenzene-d5	82	4.239	4.238	0.001	82	122521	0.4722	
$ 10 2-Fluorobiphenyl (Surr)	172	5.708	5.712	-0.004	98	134049	0.4747	
$ 11 2,4,6-Tribromophenol	330	6.958	6.963	-0.005	69	14915	0.5061	
$ 12 Terphenyl-d14	244	8.881	8.886	-0.005	96	153818	0.4928	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.824	1.818	0.006	92	43044	0.5226	
26 N-Nitrosodimethylamine	74	2.001	1.994	0.007	77	70657	0.4718	
27 Pyridine	79	2.043	2.026	0.017	91	112006	0.4705	
43 Phenol	94	3.475	3.474	0.001	93	121576	0.5045	
41 Benzaldehyde	77	3.480	3.479	0.001	87	198711	1.10	
44 Aniline	93	3.550	3.549	0.001	95	157374	0.4797	
69 Bis(2-chloroethyl)ether	93	3.577	3.576	0.001	92	110622	0.5040	
46 2-Chlorophenol	128	3.641	3.640	0.001	89	66386	0.5088	
47 1,3-Dichlorobenzene	146	3.764	3.768	-0.004	86	66687	0.4975	
48 1,4-Dichlorobenzene	146	3.822	3.821	0.001	73	70380	0.5166	
49 Benzyl alcohol	108	3.886	3.891	-0.005	83	55713	0.4864	
50 1,2-Dichlorobenzene	146	3.945	3.944	0.001	85	65173	0.5068	
51 2-Methylphenol	108	3.951	3.950	0.001	95	80708	0.5084	
53 2,2'-oxybis[1-chloropropane]	45	3.988	3.987	0.001	91	112076	0.4947	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.009	4.014	-0.005	78	286264	1.09	
21 3 & 4 Methylphenol	108	4.068	4.067	0.001	89	79766	0.4768	
57 N-Nitrosodi-n-propylamine	70	4.089	4.094	-0.005	74	87508	0.4916	
58 Acetophenone	105	4.111	4.110	0.001	70	125509	0.4897	
61 Hexachloroethane	117	4.212	4.217	-0.005	90	32359	0.4851	
62 Nitrobenzene	77	4.255	4.254	0.001	76	117964	0.4755	
64 Isophorone	82	4.431	4.436	-0.005	95	206646	0.4937	
65 2,4-Dimethylphenol	107	4.501	4.505	-0.004	92	79384	0.4749	
66 2-Nitrophenol	139	4.506	4.510	-0.004	80	31900	0.4696	
71 Benzoic acid	122		4.553					9
70 Bis(2-chloroethoxy)methane	93	4.592	4.591	0.001	99	115840	0.4775	
73 2,4-Dichlorophenol	162	4.693	4.692	0.001	90	47121	0.4658	
74 1,2,4-Trichlorobenzene	180	4.773	4.778	-0.005	87	53714	0.4918	
75 Naphthalene	128	4.848	4.852	-0.004	96	202317	0.5093	
76 4-Chloroaniline	127	4.869	4.874	-0.005	67	81499	0.4750	
79 Hexachlorobutadiene	225	4.928	4.933	-0.005	83	30475	0.4956	
84 Caprolactam	113	5.137	5.157	-0.021	82	48134	0.9076	
86 4-Chloro-3-methylphenol	107	5.243	5.248	-0.005	86	66934	0.4486	
87 2-Methylnaphthalene	142	5.414	5.419	-0.005	79	124134	0.4817	
88 1-Methylnaphthalene	142	5.500	5.504	-0.004	79	115525	0.4851	
89 Hexachlorocyclopentadiene	237	5.537	5.542	-0.005	93	33337	0.4584	
91 1,2,4,5-Tetrachlorobenzene	216	5.548	5.552	-0.004	87	48109	0.4819	
92 2,4,6-Trichlorophenol	196	5.633	5.638	-0.005	88	33402	0.4860	
93 2,4,5-Trichlorophenol	196	5.665	5.670	-0.005	84	35801	0.4900	
98 1,1'-Biphenyl	154	5.799	5.803	-0.004	96	155942	0.4973	
100 2-Chloronaphthalene	162	5.826	5.830	-0.004	97	110365	0.4757	
102 2-Nitroaniline	65	5.895	5.899	-0.004	63	55980	0.4570	
105 Dimethyl phthalate	163	6.029	6.033	-0.004	93	128490	0.4896	
106 1,3-Dinitrobenzene	168	6.071	6.076	-0.005	76	17132	0.3874	
107 2,6-Dinitrotoluene	165	6.093	6.097	-0.004	71	27171	0.4574	
109 Acenaphthylene	152	6.184	6.183	0.001	88	177018	0.4842	
110 3-Nitroaniline	138	6.237	6.241	-0.004	83	33033	0.4649	
111 2,4-Dinitrophenol	184	6.322	6.327	-0.005	35	24040	1.08	
112 Acenaphthene	153	6.322	6.327	-0.005	86	111943	0.4886	
113 4-Nitrophenol	109	6.338	6.348	-0.010	76	48171	0.8803	
114 2,4-Dinitrotoluene	165	6.429	6.434	-0.005	70	33413	0.4251	
116 Dibenzofuran	168	6.467	6.471	-0.004	83	157689	0.4880	
119 2,3,4,6-Tetrachlorophenol	232	6.558	6.562	-0.004	74	26565	0.4502	
121 Diethyl phthalate	149	6.616	6.621	-0.005	92	125414	0.4893	
123 4-Chlorophenyl phenyl ether	204	6.739	6.744	-0.005	87	61055	0.4905	
126 Fluorene	166	6.755	6.760	-0.005	85	127226	0.4837	
125 4-Nitroaniline	138	6.750	6.760	-0.010	73	29783	0.4196	
128 4,6-Dinitro-2-methylphenol	198	6.777	6.781	-0.004	63	35845	0.7050	
131 N-Nitrosodiphenylamine	169	6.835	6.840	-0.005	98	179468	1.02	
132 1,2-Diphenylhydrazine	77	6.873	6.877	-0.004	99	242332	0.5064	
133 Azobenzene	77	6.873	6.877	-0.004	94	242822	0.5074	
139 4-Bromophenyl phenyl ether	248	7.156	7.160	-0.004	70	33069	0.5094	
141 Hexachlorobenzene	284	7.220	7.224	-0.004	81	28405	0.4472	
142 Atrazine	200	7.263	7.267	-0.004	84	69592	0.9715	
143 Pentachlorophenol	266	7.380	7.379	0.001	79	33828	0.8971	
148 Phenanthrene	178	7.578	7.582	-0.004	98	193525	0.4958	
149 Anthracene	178	7.621	7.625	-0.004	98	179318	0.4631	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.743	7.748	-0.005	83	166479	0.4663	
154 Di-n-butyl phthalate	149	7.995	7.994	0.001	99	201449	0.4771	
159 Fluoranthene	202	8.588	8.592	-0.004	99	191200	0.4637	
160 Benzidine	184	8.678	8.683	-0.005	97	185344	0.2719	
161 Pyrene	202	8.785	8.790	-0.005	94	197460	0.4732	
168 Butyl benzyl phthalate	149	9.271	9.276	-0.005	87	82555	0.4416	
173 Bis(2-ethylhexyl) phthalate	149	9.731	9.730	0.001	91	110027	0.6990	
175 3,3'-Dichlorobenzidine	252	9.741	9.751	-0.010	74	116207	0.8782	
177 Benzo[a]anthracene	228	9.790	9.794	-0.004	87	186650	0.4606	
178 Chrysene	228	9.822	9.826	-0.004	90	174866	0.4693	
180 Di-n-octyl phthalate	149	10.324	10.328	-0.004	97	174958	0.3964	
182 Benzo[b]fluoranthene	252	10.869	10.878	-0.009	92	157498	0.4290	
183 Benzo[k]fluoranthene	252	10.901	10.910	-0.009	81	180146	0.4683	
184 Benzo[a]pyrene	252	11.285	11.290	-0.005	76	151082	0.4439	
188 Indeno[1,2,3-cd]pyrene	276	13.043	13.053	-0.010	95	158609	0.4424	
189 Dibenz(a,h)anthracene	278	13.064	13.074	-0.010	68	125864	0.4225	
190 Benzo[g,h,i]perylene	276	13.561	13.576	-0.015	81	132731	0.4506	
S 245 Total Cresols	100				0		0.9853	
S 191 Methyl Phenols,Total	100				0		0.9853	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

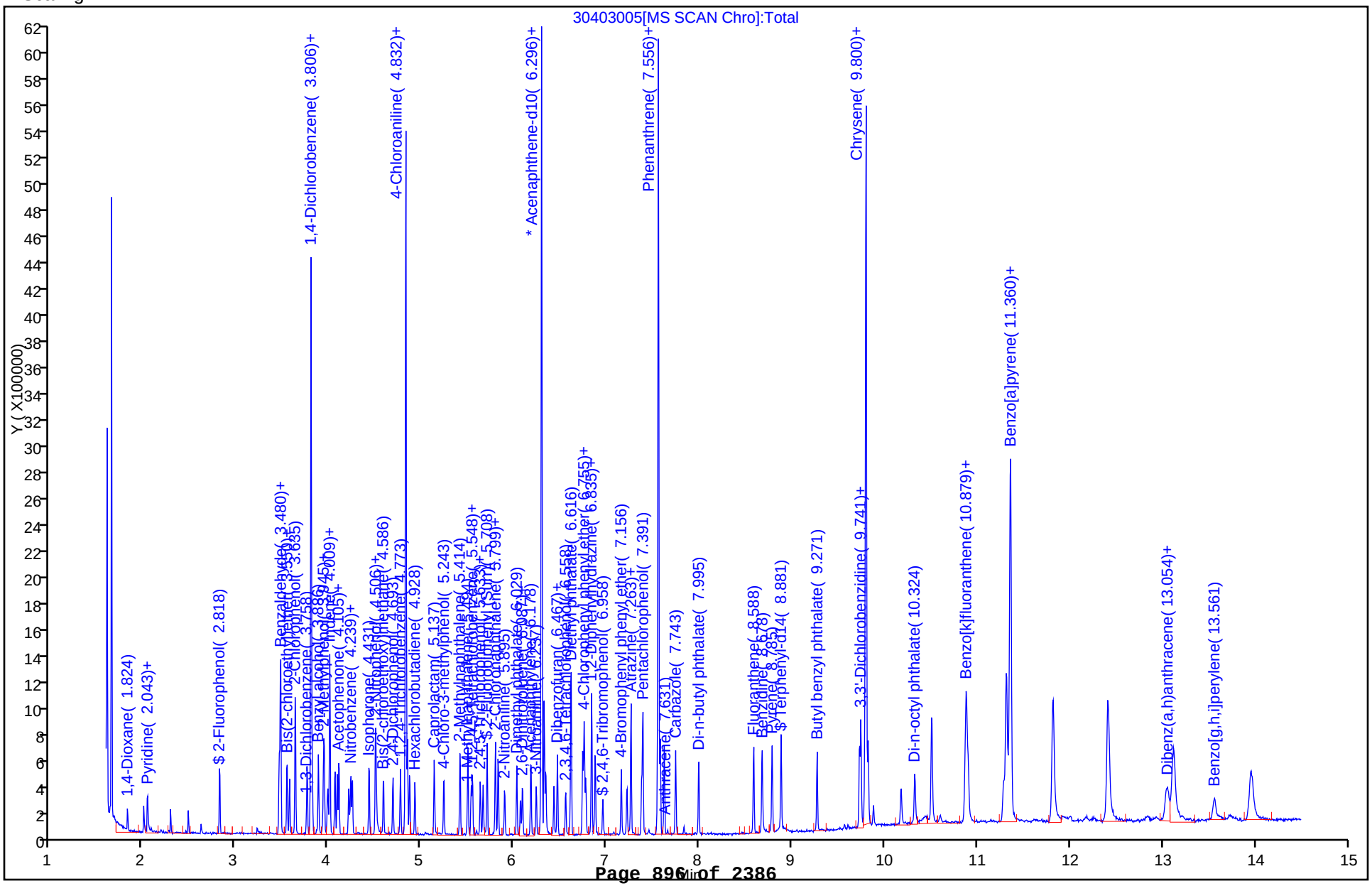
Report Date: 05-Apr-2013 13:13:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403005.D

Injection Date:	04-Apr-2013 13:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403006.D		
Lims ID:	std1 lst1	Client ID:	
Inject. Date:	04-Apr-2013 13:48:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018548-006		
Misc. Info.:	STD1 LST1 =STD1 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	80575	Lims Sample ID:	6
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:23	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 14:20:34

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.805	3.805	0.0	94	372385	4.00	
* 2 Naphthalene-d8	136	4.831	4.831	0.0	99	1628080	4.00	
* 3 Acenaphthene-d10	164	6.300	6.300	0.0	88	899157	4.00	
* 4 Phenanthrene-d10	188	7.561	7.561	0.0	98	1522165	4.00	
* 5 Chrysene-d12	240	9.799	9.805	-0.006	78	1529362	4.00	
* 6 Perylene-d12	264	11.364	11.364	0.0	97	1240409	4.00	
$ 9 Nitrobenzene-d5	82	4.238	4.238	0.0	80	34478	0.1371	
$ 10 2-Fluorobiphenyl (Surr)	172	5.712	5.712	0.0	90	37320	0.1369	
$ 12 Terphenyl-d14	244	8.885	8.886	-0.001	92	41249	0.1365	
41 Benzaldehyde	77	3.479	3.479	0.0	88	40834	0.2324	
75 Naphthalene	128	4.847	4.852	-0.005	78	43083	0.1119	
87 2-Methylnaphthalene	142	5.418	5.419	-0.001	84	27836	0.1114	
88 1-Methylnaphthalene	142	5.504	5.504	0.0	77	24133	0.1045	
98 1,1'-Biphenyl	154	5.798	5.803	-0.005	88	32899	0.1087	
100 2-Chloronaphthalene	162	5.830	5.830	0.0	92	25617	0.1143	
109 Acenaphthylene	152	6.182	6.183	-0.001	88	35942	0.1018	
112 Acenaphthene	153	6.327	6.327	0.0	89	26107	0.1180	
116 Dibenzofuran	168	6.471	6.471	0.0	90	33931	0.1088	
126 Fluorene	166	6.759	6.760	-0.001	74	26425	0.1040	
141 Hexachlorobenzene	284	7.219	7.224	-0.005	68	7543	0.1223	
148 Phenanthrene	178	7.577	7.582	-0.005	85	44338	0.1170	
149 Anthracene	178	7.619	7.625	-0.006	92	37154	0.0988	
159 Fluoranthene	202	8.586	8.592	-0.006	80	44150	0.1103	
161 Pyrene	202	8.784	8.790	-0.006	95	43873	0.1086	
177 Benzo[a]anthracene	228	9.794	9.794	0.0	83	43892	0.1119	
178 Chrysene	228	9.826	9.826	0.0	82	40260	0.1116	
182 Benzo[b]fluoranthene	252	10.873	10.878	-0.005	76	37763	0.1067	
183 Benzo[k]fluoranthene	252	10.905	10.910	-0.005	83	40895	0.1102	
184 Benzo[a]pyrene	252	11.289	11.290	-0.001	60	33357	0.1016	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
188 Indeno[1,2,3-cd]pyrene	276	13.036	13.053	-0.017	84	34405	0.0995	M
189 Dibenz(a,h)anthracene	278	13.074	13.074	0.0	0	26533	0.0923	M
190 Benzo[g,h,i]perylene	276	13.560	13.576	-0.016	69	26253	0.0924	M

QC Flag Legend

Review Flags
M - Manually Integrated

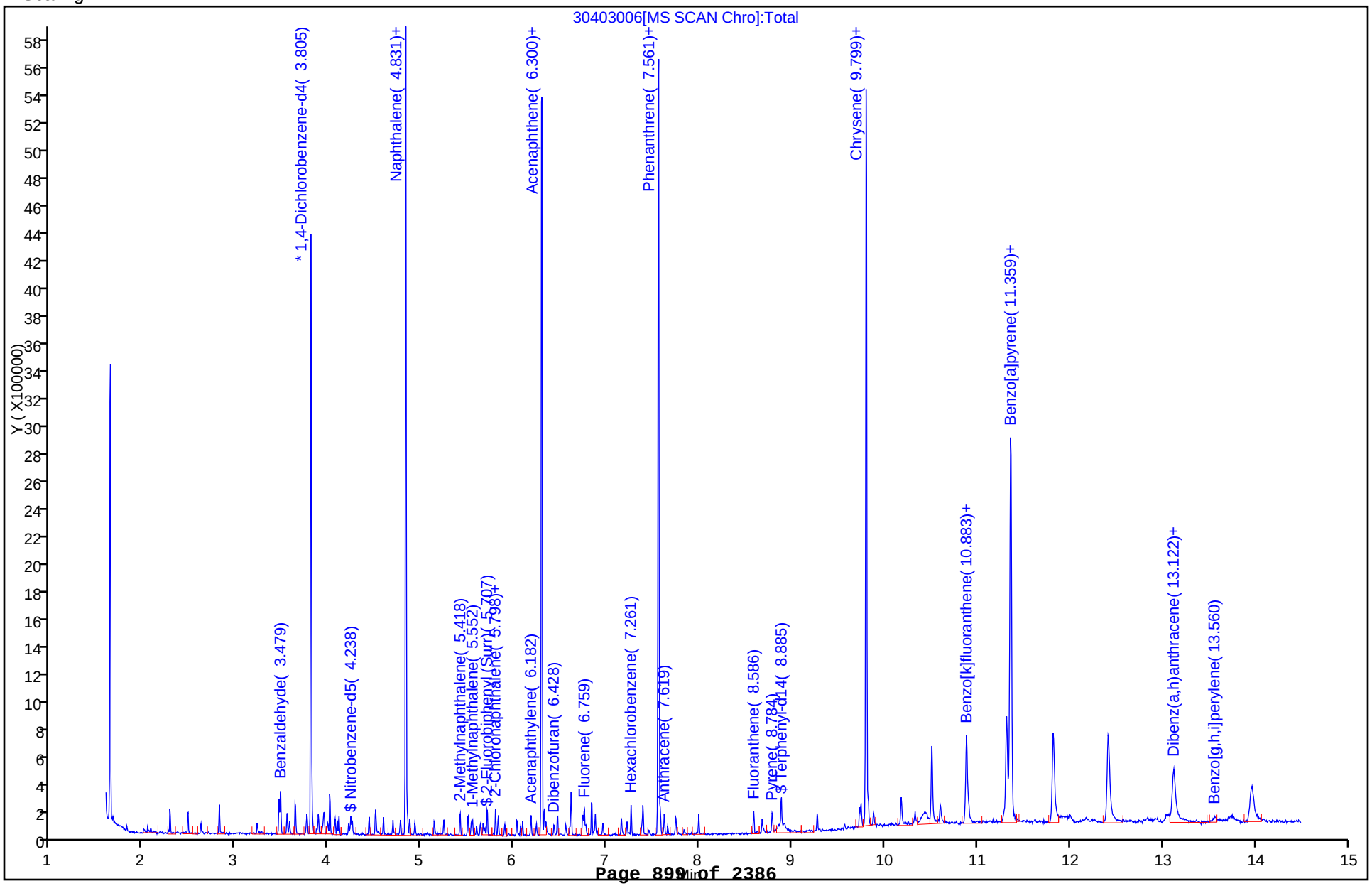
Report Date: 05-Apr-2013 13:13:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403006.D

Injection Date:	04-Apr-2013 13:48:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

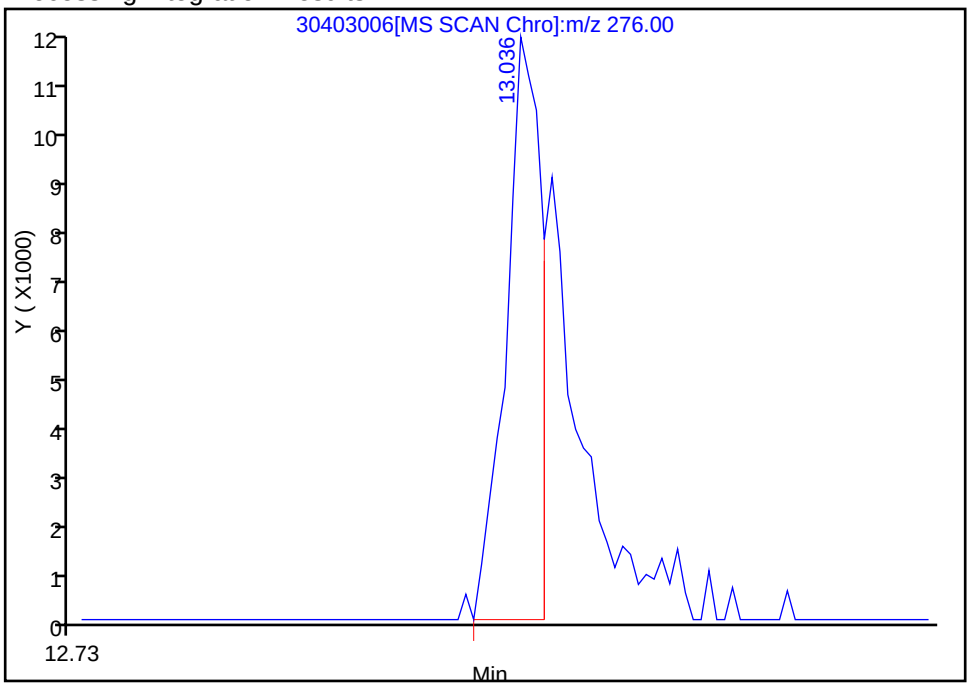
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403006.D		
Injection Date:	04-Apr-2013 13:48:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.05

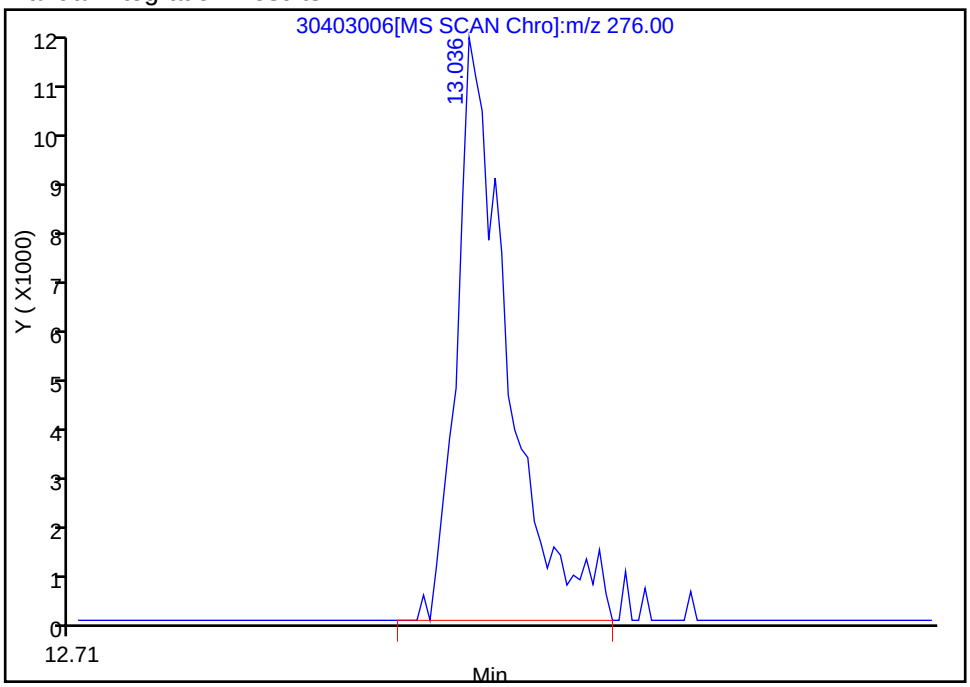
Processing Integration Results

RT: 13.04
Response: 19668
Amount: 0.104844



Manual Integration Results

RT: 13.04
Response: 34405
Amount: 0.099497



Reviewer: ulmanm, 04-Apr-2013 14:20:34
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

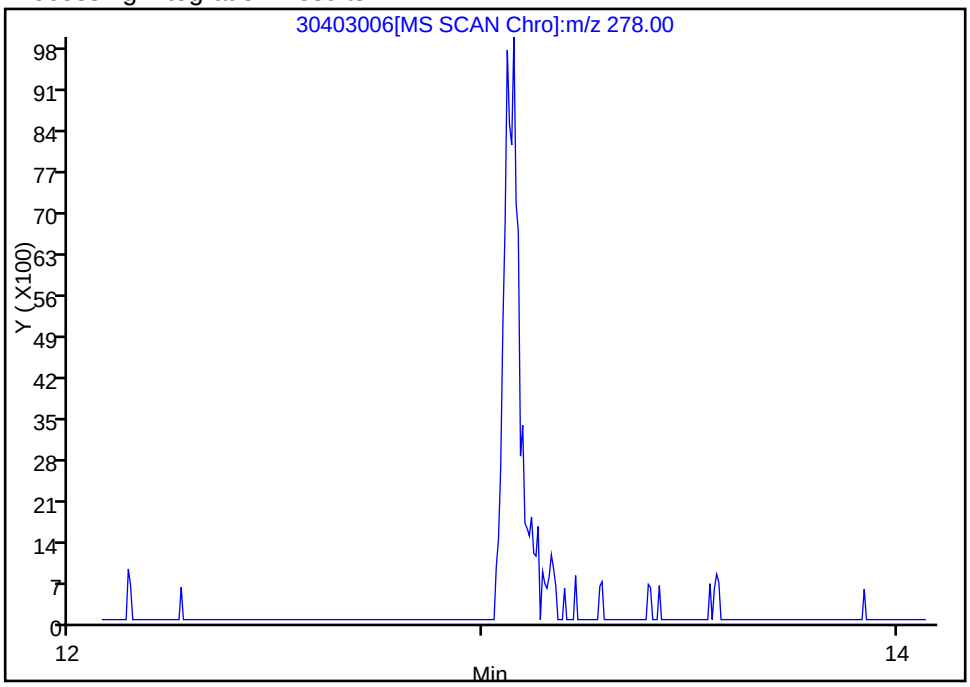
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403006.D		
Injection Date:	04-Apr-2013 13:48:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

189 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 13.07

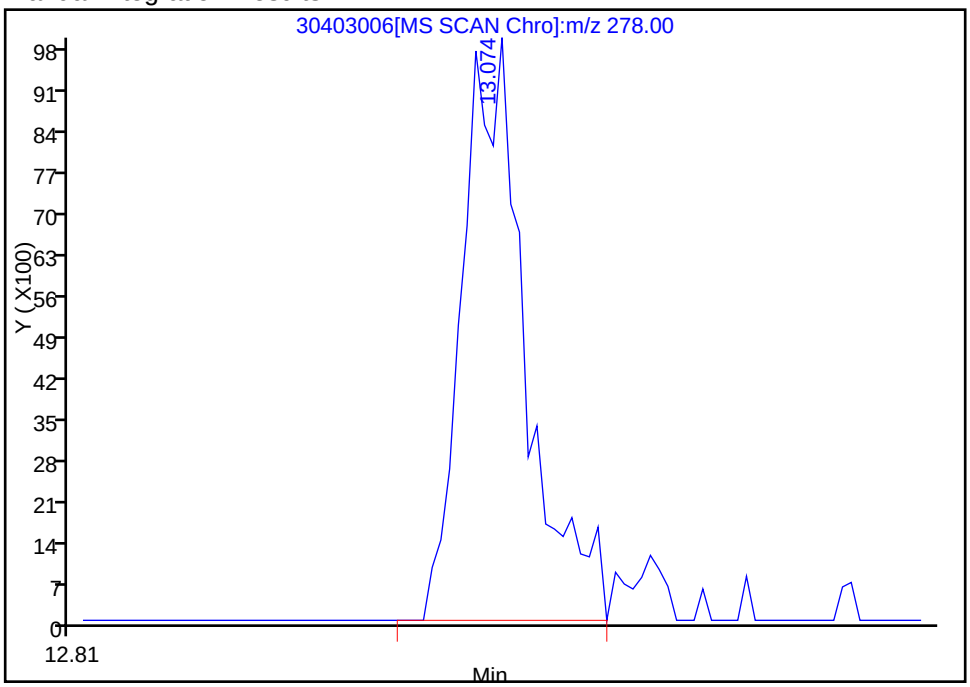
Processing Integration Results

Not Detected
Expected RT: 13.07



Manual Integration Results

RT: 13.07
Response: 26533
Amount: 0.092329



Reviewer: ulmanm, 04-Apr-2013 14:20:34
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

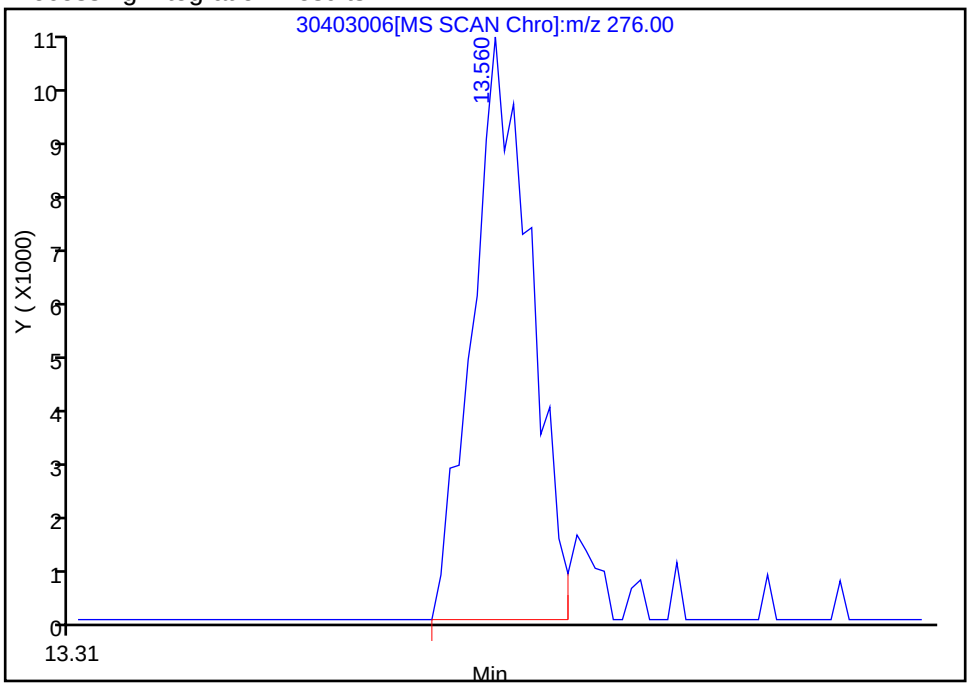
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403006.D		
Injection Date:	04-Apr-2013 13:48:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.58

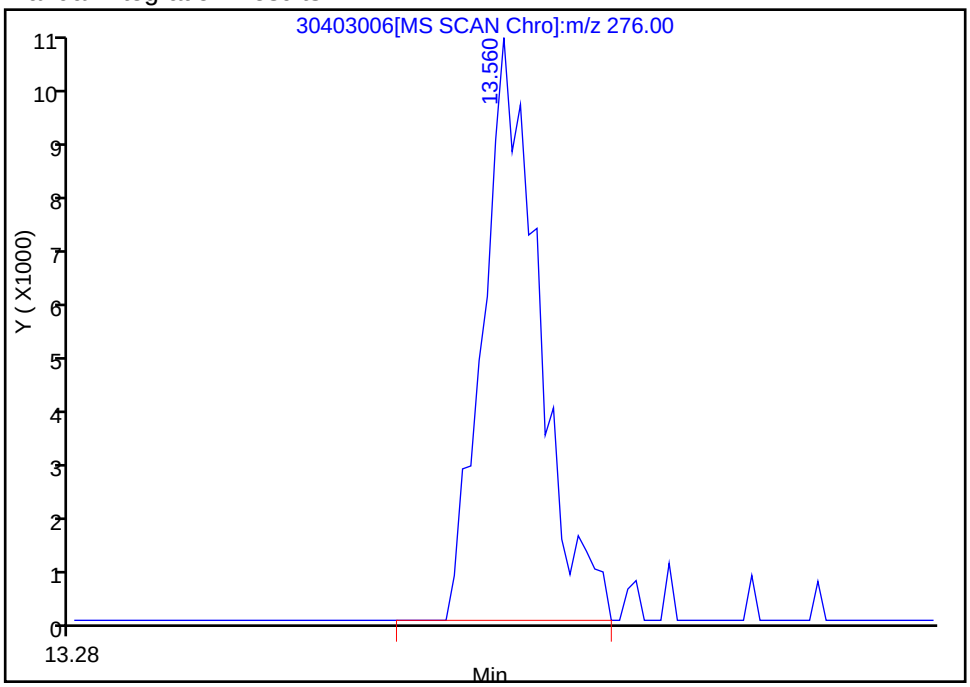
Processing Integration Results

RT: 13.56
Response: 24792
Amount: 0.094046



Manual Integration Results

RT: 13.56
Response: 26253
Amount: 0.092396



Reviewer: ulmanm, 04-Apr-2013 14:20:34
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403007.D		
Lims ID:	std9 lst1	Client ID:	
Inject. Date:	04-Apr-2013 14:08:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	240-0018548-007		
Misc. Info.:	STD9 LST1 =STD9 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	80575	Lims Sample ID:	7
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:25	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 14:35:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.810	3.805	0.005	94	286338	4.00	
* 2 Naphthalene-d8	136	4.835	4.831	0.004	99	1302771	4.00	
* 3 Acenaphthene-d10	164	6.299	6.300	-0.001	85	739243	4.00	
* 4 Phenanthrene-d10	188	7.565	7.561	0.004	97	1224428	4.00	
* 5 Chrysene-d12	240	9.809	9.805	0.004	73	1236169	4.00	
* 6 Perylene-d12	264	11.369	11.364	0.005	89	973366	4.00	
$ 7 2-Fluorophenol	112	2.821	2.817	0.004	94	3381706	26.2	M
$ 8 Phenol-d5	99	3.473	3.463	0.010	0	4684609	25.5	M
$ 9 Nitrobenzene-d5	82	4.248	4.238	0.010	81	5029547	25.0	
$ 10 2-Fluorobiphenyl (Surr)	172	5.717	5.712	0.005	99	5529261	24.7	
$ 11 2,4,6-Tribromophenol	330	6.967	6.963	0.004	77	588368	25.2	
$ 12 Terphenyl-d14	244	8.890	8.886	0.004	98	6159160	25.2	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.812	1.818	-0.006	91	1555026	25.2	
26 N-Nitrosodimethylamine	74	1.993	1.994	-0.001	85	2892356	25.8	
27 Pyridine	79	2.020	2.026	-0.006	92	4993750	28.0	
43 Phenol	94	3.484	3.474	0.010	97	4487572	24.8	
41 Benzaldehyde	77	3.484	3.479	0.005	86	5670737	42.0	
44 Aniline	93	3.559	3.549	0.010	98	6565141	26.7	
69 Bis(2-chloroethyl)ether	93	3.580	3.576	0.004	95	4459113	27.1	
46 2-Chlorophenol	128	3.644	3.640	0.004	89	2506704	25.6	
47 1,3-Dichlorobenzene	146	3.767	3.768	-0.001	88	2569005	25.6	
48 1,4-Dichlorobenzene	146	3.826	3.821	0.005	86	2610285	25.6	
49 Benzyl alcohol	108	3.895	3.891	0.004	83	2288478	26.7	
50 1,2-Dichlorobenzene	146	3.943	3.944	-0.001	85	2487630	25.8	
51 2-Methylphenol	108	3.959	3.950	0.009	95	3144946	26.4	
53 2,2'-oxybis[1-chloropropane]	45	3.991	3.987	0.004	92	4431975	26.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.013	4.014	-0.001	67	8363273	42.3	
21 3 & 4 Methylphenol	108	4.082	4.067	0.015	93	3400767	27.1	
57 N-Nitrosodi-n-propylamine	70	4.109	4.094	0.015	68	3509179	26.3	
58 Acetophenone	105	4.119	4.110	0.009	83	5104977	26.6	
61 Hexachloroethane	117	4.216	4.217	-0.001	92	1282276	25.6	
62 Nitrobenzene	77	4.264	4.254	0.010	74	5135045	26.7	
64 Isophorone	82	4.445	4.436	0.009	96	8092099	24.9	
65 2,4-Dimethylphenol	107	4.509	4.505	0.004	93	3258879	25.1	
66 2-Nitrophenol	139	4.515	4.510	0.005	84	1340964	25.4	
71 Benzoic acid	122	4.616	4.553	0.063	83	3936371	50.7	M
70 Bis(2-chloroethoxy)methane	93	4.595	4.591	0.004	98	4864717	25.9	
73 2,4-Dichlorophenol	162	4.702	4.692	0.010	94	2036391	26.0	
74 1,2,4-Trichlorobenzene	180	4.777	4.778	-0.001	85	2198089	25.9	
75 Naphthalene	128	4.851	4.852	-0.001	98	7008851	22.7	
76 4-Chloroaniline	127	4.878	4.874	0.004	78	3506078	26.3	
79 Hexachlorobutadiene	225	4.931	4.933	-0.002	88	1204424	25.3	
84 Caprolactam	113	5.204	5.157	0.047	81	2216916	53.9	M
86 4-Chloro-3-methylphenol	107	5.263	5.248	0.015	80	3046387	26.3	
87 2-Methylnaphthalene	142	5.423	5.419	0.004	84	5061151	25.3	
88 1-Methylnaphthalene	142	5.508	5.504	0.004	79	4688654	25.4	
89 Hexachlorocyclopentadiene	237	5.540	5.542	-0.002	88	1532549	26.5	
91 1,2,4,5-Tetrachlorobenzene	216	5.557	5.552	0.004	93	2026605	25.6	
92 2,4,6-Trichlorophenol	196	5.642	5.638	0.004	88	1367482	25.1	
93 2,4,5-Trichlorophenol	196	5.679	5.670	0.009	86	1477677	25.5	
98 1,1'-Biphenyl	154	5.808	5.803	0.005	96	6152059	24.7	
100 2-Chloronaphthalene	162	5.834	5.830	0.004	97	4671140	25.4	
102 2-Nitroaniline	65	5.909	5.899	0.010	70	2556746	26.3	
105 Dimethyl phthalate	163	6.043	6.033	0.010	94	5456678	26.2	
106 1,3-Dinitrobenzene	168	6.085	6.076	0.009	79	949301	27.0	
107 2,6-Dinitrotoluene	165	6.101	6.097	0.004	72	1226689	26.0	
109 Acenaphthylene	152	6.187	6.183	0.004	95	7246343	25.0	
110 3-Nitroaniline	138	6.256	6.241	0.015	87	1483956	26.3	
111 2,4-Dinitrophenol	184	6.342	6.327	0.015	75	1747999	50.7	
112 Acenaphthene	153	6.331	6.327	0.004	90	4501674	24.8	
113 4-Nitrophenol	109	6.369	6.348	0.021	86	2342961	53.9	
114 2,4-Dinitrotoluene	165	6.443	6.434	0.009	77	1663017	26.6	
116 Dibenzofuran	168	6.475	6.471	0.004	84	6484219	25.3	
119 2,3,4,6-Tetrachlorophenol	232	6.566	6.562	0.004	75	1223631	26.1	
121 Diethyl phthalate	149	6.630	6.621	0.009	95	5279562	25.9	
123 4-Chlorophenyl phenyl ether	204	6.748	6.744	0.004	94	2540305	25.7	
126 Fluorene	166	6.769	6.760	0.009	75	5340982	25.6	
125 4-Nitroaniline	138	6.775	6.760	0.015	77	1477405	26.2	
128 4,6-Dinitro-2-methylphenol	198	6.796	6.781	0.015	70	2259679	56.9	
131 N-Nitrosodiphenylamine	169	6.849	6.840	0.009	98	6869182	50.2	
132 1,2-Diphenylhydrazine	77	6.881	6.877	0.004	98	8117053	21.7	
133 Azobenzene	77	6.881	6.877	0.004	99	8117037	21.7	
139 4-Bromophenyl phenyl ether	248	7.164	7.160	0.004	71	1305997	25.8	
141 Hexachlorobenzene	284	7.229	7.224	0.005	86	1246430	25.1	
142 Atrazine	200	7.282	7.267	0.015	83	2668366	47.7	
143 Pentachlorophenol	266	7.389	7.379	0.010	81	1664339	56.5	
148 Phenanthrene	178	7.587	7.582	0.005	98	7265275	23.8	
149 Anthracene	178	7.629	7.625	0.004	87	7596601	25.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.752	7.748	0.004	83	7369056	26.4	
154 Di-n-butyl phthalate	149	7.998	7.994	0.004	99	7866767	23.9	
159 Fluoranthene	202	8.591	8.592	-0.001	99	7777523	24.2	
160 Benzidine	184	8.687	8.683	0.004	99	5747132	49.5	
161 Pyrene	202	8.794	8.790	0.004	91	8131505	24.9	
168 Butyl benzyl phthalate	149	9.275	9.276	-0.001	87	4039377	27.6	
173 Bis(2-ethylhexyl) phthalate	149	9.734	9.730	0.004	95	5642269	25.6	
175 3,3'-Dichlorobenzidine	252	9.761	9.751	0.010	58	5799839	56.0	
177 Benzo[a]anthracene	228	9.798	9.794	0.004	89	8507516	26.8	
178 Chrysene	228	9.836	9.826	0.010	93	7628834	26.2	
180 Di-n-octyl phthalate	149	10.332	10.328	0.004	99	9247877	27.7	
182 Benzo[b]fluoranthene	252	10.888	10.878	0.010	85	7703450	27.7	
183 Benzo[k]fluoranthene	252	10.925	10.910	0.015	86	8175697	28.1	
184 Benzo[a]pyrene	252	11.310	11.290	0.020	77	7273323	28.2	
188 Indeno[1,2,3-cd]pyrene	276	13.084	13.053	0.031	91	7646058	28.2	
189 Dibenz(a,h)anthracene	278	13.110	13.074	0.036	87	6571877	29.1	
190 Benzo[g,h,i]perylene	276	13.618	13.576	0.042	91	6345461	28.5	
S 245 Total Cresols	100				0		53.6	
S 191 Methyl Phenols,Total	100				0		53.6	

QC Flag Legend

Review Flags
M - Manually Integrated

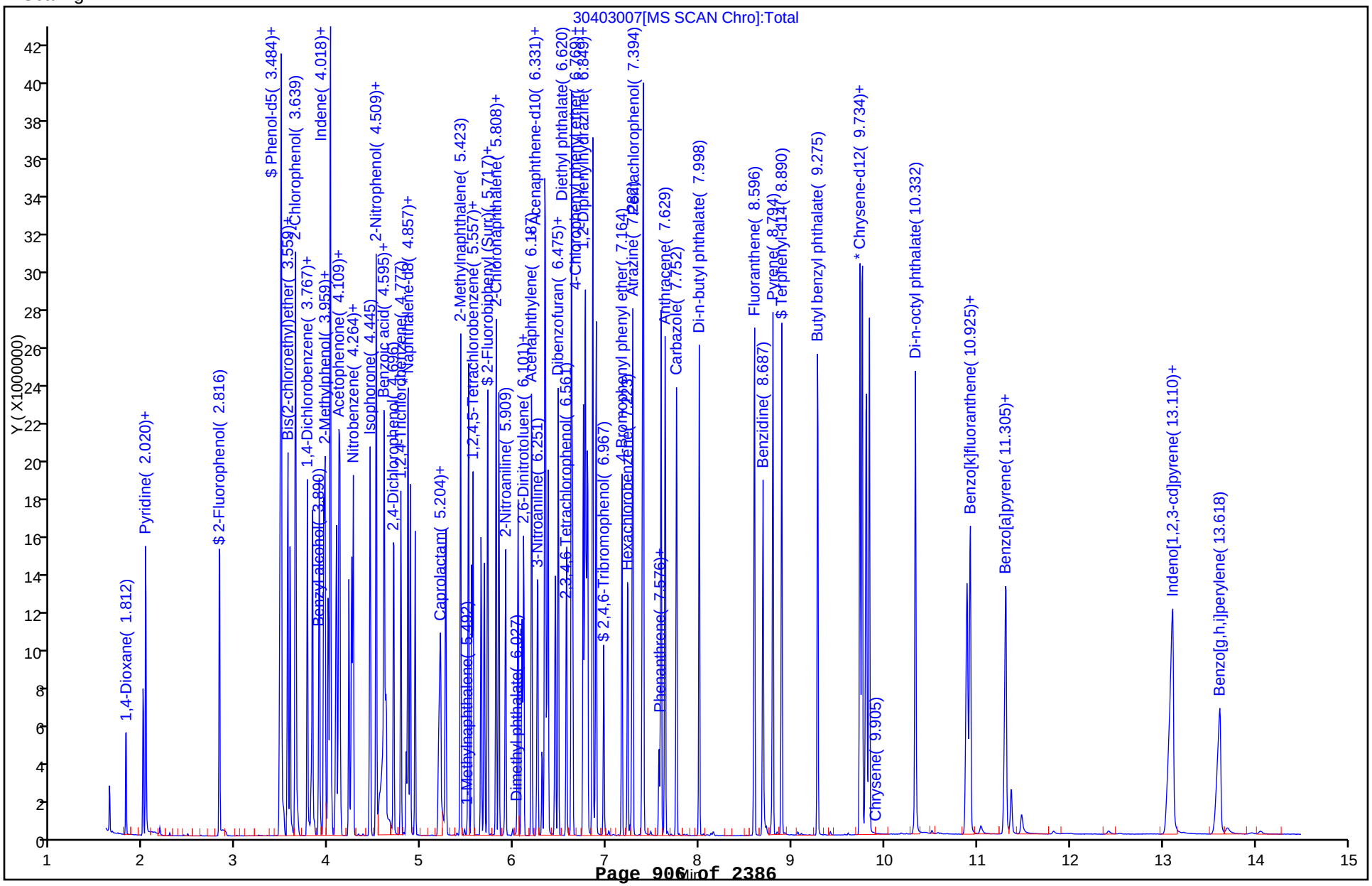
Report Date: 05-Apr-2013 13:13:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403007.D

Injection Date:	04-Apr-2013 14:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

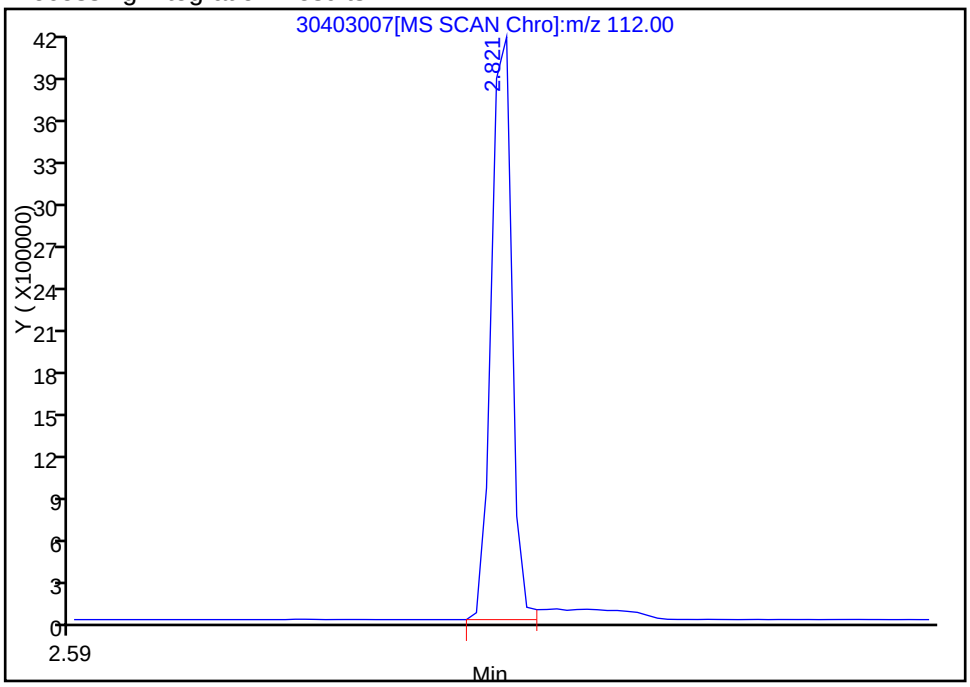
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403007.D		
Injection Date:	04-Apr-2013 14:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

$ 7 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 2.82

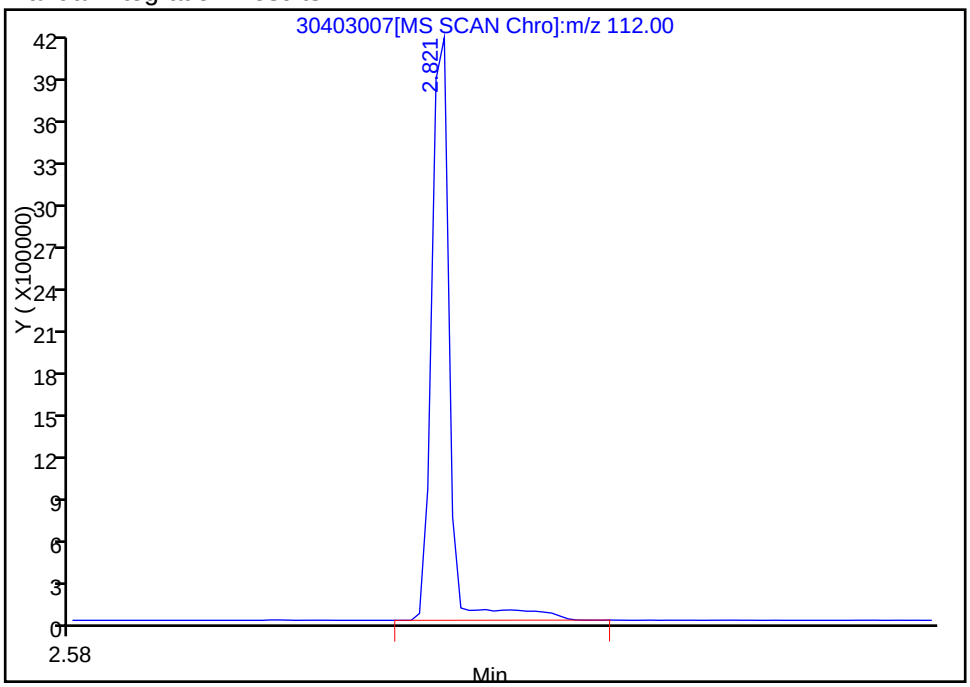
Processing Integration Results

RT: 2.82
Response: 3160532
Amount: 36.921708



Manual Integration Results

RT: 2.82
Response: 3381706
Amount: 26.168087



Reviewer: ulmanm, 04-Apr-2013 14:35:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

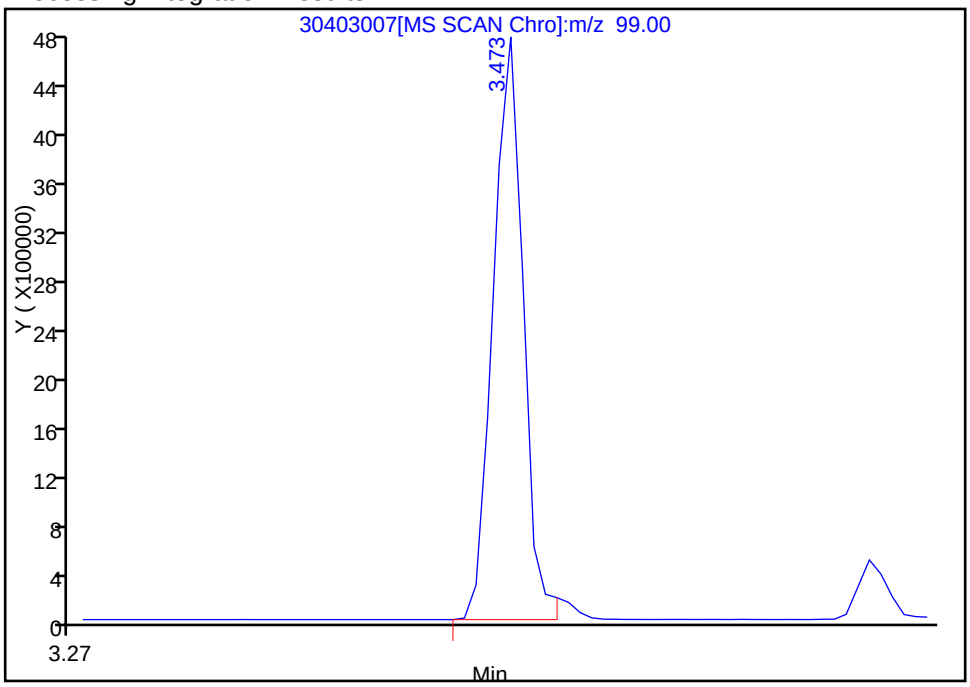
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403007.D		
Injection Date:	04-Apr-2013 14:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

$ 8 Phenol-d5, Signal: 1, m/z: 99.0 Type: quant, RT: 3.46

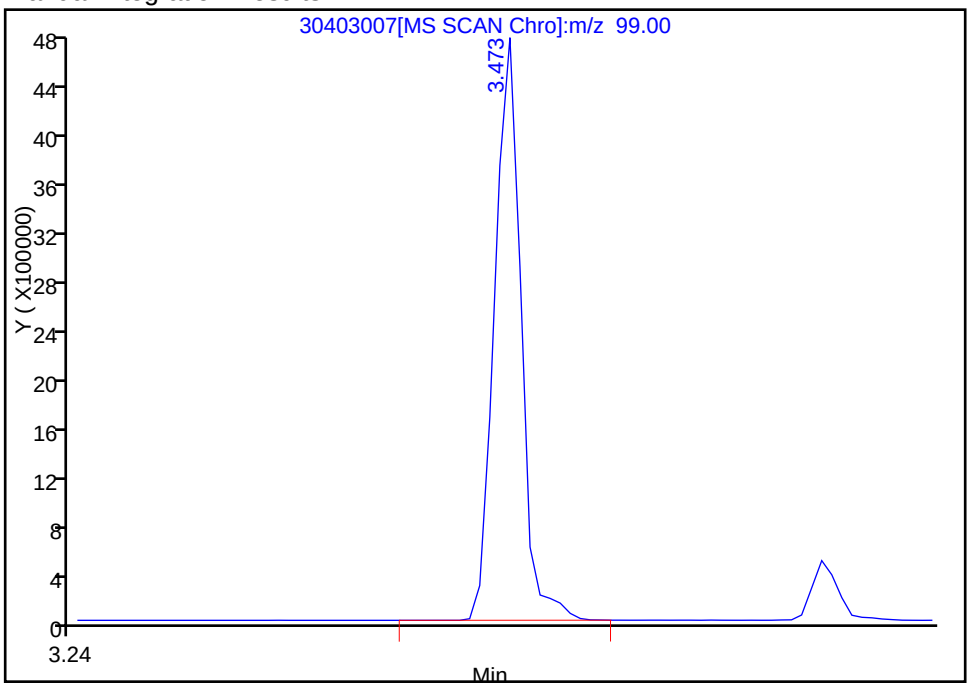
Processing Integration Results

RT: 3.47
Response: 4617705
Amount: 37.255659



Manual Integration Results

RT: 3.47
Response: 4684609
Amount: 25.509708



Reviewer: ulmanm, 04-Apr-2013 14:35:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

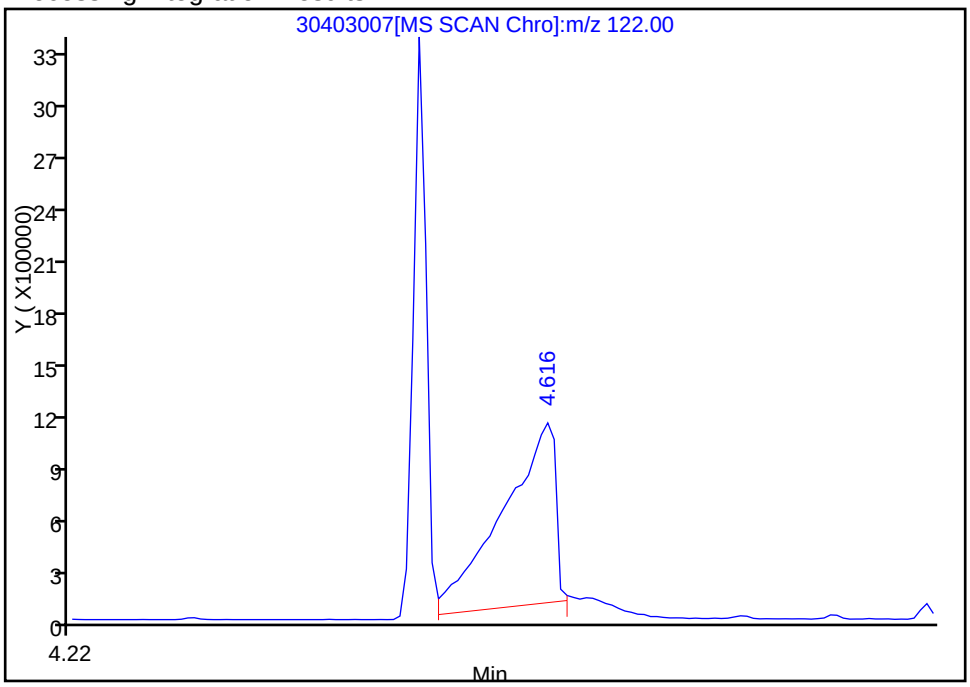
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403007.D		
Injection Date:	04-Apr-2013 14:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.55

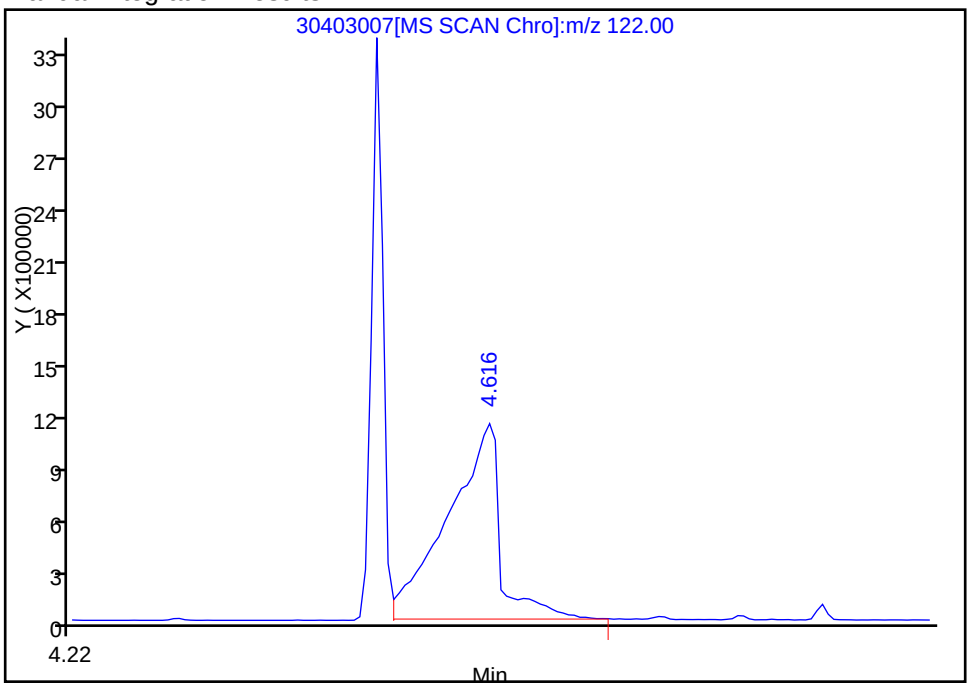
Processing Integration Results

RT: 4.62
Response: 3207265
Amount: 56.987595



Manual Integration Results

RT: 4.62
Response: 3936371
Amount: 50.706814



Reviewer: ulmanm, 04-Apr-2013 14:35:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

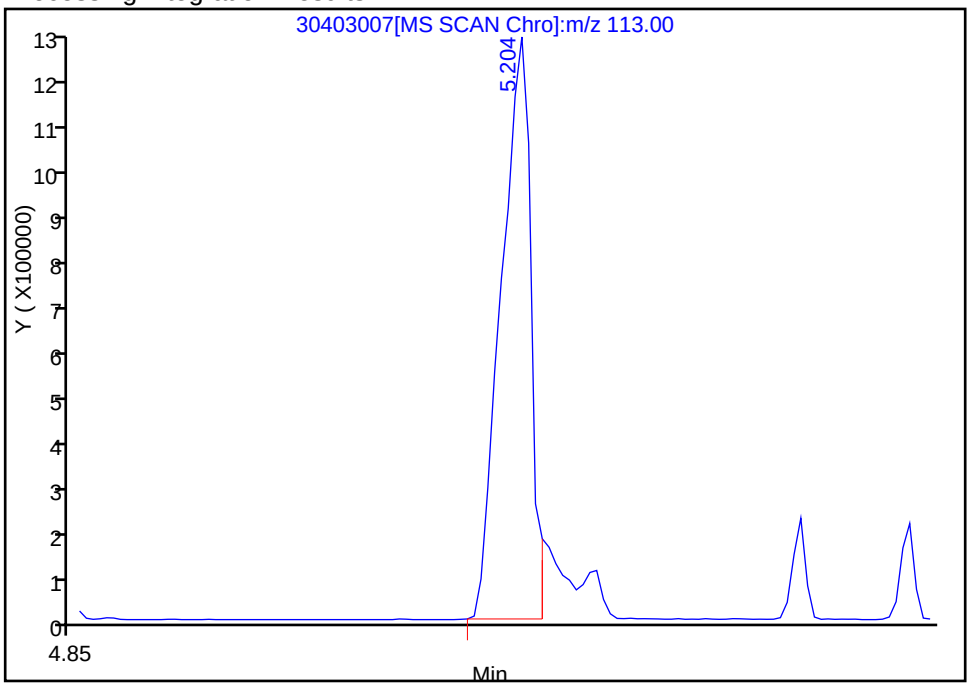
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403007.D		
Injection Date:	04-Apr-2013 14:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

84 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.16

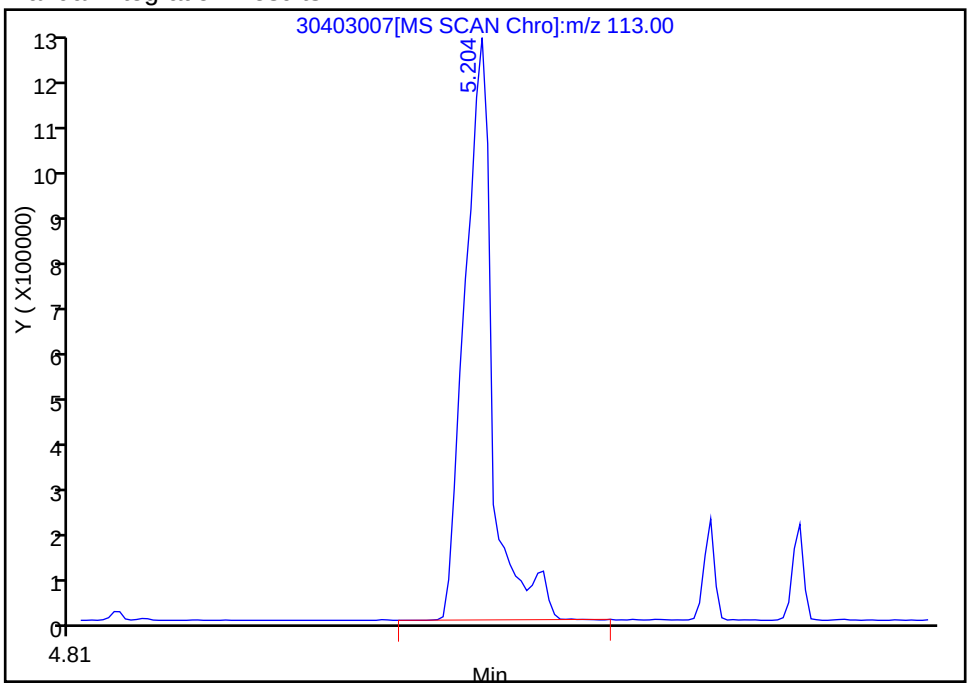
Processing Integration Results

RT: 5.20
Response: 1953959
Amount: 24.618850



Manual Integration Results

RT: 5.20
Response: 2216916
Amount: 53.893286



Reviewer: ulmanm, 04-Apr-2013 14:35:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403008.D		
Lims ID:	std8 lst1	Client ID:	
Inject. Date:	04-Apr-2013 14:28:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	240-0018548-008		
Misc. Info.:	STD8 LST1 =STD8 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	80575	Lims Sample ID:	8
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:26	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 14:53:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.810	3.805	0.005	94	354476	4.00	
* 2 Naphthalene-d8	136	4.836	4.831	0.005	99	1578665	4.00	
* 3 Acenaphthene-d10	164	6.299	6.300	-0.001	82	907371	4.00	
* 4 Phenanthrene-d10	188	7.565	7.561	0.004	97	1510832	4.00	
* 5 Chrysene-d12	240	9.809	9.805	0.004	74	1547744	4.00	
* 6 Perylene-d12	264	11.369	11.364	0.005	96	1235577	4.00	
$ 7 2-Fluorophenol	112	2.822	2.817	0.005	94	3305068	20.7	
$ 8 Phenol-d5	99	3.473	3.463	0.010	0	4640652	20.4	
$ 9 Nitrobenzene-d5	82	4.248	4.238	0.010	81	5031517	20.6	
$ 10 2-Fluorobiphenyl (Surr)	172	5.717	5.712	0.005	99	5543641	20.1	
$ 11 2,4,6-Tribromophenol	330	6.967	6.963	0.004	81	591213	20.6	
$ 12 Terphenyl-d14	244	8.890	8.886	0.004	98	6187307	20.2	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.812	1.818	-0.006	93	1569667	20.5	
26 N-Nitrosodimethylamine	74	1.999	1.994	0.005	83	2949761	21.2	
27 Pyridine	79	2.026	2.026	0.0	91	4923242	22.3	
43 Phenol	94	3.484	3.474	0.010	96	4610474	20.6	
41 Benzaldehyde	77	3.484	3.479	0.005	86	5699138	34.1	
44 Aniline	93	3.559	3.549	0.010	97	6608849	21.7	
69 Bis(2-chloroethyl)ether	93	3.580	3.576	0.004	95	4375651	21.5	
46 2-Chlorophenol	128	3.644	3.640	0.004	87	2532052	20.9	
47 1,3-Dichlorobenzene	146	3.767	3.768	-0.001	88	2601292	20.9	
48 1,4-Dichlorobenzene	146	3.826	3.821	0.005	86	2667057	21.1	
49 Benzyl alcohol	108	3.895	3.891	0.004	83	2288153	21.5	
50 1,2-Dichlorobenzene	146	3.944	3.944	0.0	86	2504999	21.0	
51 2-Methylphenol	108	3.960	3.950	0.010	95	3126138	21.2	
53 2,2'-oxybis[1-chloropropane]	45	3.992	3.987	0.005	92	4450294	21.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.013	4.014	-0.001	68	8192895	33.5	
21 3 & 4 Methylphenol	108	4.082	4.067	0.015	94	3353757	21.6	
57 N-Nitrosodi-n-propylamine	70	4.109	4.094	0.015	69	3531759	21.4	
58 Acetophenone	105	4.120	4.110	0.010	82	5090916	21.4	
61 Hexachloroethane	117	4.216	4.217	-0.001	88	1283413	20.7	
62 Nitrobenzene	77	4.264	4.254	0.010	73	5124728	22.0	
64 Isophorone	82	4.446	4.436	0.010	96	7970612	20.3	
65 2,4-Dimethylphenol	107	4.510	4.505	0.005	94	3271934	20.8	
66 2-Nitrophenol	139	4.515	4.510	0.005	88	1334706	20.9	
71 Benzoic acid	122	4.617	4.553	0.064	83	3966964	42.4	M
70 Bis(2-chloroethoxy)methane	93	4.595	4.591	0.004	97	4833162	21.2	
73 2,4-Dichlorophenol	162	4.702	4.692	0.010	95	2062882	21.7	
74 1,2,4-Trichlorobenzene	180	4.777	4.778	-0.001	85	2188615	21.3	
75 Naphthalene	128	4.852	4.852	0.0	98	7078851	19.0	
76 4-Chloroaniline	127	4.878	4.874	0.004	79	3499160	21.7	
79 Hexachlorobutadiene	225	4.932	4.933	-0.001	88	1223440	21.2	
84 Caprolactam	113	5.204	5.157	0.047	81	2235085	44.8	M
86 4-Chloro-3-methylphenol	107	5.263	5.248	0.015	82	3044726	21.7	
87 2-Methylnaphthalene	142	5.423	5.419	0.004	84	5086809	21.0	
88 1-Methylnaphthalene	142	5.509	5.504	0.005	79	4750347	21.2	
89 Hexachlorocyclopentadiene	237	5.541	5.542	-0.001	83	1542459	21.8	
91 1,2,4,5-Tetrachlorobenzene	216	5.557	5.552	0.005	94	2002465	20.6	
92 2,4,6-Trichlorophenol	196	5.642	5.638	0.004	89	1378996	20.6	
93 2,4,5-Trichlorophenol	196	5.680	5.670	0.010	86	1487730	20.9	
98 1,1'-Biphenyl	154	5.808	5.803	0.005	95	6311905	20.7	
100 2-Chloronaphthalene	162	5.835	5.830	0.005	97	4686254	20.7	
102 2-Nitroaniline	65	5.909	5.899	0.010	71	2595215	21.7	
105 Dimethyl phthalate	163	6.043	6.033	0.010	94	5522235	21.6	
106 1,3-Dinitrobenzene	168	6.086	6.076	0.010	79	968106	22.5	
107 2,6-Dinitrotoluene	165	6.102	6.097	0.005	59	1240011	21.4	
109 Acenaphthylene	152	6.187	6.183	0.004	95	7306689	20.5	
110 3-Nitroaniline	138	6.257	6.241	0.016	86	1486993	21.5	
111 2,4-Dinitrophenol	184	6.342	6.327	0.015	72	1766338	41.8	
112 Acenaphthene	153	6.331	6.327	0.004	90	4483598	20.1	
113 4-Nitrophenol	109	6.369	6.348	0.021	85	2334438	43.8	
114 2,4-Dinitrotoluene	165	6.449	6.434	0.015	75	1676927	21.9	
116 Dibenzofuran	168	6.476	6.471	0.005	83	6454990	20.5	
119 2,3,4,6-Tetrachlorophenol	232	6.567	6.562	0.005	75	1218090	21.2	
121 Diethyl phthalate	149	6.631	6.621	0.010	95	5315359	21.3	
123 4-Chlorophenyl phenyl ether	204	6.748	6.744	0.004	94	2556538	21.1	
126 Fluorene	166	6.764	6.760	0.004	75	5364516	20.9	
125 4-Nitroaniline	138	6.775	6.760	0.015	72	1463122	21.2	
128 4,6-Dinitro-2-methylphenol	198	6.791	6.781	0.010	67	2288403	46.7	
131 N-Nitrosodiphenylamine	169	6.850	6.840	0.010	98	6804380	40.3	
132 1,2-Diphenylhydrazine	77	6.882	6.877	0.005	96	8113875	17.6	
133 Azobenzene	77	6.882	6.877	0.005	98	8113875	17.6	
139 4-Bromophenyl phenyl ether	248	7.165	7.160	0.005	71	1313360	21.0	
141 Hexachlorobenzene	284	7.229	7.224	0.005	86	1273177	20.8	
142 Atrazine	200	7.282	7.267	0.015	80	2716978	39.4	
143 Pentachlorophenol	266	7.384	7.379	0.005	81	1685435	46.4	
148 Phenanthrene	178	7.587	7.582	0.005	97	7353212	19.6	
149 Anthracene	178	7.630	7.625	0.005	87	7523676	20.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.752	7.748	0.004	84	7131371	20.7	
154 Di-n-butyl phthalate	149	7.998	7.994	0.004	97	7787447	19.1	
159 Fluoranthene	202	8.591	8.592	-0.001	99	7921807	19.9	
160 Benzidine	184	8.687	8.683	0.004	99	6254340	42.0	
161 Pyrene	202	8.794	8.790	0.004	91	8137074	19.9	
168 Butyl benzyl phthalate	149	9.280	9.276	0.004	89	4013762	21.9	
173 Bis(2-ethylhexyl) phthalate	149	9.734	9.730	0.004	95	5585854	20.3	
175 3,3'-Dichlorobenzidine	252	9.761	9.751	0.010	59	5650809	43.6	
177 Benzo[a]anthracene	228	9.799	9.794	0.004	89	8643176	21.8	
178 Chrysene	228	9.836	9.826	0.010	93	7742709	21.2	
180 Di-n-octyl phthalate	149	10.333	10.328	0.005	99	9403055	22.2	
182 Benzo[b]fluoranthene	252	10.888	10.878	0.010	88	7740342	21.9	
183 Benzo[k]fluoranthene	252	10.926	10.910	0.016	86	8253830	22.3	
184 Benzo[a]pyrene	252	11.310	11.290	0.020	78	7321248	22.4	
188 Indeno[1,2,3-cd]pyrene	276	13.095	13.053	0.042	89	7804767	22.7	
189 Dibenz(a,h)anthracene	278	13.111	13.074	0.037	90	6719549	23.5	
190 Benzo[g,h,i]perylene	276	13.618	13.576	0.042	91	6510943	23.0	
S 245 Total Cresols	100				0		42.8	
S 191 Methyl Phenols,Total	100				0		42.8	

QC Flag Legend

Review Flags
M - Manually Integrated

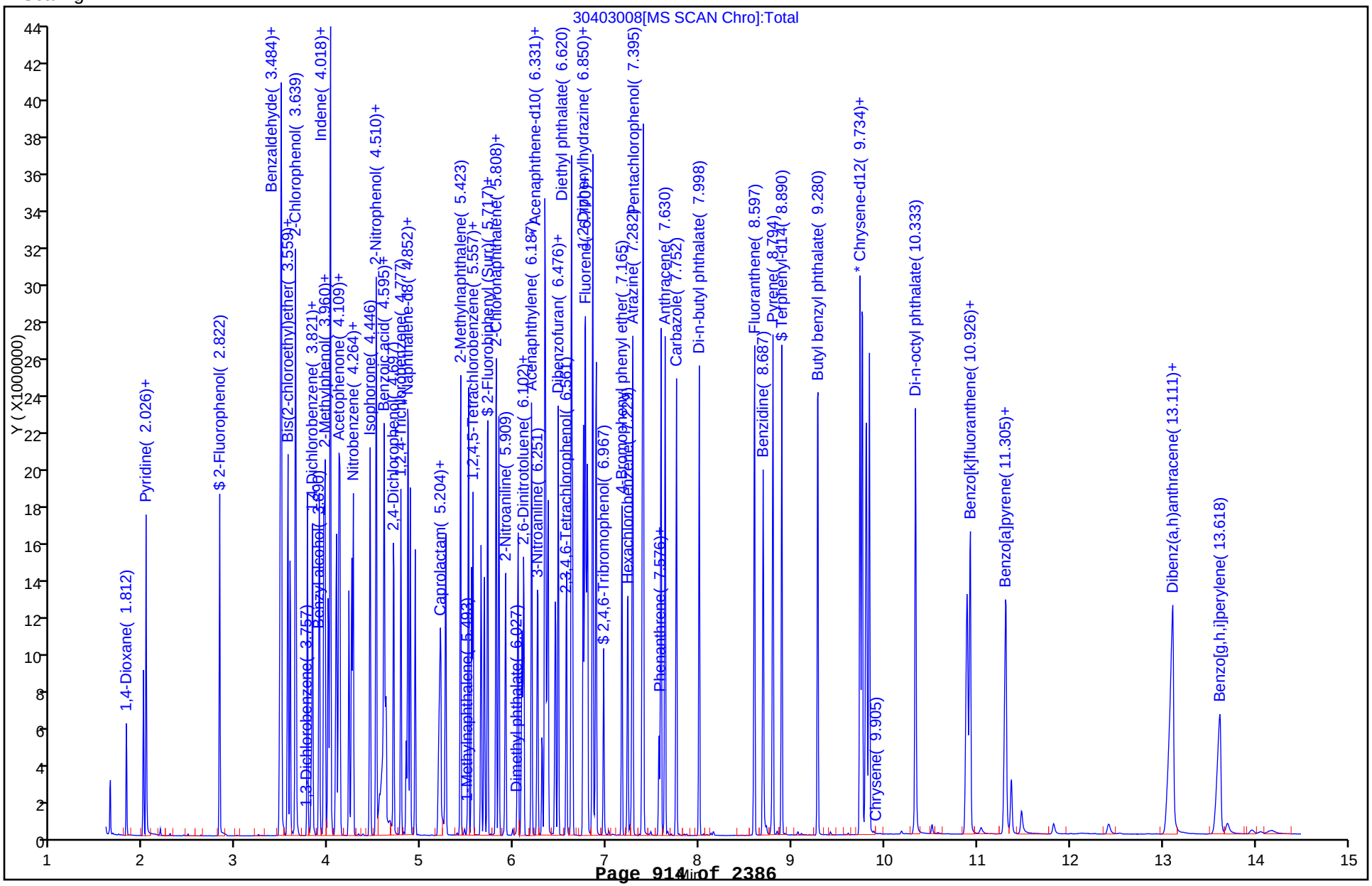
Report Date: 05-Apr-2013 13:13:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403008.D

Injection Date:	04-Apr-2013 14:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	8
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

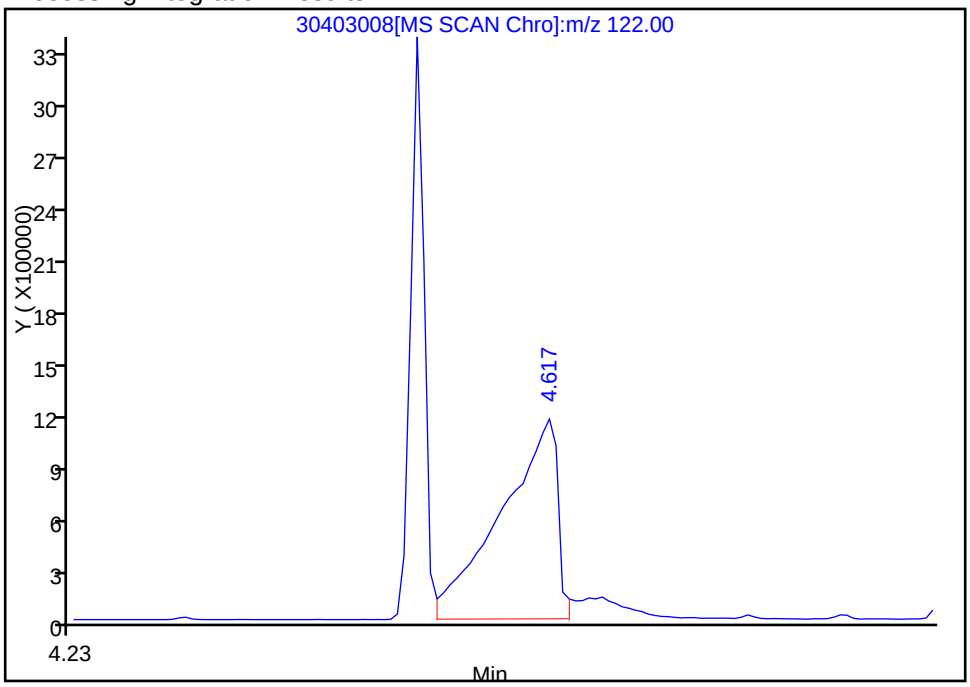
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403008.D		
Injection Date:	04-Apr-2013 14:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	8
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.55

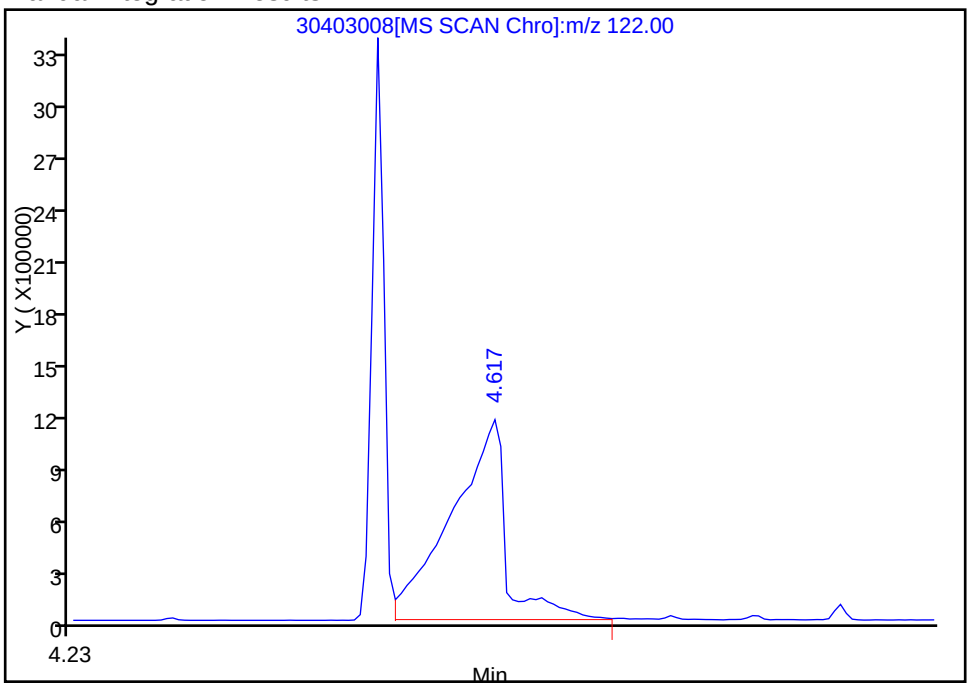
Processing Integration Results

RT: 4.62
Response: 3628206
Amount: 39.209560



Manual Integration Results

RT: 4.62
Response: 3966964
Amount: 42.370047



Reviewer: ulmanm, 04-Apr-2013 14:53:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

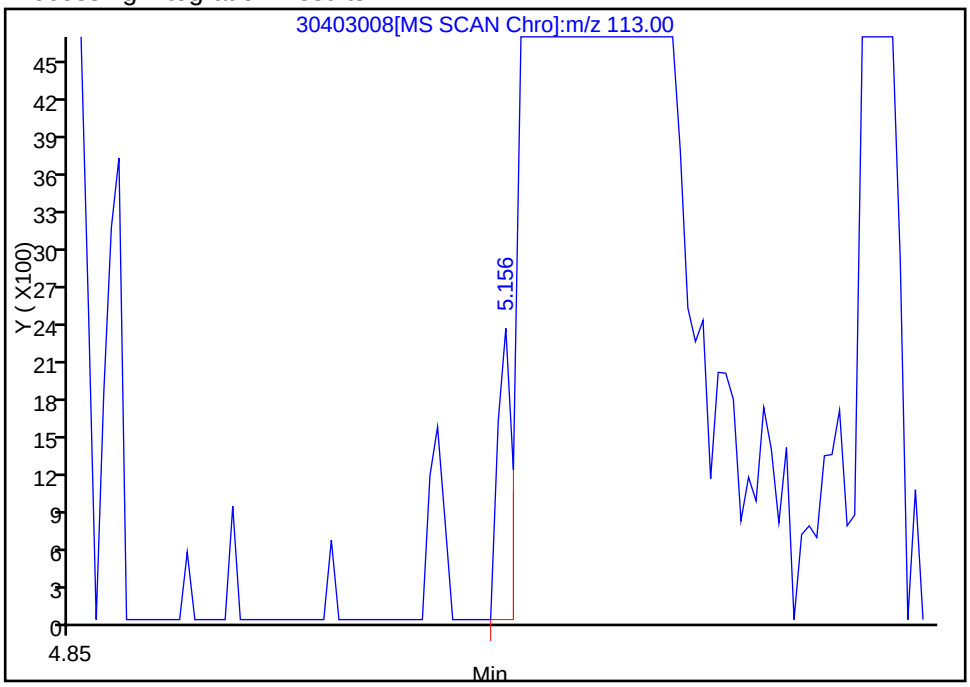
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403008.D		
Injection Date:	04-Apr-2013 14:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	8
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

84 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.16

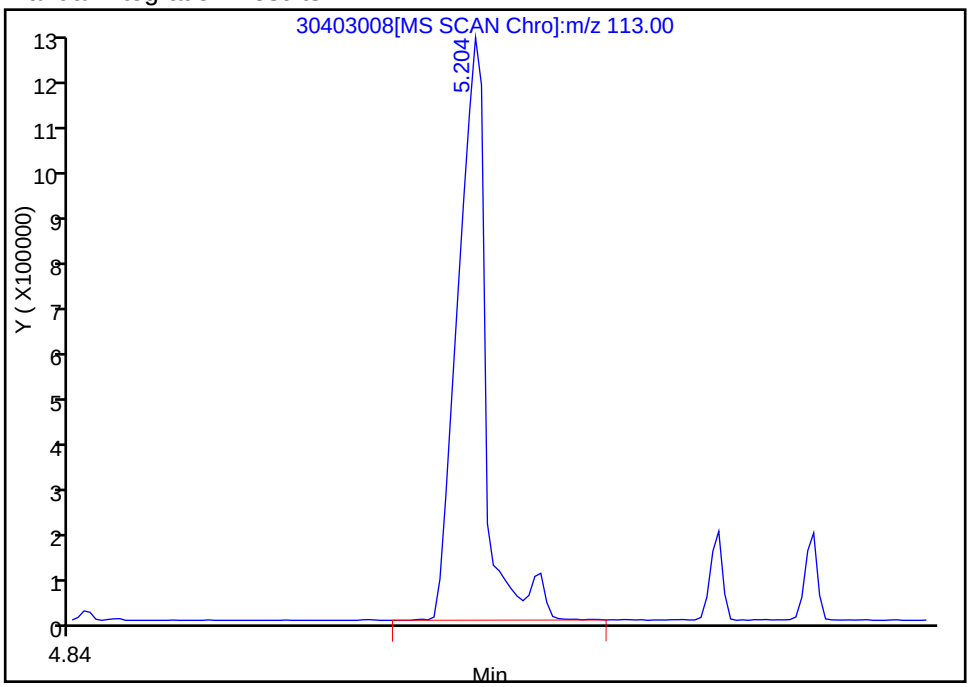
Processing Integration Results

RT: 5.16
Response: 1641
Amount: 0.019943



Manual Integration Results

RT: 5.20
Response: 2235085
Amount: 44.839171



Reviewer: ulmanm, 04-Apr-2013 14:53:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403009.D		
Lims ID:	std7 lst1	Client ID:	
Inject. Date:	04-Apr-2013 14:49:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	240-0018548-009		
Misc. Info.:	STD7 LST1 =STD7 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	80575	Lims Sample ID:	9
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:27	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 15:38:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.811	3.805	0.006	95	391321	4.00	
* 2 Naphthalene-d8	136	4.837	4.831	0.005	99	1751744	4.00	
* 3 Acenaphthene-d10	164	6.300	6.300	0.0	76	971149	4.00	
* 4 Phenanthrene-d10	188	7.561	7.561	0.0	97	1621086	4.00	
* 5 Chrysene-d12	240	9.805	9.805	0.0	70	1662245	4.00	
* 6 Perylene-d12	264	11.365	11.364	0.001	93	1305793	4.00	
$ 7 2-Fluorophenol	112	2.823	2.817	0.006	94	2573071	14.6	
$ 8 Phenol-d5	99	3.474	3.463	0.011	0	3595704	14.3	
$ 9 Nitrobenzene-d5	82	4.244	4.238	0.006	82	3808104	14.1	
$ 10 2-Fluorobiphenyl (Surr)	172	5.713	5.712	0.001	99	4086962	13.9	
$ 11 2,4,6-Tribromophenol	330	6.963	6.963	0.0	79	447428	14.6	
$ 12 Terphenyl-d14	244	8.886	8.886	0.0	97	4668574	14.2	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.818	1.818	0.0	92	1273667	15.1	
26 N-Nitrosodimethylamine	74	2.000	1.994	0.006	85	2299236	15.0	
27 Pyridine	79	2.032	2.026	0.006	91	3732955	15.3	
43 Phenol	94	3.485	3.474	0.011	98	3604893	14.6	
41 Benzaldehyde	77	3.485	3.479	0.006	85	4848155	26.3	
44 Aniline	93	3.554	3.549	0.005	97	5130544	15.3	
69 Bis(2-chloroethyl)ether	93	3.581	3.576	0.005	96	3448880	15.3	
46 2-Chlorophenol	128	3.645	3.640	0.005	89	1936556	14.5	
47 1,3-Dichlorobenzene	146	3.768	3.768	0.0	87	2034183	14.8	
48 1,4-Dichlorobenzene	146	3.821	3.821	0.0	83	2082860	14.9	
49 Benzyl alcohol	108	3.896	3.891	0.005	84	1751374	14.9	
50 1,2-Dichlorobenzene	146	3.944	3.944	0.0	86	1942214	14.7	
51 2-Methylphenol	108	3.955	3.950	0.005	95	2397501	14.7	
53 2,2'-oxybis[1-chloropropane]	45	3.992	3.987	0.005	92	3413102	14.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.014	4.014	0.0	68	7837951	29.0	
21 3 & 4 Methylphenol	108	4.078	4.067	0.011	93	2575639	15.0	
57 N-Nitrosodi-n-propylamine	70	4.105	4.094	0.011	73	2657437	14.6	
58 Acetophenone	105	4.115	4.110	0.005	82	3909903	14.9	
61 Hexachloroethane	117	4.217	4.217	0.0	92	997471	14.6	
62 Nitrobenzene	77	4.260	4.254	0.006	73	3876793	15.0	
64 Isophorone	82	4.441	4.436	0.005	95	6618813	15.2	
65 2,4-Dimethylphenol	107	4.511	4.505	0.006	93	2524593	14.5	
66 2-Nitrophenol	139	4.511	4.510	0.001	75	1027361	14.5	
71 Benzoic acid	122	4.601	4.553	0.048	82	2885324	28.2	M
70 Bis(2-chloroethoxy)methane	93	4.596	4.591	0.005	97	3635562	14.4	
73 2,4-Dichlorophenol	162	4.698	4.692	0.006	92	1578839	15.0	
74 1,2,4-Trichlorobenzene	180	4.778	4.778	0.0	83	1665019	14.6	
75 Naphthalene	128	4.853	4.852	0.001	98	6071299	14.7	
76 4-Chloroaniline	127	4.879	4.874	0.005	71	2610814	14.6	
79 Hexachlorobutadiene	225	4.933	4.933	0.0	91	930585	14.5	
84 Caprolactam	113	5.194	5.157	0.037	83	1570238	28.4	M
86 4-Chloro-3-methylphenol	107	5.259	5.248	0.011	81	2328039	15.0	
87 2-Methylnaphthalene	142	5.419	5.419	0.0	86	3828369	14.2	
88 1-Methylnaphthalene	142	5.504	5.504	0.0	79	3544364	14.3	
89 Hexachlorocyclopentadiene	237	5.542	5.542	0.0	81	1142460	15.1	
91 1,2,4,5-Tetrachlorobenzene	216	5.558	5.552	0.006	95	1501173	14.4	
92 2,4,6-Trichlorophenol	196	5.643	5.638	0.005	88	1058250	14.8	
93 2,4,5-Trichlorophenol	196	5.675	5.670	0.005	85	1095059	14.4	
98 1,1'-Biphenyl	154	5.803	5.803	0.0	94	4787727	14.6	
100 2-Chloronaphthalene	162	5.835	5.830	0.005	97	3511142	14.5	
102 2-Nitroaniline	65	5.905	5.899	0.006	71	1930573	15.1	
105 Dimethyl phthalate	163	6.038	6.033	0.005	94	4051474	14.8	
106 1,3-Dinitrobenzene	168	6.081	6.076	0.005	73	718255	15.6	
107 2,6-Dinitrotoluene	165	6.103	6.097	0.006	80	936859	15.1	
109 Acenaphthylene	152	6.188	6.183	0.005	96	5776599	15.1	
110 3-Nitroaniline	138	6.252	6.241	0.011	87	1113246	15.0	
111 2,4-Dinitrophenol	184	6.338	6.327	0.011	69	1278587	28.5	
112 Acenaphthene	153	6.332	6.327	0.005	87	3359823	14.1	
113 4-Nitrophenol	109	6.359	6.348	0.011	84	1745151	30.6	
114 2,4-Dinitrotoluene	165	6.444	6.434	0.010	80	1250995	15.3	
116 Dibenzofuran	168	6.477	6.471	0.006	82	4988936	14.8	
119 2,3,4,6-Tetrachlorophenol	232	6.562	6.562	0.0	77	918824	14.9	
121 Diethyl phthalate	149	6.626	6.621	0.005	95	3877412	14.5	
123 4-Chlorophenyl phenyl ether	204	6.744	6.744	0.0	94	1908254	14.7	
126 Fluorene	166	6.765	6.760	0.005	82	3983488	14.5	
125 4-Nitroaniline	138	6.765	6.760	0.005	72	1110036	15.0	
128 4,6-Dinitro-2-methylphenol	198	6.786	6.781	0.005	68	1690793	32.2	
131 N-Nitrosodiphenylamine	169	6.845	6.840	0.005	98	5566807	30.7	
132 1,2-Diphenylhydrazine	77	6.883	6.877	0.006	98	7362622	14.9	
133 Azobenzene	77	6.883	6.877	0.006	95	7362622	14.9	
139 4-Bromophenyl phenyl ether	248	7.160	7.160	0.0	72	964066	14.4	
141 Hexachlorobenzene	284	7.224	7.224	0.0	84	946047	14.4	
142 Atrazine	200	7.278	7.267	0.011	80	2227720	30.1	
143 Pentachlorophenol	266	7.385	7.379	0.006	83	1231558	31.6	
148 Phenanthrene	178	7.582	7.582	0.0	98	6028646	14.9	
149 Anthracene	178	7.625	7.625	0.0	87	6289713	15.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.748	7.748	0.0	83	5706136	15.5	
154 Di-n-butyl phthalate	149	7.994	7.994	0.0	100	6922982	15.9	
159 Fluoranthene	202	8.592	8.592	0.0	99	6524223	15.3	
160 Benzidine	184	8.683	8.683	0.0	98	4674323	27.9	
161 Pyrene	202	8.790	8.790	0.0	96	6759577	15.4	
168 Butyl benzyl phthalate	149	9.276	9.276	0.0	88	2928227	14.9	
173 Bis(2-ethylhexyl) phthalate	149	9.730	9.730	0.0	93	4081133	13.9	
175 3,3'-Dichlorobenzidine	252	9.757	9.751	0.006	68	4181180	30.0	
177 Benzo[a]anthracene	228	9.799	9.794	0.005	89	6490121	15.2	
178 Chrysene	228	9.831	9.826	0.005	95	5857690	14.9	
180 Di-n-octyl phthalate	149	10.328	10.328	0.0	99	7284355	16.3	
182 Benzo[b]fluoranthene	252	10.884	10.878	0.006	86	5859840	15.7	
183 Benzo[k]fluoranthene	252	10.916	10.910	0.006	90	5711004	14.6	
184 Benzo[a]pyrene	252	11.300	11.290	0.010	76	5364081	15.5	
188 Indeno[1,2,3-cd]pyrene	276	13.074	13.053	0.021	87	5675865	15.6	
189 Dibenz(a,h)anthracene	278	13.095	13.074	0.021	90	4810688	15.9	
190 Benzo[g,h,i]perylene	276	13.598	13.576	0.022	88	4602708	15.4	
S 245 Total Cresols	100				0		29.8	
S 191 Methyl Phenols,Total	100				0		29.8	

QC Flag Legend

Review Flags
M - Manually Integrated

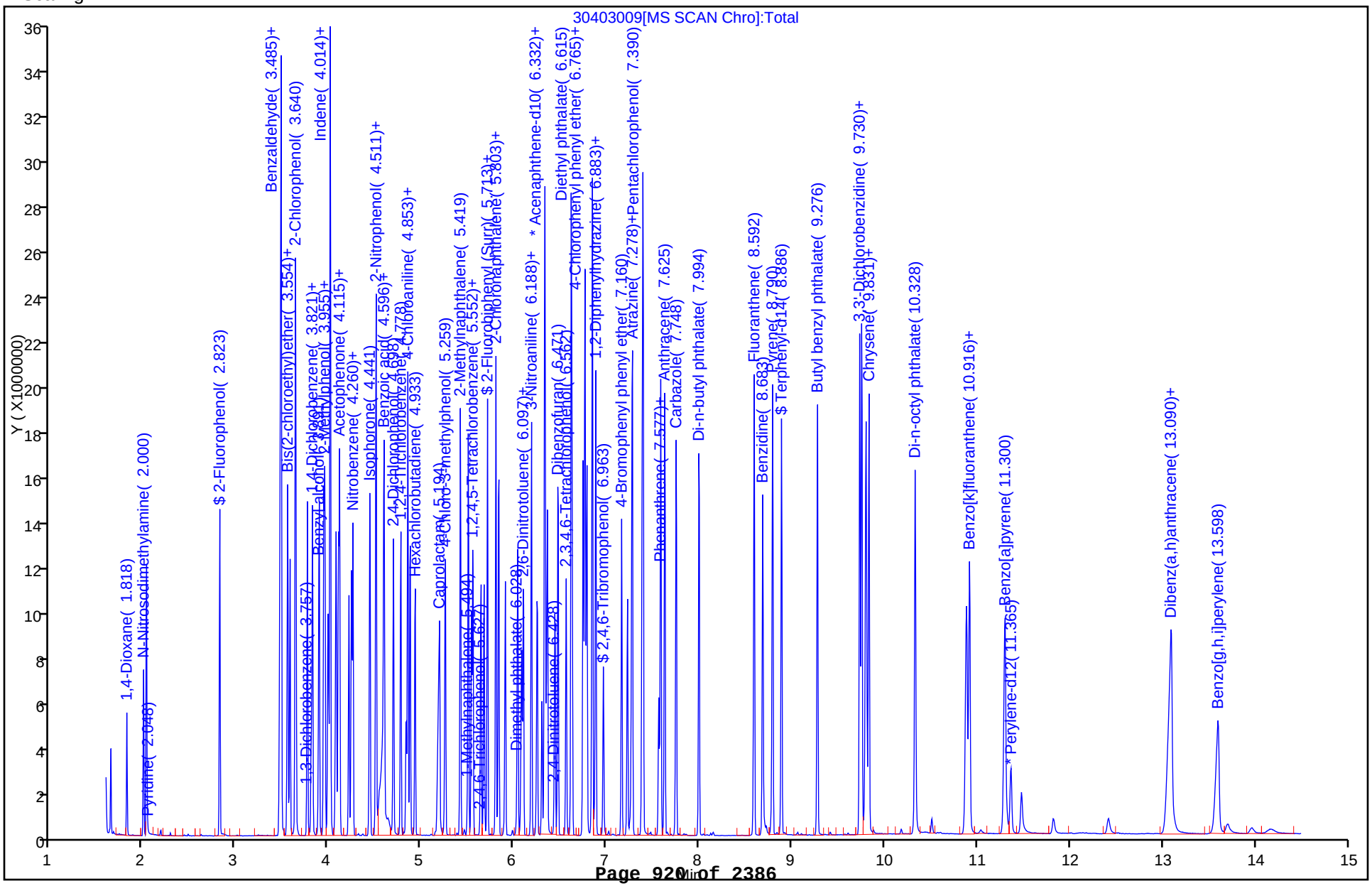
Report Date: 05-Apr-2013 13:13:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403009.D

Injection Date:	04-Apr-2013 14:49:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	9
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

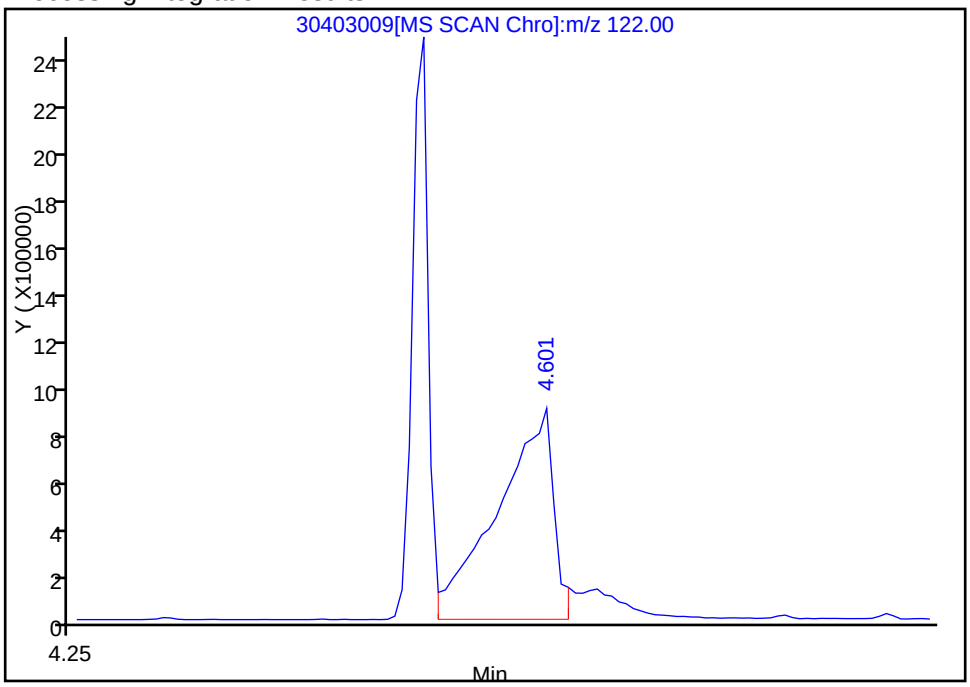
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403009.D		
Injection Date:	04-Apr-2013 14:49:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	9
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.55

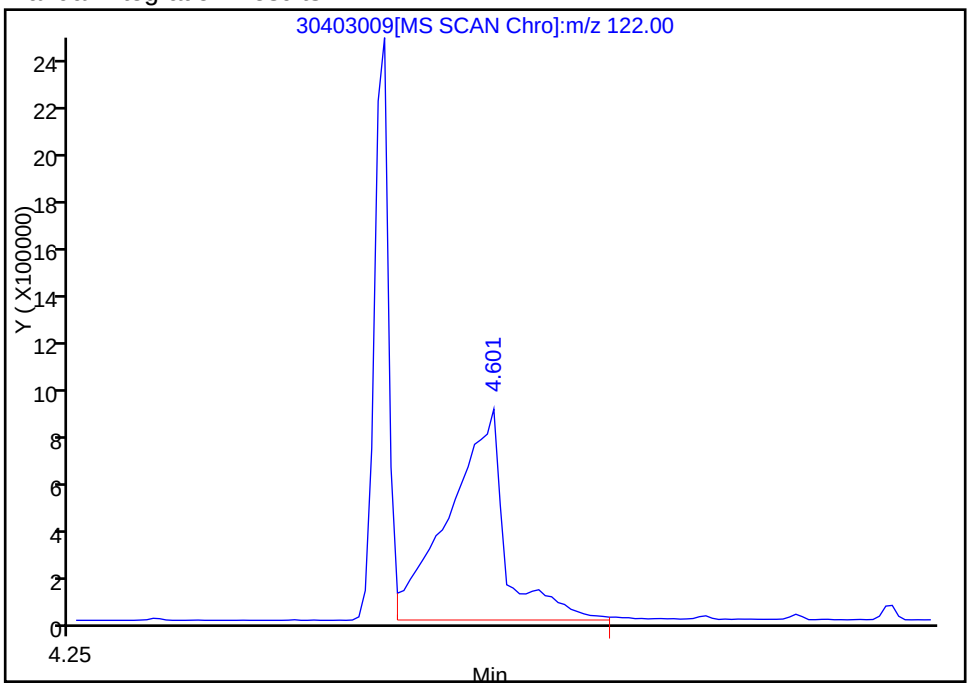
Processing Integration Results

RT: 4.60
Response: 2570615
Amount: 30.766466



Manual Integration Results

RT: 4.60
Response: 2885324
Amount: 28.181260



Reviewer: ulmanm, 04-Apr-2013 15:38:58
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

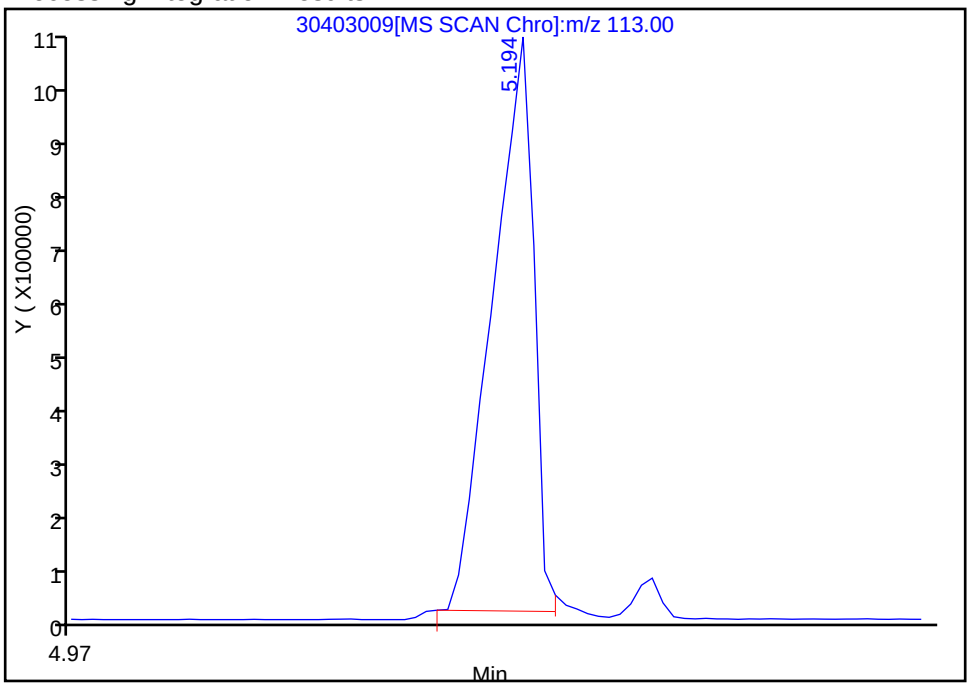
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403009.D		
Injection Date:	04-Apr-2013 14:49:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	9
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

84 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.16

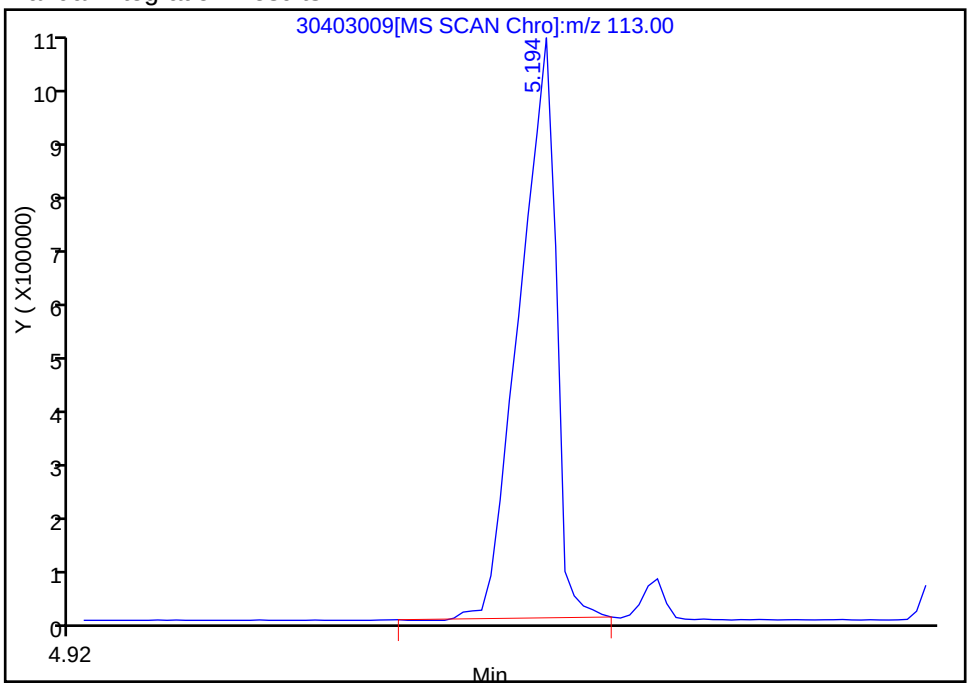
Processing Integration Results

RT: 5.19
Response: 1508920
Amount: 13.703446



Manual Integration Results

RT: 5.19
Response: 1570238
Amount: 28.388886



Reviewer: ulmanm, 04-Apr-2013 15:38:58
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403010.D		
Lims ID:	std6 lst1	Client ID:	
Inject. Date:	04-Apr-2013 15:09:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	240-0018548-010		
Misc. Info.:	STD6 LST1 =STD6 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	80575	Lims Sample ID:	10
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 13:13:28	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 15:41:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.811	3.811	0.0	95	380183	4.00	
* 2 Naphthalene-d8	136	4.832	4.832	0.0	98	1678264	4.00	
* 3 Acenaphthene-d10	164	6.301	6.301	0.0	85	928383	4.00	
* 4 Phenanthrene-d10	188	7.561	7.561	0.0	95	1568919	4.00	
* 5 Chrysene-d12	240	9.805	9.805	0.0	78	1637382	4.00	
* 6 Perylene-d12	264	11.365	11.365	0.0	92	1293431	4.00	
$ 7 2-Fluorophenol	112	2.818	2.818	0.0	95	1646151	9.59	M
$ 8 Phenol-d5	99	3.469	3.469	0.0	0	2310447	9.48	M
$ 9 Nitrobenzene-d5	82	4.244	4.244	0.0	84	2395660	9.24	
$ 10 2-Fluorobiphenyl (Surr)	172	5.713	5.713	0.0	99	2638384	9.37	
$ 11 2,4,6-Tribromophenol	330	6.963	6.963	0.0	80	299211	10.2	
$ 12 Terphenyl-d14	244	8.886	8.886	0.0	97	2986662	9.23	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.813	1.813	0.0	93	761705	9.29	
26 N-Nitrosodimethylamine	74	1.995	1.995	0.0	85	1430617	9.60	
27 Pyridine	79	2.027	2.027	0.0	92	2318672	9.79	
43 Phenol	94	3.480	3.480	0.0	97	2292745	9.56	
41 Benzaldehyde	77	3.485	3.485	0.0	86	3374414	18.8	
44 Aniline	93	3.555	3.555	0.0	96	3167241	9.70	
69 Bis(2-chloroethyl)ether	93	3.576	3.576	0.0	96	2019366	9.25	
46 2-Chlorophenol	128	3.646	3.646	0.0	92	1231568	9.49	
47 1,3-Dichlorobenzene	146	3.768	3.768	0.0	88	1263557	9.47	
48 1,4-Dichlorobenzene	146	3.822	3.822	0.0	83	1279929	9.44	
49 Benzyl alcohol	108	3.891	3.891	0.0	84	1101704	9.67	
50 1,2-Dichlorobenzene	146	3.945	3.945	0.0	86	1217661	9.51	
51 2-Methylphenol	108	3.955	3.955	0.0	95	1507709	9.54	
53 2,2'-oxybis[1-chloropropane]	45	3.993	3.993	0.0	92	2192206	9.72	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.014	4.014	0.0	68	5627115	21.5	
21 3 & 4 Methylphenol	108	4.073	4.073	0.0	93	1612319	9.69	
57 N-Nitrosodi-n-propylamine	70	4.100	4.100	0.0	69	1724400	9.73	
58 Acetophenone	105	4.110	4.110	0.0	82	2468948	9.68	
61 Hexachloroethane	117	4.217	4.217	0.0	93	645436	9.72	
62 Nitrobenzene	77	4.260	4.260	0.0	74	2461061	9.93	
64 Isophorone	82	4.442	4.442	0.0	95	4260308	10.2	
65 2,4-Dimethylphenol	107	4.506	4.506	0.0	93	1610745	9.64	
66 2-Nitrophenol	139	4.511	4.511	0.0	83	671030	9.89	
71 Benzoic acid	122	4.580	4.580	0.0	80	1831514	19.1	M
70 Bis(2-chloroethoxy)methane	93	4.591	4.591	0.0	92	2381430	9.83	
73 2,4-Dichlorophenol	162	4.698	4.698	0.0	93	982495	9.72	
74 1,2,4-Trichlorobenzene	180	4.778	4.778	0.0	84	1055508	9.67	
75 Naphthalene	128	4.853	4.853	0.0	98	3967153	10.0	
76 4-Chloroaniline	127	4.874	4.874	0.0	71	1634754	9.53	
79 Hexachlorobutadiene	225	4.933	4.933	0.0	92	599515	9.76	
84 Caprolactam	113	5.184	5.184	0.0	82	1039964	19.6	
86 4-Chloro-3-methylphenol	107	5.254	5.254	0.0	86	1473159	9.88	
87 2-Methylnaphthalene	142	5.419	5.419	0.0	81	2450251	9.52	
88 1-Methylnaphthalene	142	5.505	5.505	0.0	79	2301242	9.67	
89 Hexachlorocyclopentadiene	237	5.542	5.542	0.0	85	720103	9.93	
91 1,2,4,5-Tetrachlorobenzene	216	5.553	5.553	0.0	90	965719	9.70	
92 2,4,6-Trichlorophenol	196	5.644	5.644	0.0	91	674897	9.85	
93 2,4,5-Trichlorophenol	196	5.676	5.676	0.0	88	706937	9.70	
98 1,1'-Biphenyl	154	5.804	5.804	0.0	95	3056647	9.78	
100 2-Chloronaphthalene	162	5.831	5.831	0.0	98	2236539	9.67	
102 2-Nitroaniline	65	5.905	5.905	0.0	71	1232982	10.1	
105 Dimethyl phthalate	163	6.039	6.039	0.0	94	2582150	9.87	
106 1,3-Dinitrobenzene	168	6.082	6.082	0.0	81	457619	10.4	
107 2,6-Dinitrotoluene	165	6.098	6.098	0.0	56	592742	10.0	
109 Acenaphthylene	152	6.188	6.188	0.0	92	3687879	10.1	
110 3-Nitroaniline	138	6.247	6.247	0.0	85	705050	9.95	
111 2,4-Dinitrophenol	184	6.333	6.333	0.0	69	817087	19.2	
112 Acenaphthene	153	6.327	6.327	0.0	88	2188576	9.58	
113 4-Nitrophenol	109	6.354	6.354	0.0	84	1097181	20.1	
114 2,4-Dinitrotoluene	165	6.440	6.440	0.0	80	807275	10.3	
116 Dibenzofuran	168	6.472	6.472	0.0	85	3163417	9.82	
119 2,3,4,6-Tetrachlorophenol	232	6.562	6.562	0.0	74	595933	10.1	
121 Diethyl phthalate	149	6.627	6.627	0.0	95	2493535	9.76	
123 4-Chlorophenyl phenyl ether	204	6.744	6.744	0.0	93	1236354	9.96	
126 Fluorene	166	6.760	6.760	0.0	79	2541079	9.69	
125 4-Nitroaniline	138	6.765	6.765	0.0	69	705507	9.97	
128 4,6-Dinitro-2-methylphenol	198	6.787	6.787	0.0	75	1072084	21.1	
131 N-Nitrosodiphenylamine	169	6.846	6.846	0.0	99	3631541	20.7	
132 1,2-Diphenylhydrazine	77	6.883	6.883	0.0	99	5221941	10.9	
133 Azobenzene	77	6.883	6.883	0.0	93	5222583	10.9	
139 4-Bromophenyl phenyl ether	248	7.161	7.161	0.0	71	624573	9.61	
141 Hexachlorobenzene	284	7.225	7.225	0.0	89	596428	9.38	
142 Atrazine	200	7.273	7.273	0.0	82	1448593	20.2	
143 Pentachlorophenol	266	7.385	7.385	0.0	79	796080	21.1	
148 Phenanthrene	178	7.583	7.583	0.0	98	3843072	9.84	
149 Anthracene	178	7.625	7.625	0.0	98	3990417	10.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.748	7.748	0.0	83	3600447	10.1	
154 Di-n-butyl phthalate	149	7.994	7.994	0.0	99	4475773	10.6	
159 Fluoranthene	202	8.592	8.592	0.0	99	4203960	10.2	
160 Benzidine	184	8.683	8.683	0.0	98	3338443	19.6	
161 Pyrene	202	8.790	8.790	0.0	94	4295830	9.93	
168 Butyl benzyl phthalate	149	9.276	9.276	0.0	88	1881281	9.71	
173 Bis(2-ethylhexyl) phthalate	149	9.730	9.730	0.0	92	2653307	9.31	
175 3,3'-Dichlorobenzidine	252	9.752	9.752	0.0	61	2634910	19.2	
177 Benzo[a]anthracene	228	9.800	9.800	0.0	90	4068520	9.69	
178 Chrysene	228	9.832	9.832	0.0	94	3757906	9.73	
180 Di-n-octyl phthalate	149	10.329	10.329	0.0	99	4577791	10.3	
182 Benzo[b]fluoranthene	252	10.884	10.884	0.0	90	3445527	9.33	
183 Benzo[k]fluoranthene	252	10.916	10.916	0.0	98	3915050	10.1	
184 Benzo[a]pyrene	252	11.296	11.296	0.0	76	3360168	9.82	
188 Indeno[1,2,3-cd]pyrene	276	13.074	13.074	0.0	97	3597394	9.98	
189 Dibenz(a,h)anthracene	278	13.090	13.090	0.0	84	3031952	10.1	
190 Benzo[g,h,i]perylene	276	13.593	13.593	0.0	90	2948530	9.95	
S 245 Total Cresols	100				0		19.2	
S 191 Methyl Phenols,Total	100				0		19.2	

QC Flag Legend

Review Flags
M - Manually Integrated

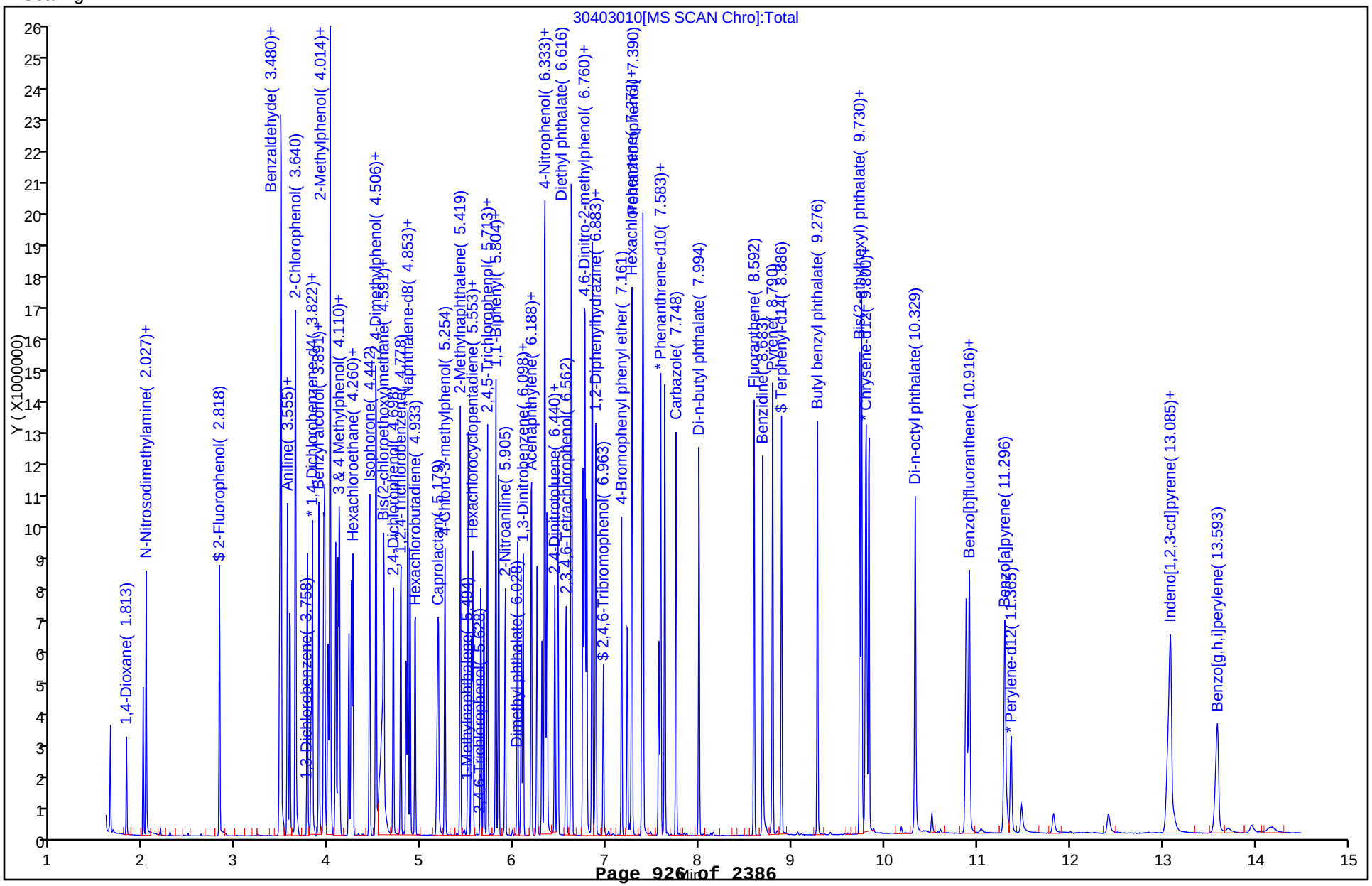
Report Date: 05-Apr-2013 13:13:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403010.D

Injection Date:	04-Apr-2013 15:09:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

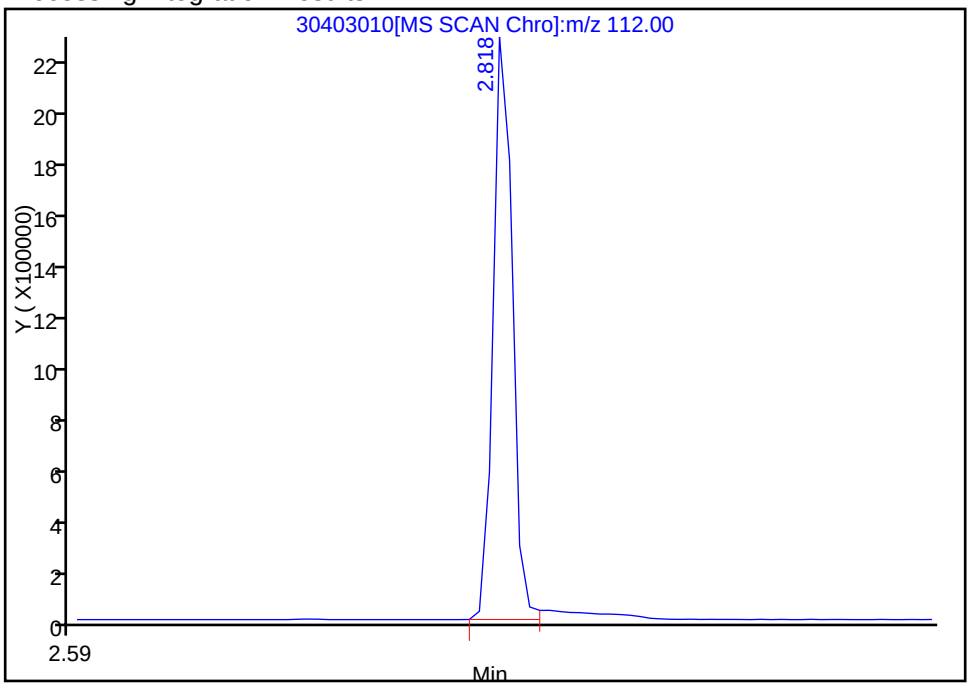
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403010.D		
Injection Date:	04-Apr-2013 15:09:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

$ 7 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 2.82

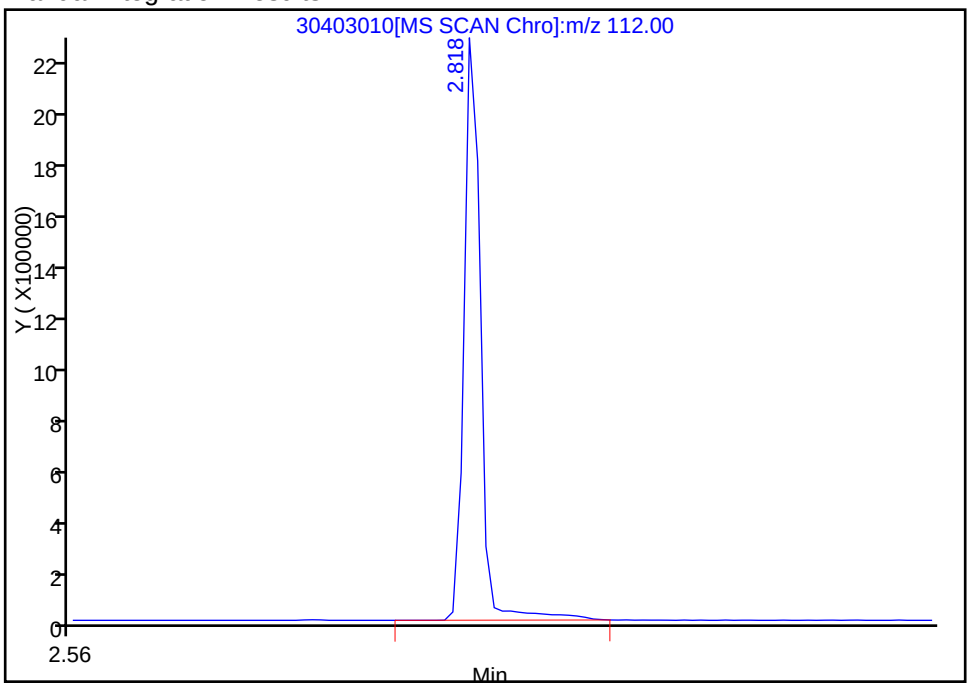
Processing Integration Results

RT: 2.82
Response: 1572681
Amount: 13.822451



Manual Integration Results

RT: 2.82
Response: 1646151
Amount: 9.593832



Reviewer: ulmanm, 04-Apr-2013 15:41:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

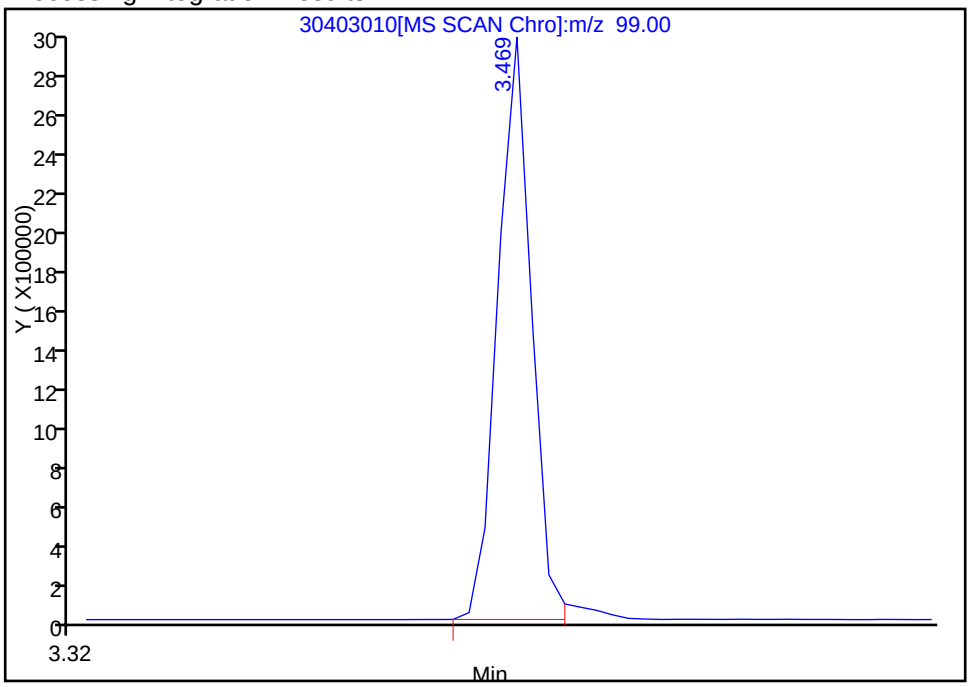
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403010.D		
Injection Date:	04-Apr-2013 15:09:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

$ 8 Phenol-d5, Signal: 1, m/z: 99.0 Type: quant, RT: 3.47

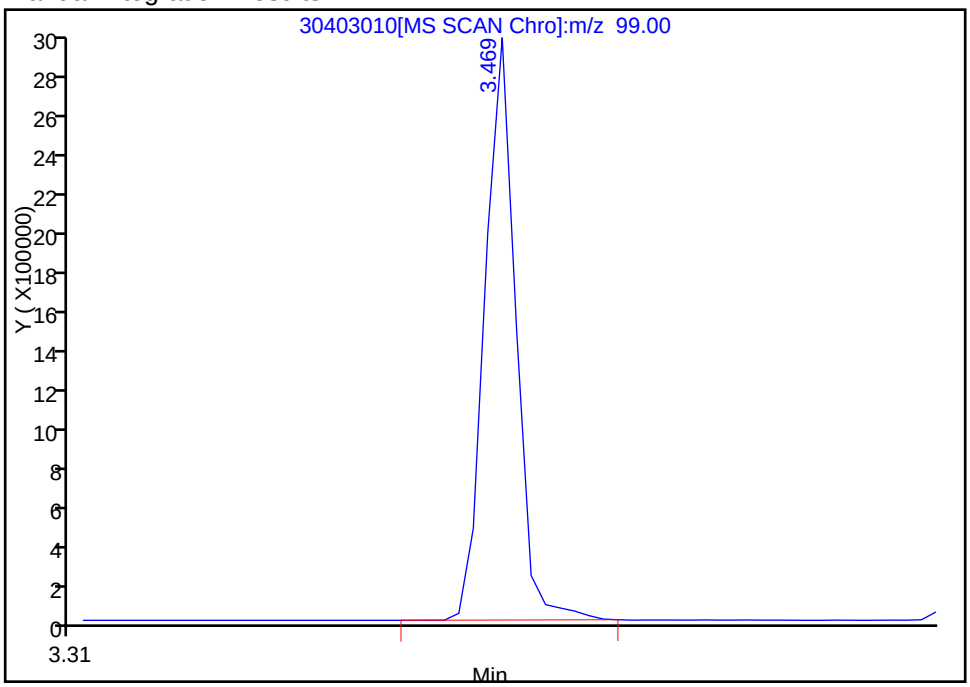
Processing Integration Results

RT: 3.47
Response: 2270814
Amount: 13.998276



Manual Integration Results

RT: 3.47
Response: 2310447
Amount: 9.475769



Reviewer: ulmanm, 04-Apr-2013 15:41:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

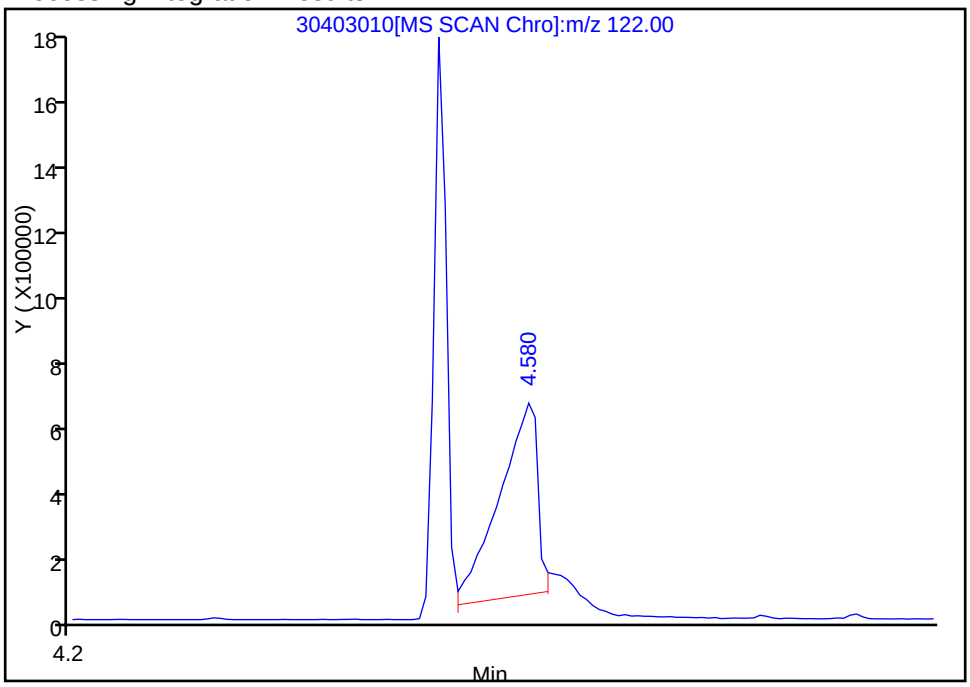
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403010.D		
Injection Date:	04-Apr-2013 15:09:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.58

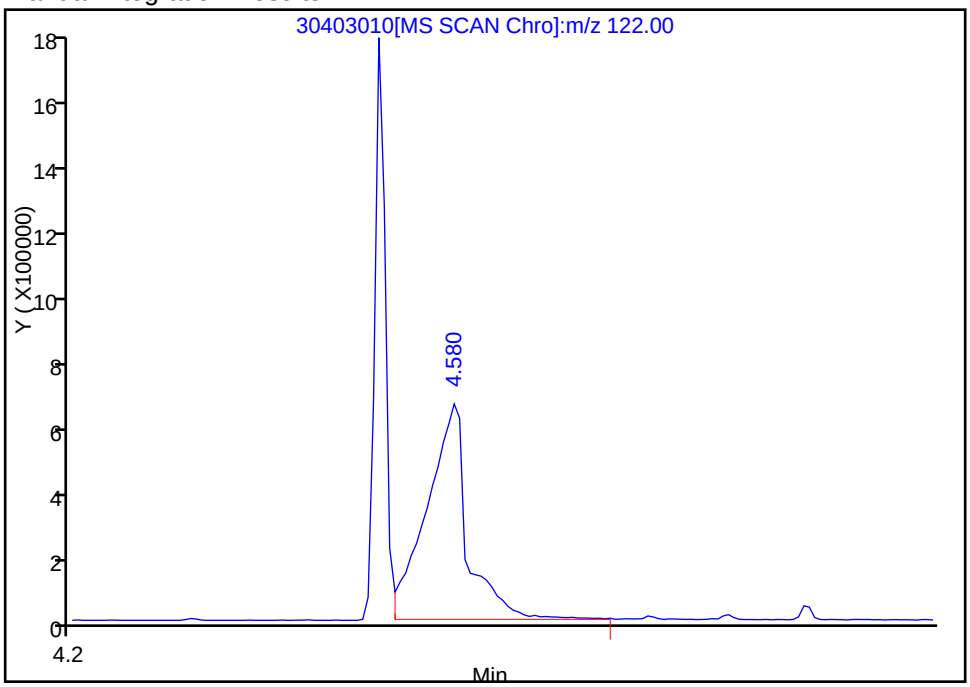
Processing Integration Results

RT: 4.58
Response: 1280387
Amount: 15.713453



Manual Integration Results

RT: 4.58
Response: 1831514
Amount: 19.072184



Reviewer: ulmanm, 04-Apr-2013 15:41:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80575/11 Calibration Date: 04/04/2013 15:36

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30403011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8623	0.9465	0.0500	11.0	10.0	9.8	20.0
N-Nitrosodimethylamine	Ave	1.568	1.669	0.0500	10.6	10.0	6.4	20.0
Pyridine	Ave	2.493	2.801	0.0500	11.2	10.0	12.4	20.0
Phenol	Ave	2.523	2.703	0.0500	10.7	10.0	7.1	20.0
Benzaldehyde	Ave	1.888	1.840	0.0500	19.5	20.0	-2.5	20.0
Aniline	Ave	3.435	3.747	0.0500	10.9	10.0	9.1	20.0
Bis(2-chloroethyl)ether	Ave	2.298	2.430	0.0500	10.6	10.0	5.8	20.0
2-Chlorophenol	Ave	1.366	1.437	0.0500	10.5	10.0	5.2	20.0
1,3-Dichlorobenzene	Ave	1.404	1.489	0.0500	10.6	10.0	6.1	20.0
1,4-Dichlorobenzene	Ave	1.426	1.499	0.0500	10.5	10.0	5.1	20.0
Benzyl alcohol	Ave	1.199	1.317	0.0500	11.0	10.0	9.8	20.0
1,2-Dichlorobenzene	Ave	1.346	1.417	0.0500	10.5	10.0	5.2	20.0
2-Methylphenol	Ave	1.662	1.837	0.0500	11.1	10.0	10.5	20.0
bis (2-chloroisopropyl) ether	Ave	2.372	2.559	0.0500	7.77	7.20	7.9	20.0
3 & 4 Methylphenol	Ave	1.751	1.923	0.0500	11.0	10.0	9.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.864	1.989	0.0500	10.7	10.0	6.7	20.0
Acetophenone	Ave	2.684	2.852	0.0500	10.6	10.0	6.3	20.0
Hexachloroethane	Ave	0.6984	0.7467	0.0500	10.7	10.0	6.9	20.0
Nitrobenzene	Ave	0.5908	0.6451	0.0500	10.9	10.0	9.2	20.0
Isophorone	Ave	0.997	1.147	0.0500	11.5	10.0	15.1	20.0
2,4-Dimethylphenol	Ave	0.3981	0.4224	0.0500	10.6	10.0	6.1	20.0
2-Nitrophenol	Ave	0.1618	0.1710	0.0500	10.6	10.0	5.7	20.0
Benzoic acid	Lin1		0.2415	0.0500	21.0	20.0	4.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.5777	0.5997	0.0500	10.4	10.0	3.8	20.0
2,4-Dichlorophenol	Ave	0.2409	0.2593	0.0500	10.8	10.0	7.6	20.0
1,2,4-Trichlorobenzene	Ave	0.2601	0.2791	0.0500	10.7	10.0	7.3	20.0
Naphthalene	Ave	0.9461	1.032	0.0500	10.9	10.0	9.0	20.0
4-Chloroaniline	Ave	0.4086	0.4203	0.0500	10.3	10.0	2.9	20.0
Hexachlorobutadiene	Ave	0.1464	0.1552	0.0500	10.6	10.0	6.0	20.0
Caprolactam	Ave	0.1263	0.1336	0.0500	21.2	20.0	5.8	20.0
4-Chloro-3-methylphenol	Ave	0.3554	0.3882	0.0500	10.9	10.0	9.3	20.0
2-Methylnaphthalene	Ave	0.6137	0.6265	0.0500	10.2	10.0	2.1	20.0
1-Methylnaphthalene	Ave	0.5672	0.5818	0.0500	10.3	10.0	2.6	20.0
Hexachlorocyclopentadiene	Ave	0.3124	0.3682	0.0500	11.8	10.0	17.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4288	0.4764	0.0500	11.1	10.0	11.1	20.0
2,4,6-Trichlorophenol	Ave	0.2953	0.3404	0.0500	11.5	10.0	15.3	20.0
2,4,5-Trichlorophenol	Ave	0.3139	0.3511	0.0500	11.2	10.0	11.9	20.0
1,1'-Biphenyl	Ave	1.347	1.484	0.0500	11.0	10.0	10.2	20.0
2-Chloronaphthalene	Ave	0.997	1.080	0.0500	10.8	10.0	8.4	20.0
2-Nitroaniline	Ave	0.5262	0.6064	0.0500	11.5	10.0	15.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80575/11 Calibration Date: 04/04/2013 15:36

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30403011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.127	1.251	0.0500	11.1	10.0	11.0	20.0
2,6-Dinitrotoluene	Ave	0.2552	0.2855	0.0500	11.2	10.0	11.9	20.0
Acenaphthylene	Ave	1.571	1.799	0.0500	11.5	10.0	14.5	20.0
3-Nitroaniline	Ave	0.3052	0.3358	0.0500	11.0	10.0	10.0	20.0
Acenaphthene	Ave	0.9842	1.077	0.0500	10.9	10.0	9.4	20.0
2,4-Dinitrophenol	Lin1		0.1954	0.0500	21.2	20.0	6.2	20.0
4-Nitrophenol	Ave	0.2351	0.2649	0.0500	22.5	20.0	12.7	20.0
2,4-Dinitrotoluene	Ave	0.3377	0.3899	0.0500	11.5	10.0	15.5	20.0
Dibenzofuran	Ave	1.388	1.566	0.0500	11.3	10.0	12.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2535	0.2929	0.0500	11.6	10.0	15.6	20.0
Diethyl phthalate	Ave	1.101	1.194	0.0500	10.8	10.0	8.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.5347	0.6025	0.0500	11.3	10.0	12.7	20.0
4-Nitroaniline	Ave	0.3049	0.3385	0.0500	11.1	10.0	11.0	20.0
Fluorene	Ave	1.130	1.262	0.0500	11.2	10.0	11.7	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1297	0.1565	0.0500	24.1	20.0	20.7*	20.0
N-Nitrosodiphenylamine	Ave	0.4472	0.4925	0.0500	22.0	20.0	10.1	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.221	1.552	0.0500	12.7	10.0	27.1*	20.0
Azobenzene	Ave	1.221	1.551	0.0500	12.7	10.0	27.1*	20.0
4-Bromophenyl phenyl ether	Ave	0.1656	0.1837	0.0500	11.1	10.0	10.9	20.0
Hexachlorobenzene	Ave	0.1620	0.1712	0.0500	10.6	10.0	5.6	20.0
Atrazine	Ave	0.1828	0.2070	0.0500	22.7	20.0	13.3	20.0
Pentachlorophenol	Ave	0.0962	0.1151	0.0500	23.9	20.0	19.6	20.0
Phenanthrene	Ave	0.996	1.125	0.0500	11.3	10.0	12.9	20.0
Anthracene	Ave	0.9880	1.163	0.0500	11.8	10.0	17.7	20.0
Carbazole	Ave	0.9108	1.021	0.0500	11.2	10.0	12.1	20.0
Di-n-butyl phthalate	Ave	1.077	1.309	0.0500	12.2	10.0	21.5*	20.0
Fluoranthene	Ave	1.052	1.223	0.0500	11.6	10.0	16.3	20.0
Benzidine	Qua		0.5338	0.0500	26.4	20.0	31.8*	20.0
Pyrene	Ave	1.056	1.203	0.0500	11.4	10.0	13.9	20.0
Butyl benzyl phthalate	Ave	0.4732	0.5314	0.0500	11.2	10.0	12.3	20.0
Bis(2-ethylhexyl) phthalate	Lin		0.7301	0.0500	10.4	10.0	4.4	20.0
3,3'-Dichlorobenzidine	Ave	0.3350	0.3752	0.0500	22.4	20.0	12.0	20.0
Benzo[a]anthracene	Ave	1.026	1.140	0.0500	11.1	10.0	11.1	20.0
Chrysene	Ave	0.9434	1.098	0.0500	11.6	10.0	16.4	20.0
Di-n-octyl phthalate	Ave	1.373	1.625	0.0500	11.8	10.0	18.3	20.0
Benzo[b]fluoranthene	Ave	1.142	1.202	0.0500	10.5	10.0	5.3	20.0
Benzo[k]fluoranthene	Ave	1.196	1.318	0.0500	11.0	10.0	10.2	20.0
Benzo[a]pyrene	Ave	1.059	1.154	0.0500	10.9	10.0	9.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.115	1.198	0.0500	10.7	10.0	7.5	20.0
Dibenz(a,h)anthracene	Ave	0.9267	1.059	0.0500	11.4	10.0	14.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80575/11 Calibration Date: 04/04/2013 15:36

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30403011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.9163	1.029	0.0500	11.2	10.0	12.3	20.0
2-Fluorophenol (Surr)	Ave	1.805	2.066	0.0500	11.4	10.0	14.4	20.0
Phenol-d5 (Surr)	Ave	2.565	2.945	0.0500	11.5	10.0	14.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.6179	0.6908	0.0500	11.2	10.0	11.8	20.0
2-Fluorobiphenyl (Surr)	Ave	1.213	1.396	0.0500	11.5	10.0	15.1	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1266	0.1540	0.0500	12.2	10.0	21.6*	20.0
Terphenyl-d14 (Surr)	Ave	0.7903	0.9186	0.0500	11.6	10.0	16.2	20.0

Report Date: 08-Apr-2013 08:19:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403011.D
Lims ID: icv tcl Client ID:
Inject. Date: 04-Apr-2013 15:36:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018548-011
Misc. Info.: ICV TCL =ICV TCL
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 80575 Lims Sample ID: 11
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m
Last Update: 08-Apr-2013 08:19:35 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK030

First Level Reviewer: ulmanm Date: 04-Apr-2013 16:13:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.811	3.810	0.001	95	343535	4.00	
* 2 Naphthalene-d8	136	4.836	4.831	0.005	99	1529827	4.00	
* 3 Acenaphthene-d10	164	6.300	6.300	0.0	77	823084	4.00	
* 4 Phenanthrene-d10	188	7.561	7.561	0.0	97	1368725	4.00	
* 5 Chrysene-d12	240	9.810	9.804	0.006	97	1409640	4.00	
* 6 Perylene-d12	264	11.370	11.364	0.006	92	1141914	4.00	
$ 7 2-Fluorophenol	112	2.817	2.818	-0.001	95	1774253	11.4	
$ 8 Phenol-d5	99	3.469	3.469	0.0	97	2529253	11.5	
$ 9 Nitrobenzene-d5	82	4.244	4.244	0.0	84	2642157	11.2	
$ 10 2-Fluorobiphenyl (Surr)	172	5.713	5.713	0.0	99	2872548	11.5	
$ 11 2,4,6-Tribromophenol	330	6.968	6.963	0.005	85	316849	12.2	
$ 12 Terphenyl-d14	244	8.891	8.886	0.005	98	3237337	11.6	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	1.813	1.813	0.0	93	812923	11.0	
26 N-Nitrosodimethylamine	74	1.994	1.995	-0.001	84	1433347	10.6	
27 Pyridine	79	2.027	2.027	0.0	91	2405945	11.2	
43 Phenol	94	3.480	3.480	0.0	97	2321704	10.7	
41 Benzaldehyde	77	3.485	3.485	0.0	87	3160789	19.5	
44 Aniline	93	3.554	3.555	-0.001	98	3218040	10.9	
69 Bis(2-chloroethyl)ether	93	3.581	3.576	0.005	95	2087075	10.6	
46 2-Chlorophenol	128	3.645	3.646	-0.001	91	1234077	10.5	
47 1,3-Dichlorobenzene	146	3.768	3.768	0.0	88	1278778	10.6	
48 1,4-Dichlorobenzene	146	3.821	3.822	-0.001	82	1287203	10.5	
49 Benzyl alcohol	108	3.891	3.891	0.0	84	1131128	11.0	
50 1,2-Dichlorobenzene	146	3.944	3.945	-0.001	85	1216796	10.5	
51 2-Methylphenol	108	3.955	3.955	0.0	95	1577531	11.1	
53 2,2'-oxybis[1-chloropropane]	45	3.992	3.993	-0.001	92	1582425	7.77	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	4.014	4.014	0.0	73	5488221	23.2	
21 3 & 4 Methylphenol	108	4.073	4.073	0.0	92	1651869	11.0	
57 N-Nitrosodi-n-propylamine	70	4.099	4.100	-0.001	70	1708453	10.7	
58 Acetophenone	105	4.115	4.110	0.005	82	2449057	10.6	
61 Hexachloroethane	117	4.217	4.217	0.0	93	641316	10.7	
62 Nitrobenzene	77	4.260	4.260	0.0	75	2467325	10.9	
64 Isophorone	82	4.441	4.442	-0.001	95	4386386	11.5	
65 2,4-Dimethylphenol	107	4.505	4.506	-0.001	94	1615649	10.6	
66 2-Nitrophenol	139	4.511	4.511	0.0	81	654011	10.6	
71 Benzoic acid	122	4.585	4.580	0.005	83	1846902	21.0	M
70 Bis(2-chloroethoxy)methane	93	4.596	4.591	0.005	94	2293396	10.4	
73 2,4-Dichlorophenol	162	4.698	4.698	0.0	92	991592	10.8	
74 1,2,4-Trichlorobenzene	180	4.778	4.778	0.0	86	1067264	10.7	
75 Naphthalene	128	4.853	4.853	0.0	98	3945449	10.9	
76 4-Chloroaniline	127	4.879	4.874	0.005	71	1607467	10.3	
79 Hexachlorobutadiene	225	4.933	4.933	0.0	92	593492	10.6	
84 Caprolactam	113	5.184	5.184	0.0	80	1021878	21.2	
86 4-Chloro-3-methylphenol	107	5.253	5.254	-0.001	86	1484857	10.9	
87 2-Methylnaphthalene	142	5.419	5.419	0.0	86	2396035	10.2	
88 1-Methylnaphthalene	142	5.504	5.505	-0.001	79	2225238	10.3	
89 Hexachlorocyclopentadiene	237	5.542	5.542	0.0	80	757737	11.8	
91 1,2,4,5-Tetrachlorobenzene	216	5.558	5.553	0.005	94	980214	11.1	
92 2,4,6-Trichlorophenol	196	5.643	5.644	-0.001	89	700340	11.5	
93 2,4,5-Trichlorophenol	196	5.675	5.676	-0.001	85	722443	11.2	
98 1,1'-Biphenyl	154	5.803	5.804	-0.001	95	3054309	11.0	
100 2-Chloronaphthalene	162	5.835	5.831	0.004	97	2223060	10.8	
102 2-Nitroaniline	65	5.905	5.905	0.0	70	1247742	11.5	
105 Dimethyl phthalate	163	6.038	6.039	-0.001	94	2573951	11.1	
106 1,3-Dinitrobenzene	168	6.081	6.082	-0.001	79	441294	11.3	
107 2,6-Dinitrotoluene	165	6.103	6.098	0.005	61	587530	11.2	
109 Acenaphthylene	152	6.188	6.188	0.0	95	3701391	11.5	
110 3-Nitroaniline	138	6.252	6.247	0.005	87	690970	11.0	
112 Acenaphthene	153	6.332	6.327	0.005	85	2216267	10.9	
111 2,4-Dinitrophenol	184	6.338	6.333	0.005	78	804037	21.2	
113 4-Nitrophenol	109	6.359	6.354	0.005	85	1090349	22.5	
114 2,4-Dinitrotoluene	165	6.439	6.440	-0.001	76	802284	11.5	
116 Dibenzofuran	168	6.477	6.472	0.005	85	3222908	11.3	
119 2,3,4,6-Tetrachlorophenol	232	6.562	6.562	0.0	77	602791	11.6	
121 Diethyl phthalate	149	6.626	6.627	0.0	94	2456038	10.8	
123 4-Chlorophenyl phenyl ether	204	6.749	6.744	0.005	94	1239774	11.3	
126 Fluorene	166	6.765	6.760	0.005	76	2597358	11.2	
125 4-Nitroaniline	138	6.765	6.765	0.0	68	696584	11.1	
128 4,6-Dinitro-2-methylphenol	198	6.786	6.787	-0.001	61	1071129	24.1	
131 N-Nitrosodiphenylamine	169	6.845	6.846	-0.001	98	3370690	22.0	
132 1,2-Diphenylhydrazine	77	6.883	6.883	0.0	100	5309398	12.7	
133 Azobenzene	77	6.883	6.883	0.0	93	5308863	12.7	
139 4-Bromophenyl phenyl ether	248	7.166	7.161	0.005	71	628560	11.1	
141 Hexachlorobenzene	284	7.224	7.225	-0.001	85	585817	10.6	
142 Atrazine	200	7.278	7.273	0.005	84	1416901	22.7	
143 Pentachlorophenol	266	7.385	7.385	0.0	80	787741	23.9	
148 Phenanthrene	178	7.582	7.583	-0.001	98	3848145	11.3	
149 Anthracene	178	7.630	7.625	0.005	98	3978119	11.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.753	7.748	0.005	83	3492645	11.2	
154 Di-n-butyl phthalate	149	7.999	7.994	0.005	100	4480156	12.2	
159 Fluoranthene	202	8.592	8.592	0.0	99	4185878	11.6	
160 Benzidine	184	8.688	8.683	0.005	99	3762057	26.4	
161 Pyrene	202	8.795	8.790	0.005	94	4240996	11.4	
168 Butyl benzyl phthalate	149	9.276	9.276	0.0	87	1872656	11.2	
173 Bis(2-ethylhexyl) phthalate	149	9.735	9.730	0.005	93	2573006	10.4	
175 3,3'-Dichlorobenzidine	252	9.757	9.752	0.005	65	2644261	22.4	
177 Benzo[a]anthracene	228	9.799	9.800	-0.001	90	4018368	11.1	
178 Chrysene	228	9.831	9.832	-0.001	94	3869659	11.6	
180 Di-n-octyl phthalate	149	10.334	10.329	0.005	99	4638282	11.8	
182 Benzo[b]fluoranthene	252	10.884	10.884	0.0	92	3432136	10.5	
183 Benzo[k]fluoranthene	252	10.916	10.916	0.0	89	3762384	11.0	
184 Benzo[a]pyrene	252	11.300	11.296	0.004	78	3294267	10.9	
188 Indeno[1,2,3-cd]pyrene	276	13.074	13.074	0.0	85	3421249	10.7	
189 Dibenz(a,h)anthracene	278	13.095	13.090	0.005	91	3022659	11.4	
190 Benzo[g,h,i]perylene	276	13.598	13.593	0.005	88	2936756	11.2	

QC Flag Legend

Review Flags
M - Manually Integrated

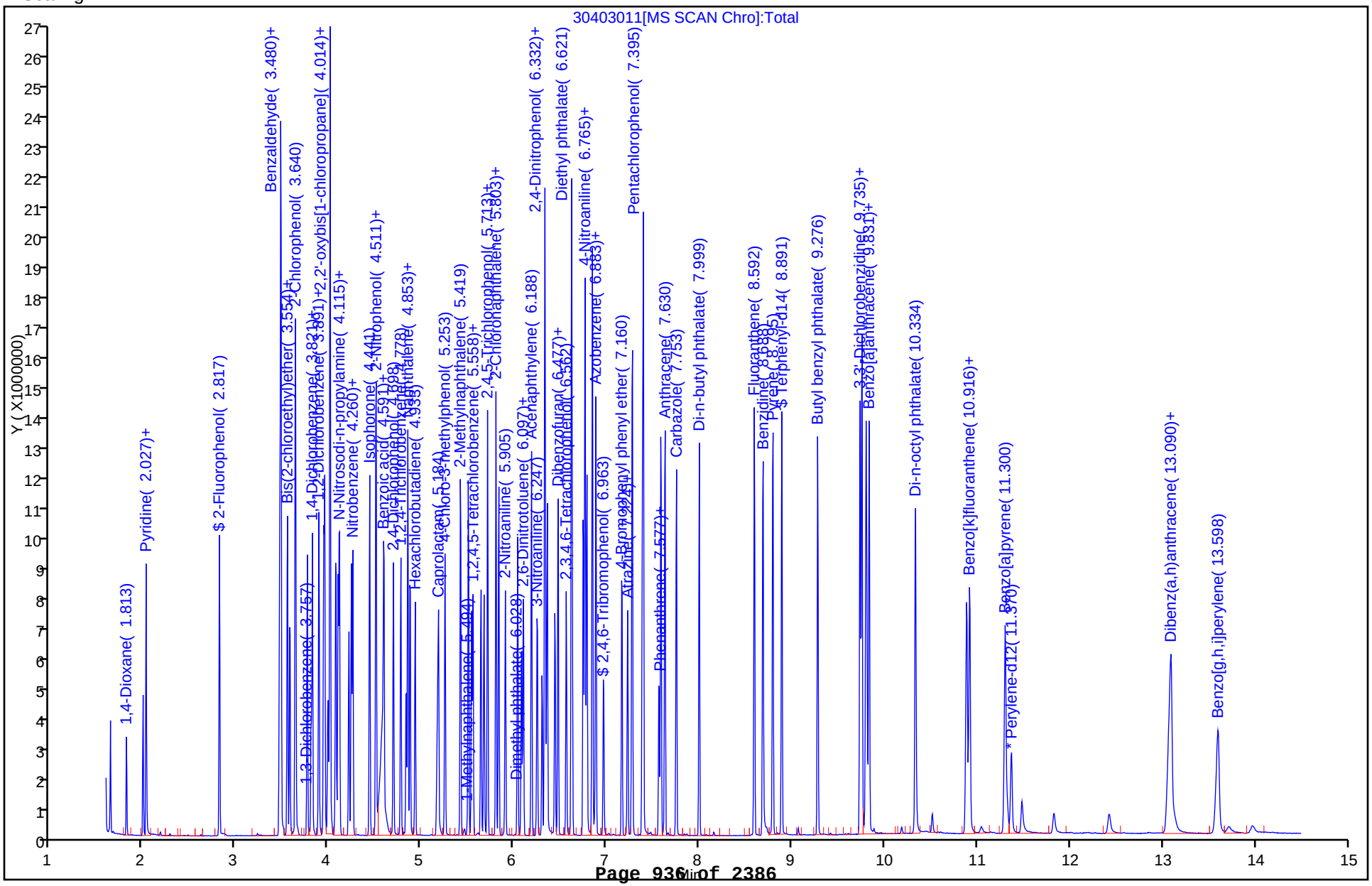
Report Date: 08-Apr-2013 08:19:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403011.D

Injection Date:	04-Apr-2013 15:36:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	11
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

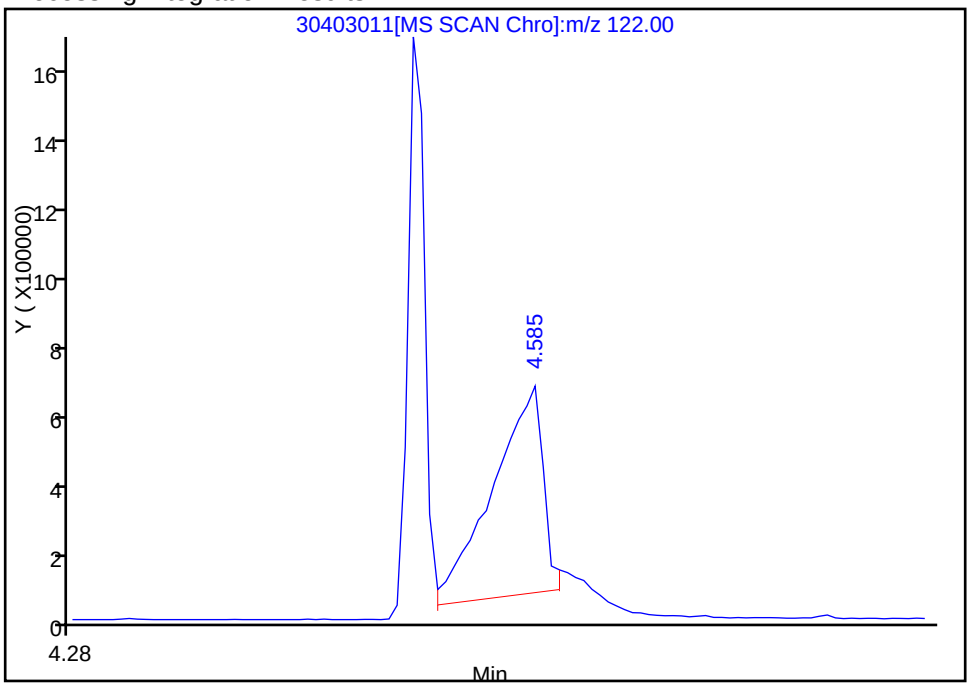
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403011.D		
Injection Date:	04-Apr-2013 15:36:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	11
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.58

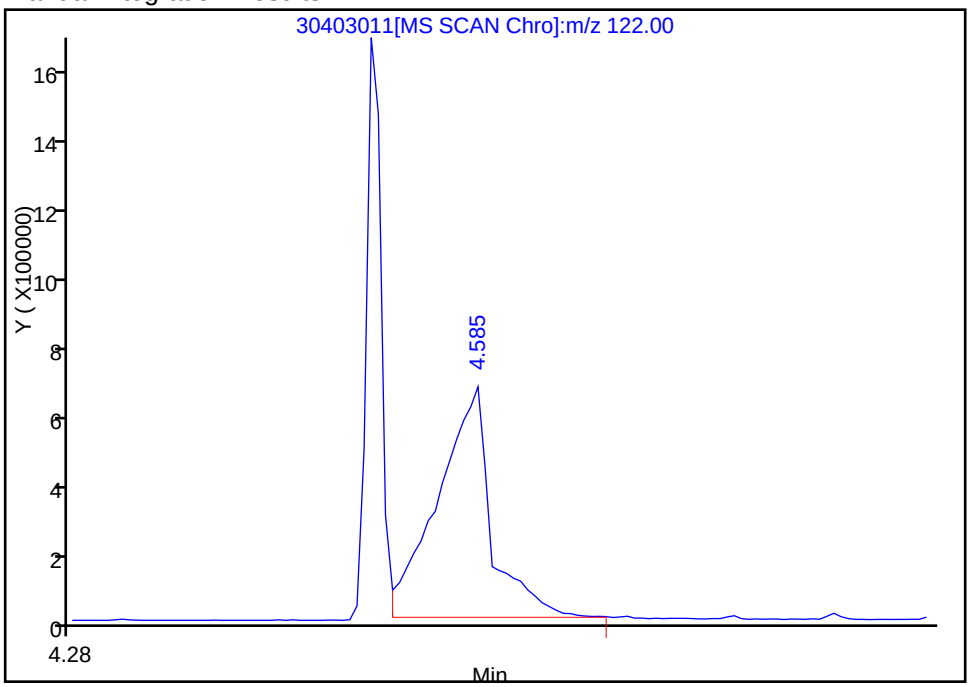
Processing Integration Results

RT: 4.59
Response: 1368662
Amount: 15.849051



Manual Integration Results

RT: 4.59
Response: 1846902
Amount: 20.972459



Reviewer: ulmanm, 05-Apr-2013 09:44:27
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80755/2 Calibration Date: 04/05/2013 11:22

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8623	0.8251	0.0500	9.57	10.0	-4.3	20.0
N-Nitrosodimethylamine	Ave	1.568	1.617	0.0500	10.3	10.0	3.1	20.0
Pyridine	Ave	2.493	2.482	0.0500	9.96	10.0	-0.4	20.0
Benzaldehyde	Ave	1.888	1.939	0.0500	20.5	20.0	2.7	20.0
Phenol	Ave	2.523	2.419	0.0500	9.59	10.0	-4.1	20.0
Aniline	Ave	3.435	3.353	0.0500	9.76	10.0	-2.4	20.0
Bis(2-chloroethyl)ether	Ave	2.298	2.218	0.0500	9.65	10.0	-3.5	20.0
2-Chlorophenol	Ave	1.366	1.296	0.0500	9.49	10.0	-5.1	20.0
1,3-Dichlorobenzene	Ave	1.404	1.356	0.0500	9.66	10.0	-3.4	20.0
1,4-Dichlorobenzene	Ave	1.426	1.373	0.0500	9.63	10.0	-3.7	20.0
Benzyl alcohol	Ave	1.199	1.161	0.0500	9.69	10.0	-3.1	20.0
1,2-Dichlorobenzene	Ave	1.346	1.297	0.0500	9.63	10.0	-3.7	20.0
2-Methylphenol	Ave	1.662	1.617	0.0500	9.73	10.0	-2.7	20.0
bis (2-chloroisopropyl) ether	Ave	2.372	2.291	0.0500	9.66	10.0	-3.4	20.0
3 & 4 Methylphenol	Ave	1.751	1.692	0.0500	9.66	10.0	-3.4	20.0
N-Nitrosodi-n-propylamine	Ave	1.864	1.840	0.0500	9.87	10.0	-1.3	20.0
Acetophenone	Ave	2.684	2.594	0.0500	9.67	10.0	-3.3	20.0
Hexachloroethane	Ave	0.6984	0.6863	0.0500	9.83	10.0	-1.7	20.0
Nitrobenzene	Ave	0.5908	0.6093	0.0500	10.3	10.0	3.1	20.0
Isophorone	Ave	0.997	1.053	0.0500	10.6	10.0	5.6	20.0
2,4-Dimethylphenol	Ave	0.3981	0.3914	0.0500	9.83	10.0	-1.7	20.0
2-Nitrophenol	Ave	0.1618	0.1596	0.0500	9.86	10.0	-1.4	20.0
Benzoic acid	Lin1		0.2174	0.0500	19.0	20.0	-5.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.5777	0.5849	0.0500	10.1	10.0	1.3	20.0
2,4-Dichlorophenol	Ave	0.2409	0.2403	0.0500	9.98	10.0	-0.2	20.0
1,2,4-Trichlorobenzene	Ave	0.2601	0.2616	0.0500	10.1	10.0	0.6	20.0
Naphthalene	Ave	0.9461	0.9467	0.0500	10.0	10.0	0.0	20.0
4-Chloroaniline	Ave	0.4086	0.4003	0.0500	9.80	10.0	-2.0	20.0
Hexachlorobutadiene	Ave	0.1464	0.1445	0.0500	9.87	10.0	-1.3	20.0
Caprolactam	Ave	0.1263	0.1255	0.0500	19.9	20.0	-0.6	20.0
4-Chloro-3-methylphenol	Ave	0.3554	0.3537	0.0500	9.95	10.0	-0.5	20.0
2-Methylnaphthalene	Ave	0.6137	0.5915	0.0500	9.64	10.0	-3.6	20.0
1-Methylnaphthalene	Ave	0.5672	0.5574	0.0500	9.83	10.0	-1.7	20.0
Hexachlorocyclopentadiene	Ave	0.3124	0.3189	0.0500	10.2	10.0	2.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4288	0.4227	0.0500	9.86	10.0	-1.4	20.0
2,4,6-Trichlorophenol	Ave	0.2953	0.2877	0.0500	9.74	10.0	-2.6	20.0
2,4,5-Trichlorophenol	Ave	0.3139	0.3057	0.0500	9.74	10.0	-2.6	20.0
1,1'-Biphenyl	Ave	1.347	1.339	0.0500	9.94	10.0	-0.6	20.0
2-Chloronaphthalene	Ave	0.997	0.9534	0.0500	9.57	10.0	-4.3	20.0
2-Nitroaniline	Ave	0.5262	0.5376	0.0500	10.2	10.0	2.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80755/2 Calibration Date: 04/05/2013 11:22

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.127	1.123	0.0500	9.96	10.0	-0.4	20.0
2,6-Dinitrotoluene	Ave	0.2552	0.2616	0.0500	10.3	10.0	2.5	20.0
Acenaphthylene	Ave	1.571	1.598	0.0500	10.2	10.0	1.8	20.0
3-Nitroaniline	Ave	0.3052	0.3082	0.0500	10.1	10.0	1.0	20.0
Acenaphthene	Ave	0.9842	0.9390	0.0500	9.54	10.0	-4.6	20.0
2,4-Dinitrophenol	Lin1		0.1735	0.0500	18.9	20.0	-5.3	20.0
4-Nitrophenol	Ave	0.2351	0.2386	0.0500	20.3	20.0	1.5	20.0
2,4-Dinitrotoluene	Ave	0.3377	0.3489	0.0500	10.3	10.0	3.3	20.0
Dibenzofuran	Ave	1.388	1.384	0.0500	9.97	10.0	-0.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2535	0.2500	0.0500	9.86	10.0	-1.4	20.0
Diethyl phthalate	Ave	1.101	1.084	0.0500	9.84	10.0	-1.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.5347	0.5320	0.0500	9.95	10.0	-0.5	20.0
Fluorene	Ave	1.130	1.117	0.0500	9.88	10.0	-1.2	20.0
4-Nitroaniline	Ave	0.3049	0.3022	0.0500	9.91	10.0	-0.9	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1297	0.1329	0.0500	20.5	20.0	2.4	20.0
N-Nitrosodiphenylamine	Ave	0.4472	0.4571	0.0500	20.4	20.0	2.2	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.221	1.349	0.0500	11.1	10.0	10.5	20.0
Azobenzene	Ave	1.221	1.349	0.0500	11.1	10.0	10.5	20.0
4-Bromophenyl phenyl ether	Ave	0.1656	0.1588	0.0500	9.59	10.0	-4.1	20.0
Hexachlorobenzene	Ave	0.1620	0.1536	0.0500	9.48	10.0	-5.2	20.0
Atrazine	Ave	0.1828	0.1822	0.0500	19.9	20.0	-0.3	20.0
Pentachlorophenol	Ave	0.0962	0.1049	0.0500	21.8	20.0	9.1	20.0
Phenanthrene	Ave	0.996	0.9748	0.0500	9.79	10.0	-2.1	20.0
Anthracene	Ave	0.9880	1.023	0.0500	10.4	10.0	3.6	20.0
Carbazole	Ave	0.9108	0.8992	0.0500	9.87	10.0	-1.3	20.0
Di-n-butyl phthalate	Ave	1.077	1.137	0.0500	10.6	10.0	5.6	20.0
Fluoranthene	Ave	1.052	1.075	0.0500	10.2	10.0	2.2	20.0
Benzidine	Qua		0.4642	0.0500	22.6	20.0	13.0	20.0
Pyrene	Ave	1.056	1.055	0.0500	9.99	10.0	-0.0	20.0
Butyl benzyl phthalate	Ave	0.4732	0.4638	0.0500	9.80	10.0	-2.0	20.0
Bis(2-ethylhexyl) phthalate	Lin		0.6478	0.0500	9.30	10.0	-7.0	20.0
3,3'-Dichlorobenzidine	Ave	0.3350	0.3264	0.0500	19.5	20.0	-2.6	20.0
Benzo[a]anthracene	Ave	1.026	0.9796	0.0500	9.55	10.0	-4.5	20.0
Chrysene	Ave	0.9434	0.9252	0.0500	9.81	10.0	-1.9	20.0
Di-n-octyl phthalate	Ave	1.373	1.462	0.0500	10.6	10.0	6.5	20.0
Benzo[b]fluoranthene	Ave	1.142	1.090	0.0500	9.55	10.0	-4.5	20.0
Benzo[k]fluoranthene	Ave	1.196	1.210	0.0500	10.1	10.0	1.2	20.0
Benzo[a]pyrene	Ave	1.059	1.032	0.0500	9.75	10.0	-2.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.115	1.083	0.0500	9.71	10.0	-2.9	20.0
Dibenz(a,h)anthracene	Ave	0.9267	0.9218	0.0500	9.95	10.0	-0.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80755/2 Calibration Date: 04/05/2013 11:22

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.9163	0.8908	0.0500	9.72	10.0	-2.8	20.0
2-Fluorophenol (Surr)	Ave	1.805	1.709	0.0500	9.47	10.0	-5.3	20.0
Phenol-d5 (Surr)	Ave	2.565	2.394	0.0500	9.33	10.0	-6.7	20.0
Nitrobenzene-d5 (Surr)	Ave	0.6179	0.5842	0.0500	9.45	10.0	-5.5	20.0
2-Fluorobiphenyl (Surr)	Ave	1.213	1.137	0.0500	9.37	10.0	-6.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1266	0.1271	0.0500	10.0	10.0	0.4	20.0
Terphenyl-d14 (Surr)	Ave	0.7903	0.7214	0.0500	9.13	10.0	-8.7	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405002.D
Lims ID: ccv tcl
Client ID:
Inject. Date: 05-Apr-2013 11:22:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018588-002
Misc. Info.: CCV TCL =CCV TCL
Operator: 001574
Instrument ID: A4HP9
Injection Vol: 1.0 ul
ALS Bottle#: 2
Lims Batch ID: 80755
Lims Sample ID: 2
Sublist: chrom-8270 _9*sub23
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 08-Apr-2013 13:13:19
Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK007

First Level Reviewer: ulmanm
Date: 05-Apr-2013 11:53:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.746	3.746	0.0	92	384903	4.00	
* 2 Naphthalene-d8	136	4.772	4.772	0.0	98	1652511	4.00	
* 3 Acenaphthene-d10	164	6.236	6.236	0.0	85	933659	4.00	
* 4 Phenanthrene-d10	188	7.497	7.497	0.0	96	1591948	4.00	
* 5 Chrysene-d12	240	9.735	9.735	0.0	79	1643296	4.00	
* 6 Perylene-d12	264	11.247	11.247	0.0	96	1284987	4.00	
$ 7 2-Fluorophenol	112	2.763	2.763	0.0	94	1644359	9.47	
$ 8 Phenol-d5	99	3.415	3.415	0.0	96	2304023	9.33	
$ 9 Nitrobenzene-d5	82	4.184	4.184	0.0	82	2413422	9.45	
$ 10 2-Fluorobiphenyl (Surr)	172	5.654	5.654	0.0	99	2653427	9.37	
$ 11 2,4,6-Tribromophenol	330	6.904	6.904	0.0	89	296555	10.0	
$ 12 Terphenyl-d14	244	8.821	8.821	0.0	97	2963586	9.13	
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
25 1,4-Dioxane	88	1.759	1.759	0.0	92	793973	9.57	
26 N-Nitrosodimethylamine	74	1.941	1.941	0.0	85	1555603	10.3	
27 Pyridine	79	1.967	1.967	0.0	93	2388682	9.96	
43 Phenol	94	3.426	3.426	0.0	77	2327495	9.59	
41 Benzaldehyde	77	3.426	3.426	0.0	85	3731103	20.5	
44 Aniline	93	3.495	3.495	0.0	97	3226491	9.76	
69 Bis(2-chloroethyl)ether	93	3.522	3.522	0.0	95	2134291	9.65	
46 2-Chlorophenol	128	3.586	3.586	0.0	90	1247459	9.49	
47 1,3-Dichlorobenzene	146	3.709	3.709	0.0	88	1304859	9.66	
48 1,4-Dichlorobenzene	146	3.762	3.762	0.0	75	1321110	9.63	
49 Benzyl alcohol	108	3.832	3.832	0.0	83	1117633	9.69	
50 1,2-Dichlorobenzene	146	3.885	3.885	0.0	87	1248164	9.63	
51 2-Methylphenol	108	3.896	3.896	0.0	95	1556209	9.73	
53 2,2'-oxybis[1-chloropropane]	45	3.933	3.933	0.0	93	2204672	9.66	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	3.955	3.955	0.0	68	5624604	21.2	
21 3 & 4 Methylphenol	108	4.019	4.019	0.0	94	1628455	9.66	
57 N-Nitrosodi-n-propylamine	70	4.040	4.040	0.0	73	1770649	9.87	
58 Acetophenone	105	4.056	4.056	0.0	83	2496016	9.67	
61 Hexachloroethane	117	4.152	4.152	0.0	86	660401	9.83	
62 Nitrobenzene	77	4.200	4.200	0.0	75	2517230	10.3	
64 Isophorone	82	4.382	4.382	0.0	95	4348566	10.6	
66 2-Nitrophenol	139	4.452	4.452	0.0	76	659225	9.86	
65 2,4-Dimethylphenol	107	4.452	4.452	0.0	89	1616818	9.83	
71 Benzoic acid	122	4.521	4.521	0.0	83	1796074	19.0	M
70 Bis(2-chloroethoxy)methane	93	4.537	4.537	0.0	94	2416464	10.1	
73 2,4-Dichlorophenol	162	4.639	4.639	0.0	93	992924	9.98	
74 1,2,4-Trichlorobenzene	180	4.713	4.713	0.0	83	1080658	10.1	
75 Naphthalene	128	4.793	4.793	0.0	97	3911024	10.0	
76 4-Chloroaniline	127	4.815	4.815	0.0	78	1653608	9.80	
79 Hexachlorobutadiene	225	4.874	4.874	0.0	89	596921	9.87	
84 Caprolactam	113	5.125	5.125	0.0	83	1037149	19.9	
86 4-Chloro-3-methylphenol	107	5.194	5.194	0.0	85	1461251	9.95	
87 2-Methylnaphthalene	142	5.360	5.360	0.0	84	2443782	9.64	
88 1-Methylnaphthalene	142	5.445	5.445	0.0	81	2302729	9.83	
89 Hexachlorocyclopentadiene	237	5.477	5.477	0.0	83	744278	10.2	
91 1,2,4,5-Tetrachlorobenzene	216	5.493	5.493	0.0	92	986611	9.86	
92 2,4,6-Trichlorophenol	196	5.579	5.579	0.0	86	671543	9.74	
93 2,4,5-Trichlorophenol	196	5.616	5.616	0.0	87	713540	9.74	
98 1,1'-Biphenyl	154	5.744	5.744	0.0	95	3124824	9.94	
100 2-Chloronaphthalene	162	5.771	5.771	0.0	97	2225343	9.57	
102 2-Nitroaniline	65	5.841	5.841	0.0	71	1254939	10.2	
105 Dimethyl phthalate	163	5.979	5.979	0.0	94	2620915	9.96	
106 1,3-Dinitrobenzene	168	6.017	6.017	0.0	77	456858	10.3	
107 2,6-Dinitrotoluene	165	6.038	6.038	0.0	71	610704	10.3	
109 Acenaphthylene	152	6.124	6.124	0.0	92	3730790	10.2	
110 3-Nitroaniline	138	6.188	6.188	0.0	85	719422	10.1	
112 Acenaphthene	153	6.268	6.268	0.0	85	2191662	9.54	
111 2,4-Dinitrophenol	184	6.273	6.273	0.0	69	810071	18.9	
113 4-Nitrophenol	109	6.300	6.300	0.0	84	1114034	20.3	
114 2,4-Dinitrotoluene	165	6.380	6.380	0.0	76	814304	10.3	
116 Dibenzofuran	168	6.412	6.412	0.0	84	3229650	9.97	
119 2,3,4,6-Tetrachlorophenol	232	6.498	6.498	0.0	81	583546	9.86	
121 Diethyl phthalate	149	6.567	6.567	0.0	95	2529366	9.84	
123 4-Chlorophenyl phenyl ether	204	6.685	6.685	0.0	94	1241785	9.95	
126 Fluorene	166	6.701	6.701	0.0	82	2606429	9.88	
125 4-Nitroaniline	138	6.706	6.706	0.0	73	705339	9.91	
128 4,6-Dinitro-2-methylphenol	198	6.722	6.722	0.0	65	1057512	20.5	
131 N-Nitrosodiphenylamine	169	6.781	6.781	0.0	99	3638723	20.4	
132 1,2-Diphenylhydrazine	77	6.818	6.818	0.0	100	5370045	11.1	
133 Azobenzene	77	6.818	6.818	0.0	93	5370742	11.1	
139 4-Bromophenyl phenyl ether	248	7.101	7.101	0.0	72	631886	9.59	
141 Hexachlorobenzene	284	7.160	7.160	0.0	84	611172	9.48	
142 Atrazine	200	7.213	7.213	0.0	81	1449948	19.9	
143 Pentachlorophenol	266	7.320	7.320	0.0	80	835316	21.8	
148 Phenanthrene	178	7.518	7.518	0.0	98	3879367	9.79	
149 Anthracene	178	7.561	7.561	0.0	98	4072382	10.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	7.684	7.684	0.0	83	3578797	9.87	
154 Di-n-butyl phthalate	149	7.935	7.935	0.0	99	4526381	10.6	
159 Fluoranthene	202	8.522	8.522	0.0	99	4277058	10.2	
160 Benzidine	184	8.618	8.618	0.0	98	3814216	22.6	
161 Pyrene	202	8.725	8.725	0.0	96	4335910	10.0	
168 Butyl benzyl phthalate	149	9.211	9.211	0.0	87	1905293	9.80	
173 Bis(2-ethylhexyl) phthalate	149	9.671	9.671	0.0	94	2661291	9.30	
175 3,3'-Dichlorobenzidine	252	9.687	9.687	0.0	68	2682152	19.5	M
177 Benzo[a]anthracene	228	9.724	9.724	0.0	96	4024238	9.55	
178 Chrysene	228	9.762	9.762	0.0	94	3801106	9.81	
180 Di-n-octyl phthalate	149	10.248	10.248	0.0	99	4695137	10.6	
182 Benzo[b]fluoranthene	252	10.782	10.782	0.0	93	3502490	9.55	
183 Benzo[k]fluoranthene	252	10.814	10.814	0.0	86	3888061	10.1	
184 Benzo[a]pyrene	252	11.183	11.183	0.0	77	3314639	9.75	
188 Indeno[1,2,3-cd]pyrene	276	12.887	12.887	0.0	92	3479617	9.71	
189 Dibenz(a,h)anthracene	278	12.908	12.908	0.0	84	2961256	9.95	
190 Benzo[g,h,i]perylene	276	13.394	13.394	0.0	90	2861778	9.72	
S 191 Methyl Phenols,Total	100				0		19.4	
S 245 Total Cresols	100				0		19.4	

QC Flag Legend

Review Flags
M - Manually Integrated

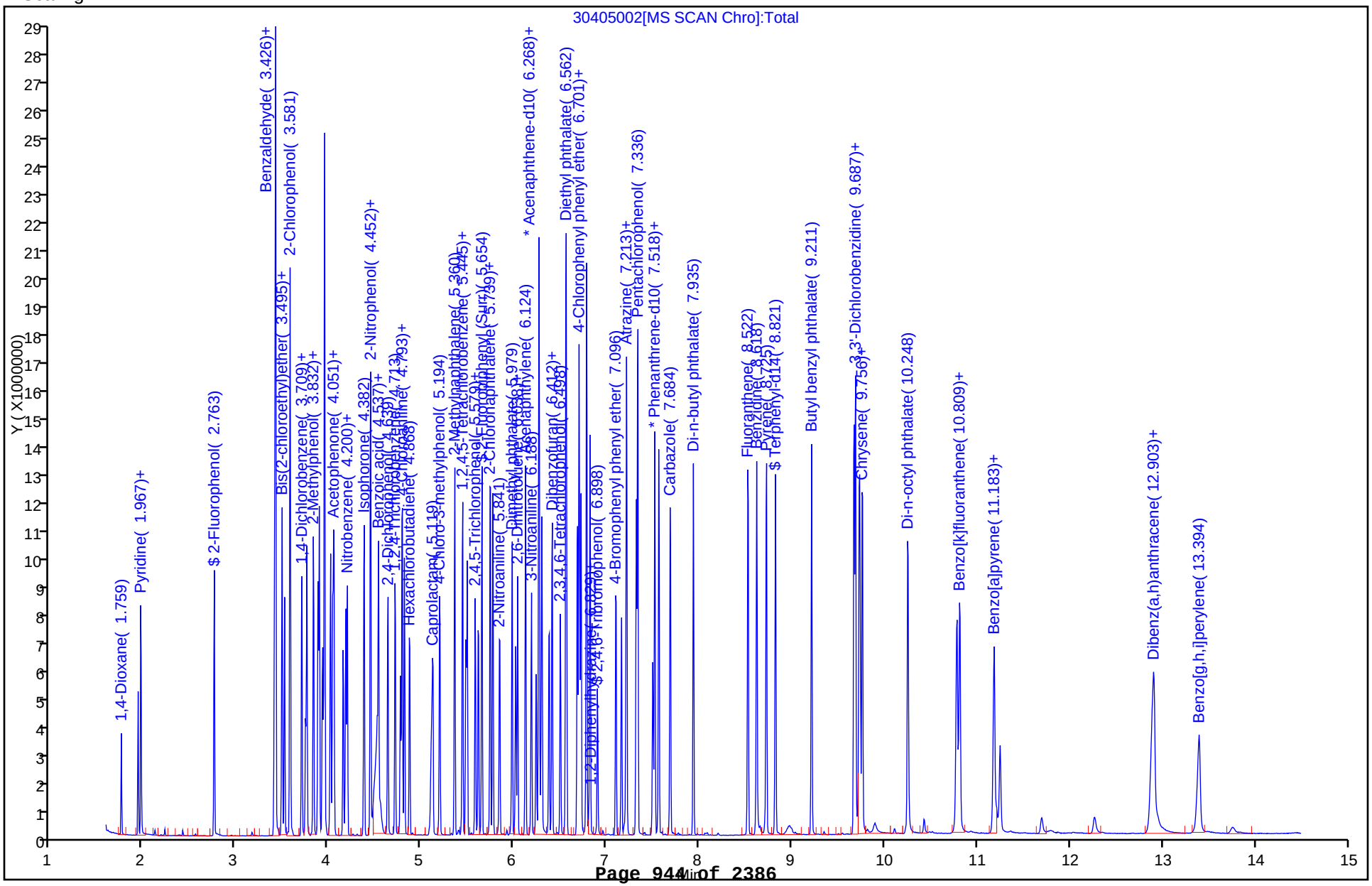
Report Date: 08-Apr-2013 13:13:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405002.D

Injection Date:	05-Apr-2013 11:22:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

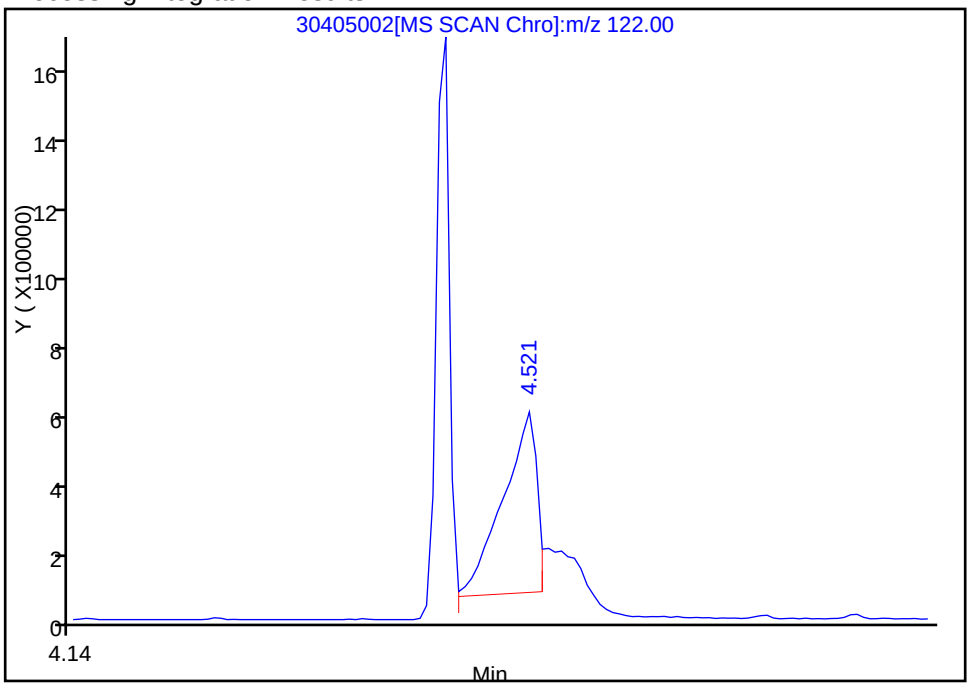
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405002.D		
Injection Date:	05-Apr-2013 11:22:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.52

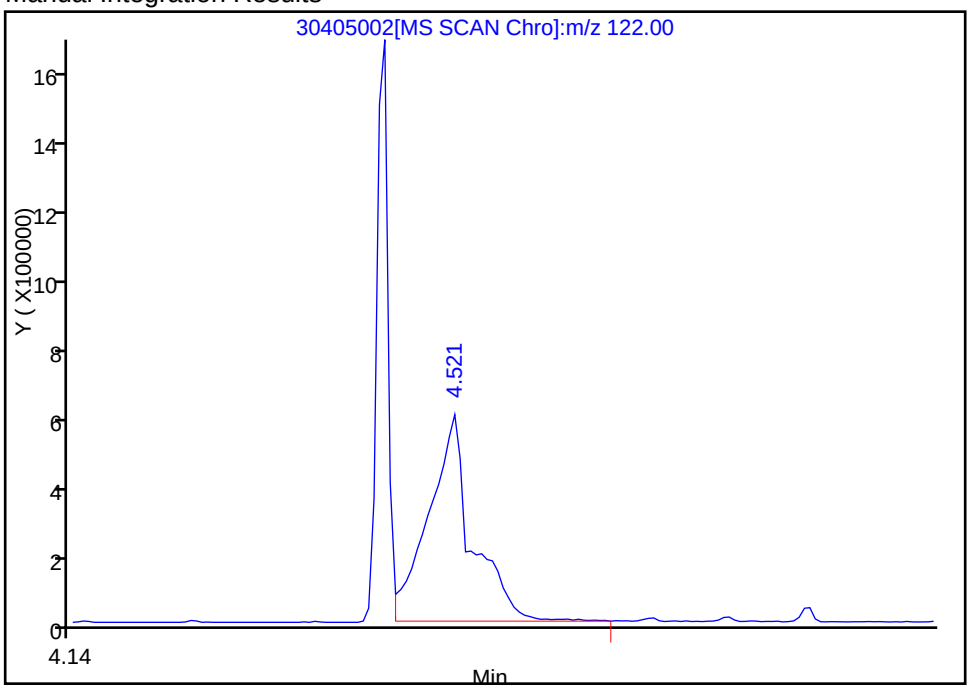
Processing Integration Results

RT: 4.52
Response: 1029688
Amount: 11.398647



Manual Integration Results

RT: 4.52
Response: 1796074
Amount: 18.999434



Reviewer: ulmanm, 05-Apr-2013 11:53:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

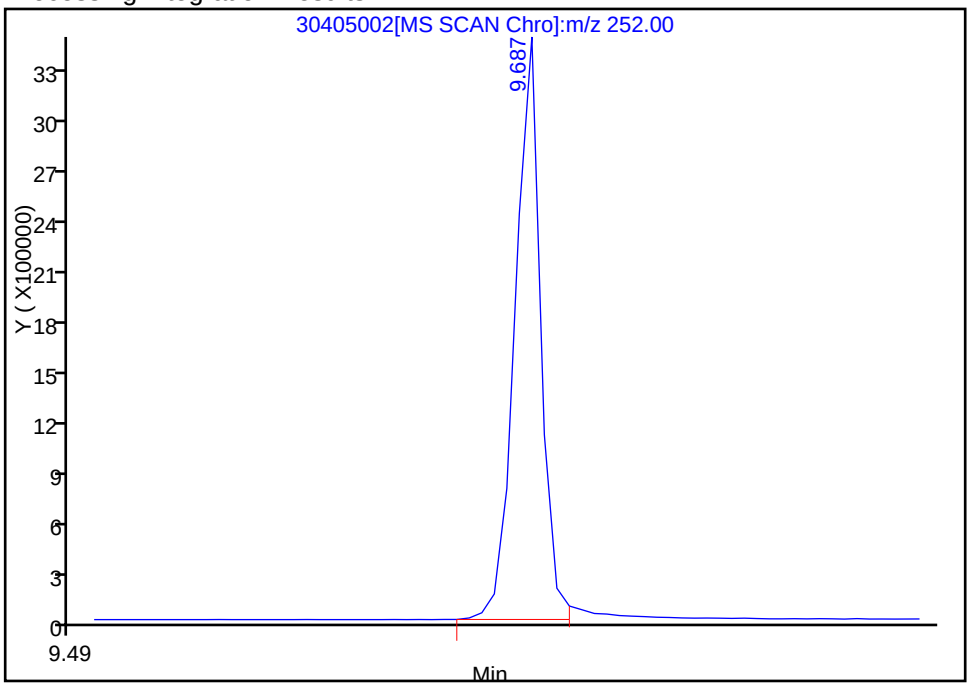
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405002.D		
Injection Date:	05-Apr-2013 11:22:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 3,3'-Dichlorobenzidine, Signal: 1, m/z: 252.0 Type: quant, RT: 9.69

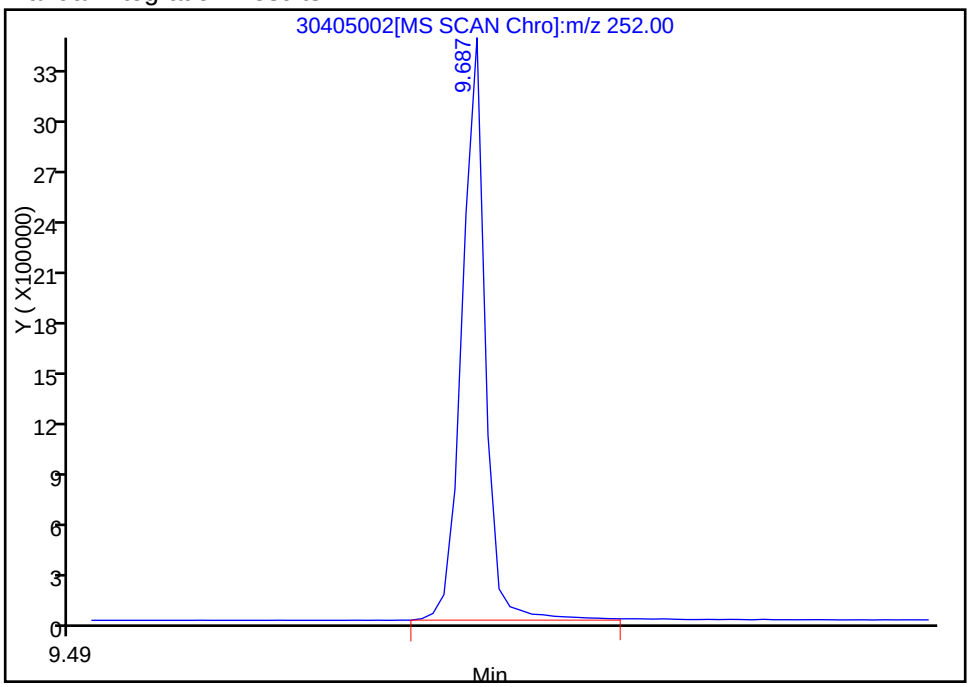
Processing Integration Results

RT: 9.69
Response: 2611769
Amount: 18.976196



Manual Integration Results

RT: 9.69
Response: 2682152
Amount: 19.487574



Reviewer: ulmanm, 05-Apr-2013 11:53:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll1 Calibration Date: 04/05/2013 16:47

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405017.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9461			0.111	0.100		
2-Methylnaphthalene	Ave	0.6137			0.108	0.100		
1-Methylnaphthalene	Ave	0.5672			0.117	0.100		
1,1'-Biphenyl	Ave	1.347			0.0990	0.100		
2-Chloronaphthalene	Ave	0.997			0.107	0.100		
Acenaphthylene	Ave	1.571			0.105	0.100		
Acenaphthene	Ave	0.9842			0.120	0.100		
Dibenzofuran	Ave	1.388			0.105	0.100		
Fluorene	Ave	1.130			0.114	0.100		
Hexachlorobenzene	Ave	0.1620			0.107	0.100		
Phenanthrene	Ave	0.996			0.113	0.100		
Anthracene	Ave	0.9880			0.107	0.100		
Carbazole	Ave	0.9108			0.112	0.100		
Fluoranthene	Ave	1.052			0.117	0.100		
Pyrene	Ave	1.056			0.112	0.100		
Benzo[a]anthracene	Ave	1.026			0.121	0.100		
Chrysene	Ave	0.9434			0.109	0.100		
Benzo[b]fluoranthene	Ave	1.142			0.106	0.100		
Benzo[k]fluoranthene	Ave	1.196			0.105	0.100		
Benzo[a]pyrene	Ave	1.059			0.111	0.100		
Indeno[1,2,3-cd]pyrene	Ave	1.115			0.103	0.100		
Dibenz(a,h)anthracene	Ave	0.9267			0.112	0.100		
Benzo[g,h,i]perylene	Ave	0.9163			0.103	0.100		
1,2,4,5-Tetrachlorobenzene	Ave	0.4288			0.000550	0.100		
1,2,4-Trichlorobenzene	Ave	0.2601			0.000800	0.100		
1,2-Dichlorobenzene	Ave	1.346			0.000800	0.100		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.221			0.000800	0.100		
1,3-Dichlorobenzene	Ave	1.404			0.000800	0.100		
1,4-Dichlorobenzene	Ave	1.426			0.000800	0.100		
1,4-Dioxane	Ave	0.8623			0.000800	0.100		
2,3,4,6-Tetrachlorophenol	Ave	0.2535			0.000580	0.100		
2,4,5-Trichlorophenol	Ave	0.3139			0.000800	0.100		
2,4,6-Trichlorophenol	Ave	0.2953			0.000800	0.100		
2,4-Dichlorophenol	Ave	0.2409			0.000800	0.100		
2,4-Dimethylphenol	Ave	0.3981			0.000800	0.100		
2,4-Dinitrophenol	Lin1				0.00240	0.200		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll1 Calibration Date: 04/05/2013 16:47

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405017.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-Dinitrotoluene	Ave	0.3377			0.000800	0.100		
2,6-Dinitrotoluene	Ave	0.2552			0.000800	0.100		
2-Chlorophenol	Ave	1.366			0.000800	0.100		
2-Methylphenol	Ave	1.662			0.000800	0.100		
2-Nitroaniline	Ave	0.5262			0.000800	0.100		
2-Nitrophenol	Ave	0.1618			0.000800	0.100		
3 & 4 Methylphenol	Ave	1.751			0.000800	0.100		
3,3'-Dichlorobenzidine	Ave	0.3350			0.000800	0.200		
3-Nitroaniline	Ave	0.3052			0.000800	0.100		
4,6-Dinitro-2-methylphenol	Ave	0.1297			0.00240	0.200		
4-Bromophenyl phenyl ether	Ave	0.1656			0.000800	0.100		
4-Chloro-3-methylphenol	Ave	0.3554			0.000800	0.100		
4-Chloroaniline	Ave	0.4086			0.000800	0.100		
4-Chlorophenyl phenyl ether	Ave	0.5347			0.000800	0.100		
4-Nitroaniline	Ave	0.3049			0.000800	0.100		
4-Nitrophenol	Ave	0.2351			0.00240	0.200		
Acetophenone	Ave	2.684			0.000800	0.100		
Aniline	Ave	3.435			0.00240	0.100		
Atrazine	Ave	0.1828			0.000800	0.200		
Azobenzene	Ave	1.221			0.000810	0.100		
Benzaldehyde	Ave	1.888			0.000800	0.200		
Benzidine	Qua				0.00240	0.200		
Benzoic acid	Lin1				0.0100	0.200		
Benzyl alcohol	Ave	1.199			0.000800	0.100		
bis (2-chloroisopropyl) ether	Ave	2.372			0.000800	0.100		
Bis(2-chloroethoxy)methane	Ave	0.5777			0.000800	0.100		
Bis(2-chloroethyl)ether	Ave	2.298			0.000100	0.100		
Bis(2-ethylhexyl) phthalate	Lin				0.000800	0.100		
Butyl benzyl phthalate	Ave	0.4732			0.000800	0.100		
Caprolactam	Ave	0.1263			0.000800	0.200		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll1 Calibration Date: 04/05/2013 16:47

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405017.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diethyl phthalate	Ave	1.101			0.000800	0.100		
Dimethyl phthalate	Ave	1.127			0.000800	0.100		
Di-n-butyl phthalate	Ave	1.077			0.000800	0.100		
Di-n-octyl phthalate	Ave	1.373			0.000800	0.100		
Hexachlorobutadiene	Ave	0.1464			0.000800	0.100		
Hexachlorocyclopentadiene	Ave	0.3124			0.000800	0.100		
Hexachloroethane	Ave	0.6984			0.000800	0.100		
Isophorone	Ave	0.997			0.000800	0.100		
Nitrobenzene	Ave	0.5908			0.000100	0.100		
N-Nitrosodimethylamine	Ave	1.568			0.000800	0.100		
N-Nitrosodi-n-propylamine	Ave	1.864			0.000800	0.100		
N-Nitrosodiphenylamine	Ave	0.4472			0.000800	0.200		
Pentachlorophenol	Ave	0.0962			0.00240	0.200		
Phenol	Ave	2.523			0.000800	0.100		
Pyridine	Ave	2.493			0.000800	0.100		
Nitrobenzene-d5 (Surr)	Ave	0.6179			0.115	0.100	115*	35-100
2-Fluorobiphenyl (Surr)	Ave	1.213			0.129	0.100	129*	45-105
Terphenyl-d14 (Surr)	Ave	0.7903			0.133	0.100	133*	30-125
2,4,6-Tribromophenol (Surr)	Ave	0.1266			0.000000	0.100	0*	35-125
2-Fluorophenol (Surr)	Ave	1.805			0.000000	0.100	0*	35-105
Phenol-d5 (Surr)	Ave	2.565			0.000000	0.100	0*	40-100

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405017.D
Lims ID: mdll1 Client ID:
Inject. Date: 05-Apr-2013 16:47:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0018588-017
Misc. Info.: MDLL1 =MDLL1
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 80755 Lims Sample ID: 17
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 08-Apr-2013 13:13:19 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK007

First Level Reviewer: ulmanm Date: 08-Apr-2013 10:46:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.745	3.746	-0.001	94	336916	4.00	
* 2 Naphthalene-d8	136	4.771	4.772	-0.001	99	1439196	4.00	
* 3 Acenaphthene-d10	164	6.235	6.236	-0.001	84	822330	4.00	
* 4 Phenanthrene-d10	188	7.495	7.497	-0.002	97	1399581	4.00	
* 5 Chrysene-d12	240	9.734	9.735	-0.001	79	1458532	4.00	
* 6 Perylene-d12	264	11.251	11.247	0.004	93	1207651	4.00	
$ 7 2-Fluorophenol	112		2.763					
$ 8 Phenol-d5	99		3.415					
$ 9 Nitrobenzene-d5	82	4.178	4.184	-0.006	82	25590	0.1151	
$ 10 2-Fluorobiphenyl (Surr)	172	5.652	5.654	-0.002	89	32066	0.1286	
$ 11 2,4,6-Tribromophenol	330		6.904					
$ 12 Terphenyl-d14	244	8.820	8.821	-0.001	87	38247	0.1327	
16 2,3-Dichlorophenol	1		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
20 Dimethylformamide	1		0.000					
19 Octachlorostyrene	1		0.000					
247 Hexadecane	57		0.000					
13 Octachlorocyclopentene	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
248 2,3,7,8 TCDF TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
25 1,4-Dioxane	88		1.759					
26 N-Nitrosodimethylamine	74		1.941					
27 Pyridine	79		1.967					
28 Ethyl methacrylate	69		2.103					9
29 3-Chloropropionitrile	54		2.284					
33 Malononitrile	66		2.439					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
31 2-Picoline	93		2.475					
32 N-Nitrosomethylethylamine	88		2.534					9
30 3-Picoline	93		2.646					
233 n,n'-Dimethylacetamide	44		2.652					
35 Acrylamide	71		2.705					
34 Methyl methanesulfonate	80		2.731					9
36 N-Nitrosodiethylamine	102		3.009					
37 Ethyl methanesulfonate	79		3.207					9
38 2-Methylcyclohexanone	68		3.239					
39 3-Methylcyclohexanone	69		3.266					
40 4-Methylcyclohexanone	55		3.303					
43 Phenol	94		3.426					
41 Benzaldehyde	77		3.426					
44 Aniline	93		3.495					
69 Bis(2-chloroethyl)ether	93		3.522					
46 2-Chlorophenol	128		3.586					
42 Phenylmercaptan	110		3.596					
45 Pentachloroethane	167		3.597					
47 1,3-Dichlorobenzene	146		3.709					
232 1-Methyl-2-pyrrilidinone	99		3.751					
48 1,4-Dichlorobenzene	146		3.762					
49 Benzyl alcohol	108		3.832					
50 1,2-Dichlorobenzene	146		3.885					
51 2-Methylphenol	108		3.896					
53 2,2'-oxybis[1-chloropropane]	45		3.933					
52 Indene	115		3.955					
21 3 & 4 Methylphenol	108		4.019					
57 N-Nitrosodi-n-propylamine	70		4.040					
58 Acetophenone	105		4.056					
56 N-Nitrosopyrrolidine	100		4.099					
59 N-Nitrosomorpholine	56		4.126					
60 2-Toluidine	106		4.142					9
61 Hexachloroethane	117		4.152					
62 Nitrobenzene	77		4.200					
67 1,3,5-Trichlorobenzene	180		4.330					
63 N-Nitrosopiperidine	114		4.382					
64 Isophorone	82		4.382					
66 2-Nitrophenol	139		4.452					
65 2,4-Dimethylphenol	107		4.452					
71 Benzoic acid	122		4.521					9
70 Bis(2-chloroethoxy)methane	93		4.537					
68 o,o',o''-Triethylphosphorothioat	198		4.558					
24 Catechol	110		4.592					9
73 2,4-Dichlorophenol	162		4.639					
72 alpha,alpha-Dimethyl phenethylam	58		4.676					9
74 1,2,4-Trichlorobenzene	180		4.713					
80 1,2,3-Trichlorobenzene	180		4.774					
75 Naphthalene	128	4.792	4.793	-0.001	40	37695	0.1107	
76 4-Chloroaniline	127		4.815					
79 Hexachlorobutadiene	225		4.874					
246 1-Chloronaphthalene	162		4.884					
77 2,6-Dichlorophenol	162		4.884					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
15 3-Methylcatechol	124		4.913					
78 Hexachloropropene	213		4.916					
14 4-Methylcatechol	124		5.036					
81 Benzothiazole	135		5.046					
82 Quinoline	129		5.125					
84 Caprolactam	113		5.125					
83 N-Nitrosodi-n-butylamine	84		5.130					9
85 p-Phenylene diamine	108		5.167					9
86 4-Chloro-3-methylphenol	107		5.194					
94 Safrole, Total	162		5.328					
90 1,2,3,5-Tetrachlorobenzene	216		5.345					
87 2-Methylnaphthalene	142	5.359	5.360	-0.001	85	23748	0.1076	
88 1-Methylnaphthalene	142	5.444	5.445	-0.001	78	23961	0.1174	
89 Hexachlorocyclopentadiene	237		5.477					9
91 1,2,4,5-Tetrachlorobenzene	216		5.493					
225 Isosafrole Peak 1	162		5.568					9
92 2,4,6-Trichlorophenol	196		5.579					9
97 2,4-Toluene diamine	121		5.586					
99 1,2,3,4 -Tetrachlorobenzene	216		5.596					
93 2,4,5-Trichlorophenol	196		5.616					
96 3,4-Dichloronitrobenzene	109		5.725					9
98 1,1'-Biphenyl	154	5.738	5.744	-0.006	91	27428	0.0990	
227 Isosafrole Peak 2	162		5.760					9
100 2-Chloronaphthalene	162	5.770	5.771	-0.001	89	21864	0.1067	
101 Phenyl ether	170		5.773					
102 2-Nitroaniline	65		5.841					9
108 1,2-Dinitrobenzene	168		5.944					9
103 1,4-Naphthoquinone	158		5.974					
105 Dimethyl phthalate	163		5.979					
104 1,4-Dinitrobenzene	168		6.017					
106 1,3-Dinitrobenzene	168		6.017					9
107 2,6-Dinitrotoluene	165		6.038					9
109 Acenaphthylene	152	6.122	6.124	-0.002	86	33889	0.1050	
110 3-Nitroaniline	138		6.188					9
112 Acenaphthene	153	6.261	6.268	-0.007	89	24365	0.1204	
111 2,4-Dinitrophenol	184		6.273					
113 4-Nitrophenol	109		6.300					
114 2,4-Dinitrotoluene	165		6.380					9
116 Dibenzofuran	168	6.411	6.412	-0.001	78	29891	0.1048	
115 Pentachlorobenzene	250		6.433					
119 2,3,4,6-Tetrachlorophenol	232		6.498					9
118 2,3,5,6-Tetrachlorophenol	232		6.524					9
117 1-Naphthylamine	143		6.535					9
121 Diethyl phthalate	149		6.567					
120 2-Naphthylamine	143		6.604					9
127 Tributyl phosphate	99		6.615					9
123 4-Chlorophenyl phenyl ether	204		6.685					
122 Thionazin	97		6.695					9
126 Fluorene	166	6.699	6.701	-0.002	73	26392	0.1136	
125 4-Nitroaniline	138		6.706					9
128 4,6-Dinitro-2-methylphenol	198		6.722					9
124 N-Nitro-o-toluidine	152		6.759					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
131 N-Nitrosodiphenylamine	169		6.781					
132 1,2-Diphenylhydrazine	77		6.818					
133 Azobenzene	77		6.818					
130 Diphenylamine	169		6.839					
134 Sulfotepp	202		6.941					
135 1,3,5-Trinitrobenzene	213		7.042					
228 Diallate Peak 1	86		7.069					
137 Phenacetin	108		7.085					
138 Phorate	121		7.085					9
139 4-Bromophenyl phenyl ether	248		7.101					
230 Diallate Peak 2	86		7.149					9
141 Hexachlorobenzene	284	7.159	7.160	-0.001	65	6088	0.1074	
142 Atrazine	200		7.213					
140 Dimethoate	87		7.235					9
143 Pentachlorophenol	266		7.320					9
129 4-Aminobiphenyl	169		7.379					9
145 Pentachloronitrobenzene	237		7.390					
144 Pronamide	173		7.400					
147 Dinoseb	211		7.512					
148 Phenanthrene	178	7.517	7.518	-0.001	39	39209	0.1125	
146 Disulfoton	88		7.523					9
149 Anthracene	178	7.559	7.561	-0.002	81	37142	0.1074	
153 Diphenylsulfone	125		7.616					9
151 Carbazole	167	7.688	7.684	0.004	84	35793	0.1123	
150 DFTPP								
152 Methyl parathion	109		7.844					
154 Di-n-butyl phthalate	149		7.935					
155 Ethyl Parathion	97		8.164					
156 4-Nitroquinoline-1-oxide	190		8.228					
157 Methapyrilene	58		8.266					9
158 Isodrin	66		8.463					
159 Fluoranthene	202	8.521	8.522	-0.001	95	42976	0.1168	
160 Benzidine	184		8.618					
161 Pyrene	202	8.724	8.725	-0.001	94	43183	0.1121	
166 4,4'-DDE	246		8.763					9
226 Aramite Peak 1	185		8.843					
229 Aramite Peak 2	185		8.901					
163 p-Dimethylamino azobenzene	225		9.003					
164 Chlorobenzilate	139		9.024					9
165 4,4'-DDD	235		9.078					
176 Hexabromobenzene	232		9.208					
168 Butyl benzyl phthalate	149		9.211					
167 Famphur	218		9.238					
169 3,3'-Dimethylbenzidine	212		9.286					
170 4,4'-DDT	235		9.308					9
172 3,3'-Dimethoxybenzidine	244		9.491					9
171 2-Acetylaminofluorene	181		9.505					9
173 Bis(2-ethylhexyl) phthalate	149		9.671					
175 3,3'-Dichlorobenzidine	252		9.687					
177 Benzo[a]anthracene	228	9.723	9.724	-0.001	85	45165	0.1207	
174 4,4'-Methylene bis(2-chloroanili	231		9.745					9
178 Chrysene	228	9.755	9.762	-0.007	72	37344	0.1086	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
179 6-Methylchrysene	242		10.248					
180 Di-n-octyl phthalate	149		10.248					
182 Benzo[b]fluoranthene	252	10.775	10.782	-0.007	79	36545	0.1060	
183 Benzo[k]fluoranthene	252	10.802	10.814	-0.012	82	37861	0.1048	
181 7,12-Dimethylbenz(a)anthracene	256		10.857					
184 Benzo[a]pyrene	252	11.176	11.183	-0.007	63	35501	0.1111	
185 3-Methylcholanthrene	268		11.765					9
186 Dibenz[a,j]acridine	279		11.804					
187 Dibenz[a,h]acridine	279		12.636					
188 Indeno[1,2,3-cd]pyrene	276	12.875	12.887	-0.012	92	34818	0.1034	
189 Dibenz(a,h)anthracene	278	12.896	12.908	-0.012	51	31201	0.1115	
190 Benzo[g,h,i]perylene	276	13.388	13.394	-0.006	79	28466	0.1029	M
S 191 Methyl Phenols,Total	100		0.000					7
S 245 Total Cresols	100		0.000					
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 234 2-Isopropylphenol TIC	121		4.500					1
T 235 4-isopropylphenol TIC	121		4.700					
T 236 3-isopropylphenol TIC	121		4.700					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		5.000					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 231 2,3,7,8-TCDD	322		9.600					1
T 192 Octadecane (TIC)	254		9.600					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 196 Kepone TIC	272		12.500					
T 197 Hexachlorophene TIC	198		13.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

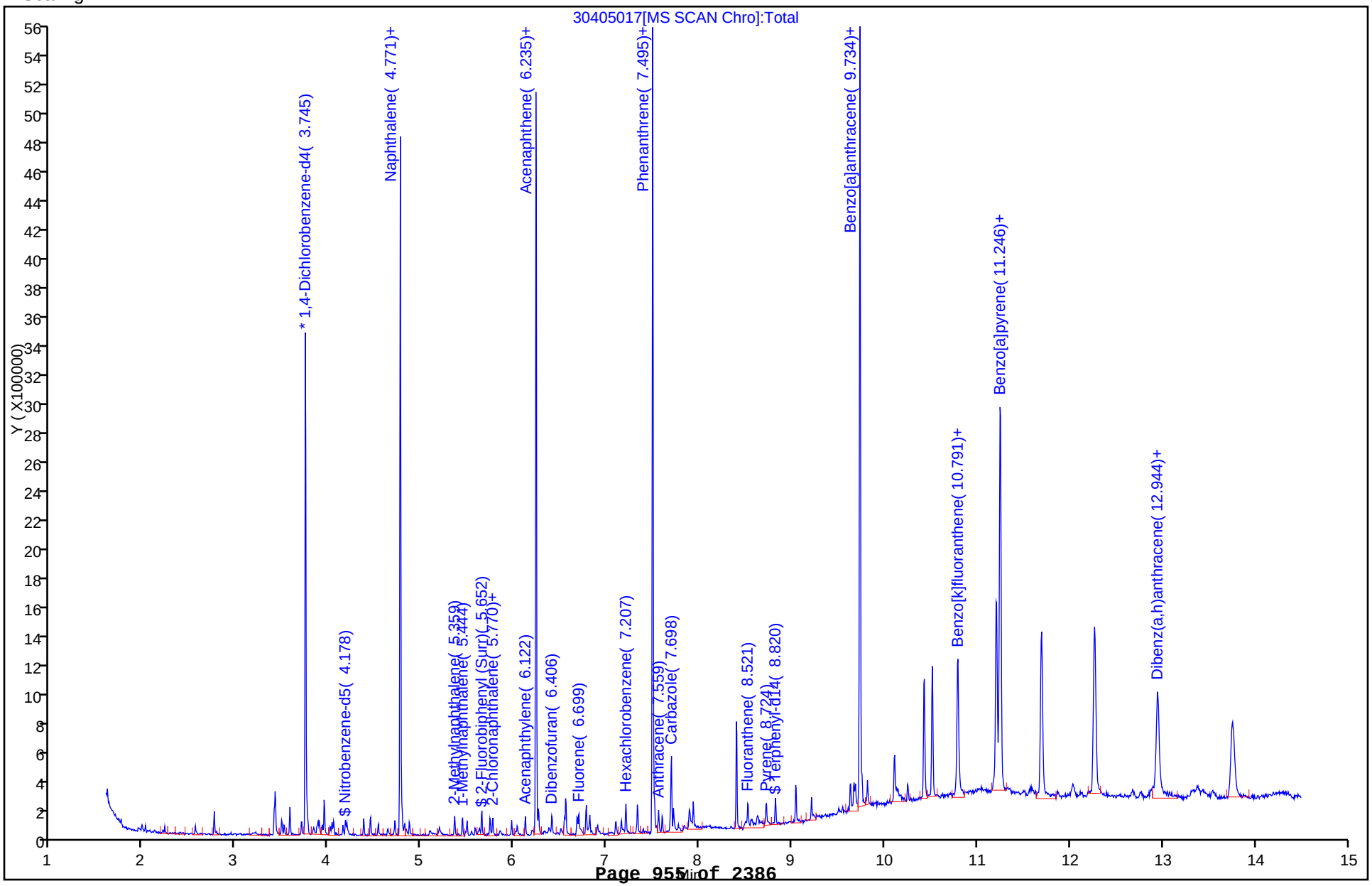
Report Date: 08-Apr-2013 13:42:00 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405017.D

Injection Date:	05-Apr-2013 16:47:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	17
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

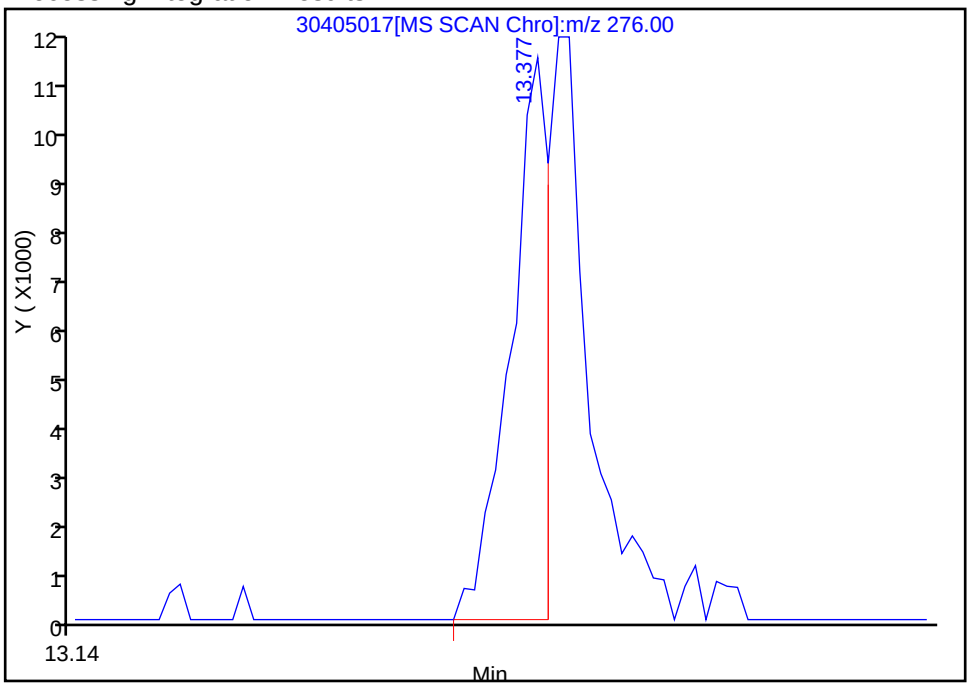
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405017.D		
Injection Date:	05-Apr-2013 16:47:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	17
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.39

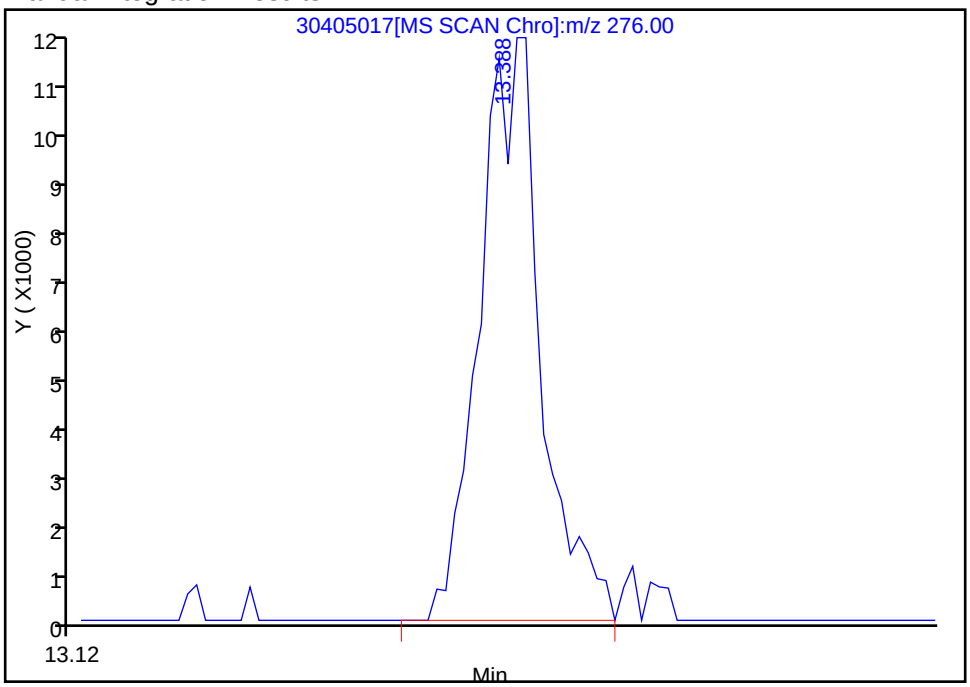
Processing Integration Results

RT: 13.38
Response: 14595
Amount: 0.052760



Manual Integration Results

RT: 13.39
Response: 28466
Amount: 0.102902



Reviewer: ulmanm, 08-Apr-2013 10:46:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll2 Calibration Date: 04/05/2013 17:07

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405018.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8623			0.489	0.500		
N-Nitrosodimethylamine	Ave	1.568			0.468	0.500		
Pyridine	Ave	2.493			0.420	0.500		
Phenol	Ave	2.523			0.489	0.500		
Benzaldehyde	Ave	1.888			1.07	1.00		
Aniline	Ave	3.435			0.468	0.500		
Bis(2-chloroethyl)ether	Ave	2.298			0.475	0.500		
2-Chlorophenol	Ave	1.366			0.512	0.500		
1,3-Dichlorobenzene	Ave	1.404			0.505	0.500		
1,4-Dichlorobenzene	Ave	1.426			0.498	0.500		
Benzyl alcohol	Ave	1.199			0.387	0.500		
1,2-Dichlorobenzene	Ave	1.346			0.511	0.500		
2-Methylphenol	Ave	1.662			0.478	0.500		
bis (2-chloroisopropyl) ether	Ave	2.372			0.499	0.500		
3 & 4 Methylphenol	Ave	1.751			0.442	0.500		
N-Nitrosodi-n-propylamine	Ave	1.864			0.458	0.500		
Acetophenone	Ave	2.684			0.421	0.500		
Hexachloroethane	Ave	0.6984			0.501	0.500		
Nitrobenzene	Ave	0.5908			0.436	0.500		
Isophorone	Ave	0.997			0.474	0.500		
2,4-Dimethylphenol	Ave	0.3981			0.448	0.500		
2-Nitrophenol	Ave	0.1618			0.397	0.500		
Bis(2-chloroethoxy)methane	Ave	0.5777			0.456	0.500		
2,4-Dichlorophenol	Ave	0.2409			0.449	0.500		
1,2,4-Trichlorobenzene	Ave	0.2601			0.505	0.500		
4-Chloroaniline	Ave	0.4086			0.447	0.500		
Hexachlorobutadiene	Ave	0.1464			0.525	0.500		
Caprolactam	Ave	0.1263			0.611	1.00		
4-Chloro-3-methylphenol	Ave	0.3554			0.429	0.500		
Hexachlorocyclopentadiene	Ave	0.3124			0.308	0.500		
1,2,4,5-Tetrachlorobenzene	Ave	0.4288			0.492	0.500		
2,4,6-Trichlorophenol	Ave	0.2953			0.412	0.500		
2,4,5-Trichlorophenol	Ave	0.3139			0.455	0.500		
Dimethyl phthalate	Ave	1.127			0.479	0.500		
2,6-Dinitrotoluene	Ave	0.2552			0.412	0.500		
3-Nitroaniline	Ave	0.3052			0.425	0.500		
4-Nitrophenol	Ave	0.2351			0.487	1.00		
2,4-Dinitrotoluene	Ave	0.3377			0.364	0.500		
2,3,4,6-Tetrachlorophenol	Ave	0.2535			0.419	0.500		
Diethyl phthalate	Ave	1.101			0.514	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll2 Calibration Date: 04/05/2013 17:07

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405018.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl phenyl ether	Ave	0.5347			0.499	0.500		
4-Nitroaniline	Ave	0.3049			0.419	0.500		
4,6-Dinitro-2-methylphenol	Ave	0.1297			0.453	1.00		
N-Nitrosodiphenylamine	Ave	0.4472			1.10	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.221			0.478	0.500		
Azobenzene	Ave	1.221			0.476	0.500		
4-Bromophenyl phenyl ether	Ave	0.1656			0.531	0.500		
Atrazine	Ave	0.1828			1.02	1.00		
Pentachlorophenol	Ave	0.0962			0.700	1.00		
Di-n-butyl phthalate	Ave	1.077			0.499	0.500		
Benzidine	Qua				0.247	1.00		
Butyl benzyl phthalate	Ave	0.4732			0.455	0.500		
Bis(2-ethylhexyl) phthalate	Lin				0.738	0.500		
3,3'-Dichlorobenzidine	Ave	0.3350			0.941	1.00		
Di-n-octyl phthalate	Ave	1.373			0.469	0.500		
1,1'-Biphenyl	Ave	1.347			0.000800	0.500		
1-Methylnaphthalene	Ave	0.5672			0.000100	0.500		
2,4-Dinitrophenol	Lin1				0.00240	1.00		
2-Chloronaphthalene	Ave	0.997			0.000100	0.500		
2-Methylnaphthalene	Ave	0.6137			0.000100	0.500		
2-Nitroaniline	Ave	0.5262			0.000800	0.500		
Acenaphthene	Ave	0.9842			0.000100	0.500		
Acenaphthylene	Ave	1.571			0.000100	0.500		
Anthracene	Ave	0.9880			0.000100	0.500		
Benzo[a]anthracene	Ave	1.026			0.000100	0.500		
Benzo[a]pyrene	Ave	1.059			0.000100	0.500		
Benzo[b]fluoranthene	Ave	1.142			0.000100	0.500		
Benzo[g,h,i]perylene	Ave	0.9163			0.000100	0.500		
Benzo[k]fluoranthene	Ave	1.196			0.000100	0.500		
Benzoic acid	Lin1				0.0100	1.00		
Carbazole	Ave	0.9108			0.000800	0.500		
Chrysene	Ave	0.9434			0.000100	0.500		
Dibenz(a,h)anthracene	Ave	0.9267			0.000100	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll2 Calibration Date: 04/05/2013 17:07

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405018.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenzofuran	Ave	1.388			0.000100	0.500		
Fluoranthene	Ave	1.052			0.000100	0.500		
Fluorene	Ave	1.130			0.000100	0.500		
Hexachlorobenzene	Ave	0.1620			0.000100	0.500		
Indeno[1,2,3-cd]pyrene	Ave	1.115			0.000100	0.500		
Naphthalene	Ave	0.9461			0.000100	0.500		
Phenanthrene	Ave	0.996			0.000100	0.500		
Pyrene	Ave	1.056			0.000100	0.500		
2-Fluorophenol (Surr)	Ave	1.805			0.506	0.500	101	35-105
Phenol-d5 (Surr)	Ave	2.565			0.526	0.500	105*	40-100
2,4,6-Tribromophenol (Surr)	Ave	0.1266			0.497	0.500	99	35-125
2-Fluorobiphenyl (Surr)	Ave	1.213			0.000000	0.500	0*	45-105
Nitrobenzene-d5 (Surr)	Ave	0.6179			0.000000	0.500	0*	35-100
Terphenyl-d14 (Surr)	Ave	0.7903			0.000000	0.500	0*	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405018.D
Lims ID: mdll2 Client ID:
Inject. Date: 05-Apr-2013 17:07:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0018588-018
Misc. Info.: MDLL2 =MDLL2
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 80755 Lims Sample ID: 18
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 08-Apr-2013 13:13:19 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK007

First Level Reviewer: ulmanm Date: 08-Apr-2013 10:52:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.751	3.746	0.005	95	448847	4.00	
* 2 Naphthalene-d8	136	4.771	4.772	-0.001	99	1959996	4.00	
* 3 Acenaphthene-d10	164	6.235	6.236	-0.001	77	1125354	4.00	
* 4 Phenanthrene-d10	188	7.496	7.497	-0.001	98	1909616	4.00	
* 5 Chrysene-d12	240	9.734	9.735	-0.001	76	1994265	4.00	
* 6 Perylene-d12	264	11.251	11.247	0.004	93	1642574	4.00	
$ 7 2-Fluorophenol	112	2.768	2.763	0.005	92	102406	0.5055	
$ 8 Phenol-d5	99	3.414	3.415	-0.001	90	151325	0.5257	
$ 9 Nitrobenzene-d5	82		4.184					
$ 10 2-Fluorobiphenyl (Surr)	172		5.654					
$ 11 2,4,6-Tribromophenol	330	6.903	6.904	-0.001	75	17686	0.4966	
$ 12 Terphenyl-d14	244		8.821					
16 2,3-Dichlorophenol	1		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
20 Dimethylformamide	1		0.000					
19 Octachlorostyrene	1		0.000					
247 Hexadecane	57		0.000					
13 Octachlorocyclopentene	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
248 2,3,7,8 TCDF TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
25 1,4-Dioxane	88	1.764	1.759	0.005	94	47288	0.4887	
26 N-Nitrosodimethylamine	74	1.945	1.941	0.004	78	82326	0.4679	
27 Pyridine	79	1.983	1.967	0.016	92	117348	0.4195	
28 Ethyl methacrylate	69		2.103					
29 3-Chloropropionitrile	54		2.284					
33 Malononitrile	66		2.439					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
31 2-Picoline	93		2.475					9
32 N-Nitrosomethylethylamine	88		2.534					9
30 3-Picoline	93		2.646					
233 n,n'-Dimethylacetamide	44		2.652					
35 Acrylamide	71		2.705					
34 Methyl methanesulfonate	80		2.731					9
36 N-Nitrosodiethylamine	102		3.009					
37 Ethyl methanesulfonate	79		3.207					
38 2-Methylcyclohexanone	68		3.239					
39 3-Methylcyclohexanone	69		3.266					
40 4-Methylcyclohexanone	55		3.303					
43 Phenol	94	3.420	3.426	-0.006	76	138526	0.4893	
41 Benzaldehyde	77	3.425	3.426	-0.001	87	227466	1.07	
44 Aniline	93	3.489	3.495	-0.006	96	180532	0.4684	
69 Bis(2-chloroethyl)ether	93	3.521	3.522	-0.001	92	122412	0.4747	
46 2-Chlorophenol	128	3.585	3.586	-0.001	91	78474	0.5120	
42 Phenylmercaptan	110		3.596					
45 Pentachloroethane	167		3.597					
47 1,3-Dichlorobenzene	146	3.708	3.709	-0.001	88	79533	0.5050	
232 1-Methyl-2-pyrrilidinone	99		3.751					
48 1,4-Dichlorobenzene	146	3.762	3.762	0.0	72	79724	0.4981	
49 Benzyl alcohol	108	3.836	3.832	0.004	84	52088	0.3871	
50 1,2-Dichlorobenzene	146	3.884	3.885	-0.001	84	77226	0.5111	
51 2-Methylphenol	108	3.895	3.896	-0.001	91	89156	0.4781	
53 2,2'-oxybis[1-chloropropane]	45	3.932	3.933	-0.001	90	132777	0.4989	
52 Indene	115	3.954	3.955	-0.001	70	331527	1.07	
21 3 & 4 Methylphenol	108	4.013	4.019	-0.006	87	86818	0.4418	
57 N-Nitrosodi-n-propylamine	70	4.034	4.040	-0.006	69	95711	0.4576	
58 Acetophenone	105	4.050	4.056	-0.006	73	126811	0.4211	
56 N-Nitrosopyrrolidine	100		4.099					
59 N-Nitrosomorpholine	56		4.126					
60 2-Toluidine	106		4.142					
61 Hexachloroethane	117	4.151	4.152	-0.001	88	39229	0.5006	
62 Nitrobenzene	77	4.194	4.200	-0.006	74	126258	0.4362	
67 1,3,5-Trichlorobenzene	180		4.330					
63 N-Nitrosopiperidine	114		4.382					
64 Isophorone	82	4.376	4.382	-0.006	95	231523	0.4740	
66 2-Nitrophenol	139	4.451	4.452	-0.001	67	31467	0.3969	
65 2,4-Dimethylphenol	107	4.451	4.452	-0.001	92	87330	0.4477	
71 Benzoic acid	122		4.521					M
70 Bis(2-chloroethoxy)methane	93	4.536	4.537	-0.001	98	129009	0.4558	
68 o,o',o''-Triethylphosphorothioat	198		4.558					
24 Catechol	110		4.592					9
73 2,4-Dichlorophenol	162	4.638	4.639	-0.001	91	52979	0.4488	
72 alpha,alpha-Dimethyl phenethylam	58		4.676					9
74 1,2,4-Trichlorobenzene	180	4.718	4.713	0.005	87	64335	0.5048	
80 1,2,3-Trichlorobenzene	180		4.774					
75 Naphthalene	128		4.793					
76 4-Chloroaniline	127	4.819	4.815	0.004	66	89594	0.4475	
79 Hexachlorobutadiene	225	4.873	4.874	-0.001	89	37692	0.5253	
246 1-Chloronaphthalene	162		4.884					9
77 2,6-Dichlorophenol	162		4.884					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
15 3-Methylcatechol	124		4.913					
78 Hexachloropropene	213		4.916					
14 4-Methylcatechol	124		5.036					9
81 Benzothiazole	135		5.046					
82 Quinoline	129		5.125					
84 Caprolactam	113	5.086	5.125	-0.039	79	37811	0.6110	
83 N-Nitrosodi-n-butylamine	84		5.130					9
85 p-Phenylene diamine	108		5.167					9
86 4-Chloro-3-methylphenol	107	5.188	5.194	-0.006	81	74688	0.4289	
94 Safrole, Total	162		5.328					
90 1,2,3,5-Tetrachlorobenzene	216		5.345					
87 2-Methylnaphthalene	142		5.360					
88 1-Methylnaphthalene	142		5.445					
89 Hexachlorocyclopentadiene	237	5.476	5.477	-0.001	86	27062	0.3079	
91 1,2,4,5-Tetrachlorobenzene	216	5.492	5.493	-0.001	84	59325	0.4917	
225 Isosafrole Peak 1	162		5.568					9
92 2,4,6-Trichlorophenol	196	5.578	5.579	-0.001	83	34202	0.4117	
97 2,4-Toluene diamine	121		5.586					9
99 1,2,3,4 -Tetrachlorobenzene	216		5.596					9
93 2,4,5-Trichlorophenol	196	5.610	5.616	-0.006	80	40221	0.4555	
96 3,4-Dichloronitrobenzene	109		5.725					
98 1,1'-Biphenyl	154		5.744					
227 Isosafrole Peak 2	162		5.760					9
100 2-Chloronaphthalene	162		5.771					
101 Phenyl ether	170		5.773					
102 2-Nitroaniline	65		5.841					9
108 1,2-Dinitrobenzene	168		5.944					
103 1,4-Naphthoquinone	158		5.974					
105 Dimethyl phthalate	163	5.973	5.979	-0.006	93	151938	0.4791	
104 1,4-Dinitrobenzene	168		6.017					
106 1,3-Dinitrobenzene	168	6.016	6.017	-0.001	76	16682	0.3121	
107 2,6-Dinitrotoluene	165	6.037	6.038	-0.001	55	29547	0.4116	
109 Acenaphthylene	152		6.124					
110 3-Nitroaniline	138	6.187	6.188	-0.001	83	36469	0.4247	
112 Acenaphthene	153		6.268					
111 2,4-Dinitrophenol	184		6.273					
113 4-Nitrophenol	109	6.310	6.300	0.010	81	32187	0.4867	
114 2,4-Dinitrotoluene	165	6.374	6.380	-0.006	65	34576	0.3640	
116 Dibenzofuran	168		6.412					
115 Pentachlorobenzene	250		6.433					
119 2,3,4,6-Tetrachlorophenol	232	6.502	6.498	0.004	72	29882	0.4190	
118 2,3,5,6-Tetrachlorophenol	232		6.524					
117 1-Naphthylamine	143		6.535					9
121 Diethyl phthalate	149	6.561	6.567	-0.006	94	159183	0.5139	
120 2-Naphthylamine	143		6.604					9
127 Tributyl phosphate	99		6.615					9
123 4-Chlorophenyl phenyl ether	204	6.684	6.685	-0.001	93	75030	0.4988	
122 Thionazin	97		6.695					
126 Fluorene	166		6.701					
125 4-Nitroaniline	138	6.700	6.706	-0.006	59	35947	0.4190	
128 4,6-Dinitro-2-methylphenol	198	6.721	6.722	-0.001	59	28068	0.4532	
124 N-Nitro-o-toluidine	152		6.759					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
131 N-Nitrosodiphenylamine	169	6.780	6.781	-0.001	98	233885	1.10	
132 1,2-Diphenylhydrazine	77	6.817	6.818	-0.001	99	278316	0.4775	
133 Azobenzene	77	6.817	6.818	-0.001	94	277713	0.4765	
130 Diphenylamine	169		6.839					
134 Sulfotepp	202		6.941					
135 1,3,5-Trinitrobenzene	213		7.042					
228 Diallate Peak 1	86		7.069					9
137 Phenacetin	108		7.085					
138 Phorate	121		7.085					9
139 4-Bromophenyl phenyl ether	248	7.100	7.101	-0.001	71	41950	0.5305	
230 Diallate Peak 2	86		7.149					
141 Hexachlorobenzene	284		7.160					
142 Atrazine	200	7.207	7.213	-0.006	84	89013	1.02	
140 Dimethoate	87		7.235					9
143 Pentachlorophenol	266	7.325	7.320	0.005	72	32148	0.6999	
129 4-Aminobiphenyl	169		7.379					9
145 Pentachloronitrobenzene	237		7.390					9
144 Pronamide	173		7.400					9
147 Dinoseb	211		7.512					
148 Phenanthrene	178		7.518					
146 Disulfoton	88		7.523					9
149 Anthracene	178		7.561					
153 Diphenylsulfone	125		7.616					9
151 Carbazole	167		7.684					
150 DFTPP								
152 Methyl parathion	109		7.844					
154 Di-n-butyl phthalate	149	7.934	7.935	-0.001	99	256665	0.4990	
155 Ethyl Parathion	97		8.164					
156 4-Nitroquinoline-1-oxide	190		8.228					
157 Methapyrilene	58		8.266					
158 Isodrin	66		8.463					9
159 Fluoranthene	202		8.522					
160 Benzidine	184	8.623	8.618	0.005	97	228697	0.2467	
161 Pyrene	202		8.725					
166 4,4'-DDE	246		8.763					9
226 Aramite Peak 1	185		8.843					
229 Aramite Peak 2	185		8.901					
163 p-Dimethylamino azobenzene	225		9.003					
164 Chlorobenzilate	139		9.024					9
165 4,4'-DDD	235		9.078					
176 Hexabromobenzene	232		9.208					
168 Butyl benzyl phthalate	149	9.210	9.211	-0.001	86	107274	0.4547	
167 Famphur	218		9.238					
169 3,3'-Dimethylbenzidine	212		9.286					
170 4,4'-DDT	235		9.308					
172 3,3'-Dimethoxybenzidine	244		9.491					9
171 2-Acetylaminofluorene	181		9.505					9
173 Bis(2-ethylhexyl) phthalate	149	9.670	9.671	-0.001	93	153054	0.7384	
175 3,3'-Dichlorobenzidine	252	9.686	9.687	-0.001	72	157205	0.9412	
177 Benzo[a]anthracene	228		9.724					
174 4,4'-Methylene bis(2-chloroanili	231		9.745					9
178 Chrysene	228		9.762					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
179 6-Methylchrysene	242		10.248					
180 Di-n-octyl phthalate	149	10.247	10.248	-0.001	99	264491	0.4691	
182 Benzo[b]fluoranthene	252		10.782					
183 Benzo[k]fluoranthene	252		10.814					
181 7,12-Dimethylbenz(a)anthracene	256		10.857					
184 Benzo[a]pyrene	252		11.183					
185 3-Methylcholanthrene	268		11.765					
186 Dibenz[a,j]acridine	279		11.804					
187 Dibenz[a,h]acridine	279		12.636					
188 Indeno[1,2,3-cd]pyrene	276		12.887					
189 Dibenz(a,h)anthracene	278		12.908					
190 Benzo[g,h,i]perylene	276		13.394					
S 191 Methyl Phenols,Total	100				0		0.9199	
S 245 Total Cresols	100				0		0.9199	
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 234 2-Isopropylphenol TIC	121		4.500					
T 235 4-isopropylphenol TIC	121		4.700					
T 236 3-isopropylphenol TIC	121		4.700					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		5.000					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 231 2,3,7,8-TCDD	322		9.600					1
T 192 Octadecane (TIC)	254		9.600					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 196 Kepone TIC	272		12.500					
T 197 Hexachlorophene TIC	198		13.000					3

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

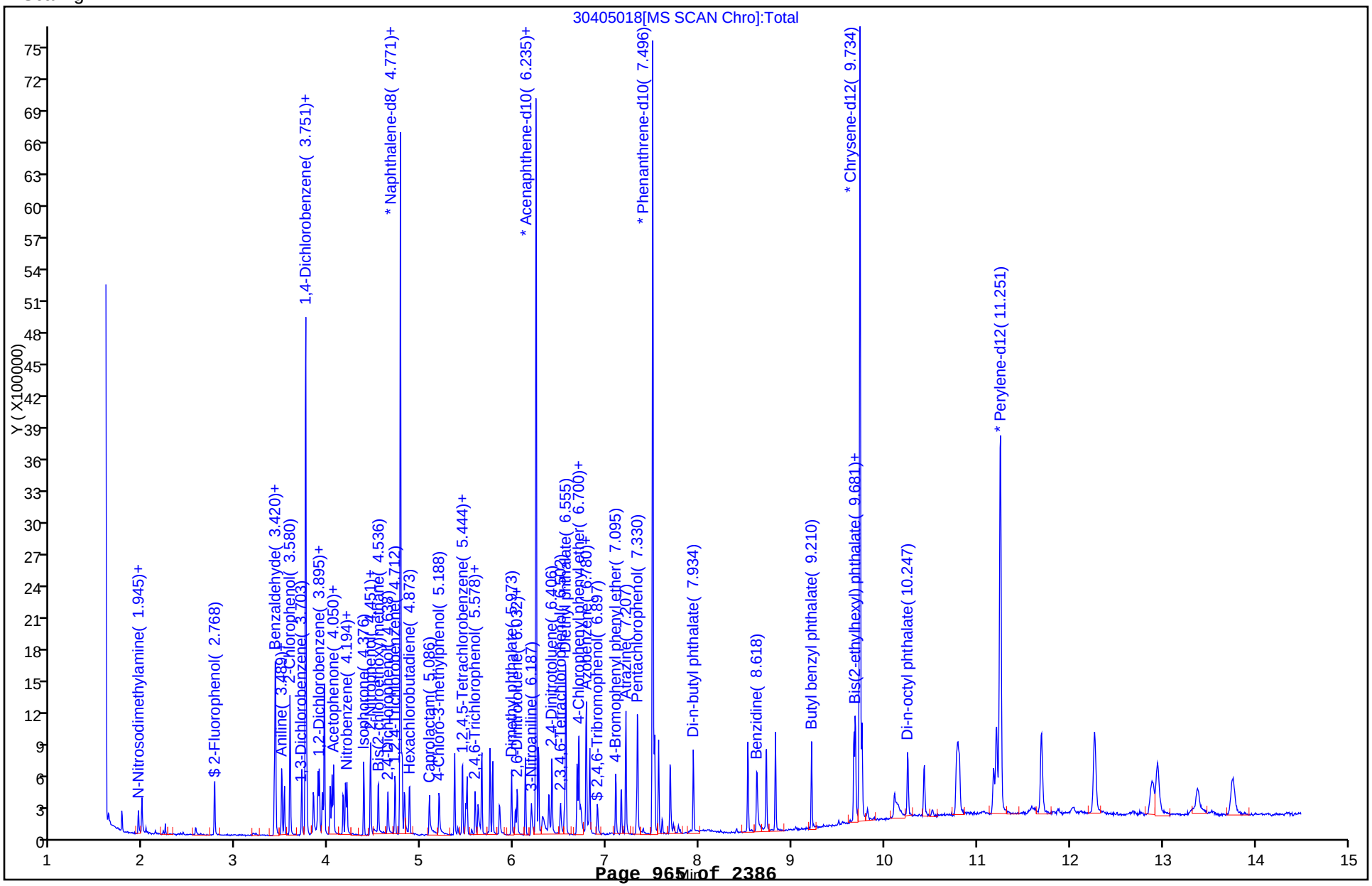
Report Date: 08-Apr-2013 13:42:01 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405018.D

Injection Date:	05-Apr-2013 17:07:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	18
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll3 Calibration Date: 04/05/2013 17:28

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzoic acid	Lin1				1.63	2.00		
2,4-Dinitrophenol	Lin1				0.981	2.00		
1,1'-Biphenyl	Ave	1.347			0.000800	1.00		
1,2,4,5-Tetrachlorobenzene	Ave	0.4288			0.000550	1.00		
1,2,4-Trichlorobenzene	Ave	0.2601			0.000800	1.00		
1,2-Dichlorobenzene	Ave	1.346			0.000800	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.221			0.000800	1.00		
1,3-Dichlorobenzene	Ave	1.404			0.000800	1.00		
1,4-Dichlorobenzene	Ave	1.426			0.000800	1.00		
1,4-Dioxane	Ave	0.8623			0.000800	1.00		
1-Methylnaphthalene	Ave	0.5672			0.000100	1.00		
2,3,4,6-Tetrachlorophenol	Ave	0.2535			0.000580	1.00		
2,4,5-Trichlorophenol	Ave	0.3139			0.000800	1.00		
2,4,6-Trichlorophenol	Ave	0.2953			0.000800	1.00		
2,4-Dichlorophenol	Ave	0.2409			0.000800	1.00		
2,4-Dimethylphenol	Ave	0.3981			0.000800	1.00		
2,4-Dinitrotoluene	Ave	0.3377			0.000800	1.00		
2,6-Dinitrotoluene	Ave	0.2552			0.000800	1.00		
2-Chloronaphthalene	Ave	0.997			0.000100	1.00		
2-Chlorophenol	Ave	1.366			0.000800	1.00		
2-Methylnaphthalene	Ave	0.6137			0.000100	1.00		
2-Methylphenol	Ave	1.662			0.000800	1.00		
2-Nitroaniline	Ave	0.5262			0.000800	1.00		
2-Nitrophenol	Ave	0.1618			0.000800	1.00		
3 & 4 Methylphenol	Ave	1.751			0.000800	1.00		
3,3'-Dichlorobenzidine	Ave	0.3350			0.000800	2.00		
3-Nitroaniline	Ave	0.3052			0.000800	1.00		
4,6-Dinitro-2-methylphenol	Ave	0.1297			0.00240	2.00		
4-Bromophenyl phenyl ether	Ave	0.1656			0.000800	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll3 Calibration Date: 04/05/2013 17:28

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chloro-3-methylphenol	Ave	0.3554			0.000800	1.00		
4-Chloroaniline	Ave	0.4086			0.000800	1.00		
4-Chlorophenyl phenyl ether	Ave	0.5347			0.000800	1.00		
4-Nitroaniline	Ave	0.3049			0.000800	1.00		
4-Nitrophenol	Ave	0.2351			0.00240	2.00		
Acenaphthene	Ave	0.9842			0.000100	1.00		
Acenaphthylene	Ave	1.571			0.000100	1.00		
Acetophenone	Ave	2.684			0.000800	1.00		
Aniline	Ave	3.435			0.00240	1.00		
Anthracene	Ave	0.9880			0.000100	1.00		
Atrazine	Ave	0.1828			0.000800	2.00		
Azobenzene	Ave	1.221			0.000810	1.00		
Benzaldehyde	Ave	1.888			0.000800	2.00		
Benzidine	Qua				0.00240	2.00		
Benzo[a]anthracene	Ave	1.026			0.000100	1.00		
Benzo[a]pyrene	Ave	1.059			0.000100	1.00		
Benzo[b]fluoranthene	Ave	1.142			0.000100	1.00		
Benzo[g,h,i]perylene	Ave	0.9163			0.000100	1.00		
Benzo[k]fluoranthene	Ave	1.196			0.000100	1.00		
Benzyl alcohol	Ave	1.199			0.000800	1.00		
bis (2-chloroisopropyl) ether	Ave	2.372			0.000800	1.00		
Bis(2-chloroethoxy)methane	Ave	0.5777			0.000800	1.00		
Bis(2-chloroethyl)ether	Ave	2.298			0.000100	1.00		
Bis(2-ethylhexyl) phthalate	Lin				0.000800	1.00		
Butyl benzyl phthalate	Ave	0.4732			0.000800	1.00		
Caprolactam	Ave	0.1263			0.000800	2.00		
Carbazole	Ave	0.9108			0.000800	1.00		
Chrysene	Ave	0.9434			0.000100	1.00		
Dibenz(a,h)anthracene	Ave	0.9267			0.000100	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: mdll3 Calibration Date: 04/05/2013 17:28

Instrument ID: A4HP9 Calib Start Date: 04/04/2013 12:21

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/04/2013 15:09

Lab File ID: 30405019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenzofuran	Ave	1.388			0.000100	1.00		
Diethyl phthalate	Ave	1.101			0.000800	1.00		
Dimethyl phthalate	Ave	1.127			0.000800	1.00		
Di-n-butyl phthalate	Ave	1.077			0.000800	1.00		
Di-n-octyl phthalate	Ave	1.373			0.000800	1.00		
Fluoranthene	Ave	1.052			0.000100	1.00		
Fluorene	Ave	1.130			0.000100	1.00		
Hexachlorobenzene	Ave	0.1620			0.000100	1.00		
Hexachlorobutadiene	Ave	0.1464			0.000800	1.00		
Hexachlorocyclopentadiene	Ave	0.3124			0.000800	1.00		
Hexachloroethane	Ave	0.6984			0.000800	1.00		
Indeno[1,2,3-cd]pyrene	Ave	1.115			0.000100	1.00		
Isophorone	Ave	0.997			0.000800	1.00		
Naphthalene	Ave	0.9461			0.000100	1.00		
Nitrobenzene	Ave	0.5908			0.000100	1.00		
N-Nitrosodimethylamine	Ave	1.568			0.000800	1.00		
N-Nitrosodi-n-propylamine	Ave	1.864			0.000800	1.00		
N-Nitrosodiphenylamine	Ave	0.4472			0.000800	2.00		
Pentachlorophenol	Ave	0.0962			0.00240	2.00		
Phenanthrene	Ave	0.996			0.000100	1.00		
Phenol	Ave	2.523			0.000800	1.00		
Pyrene	Ave	1.056			0.000100	1.00		
Pyridine	Ave	2.493			0.000800	1.00		
2,4,6-Tribromophenol (Surr)	Ave	0.1266			0.000000	1.00	0*	35-125
2-Fluorobiphenyl (Surr)	Ave	1.213			0.000000	1.00	0*	45-105
2-Fluorophenol (Surr)	Ave	1.805			0.000000	1.00	0*	35-105
Nitrobenzene-d5 (Surr)	Ave	0.6179			0.000000	1.00	0*	35-100
Phenol-d5 (Surr)	Ave	2.565			0.000000	1.00	0*	40-100
Terphenyl-d14 (Surr)	Ave	0.7903			0.000000	1.00	0*	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405019.D		
Lims ID:	mdll3	Client ID:	
Inject. Date:	05-Apr-2013 17:28:30	Dil. Factor:	1.0000
Sample Type:	LODV		
Sample ID:	240-0018588-019		
Misc. Info.:	MDLL3 =MDLL3		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	19
Lims Batch ID:	80755	Lims Sample ID:	19
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m		
Last Update:	08-Apr-2013 13:13:19	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK007		
First Level Reviewer: ulmanm		Date:	08-Apr-2013 10:52:51

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.747	3.746	0.001	90	426566	4.00	
* 2 Naphthalene-d8	136	4.773	4.772	0.001	99	1800814	4.00	
* 3 Acenaphthene-d10	164	6.236	6.236	0.0	85	1035054	4.00	
* 4 Phenanthrene-d10	188	7.497	7.497	0.0	97	1746013	4.00	
* 5 Chrysene-d12	240	9.736	9.735	0.001	77	1836655	4.00	
* 6 Perylene-d12	264	11.247	11.247	0.0	92	1504193	4.00	
$ 7 2-Fluorophenol	112		2.763					
$ 8 Phenol-d5	99		3.415					
$ 9 Nitrobenzene-d5	82		4.184					
$ 10 2-Fluorobiphenyl (Surr)	172		5.654					
$ 11 2,4,6-Tribromophenol	330		6.904					
$ 12 Terphenyl-d14	244		8.821					
16 2,3-Dichlorophenol	1		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
20 Dimethylformamide	1		0.000					
19 Octachlorostyrene	1		0.000					
247 Hexadecane	57		0.000					
13 Octachlorocyclopentene	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
248 2,3,7,8 TCDF TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
25 1,4-Dioxane	88		1.759					
26 N-Nitrosodimethylamine	74		1.941					
27 Pyridine	79		1.967					
28 Ethyl methacrylate	69		2.103					
29 3-Chloropropionitrile	54		2.284					9
33 Malononitrile	66		2.439					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
31 2-Picoline	93		2.475					
32 N-Nitrosomethylethylamine	88		2.534					9
30 3-Picoline	93		2.646					
233 n,n'-Dimethylacetamide	44		2.652					
35 Acrylamide	71		2.705					
34 Methyl methanesulfonate	80		2.731					9
36 N-Nitrosodiethylamine	102		3.009					
37 Ethyl methanesulfonate	79		3.207					
38 2-Methylcyclohexanone	68		3.239					
39 3-Methylcyclohexanone	69		3.266					
40 4-Methylcyclohexanone	55		3.303					
43 Phenol	94		3.426					
41 Benzaldehyde	77		3.426					
44 Aniline	93		3.495					
69 Bis(2-chloroethyl)ether	93		3.522					
46 2-Chlorophenol	128		3.586					
42 Phenylmercaptan	110		3.596					
45 Pentachloroethane	167		3.597					
47 1,3-Dichlorobenzene	146		3.709					
232 1-Methyl-2-pyrrilidinone	99		3.751					
48 1,4-Dichlorobenzene	146		3.762					
49 Benzyl alcohol	108		3.832					
50 1,2-Dichlorobenzene	146		3.885					
51 2-Methylphenol	108		3.896					
53 2,2'-oxybis[1-chloropropane]	45		3.933					
52 Indene	115		3.955					
21 3 & 4 Methylphenol	108		4.019					
57 N-Nitrosodi-n-propylamine	70		4.040					
58 Acetophenone	105		4.056					
56 N-Nitrosopyrrolidine	100		4.099					
59 N-Nitrosomorpholine	56		4.126					9
60 2-Toluidine	106		4.142					9
61 Hexachloroethane	117		4.152					
62 Nitrobenzene	77		4.200					
67 1,3,5-Trichlorobenzene	180		4.330					
63 N-Nitrosopiperidine	114		4.382					
64 Isophorone	82		4.382					
66 2-Nitrophenol	139		4.452					
65 2,4-Dimethylphenol	107		4.452					
71 Benzoic acid	122	4.484	4.521	-0.037	70	48706	1.63	
70 Bis(2-chloroethoxy)methane	93		4.537					
68 o,o',o''-Triethylphosphorothioat	198		4.558					
24 Catechol	110		4.592					9
73 2,4-Dichlorophenol	162		4.639					
72 alpha,alpha-Dimethyl phenethylam	58		4.676					9
74 1,2,4-Trichlorobenzene	180		4.713					
80 1,2,3-Trichlorobenzene	180		4.774					
75 Naphthalene	128		4.793					
76 4-Chloroaniline	127		4.815					
79 Hexachlorobutadiene	225		4.874					
246 1-Chloronaphthalene	162		4.884					9
77 2,6-Dichlorophenol	162		4.884					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
15 3-Methylcatechol	124		4.913					
78 Hexachloropropene	213		4.916					
14 4-Methylcatechol	124		5.036					9
81 Benzothiazole	135		5.046					
82 Quinoline	129		5.125					
84 Caprolactam	113		5.125					
83 N-Nitrosodi-n-butylamine	84		5.130					9
85 p-Phenylene diamine	108		5.167					9
86 4-Chloro-3-methylphenol	107		5.194					
94 Safrole, Total	162		5.328					
90 1,2,3,5-Tetrachlorobenzene	216		5.345					
87 2-Methylnaphthalene	142		5.360					
88 1-Methylnaphthalene	142		5.445					
89 Hexachlorocyclopentadiene	237		5.477					
91 1,2,4,5-Tetrachlorobenzene	216		5.493					
225 Isosafrole Peak 1	162		5.568					9
92 2,4,6-Trichlorophenol	196		5.579					
97 2,4-Toluene diamine	121		5.586					9
99 1,2,3,4 -Tetrachlorobenzene	216		5.596					9
93 2,4,5-Trichlorophenol	196		5.616					
96 3,4-Dichloronitrobenzene	109		5.725					
98 1,1'-Biphenyl	154		5.744					
227 Isosafrole Peak 2	162		5.760					9
100 2-Chloronaphthalene	162		5.771					
101 Phenyl ether	170		5.773					9
102 2-Nitroaniline	65		5.841					
108 1,2-Dinitrobenzene	168		5.944					
103 1,4-Naphthoquinone	158		5.974					
105 Dimethyl phthalate	163		5.979					
104 1,4-Dinitrobenzene	168		6.017					
106 1,3-Dinitrobenzene	168		6.017					
107 2,6-Dinitrotoluene	165		6.038					
109 Acenaphthylene	152		6.124					
110 3-Nitroaniline	138		6.188					
112 Acenaphthene	153		6.268					
111 2,4-Dinitrophenol	184	6.279	6.273	0.006	50	22054	0.9808	
113 4-Nitrophenol	109		6.300					
114 2,4-Dinitrotoluene	165		6.380					
116 Dibenzofuran	168		6.412					
115 Pentachlorobenzene	250		6.433					
119 2,3,4,6-Tetrachlorophenol	232		6.498					
118 2,3,5,6-Tetrachlorophenol	232		6.524					
117 1-Naphthylamine	143		6.535					
121 Diethyl phthalate	149		6.567					
120 2-Naphthylamine	143		6.604					9
127 Tributyl phosphate	99		6.615					9
123 4-Chlorophenyl phenyl ether	204		6.685					
122 Thionazin	97		6.695					
126 Fluorene	166		6.701					
125 4-Nitroaniline	138		6.706					
128 4,6-Dinitro-2-methylphenol	198		6.722					
124 N-Nitro-o-toluidine	152		6.759					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
131 N-Nitrosodiphenylamine	169		6.781					
132 1,2-Diphenylhydrazine	77		6.818					
133 Azobenzene	77		6.818					
130 Diphenylamine	169		6.839					
134 Sulfotepp	202		6.941					
135 1,3,5-Trinitrobenzene	213		7.042					
228 Diallate Peak 1	86		7.069					9
137 Phenacetin	108		7.085					9
138 Phorate	121		7.085					9
139 4-Bromophenyl phenyl ether	248		7.101					
230 Diallate Peak 2	86		7.149					
141 Hexachlorobenzene	284		7.160					
142 Atrazine	200		7.213					
140 Dimethoate	87		7.235					
143 Pentachlorophenol	266		7.320					
129 4-Aminobiphenyl	169		7.379					9
145 Pentachloronitrobenzene	237		7.390					9
144 Pronamide	173		7.400					
147 Dinoseb	211		7.512					
148 Phenanthrene	178		7.518					
146 Disulfoton	88		7.523					
149 Anthracene	178		7.561					
153 Diphenylsulfone	125		7.616					9
151 Carbazole	167		7.684					
150 DFTPP								
152 Methyl parathion	109		7.844					9
154 Di-n-butyl phthalate	149		7.935					
155 Ethyl Parathion	97		8.164					
156 4-Nitroquinoline-1-oxide	190		8.228					
157 Methapyrilene	58		8.266					
158 Isodrin	66		8.463					9
159 Fluoranthene	202		8.522					
160 Benzidine	184		8.618					
161 Pyrene	202		8.725					
166 4,4'-DDE	246		8.763					9
226 Aramite Peak 1	185		8.843					
229 Aramite Peak 2	185		8.901					
163 p-Dimethylamino azobenzene	225		9.003					
164 Chlorobenzilate	139		9.024					9
165 4,4'-DDD	235		9.078					
176 Hexabromobenzene	232		9.208					
168 Butyl benzyl phthalate	149		9.211					
167 Famphur	218		9.238					
169 3,3'-Dimethylbenzidine	212		9.286					
170 4,4'-DDT	235		9.308					9
172 3,3'-Dimethoxybenzidine	244		9.491					9
171 2-Acetylaminofluorene	181		9.505					9
173 Bis(2-ethylhexyl) phthalate	149		9.671					
175 3,3'-Dichlorobenzidine	252		9.687					
177 Benzo[a]anthracene	228		9.724					
174 4,4'-Methylene bis(2-chloroanili	231		9.745					9
178 Chrysene	228		9.762					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
179 6-Methylchrysene	242		10.248					
180 Di-n-octyl phthalate	149		10.248					
182 Benzo[b]fluoranthene	252		10.782					
183 Benzo[k]fluoranthene	252		10.814					
181 7,12-Dimethylbenz(a)anthracene	256		10.857					
184 Benzo[a]pyrene	252		11.183					
185 3-Methylcholanthrene	268		11.765					9
186 Dibenz[a,j]acridine	279		11.804					
187 Dibenz[a,h]acridine	279		12.636					
188 Indeno[1,2,3-cd]pyrene	276		12.887					
189 Dibenz(a,h)anthracene	278		12.908					
190 Benzo[g,h,i]perylene	276		13.394					
S 191 Methyl Phenols,Total	100		0.000					7
S 245 Total Cresols	100		0.000					
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 234 2-Isopropylphenol TIC	121		4.500					
T 235 4-isopropylphenol TIC	121		4.700					
T 236 3-isopropylphenol TIC	121		4.700					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		5.000					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 231 2,3,7,8-TCDD	322		9.600					1
T 192 Octadecane (TIC)	254		9.600					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 196 Kepone TIC	272		12.500					
T 197 Hexachlorophene TIC	198		13.000					3

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

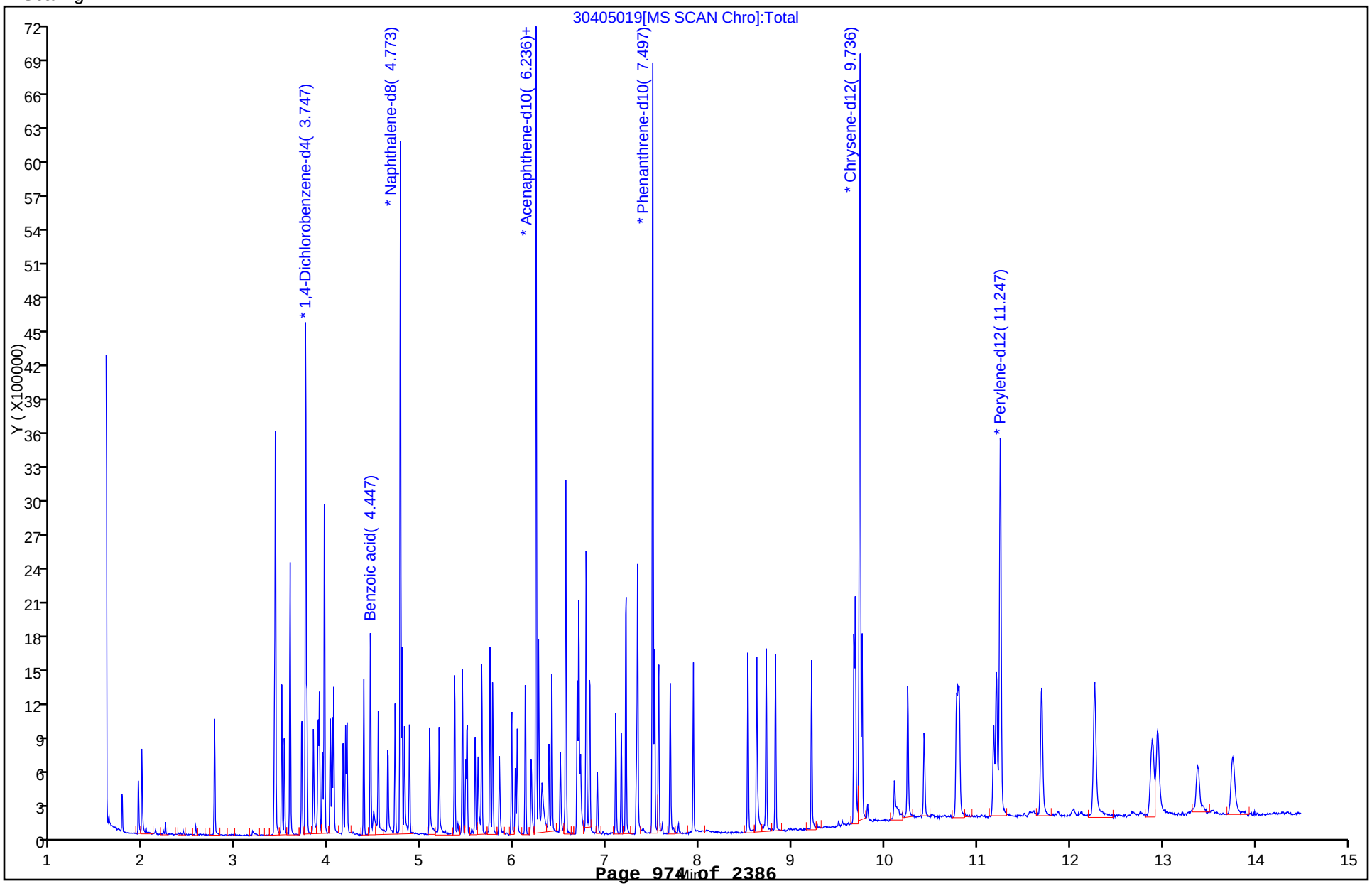
Report Date: 08-Apr-2013 13:42:02 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405019.D

Injection Date:	05-Apr-2013 17:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	19
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	04-Apr-2013 12:03:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0018548-001		
Misc. Info.:	DFTPP =DFTPP		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	80575	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\8270 _9.m		
Last Update:	05-Apr-2013 10:17:59	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK016		
First Level Reviewer: ulmanm		Date:	04-Apr-2013 12:21:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
143 Pentachlorophenol	266	7.382	7.382	0.0	79	1328887	0	
150 DFTPP								
160 Benzidine	184	8.685	8.685	0.0	98	7956505	0	
166 4,4'-DDE	246		8.900					9
165 4,4'-DDD	235	9.150	9.150	0.0	44	6607	0	
170 4,4'-DDT	235	9.380	9.380	0.0	95	3306340	0	

QC Flag Legend

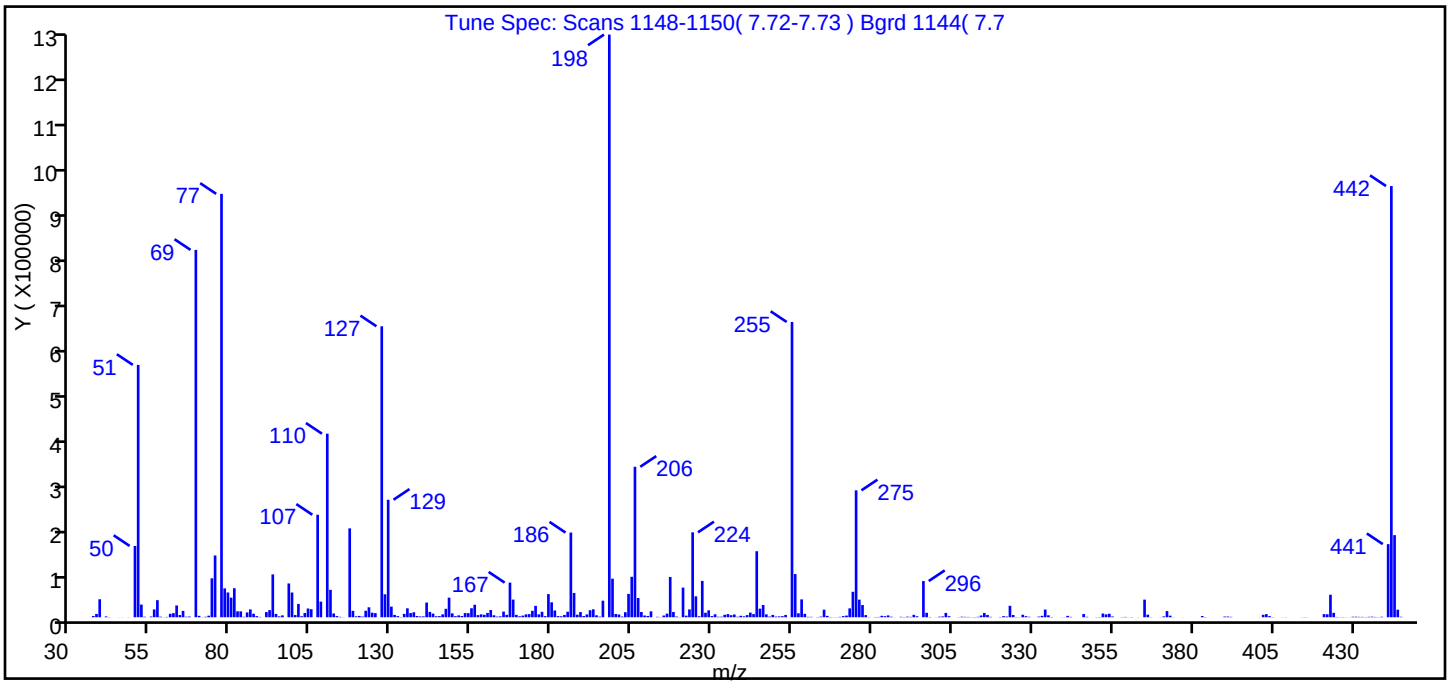
Processing Flags
9 - Failed A Reference Spectral Test

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D		
Injection Date:	04-Apr-2013 12:03:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm
Tune Method:	DFTPP Method CLP OLM4.2		

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	43.31
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	63.05
70	Less than 2.00% of mass 69	0.24 (0.39)
127	25.00 - 75.00% of mass 198	49.94
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 30.00% of mass 198	21.78
365	Greater than 0.75% of mass 198	3.02
441	Present, but less than mass 443%	12.55 (89.03)
442	40.00 - 110.00% of mass 198	74.01
443	15.00 - 24.00% of mass 442	14.10 (19.05)

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D\8270 _9.rslt\spectra.d
Injection Date: 04-Apr-2013 12:03:30
Spectrum: Tune Spec: Scans 1148-1150(7.72-7.73) Bgrd 1144(7.7
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2877	136.00	9212	223.00	17296	316.00	5039
38.00	7342	137.00	11000	224.00	187008	317.00	906
39.00	39632	138.00	2770	225.00	46152	320.00	591
41.00	1884	139.00	1845	226.00	2236	321.00	2464
42.00	399	140.00	1902	227.00	80000	322.00	1507
45.00	167	141.00	32344	228.00	9913	323.00	25256
46.00	170	142.00	11852	229.00	15275	324.00	5007
48.00	226	143.00	7997	230.00	2616	325.00	473
50.00	157056	144.00	2223	231.00	6570	326.00	306
51.00	555712	145.00	2544	232.00	1161	327.00	5522
52.00	27912	146.00	6364	233.00	1278	328.00	2359
53.00	1135	147.00	18576	234.00	5479	329.00	1028
55.00	1593	148.00	43184	235.00	6958	332.00	1401
56.00	17248	149.00	8535	236.00	4532	333.00	3145
57.00	37568	150.00	2393	237.00	6001	334.00	16992
58.00	1244	151.00	4149	238.00	1115	335.00	4285
59.00	302	152.00	2844	239.00	3266	336.00	660
60.00	767	153.00	9198	240.00	2019	339.00	197
61.00	7651	154.00	9080	241.00	4734	340.00	233
62.00	9044	155.00	19840	242.00	10256	341.00	3064
63.00	25976	156.00	27528	243.00	6982	342.00	840
64.00	4816	157.00	4777	244.00	145408	346.00	7057
65.00	13985	158.00	6472	245.00	18952	347.00	1004
66.00	1177	159.00	5397	246.00	27032	350.00	409
67.00	1586	160.00	9560	247.00	6363	351.00	512
69.00	808960	161.00	16022	248.00	1555	352.00	8186
70.00	3129	162.00	4353	249.00	5145	353.00	6343
71.00	318	163.00	1513	250.00	1582	354.00	7665
72.00	1069	164.00	1968	251.00	1841	355.00	1658
73.00	3432	165.00	12526	252.00	2422	358.00	535
74.00	85728	166.00	5398	253.00	5043	359.00	773
75.00	136064	167.00	76312	255.00	650240	360.00	170
77.00	932416	168.00	38888	256.00	95104	361.00	531

Report Date: 05-Apr-2013 10:18:00 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D\8270 _9.rslt\spectra.d
Injection Date: 04-Apr-2013 12:03:30
Spectrum: Tune Spec: Scans 1148-1150(7.72-7.73) Bgrd 1144(7.7
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	63544	169.00	5293	257.00	8717	363.00	244
79.00	54584	170.00	2156	258.00	39400	365.00	38808
80.00	43256	171.00	3666	259.00	7580	366.00	5660
81.00	63936	172.00	6328	260.00	918	367.00	373
82.00	13122	173.00	6879	261.00	887	370.00	293
83.00	12947	174.00	14215	263.00	545	371.00	1821
84.00	1015	175.00	25120	264.00	1454	372.00	13643
85.00	10629	176.00	6387	265.00	16680	373.00	3498
86.00	17272	177.00	12031	266.00	3015	374.00	295
87.00	7715	178.00	2497	267.00	602	377.00	172
88.00	2581	179.00	51000	268.00	263	383.00	2771
89.00	749	180.00	32912	269.00	387	384.00	540
91.00	11428	181.00	14937	270.00	882	390.00	1531
92.00	15700	182.00	2629	271.00	2485	391.00	1610
93.00	94400	183.00	2181	272.00	3688	392.00	871
94.00	7370	184.00	5099	273.00	19568	401.00	201
95.00	2022	185.00	12171	274.00	56088	402.00	5400
96.00	4131	186.00	186496	275.00	279488	403.00	6876
98.00	74424	187.00	53512	276.00	38752	404.00	2470
99.00	54464	188.00	5589	277.00	26968	405.00	481
100.00	4901	189.00	11446	278.00	4723	408.00	173
101.00	29352	190.00	2619	279.00	400	409.00	285
102.00	2282	191.00	6257	281.00	602	414.00	219
103.00	9409	192.00	15519	282.00	729	415.00	430
104.00	19272	193.00	17488	283.00	3168	416.00	174
105.00	17744	194.00	4374	284.00	2323	421.00	6889
107.00	225728	195.00	1406	285.00	4037	422.00	6587
108.00	34416	196.00	36480	286.00	1177	423.00	49608
110.00	404224	198.00	1283072	287.00	183	424.00	9732
111.00	60344	199.00	84952	289.00	975	425.00	682
112.00	8343	200.00	7223	290.00	568	426.00	390
113.00	2636	201.00	6054	291.00	1340	427.00	486
114.00	907	202.00	1629	292.00	880	428.00	231
115.00	293	203.00	11081	293.00	5346	429.00	250

Report Date: 05-Apr-2013 10:18:00 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D\8270 _9.rslt\spectra.d
Injection Date: 04-Apr-2013 12:03:30
Spectrum: Tune Spec: Scans 1148-1150(7.72-7.73) Bgrd 1144(7.7
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 337

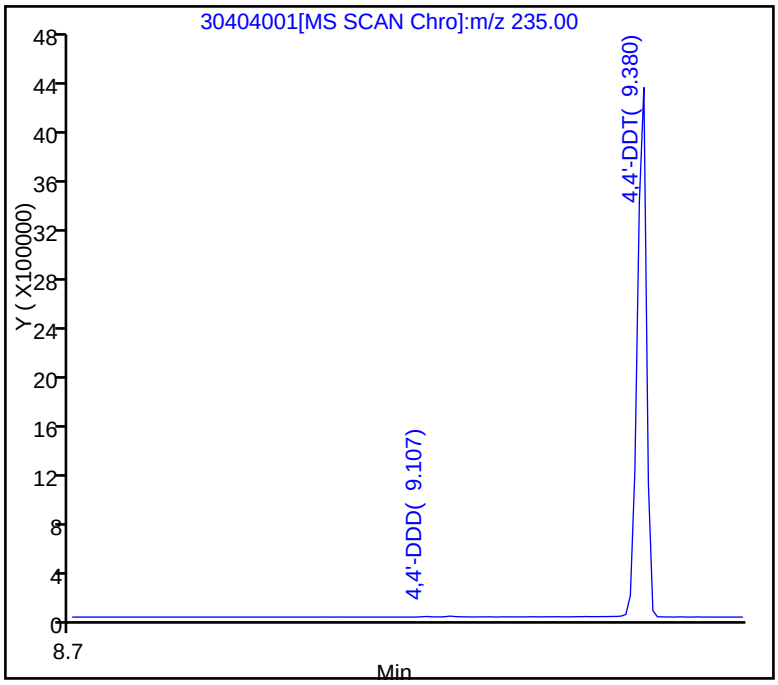
m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	195776	204.00	51424	294.00	2132	430.00	1152
118.00	14104	205.00	89120	296.00	79752	431.00	1242
119.00	2071	206.00	331392	297.00	9868	432.00	875
120.00	2940	207.00	42464	298.00	604	433.00	818
121.00	1485	208.00	11667	300.00	309	434.00	555
122.00	14332	209.00	3838	301.00	1264	435.00	1024
123.00	21952	210.00	2893	302.00	1805	436.00	1282
124.00	10058	211.00	13058	303.00	9534	437.00	733
125.00	9099	213.00	1002	304.00	2351	438.00	415
127.00	640768	214.00	355	307.00	376	439.00	1142
128.00	50600	215.00	3805	308.00	1220	441.00	161024
129.00	258752	216.00	8000	309.00	931	442.00	949568
130.00	23376	217.00	88720	310.00	730	443.00	180864
131.00	5153	218.00	11649	311.00	317	444.00	16664
132.00	2541	219.00	1592	312.00	512	445.00	1034
133.00	582	220.00	355	313.00	972		
134.00	7424	221.00	65320	314.00	3851		
135.00	19720	222.00	3537	315.00	9431		

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D		
Injection Date:	04-Apr-2013 12:03:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

170 4,4'-DDT, Area = 3306340
165 4,4'-DDD, Area = 6607
166 4,4'-DDE, Area = 0

%Breakdown: 0.20%, Max Limit: 20.00%
Passed

Report Date: 05-Apr-2013 10:18:00 Chrom Revision: 2.0 01-Apr-2013 21:16:10

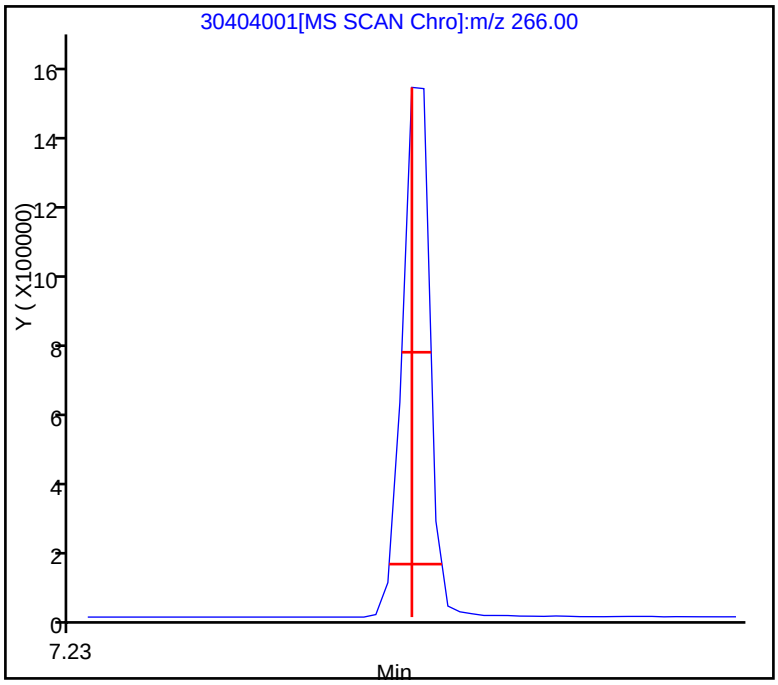
Peak Tailing Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D

Injection Date:	04-Apr-2013 12:03:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

143 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.3, Max. Tailing < 5.00
Passed

Report Date: 05-Apr-2013 10:18:00 Chrom Revision: 2.0 01-Apr-2013 21:16:10

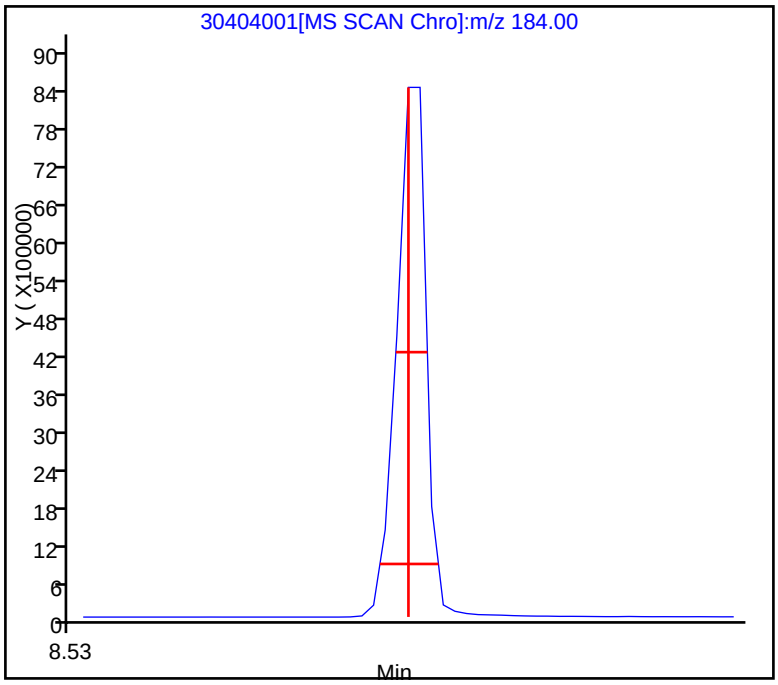
Peak Tailing Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30404001.D

Injection Date:	04-Apr-2013 12:03:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80575	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.1, Max. Tailing < 3.00
Passed

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	05-Apr-2013 11:04:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0018588-001		
Misc. Info.:	DFTPP =DFTPP		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	80755	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m		
Last Update:	08-Apr-2013 13:13:17	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK007		
First Level Reviewer: ulmanm		Date:	05-Apr-2013 11:31:14

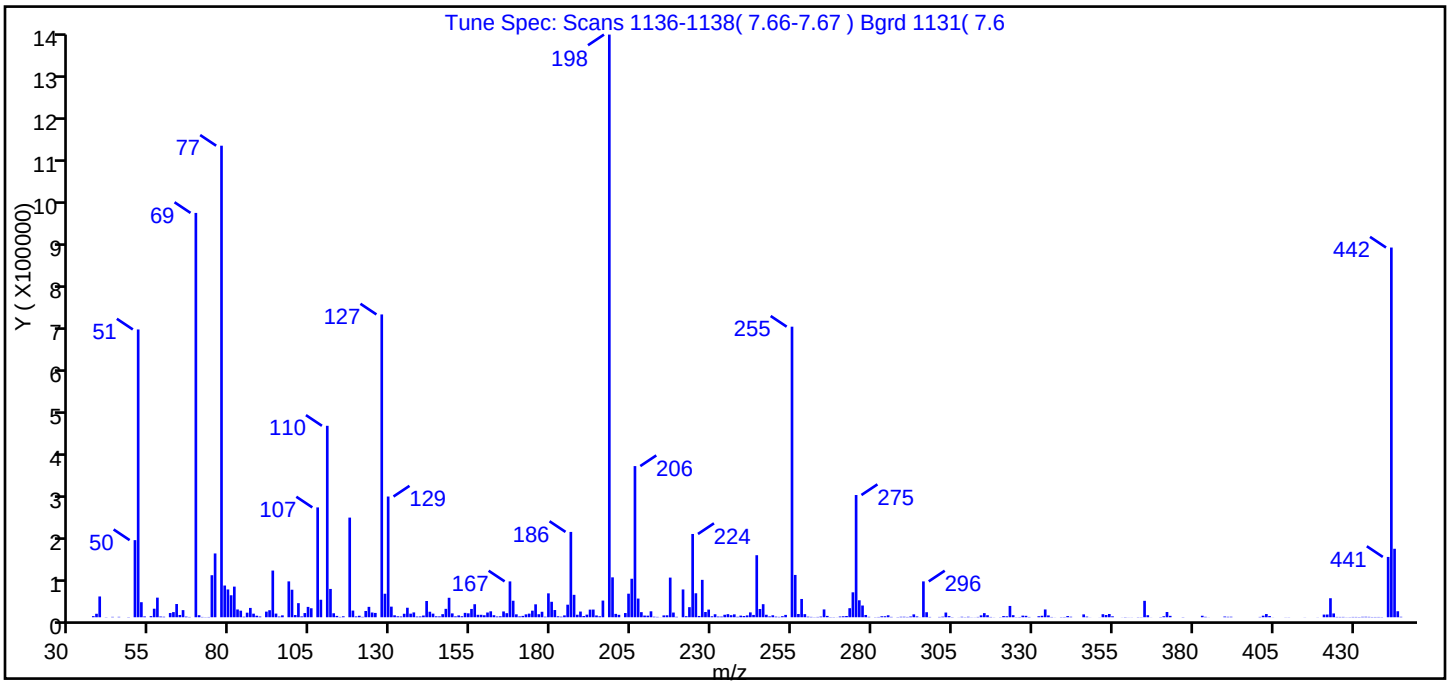
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
143 Pentachlorophenol	266	7.315	7.315	0.0	78	1277407	0	
150 DFTPP								
160 Benzidine	184	8.619	8.619	0.0	98	7861787	0	
166 4,4'-DDE	246	8.763	8.763	0.0	6	2046	0	
165 4,4'-DDD	235	9.078	9.078	0.0	49	8137	0	
170 4,4'-DDT	235	9.308	9.308	0.0	97	3437049	0	

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D		
Injection Date:	05-Apr-2013 11:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm
Tune Method:	DFTPP Method CLP OLM4.2		

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	49.39
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	69.39
70	Less than 2.00% of mass 69	0.35 (0.50)
127	25.00 - 75.00% of mass 198	51.97
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.85
275	10.00 - 30.00% of mass 198	20.98
365	Greater than 0.75% of mass 198	2.82
441	Present, but less than mass 443%	10.35 (88.09)
442	40.00 - 110.00% of mass 198	63.45
443	15.00 - 24.00% of mass 442	11.75 (18.52)

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D\8270 _9.rslt\spectra.d
Injection Date: 05-Apr-2013 11:04:30
Spectrum: Tune Spec: Scans 1136-1138(7.66-7.67) Bgrd 1131(7.6
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2568	138.00	1618	226.00	2945	317.00	701
38.00	7894	139.00	1767	227.00	84808	318.00	239
39.00	47152	140.00	3927	228.00	11908	320.00	396
41.00	411	141.00	36832	229.00	17400	321.00	2656
43.00	902	142.00	12533	230.00	2204	322.00	2131
45.00	945	143.00	8202	231.00	6809	323.00	25648
48.00	500	144.00	2132	232.00	1613	324.00	4688
50.00	174848	145.00	1966	233.00	1541	325.00	383
51.00	652480	146.00	7025	234.00	5649	326.00	608
52.00	34120	147.00	19072	235.00	7019	327.00	3663
53.00	1820	148.00	44160	236.00	4716	328.00	3262
55.00	2550	149.00	8769	237.00	6558	329.00	709
56.00	19360	150.00	2026	238.00	1105	332.00	2339
57.00	44480	151.00	4160	239.00	3692	333.00	3355
58.00	1615	152.00	2334	240.00	2794	334.00	17696
59.00	1165	153.00	9950	241.00	4225	335.00	4151
61.00	9556	154.00	8937	242.00	11043	336.00	676
62.00	11702	155.00	18848	243.00	5262	337.00	183
63.00	30016	156.00	29552	244.00	140672	339.00	495
64.00	5155	157.00	5582	245.00	18744	340.00	598
65.00	16158	158.00	5577	246.00	29640	341.00	2744
66.00	1460	159.00	4511	247.00	5656	342.00	1160
67.00	697	160.00	10755	248.00	1920	346.00	6508
69.00	916672	161.00	13498	249.00	4506	347.00	1508
70.00	4579	162.00	4588	250.00	1425	348.00	178
71.00	729	163.00	1732	251.00	877	351.00	199
72.00	417	164.00	2150	252.00	2411	352.00	6920
73.00	660	165.00	13167	253.00	5363	353.00	5061
74.00	95288	166.00	9245	255.00	658752	354.00	7386
75.00	144640	167.00	81296	256.00	95928	355.00	2146
77.00	1069056	168.00	37424	257.00	7376	358.00	175
78.00	71912	169.00	6617	258.00	41456	359.00	500
79.00	63056	170.00	1941	259.00	7059	360.00	193

Report Date: 08-Apr-2013 13:13:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D\8270 _9.rslt\spectra.d
Injection Date: 05-Apr-2013 11:04:30
Spectrum: Tune Spec: Scans 1136-1138(7.66-7.67) Bgrd 1131(7.6
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	49832	171.00	3130	260.00	1350	361.00	210
81.00	69464	172.00	6590	261.00	825	363.00	442
82.00	17688	173.00	8182	262.00	380	364.00	405
83.00	14901	174.00	14910	263.00	752	365.00	37240
84.00	1238	175.00	29328	264.00	1541	366.00	4620
85.00	10369	176.00	6902	265.00	17760	367.00	190
86.00	21176	177.00	12456	266.00	3039	370.00	608
87.00	8149	178.00	1255	267.00	493	371.00	2267
88.00	3494	179.00	54216	268.00	451	372.00	11926
89.00	1691	180.00	35080	269.00	188	373.00	3190
91.00	12785	181.00	16377	270.00	1631	377.00	457
92.00	15961	182.00	2223	271.00	2224	383.00	3390
93.00	105864	183.00	1297	272.00	2841	384.00	1002
94.00	8333	184.00	4229	273.00	20544	385.00	178
95.00	1621	185.00	28496	274.00	56560	390.00	1640
96.00	4287	186.00	193472	275.00	277120	391.00	1078
98.00	81336	187.00	50832	276.00	38488	392.00	1173
99.00	62408	188.00	5700	277.00	26624	401.00	766
100.00	5006	189.00	12952	278.00	5190	402.00	3536
101.00	31968	190.00	2733	279.00	992	403.00	7290
102.00	1895	191.00	5912	281.00	415	404.00	2747
103.00	9541	192.00	17312	282.00	674	405.00	202
104.00	23496	193.00	17424	283.00	2259	409.00	248
105.00	20376	194.00	4093	284.00	2290	410.00	285
107.00	249024	195.00	2169	285.00	4485	415.00	215
108.00	39704	196.00	37832	286.00	824	419.00	225
110.00	434048	198.00	1320960	288.00	496	421.00	6053
111.00	64216	199.00	90472	289.00	1071	422.00	6215
112.00	9052	200.00	7641	290.00	1123	423.00	43152
113.00	3066	201.00	5484	291.00	709	424.00	8652
114.00	790	203.00	9573	292.00	1688	425.00	785
115.00	2151	204.00	53440	293.00	6547	426.00	720
117.00	225920	205.00	87280	294.00	1816	427.00	784
118.00	15129	206.00	342720	295.00	216	428.00	302

Report Date: 08-Apr-2013 13:13:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D\8270 _9.rslt\spectra.d
Injection Date: 05-Apr-2013 11:04:30
Spectrum: Tune Spec: Scans 1136-1138(7.66-7.67) Bgrd 1131(7.6
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 338

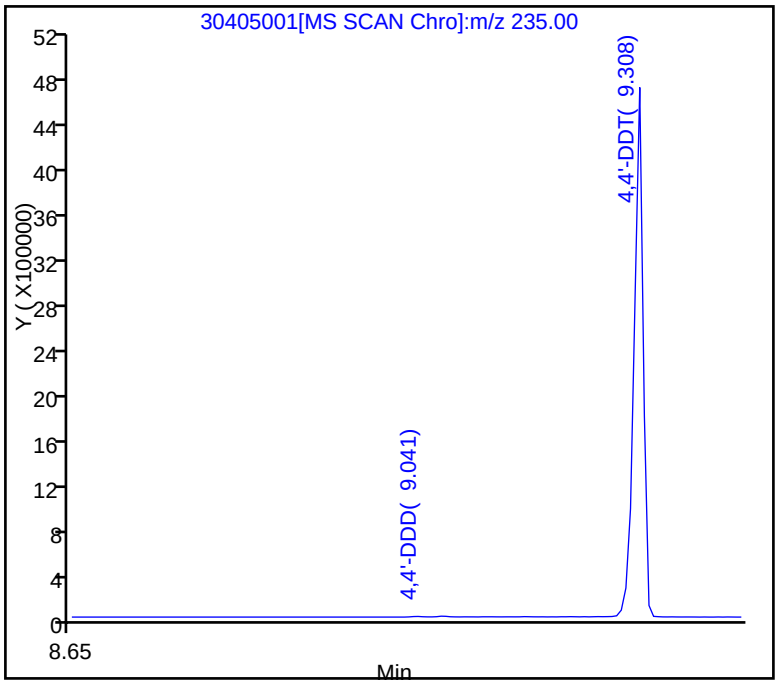
m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	1854	207.00	42384	296.00	81328	429.00	418
120.00	3414	208.00	11555	297.00	11404	430.00	739
121.00	883	209.00	3852	298.00	739	431.00	718
122.00	14226	210.00	3617	301.00	734	432.00	552
123.00	23576	211.00	13501	302.00	1324	433.00	1017
124.00	10733	212.00	1229	303.00	10677	434.00	1103
125.00	9807	213.00	856	304.00	2525	435.00	895
127.00	686528	214.00	213	305.00	486	436.00	625
128.00	53320	215.00	4188	307.00	181	437.00	641
129.00	273728	216.00	4435	308.00	1073	438.00	674
130.00	24064	217.00	89904	309.00	422	439.00	470
131.00	4411	218.00	10673	310.00	1119	441.00	136768
132.00	2187	219.00	1021	311.00	283	442.00	838208
133.00	1740	221.00	63040	312.00	219	443.00	155264
134.00	7901	222.00	2379	313.00	756	444.00	13623
135.00	21560	223.00	22896	314.00	4315	445.00	1045
136.00	8130	224.00	188800	315.00	9370		
137.00	10972	225.00	54376	316.00	4633		

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D		
Injection Date:	05-Apr-2013 11:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

170 4,4'-DDT, Area = 3437049
165 4,4'-DDD, Area = 8137
166 4,4'-DDE, Area = 2046

%Breakdown: 0.30%, Max Limit: 20.00%
Passed

Report Date: 08-Apr-2013 13:13:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

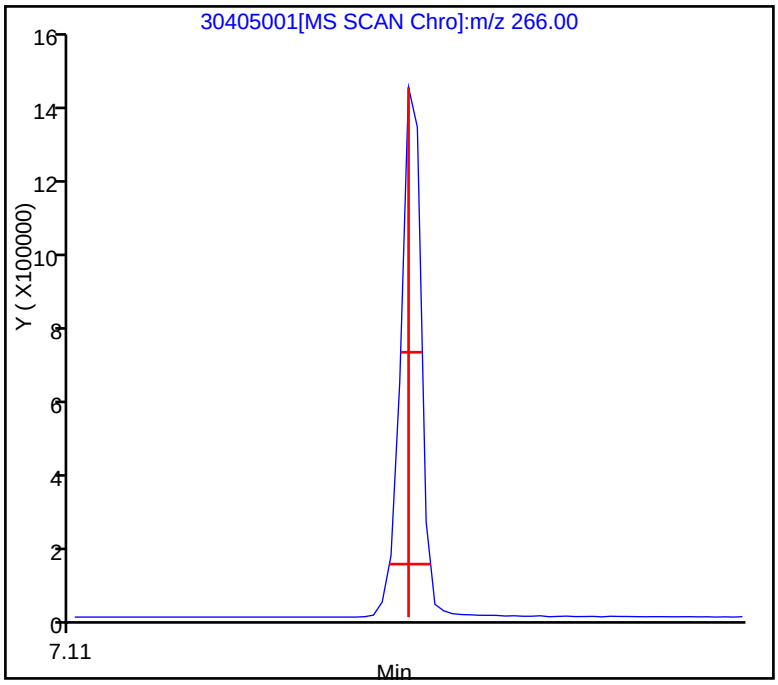
Peak Tailing Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D

Injection Date:	05-Apr-2013 11:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

143 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.2, Max. Tailing < 5.00
Passed

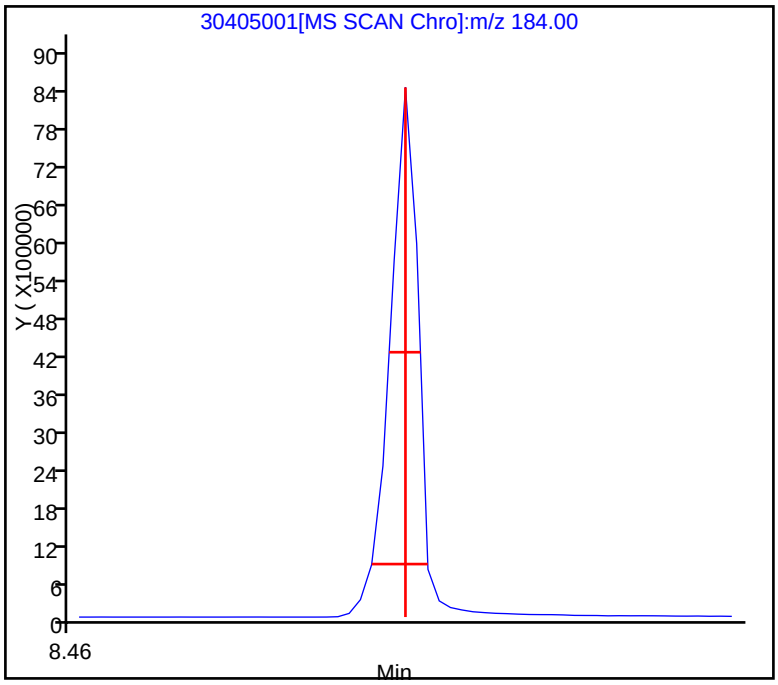
Report Date: 08-Apr-2013 13:13:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405001.D		
Injection Date:	05-Apr-2013 11:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.7, Max. Tailing < 3.00
Passed

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-80284/23-A

Matrix: Solid | Lab File ID: 30405006.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/05/2013 13:03

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.3	U	6.7	3.3	3.3
208-96-8	Acenaphthylene	3.3	U	6.7	3.3	3.3
120-12-7	Anthracene	3.3	U	6.7	3.3	3.3
56-55-3	Benzo[a]anthracene	3.3	U	6.7	3.3	3.3
50-32-8	Benzo[a]pyrene	3.3	U	6.7	3.3	3.3
205-99-2	Benzo[b]fluoranthene	3.3	U	6.7	3.3	3.3
191-24-2	Benzo[g,h,i]perylene	3.3	U	6.7	3.3	3.3
65-85-0	Benzoic acid	330	U	660	330	330
207-08-9	Benzo[k]fluoranthene	3.3	U	6.7	3.3	3.3
100-51-6	Benzyl alcohol	27	U	330	27	21
111-91-1	Bis(2-chloroethoxy)methane	27	U	100	27	22
111-44-4	Bis(2-chloroethyl)ether	3.3	U	100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	27	U	100	27	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	31.3	J	50	27	19
101-55-3	4-Bromophenyl phenyl ether	27	U	50	27	13
85-68-7	Butyl benzyl phthalate	27	U	50	27	10
86-74-8	Carbazole	27	U	50	27	27
106-47-8	4-Chloroaniline	27	U	150	27	17
59-50-7	4-Chloro-3-methylphenol	27	U	150	27	21
91-58-7	2-Chloronaphthalene	3.3	U	50	3.3	3.3
95-57-8	2-Chlorophenol	27	U	50	27	27
7005-72-3	4-Chlorophenyl phenyl ether	27	U	50	27	13
218-01-9	Chrysene	3.3	U	6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	3.3	U	6.7	3.3	3.3
132-64-9	Dibenzofuran	3.3	U	50	3.3	3.3
95-50-1	1,2-Dichlorobenzene	27	U	50	27	9.7
541-73-1	1,3-Dichlorobenzene	27	U	50	27	11
106-46-7	1,4-Dichlorobenzene	27	U	50	27	20
91-94-1	3,3'-Dichlorobenzidine	80	U	100	80	18
120-83-2	2,4-Dichlorophenol	27	U	150	27	20
84-66-2	Diethyl phthalate	27	U	50	27	16
105-67-9	2,4-Dimethylphenol	80	U	150	80	20
131-11-3	Dimethyl phthalate	27	U	50	27	17
84-74-2	Di-n-butyl phthalate	27	U	50	27	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-80284/23-A

Matrix: Solid | Lab File ID: 30405006.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/05/2013 13:03

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	80	U	150	80	80
51-28-5	2,4-Dinitrophenol	80	U	330	80	80
121-14-2	2,4-Dinitrotoluene	27	U	200	27	27
606-20-2	2,6-Dinitrotoluene	27	U	200	27	21
117-84-0	Di-n-octyl phthalate	27	U	50	27	27
206-44-0	Fluoranthene	3.3	U	6.7	3.3	3.3
86-73-7	Fluorene	3.3	U	6.7	3.3	3.3
118-74-1	Hexachlorobenzene	3.3	U	6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	27	U	50	27	27
77-47-4	Hexachlorocyclopentadiene	27	U	330	27	27
67-72-1	Hexachloroethane	27	U	50	27	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	3.3
78-59-1	Isophorone	27	U	50	27	13
91-57-6	2-Methylnaphthalene	3.3	U	6.7	3.3	3.3
95-48-7	2-Methylphenol	80	U	200	80	80
15831-10-4	3 & 4 Methylphenol	80	U	400	80	20
91-20-3	Naphthalene	3.3	U	6.7	3.3	3.3
88-74-4	2-Nitroaniline	27	U	200	27	9.1
99-09-2	3-Nitroaniline	80	U	200	80	16
100-01-6	4-Nitroaniline	27	U	200	27	26
98-95-3	Nitrobenzene	3.3	U	100	3.3	2.2
88-75-5	2-Nitrophenol	27	U	50	27	27
100-02-7	4-Nitrophenol	80	U	330	80	80
621-64-7	N-Nitrosodi-n-propylamine	27	U	50	27	27
86-30-6	N-Nitrosodiphenylamine	27	U	50	27	21
87-86-5	Pentachlorophenol	80	U	150	80	80
85-01-8	Phenanthrene	3.3	U	6.7	3.3	3.3
108-95-2	Phenol	27	U	50	27	27
129-00-0	Pyrene	3.3	U	6.7	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	27	U	50	27	27
95-95-4	2,4,5-Trichlorophenol	27	U	150	27	25
88-06-2	2,4,6-Trichlorophenol	80	U	150	80	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-80284/23-A

Matrix: Solid | Lab File ID: 30405006.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/05/2013 13:03

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		45-105
367-12-4	2-Fluorophenol (Surr)	72		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	72		35-100
4165-62-2	Phenol-d5 (Surr)	76		40-100
1718-51-0	Terphenyl-d14 (Surr)	63		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	56		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405006.D
Lims ID: MB 240-80284/23-A Client ID:
Inject. Date: 05-Apr-2013 13:03:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018588-006
Misc. Info.: MB 240-80284/23-A =MB 240-80284/23-A
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 80755 Lims Sample ID: 6
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 05-Apr-2013 14:45:31 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK016

First Level Reviewer: ulmanm Date: 05-Apr-2013 14:24:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.740	3.746	-0.006	94	303792	4.00	
* 2 Naphthalene-d8	136	4.766	4.772	-0.006	98	1310242	4.00	
* 3 Acenaphthene-d10	164	6.235	6.236	-0.001	91	731043	4.00	
* 4 Phenanthrene-d10	188	7.491	7.497	-0.007	96	1247039	4.00	
* 5 Chrysene-d12	240	9.729	9.735	-0.006	80	1249983	4.00	
* 6 Perylene-d12	264	11.241	11.247	-0.006	92	982436	4.00	
$ 7 2-Fluorophenol	112	2.779	2.763	0.016	94	1488587	10.9	
$ 8 Phenol-d5	99	3.409	3.415	-0.006	94	2235184	11.5	
$ 9 Nitrobenzene-d5	82	4.173	4.184	-0.011	85	1457657	7.20	
$ 10 2-Fluorobiphenyl (Surr)	172	5.647	5.654	-0.007	99	1571068	7.09	
$ 11 2,4,6-Tribromophenol	330	6.898	6.904	-0.006	79	194938	8.43	
$ 12 Terphenyl-d14	244	8.821	8.821	0.0	98	1552712	6.29	
16 2,3-Dichlorophenol	1		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
20 Dimethylformamide	1		0.000					
19 Octachlorostyrene	1		0.000					
247 Hexadecane	57		0.000					
13 Octachlorocyclopentene	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
248 2,3,7,8 TCDF TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
25 1,4-Dioxane	88		1.759					
26 N-Nitrosodimethylamine	74		1.941					9
27 Pyridine	79		1.967					
28 Ethyl methacrylate	69		2.103					
29 3-Chloropropionitrile	54		2.284					
33 Malononitrile	66		2.439					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
31 2-Picoline	93		2.475					9
32 N-Nitrosomethylethylamine	88		2.534					9
30 3-Picoline	93		2.646					
233 n,n'-Dimethylacetamide	44		2.652					9
35 Acrylamide	71		2.705					
34 Methyl methanesulfonate	80		2.731					9
36 N-Nitrosodiethylamine	102		3.009					
37 Ethyl methanesulfonate	79		3.207					
38 2-Methylcyclohexanone	68		3.239					
39 3-Methylcyclohexanone	69		3.266					
40 4-Methylcyclohexanone	55		3.303					
43 Phenol	94		3.426					9
41 Benzaldehyde	77		3.426					
44 Aniline	93		3.495					9
69 Bis(2-chloroethyl)ether	93		3.522					9
46 2-Chlorophenol	128		3.586					9
42 Phenylmercaptan	110		3.596					
45 Pentachloroethane	167		3.597					
47 1,3-Dichlorobenzene	146		3.709					9
232 1-Methyl-2-pyrrilidinone	99		3.751					
48 1,4-Dichlorobenzene	146		3.762					9
49 Benzyl alcohol	108		3.832					9
50 1,2-Dichlorobenzene	146		3.885					
51 2-Methylphenol	108		3.896					9
53 2,2'-oxybis[1-chloropropane]	45		3.933					9
52 Indene	115		3.955					9
21 3 & 4 Methylphenol	108		4.019					
57 N-Nitrosodi-n-propylamine	70		4.040					
58 Acetophenone	105		4.056					9
56 N-Nitrosopyrrolidine	100		4.099					
59 N-Nitrosomorpholine	56		4.126					
60 2-Toluidine	106		4.142					
61 Hexachloroethane	117		4.152					
62 Nitrobenzene	77		4.200					9
67 1,3,5-Trichlorobenzene	180		4.330					
63 N-Nitrosopiperidine	114		4.382					
64 Isophorone	82		4.382					
66 2-Nitrophenol	139		4.452					
65 2,4-Dimethylphenol	107		4.452					
71 Benzoic acid	122		4.521					9
70 Bis(2-chloroethoxy)methane	93		4.537					9
68 o,o',o''-Triethylphosphorothioat	198		4.558					
24 Catechol	110		4.592					9
73 2,4-Dichlorophenol	162		4.639					
72 alpha,alpha-Dimethyl phenethylam	58		4.676					9
74 1,2,4-Trichlorobenzene	180		4.713					
80 1,2,3-Trichlorobenzene	180		4.774					
75 Naphthalene	128		4.793					9
76 4-Chloroaniline	127		4.815					
79 Hexachlorobutadiene	225		4.874					
246 1-Chloronaphthalene	162		4.884					
77 2,6-Dichlorophenol	162		4.884					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
15 3-Methylcatechol	124		4.913					9
78 Hexachloropropene	213		4.916					
14 4-Methylcatechol	124		5.036					9
81 Benzothiazole	135		5.046					
82 Quinoline	129		5.125					
84 Caprolactam	113		5.125					
83 N-Nitrosodi-n-butylamine	84		5.130					9
85 p-Phenylene diamine	108		5.167					
86 4-Chloro-3-methylphenol	107		5.194					
94 Safrole, Total	162		5.328					
90 1,2,3,5-Tetrachlorobenzene	216		5.345					
87 2-Methylnaphthalene	142		5.360					
88 1-Methylnaphthalene	142		5.445					
89 Hexachlorocyclopentadiene	237		5.477					
91 1,2,4,5-Tetrachlorobenzene	216		5.493					
225 Isosafrole Peak 1	162		5.568					9
92 2,4,6-Trichlorophenol	196		5.579					
97 2,4-Toluene diamine	121		5.586					9
99 1,2,3,4 -Tetrachlorobenzene	216		5.596					
93 2,4,5-Trichlorophenol	196		5.616					
96 3,4-Dichloronitrobenzene	109		5.725					9
98 1,1'-Biphenyl	154		5.744					
227 Isosafrole Peak 2	162		5.760					9
100 2-Chloronaphthalene	162		5.771					9
101 Phenyl ether	170		5.773					9
102 2-Nitroaniline	65		5.841					
108 1,2-Dinitrobenzene	168		5.944					
103 1,4-Naphthoquinone	158		5.974					
105 Dimethyl phthalate	163		5.979					
104 1,4-Dinitrobenzene	168		6.017					
106 1,3-Dinitrobenzene	168		6.017					
107 2,6-Dinitrotoluene	165		6.038					
109 Acenaphthylene	152		6.124					
110 3-Nitroaniline	138		6.188					
112 Acenaphthene	153		6.268					
111 2,4-Dinitrophenol	184		6.273					
113 4-Nitrophenol	109		6.300					9
114 2,4-Dinitrotoluene	165		6.380					
116 Dibenzofuran	168		6.412					
115 Pentachlorobenzene	250		6.433					
119 2,3,4,6-Tetrachlorophenol	232		6.498					
118 2,3,5,6-Tetrachlorophenol	232		6.524					
117 1-Naphthylamine	143		6.535					
121 Diethyl phthalate	149		6.567					9
120 2-Naphthylamine	143		6.604					
127 Tributyl phosphate	99		6.615					9
123 4-Chlorophenyl phenyl ether	204		6.685					
122 Thionazin	97		6.695					9
126 Fluorene	166		6.701					
125 4-Nitroaniline	138		6.706					
128 4,6-Dinitro-2-methylphenol	198		6.722					
124 N-Nitro-o-toluidine	152		6.759					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
131 N-Nitrosodiphenylamine	169		6.781					
132 1,2-Diphenylhydrazine	77		6.818					
133 Azobenzene	77		6.818					
130 Diphenylamine	169		6.839					9
134 Sulfotepp	202		6.941					
135 1,3,5-Trinitrobenzene	213		7.042					
228 Diallate Peak 1	86		7.069					9
137 Phenacetin	108		7.085					
138 Phorate	121		7.085					
139 4-Bromophenyl phenyl ether	248		7.101					
230 Diallate Peak 2	86		7.149					9
141 Hexachlorobenzene	284		7.160					
142 Atrazine	200		7.213					
140 Dimethoate	87		7.235					
143 Pentachlorophenol	266		7.320					
129 4-Aminobiphenyl	169		7.379					
145 Pentachloronitrobenzene	237		7.390					
144 Pronamide	173		7.400					
147 Dinoseb	211		7.512					
148 Phenanthrene	178		7.518					9
146 Disulfoton	88		7.523					9
149 Anthracene	178		7.561					9
153 Diphenylsulfone	125		7.616					
151 Carbazole	167		7.684					9
152 Methyl parathion	109		7.844					9
154 Di-n-butyl phthalate	149		7.935					9
155 Ethyl Parathion	97		8.164					9
156 4-Nitroquinoline-1-oxide	190		8.228					
157 Methapyrilene	58		8.266					9
158 Isodrin	66		8.463					9
159 Fluoranthene	202		8.522					
160 Benzidine	184		8.618					9
161 Pyrene	202		8.725					9
166 4,4'-DDE	246		8.763					9
226 Aramite Peak 1	185		8.843					9
229 Aramite Peak 2	185		8.901					
163 p-Dimethylamino azobenzene	225		9.003					
164 Chlorobenzilate	139		9.024					
165 4,4'-DDD	235		9.078					
176 Hexabromobenzene	232		9.208					
168 Butyl benzyl phthalate	149		9.211					9
167 Famphur	218		9.238					
169 3,3'-Dimethylbenzidine	212		9.286					
170 4,4'-DDT	235		9.308					
172 3,3'-Dimethoxybenzidine	244		9.491					9
171 2-Acetylaminofluorene	181		9.505					
173 Bis(2-ethylhexyl) phthalate	149	9.665	9.671	-0.006	84	35212	0.4688	
175 3,3'-Dichlorobenzidine	252		9.687					
177 Benzo[a]anthracene	228		9.724					9
174 4,4'-Methylene bis(2-chloroanili	231		9.745					9
178 Chrysene	228		9.762					9
179 6-Methylchrysene	242		10.248					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
180 Di-n-octyl phthalate	149		10.248					
182 Benzo[b]fluoranthene	252		10.782					9
183 Benzo[k]fluoranthene	252		10.814					9
181 7,12-Dimethylbenz(a)anthracene	256		10.857					
184 Benzo[a]pyrene	252		11.183					9
185 3-Methylcholanthrene	268		11.765					
186 Dibenz[a,j]acridine	279		11.804					
187 Dibenz[a,h]acridine	279		12.636					
188 Indeno[1,2,3-cd]pyrene	276		12.887					
189 Dibenz(a,h)anthracene	278		12.908					
190 Benzo[g,h,i]perylene	276		13.394					
S 191 Methyl Phenols,Total	100		0.000					7
S 245 Total Cresols	100		0.000					
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 234 2-Isopropylphenol TIC	121		4.500					1
T 235 4-isopropylphenol TIC	121		4.700					1
T 236 3-isopropylphenol TIC	121		4.700					1
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		5.000					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 231 2,3,7,8-TCDD	322		9.600					1
T 192 Octadecane (TIC)	254		9.600					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					1
T 196 Kepone TIC	272		12.500					1
T 197 Hexachlorophene TIC	198		13.000					1

QC Flag Legend

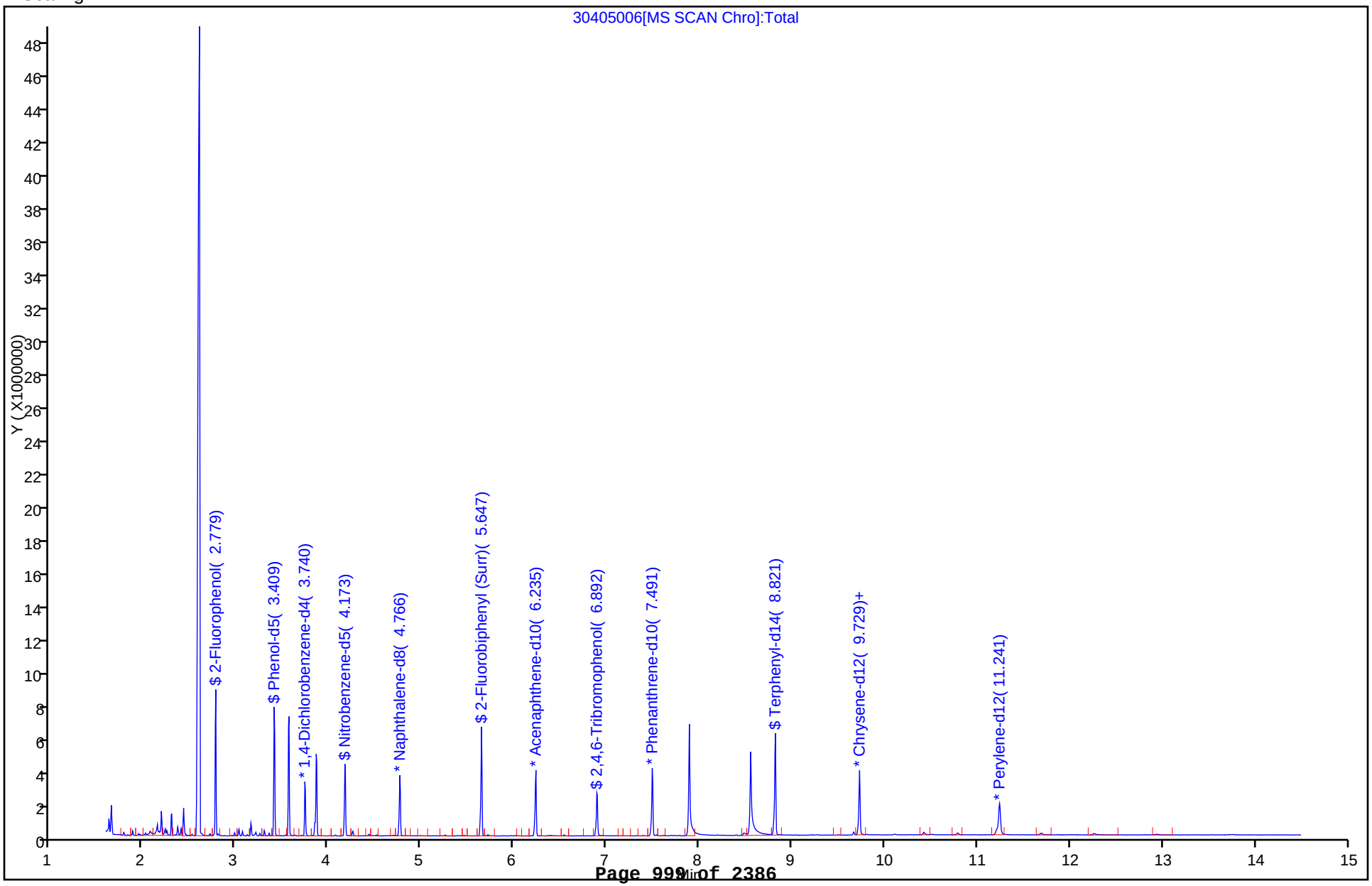
Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 05-Apr-2013 14:45:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405006.D		
Injection Date:	05-Apr-2013 13:03:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



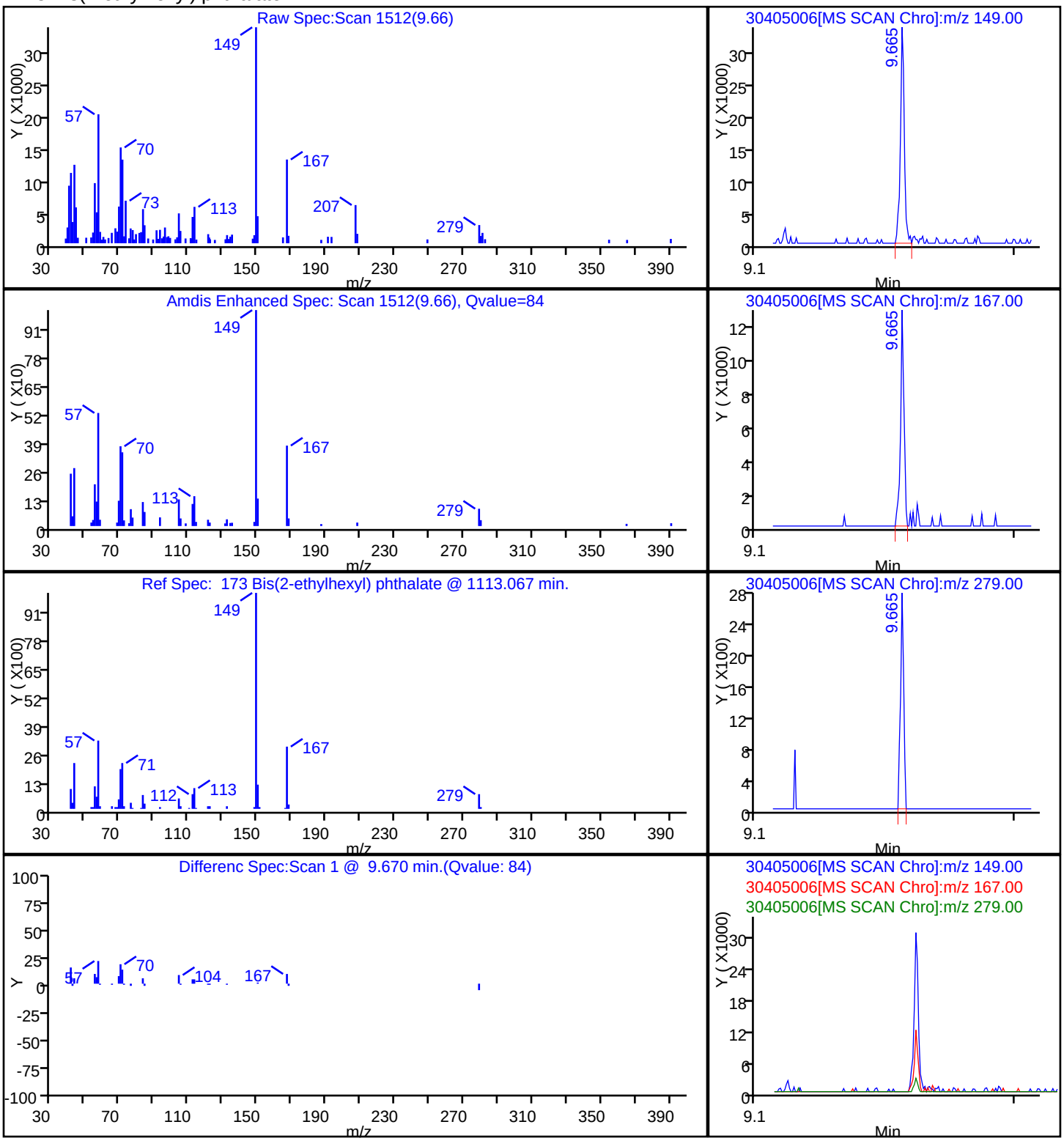
Report Date: 05-Apr-2013 14:45:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405006.D

Injection Date:	05-Apr-2013 13:03:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

173 Bis(2-ethylhexyl) phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-80284/24-A

Matrix: Solid | Lab File ID: 30405007.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/05/2013 13:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	508		6.7	3.3	3.3
208-96-8	Acenaphthylene	527		6.7	3.3	3.3
120-12-7	Anthracene	557		6.7	3.3	3.3
56-55-3	Benzo[a]anthracene	570		6.7	3.3	3.3
50-32-8	Benzo[a]pyrene	517		6.7	3.3	3.3
205-99-2	Benzo[b]fluoranthene	593		6.7	3.3	3.3
191-24-2	Benzo[g,h,i]perylene	550		6.7	3.3	3.3
65-85-0	Benzoic acid	330	U	660	330	330
207-08-9	Benzo[k]fluoranthene	504		6.7	3.3	3.3
100-51-6	Benzyl alcohol	501		330	27	21
111-91-1	Bis(2-chloroethoxy)methane	520		100	27	22
111-44-4	Bis(2-chloroethyl)ether	502		100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	516		100	27	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	551		50	27	19
101-55-3	4-Bromophenyl phenyl ether	529		50	27	13
85-68-7	Butyl benzyl phthalate	567		50	27	10
86-74-8	Carbazole	546		50	27	27
106-47-8	4-Chloroaniline	324		150	27	17
59-50-7	4-Chloro-3-methylphenol	549		150	27	21
91-58-7	2-Chloronaphthalene	500		50	3.3	3.3
95-57-8	2-Chlorophenol	543		50	27	27
7005-72-3	4-Chlorophenyl phenyl ether	532		50	27	13
218-01-9	Chrysene	583		6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	548		6.7	3.3	3.3
132-64-9	Dibenzofuran	531		50	3.3	3.3
95-50-1	1,2-Dichlorobenzene	493		50	27	9.7
541-73-1	1,3-Dichlorobenzene	478		50	27	11
106-46-7	1,4-Dichlorobenzene	491		50	27	20
91-94-1	3,3'-Dichlorobenzidine	359		100	80	18
120-83-2	2,4-Dichlorophenol	522		150	27	20
84-66-2	Diethyl phthalate	544		50	27	16
105-67-9	2,4-Dimethylphenol	449		150	80	20
131-11-3	Dimethyl phthalate	536		50	27	17
84-74-2	Di-n-butyl phthalate	590		50	27	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-80284/24-A

Matrix: Solid | Lab File ID: 30405007.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/05/2013 13:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	521		150	80	80
51-28-5	2,4-Dinitrophenol	361		330	80	80
121-14-2	2,4-Dinitrotoluene	564		200	27	27
606-20-2	2,6-Dinitrotoluene	549		200	27	21
117-84-0	Di-n-octyl phthalate	594		50	27	27
206-44-0	Fluoranthene	565		6.7	3.3	3.3
86-73-7	Fluorene	527		6.7	3.3	3.3
118-74-1	Hexachlorobenzene	516		6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	500		50	27	27
77-47-4	Hexachlorocyclopentadiene	430		330	27	27
67-72-1	Hexachloroethane	488		50	27	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	535		6.7	3.3	3.3
78-59-1	Isophorone	523		50	27	13
91-57-6	2-Methylnaphthalene	500		6.7	3.3	3.3
95-48-7	2-Methylphenol	521		200	80	80
15831-10-4	3 & 4 Methylphenol	1050		400	80	20
91-20-3	Naphthalene	523		6.7	3.3	3.3
88-74-4	2-Nitroaniline	550		200	27	9.1
99-09-2	3-Nitroaniline	475		200	80	16
100-01-6	4-Nitroaniline	553		200	27	26
98-95-3	Nitrobenzene	520		100	3.3	2.2
88-75-5	2-Nitrophenol	539		50	27	27
100-02-7	4-Nitrophenol	501		330	80	80
621-64-7	N-Nitrosodi-n-propylamine	516		50	27	27
86-30-6	N-Nitrosodiphenylamine	588		50	27	21
87-86-5	Pentachlorophenol	420		150	80	80
85-01-8	Phenanthrene	537		6.7	3.3	3.3
108-95-2	Phenol	564		50	27	27
129-00-0	Pyrene	568		6.7	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	513		50	27	27
95-95-4	2,4,5-Trichlorophenol	490		150	27	25
88-06-2	2,4,6-Trichlorophenol	425		150	80	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-80284/24-A

Matrix: Solid | Lab File ID: 30405007.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/02/2013 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/05/2013 13:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	67		45-105
367-12-4	2-Fluorophenol (Surr)	74		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	70		35-100
4165-62-2	Phenol-d5 (Surr)	74		40-100
1718-51-0	Terphenyl-d14 (Surr)	60		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	52		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405007.D
Lims ID: LCS 240-80284/24-A Client ID:
Inject. Date: 05-Apr-2013 13:24:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018588-007
Misc. Info.: LCS 240-80284/24-A =LCS 240-80284/24-A
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 80755 Lims Sample ID: 7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 05-Apr-2013 14:45:31 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK016

First Level Reviewer: ulmanm Date: 05-Apr-2013 14:26:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.746	3.746	0.0	94	305624	4.00	
* 2 Naphthalene-d8	136	4.767	4.772	-0.005	98	1347108	4.00	
* 3 Acenaphthene-d10	164	6.236	6.236	0.0	86	770005	4.00	
* 4 Phenanthrene-d10	188	7.491	7.497	-0.006	96	1303994	4.00	
* 5 Chrysene-d12	240	9.729	9.735	-0.006	70	1314115	4.00	
* 6 Perylene-d12	264	11.241	11.247	-0.006	92	1040169	4.00	
$ 7 2-Fluorophenol	112	2.779	2.763	0.016	94	1540023	11.2	
$ 8 Phenol-d5	99	3.415	3.415	0.0	90	2176441	11.1	
$ 9 Nitrobenzene-d5	82	4.179	4.184	-0.005	84	1449877	6.97	
$ 10 2-Fluorobiphenyl (Surr)	172	5.648	5.654	-0.006	99	1567741	6.71	
$ 11 2,4,6-Tribromophenol	330	6.898	6.904	-0.006	80	190360	7.81	
$ 12 Terphenyl-d14	244	8.821	8.821	0.0	98	1555794	5.99	
26 N-Nitrosodimethylamine	74	1.962	1.941	0.021	86	849925	7.09	
27 Pyridine	79	1.999	1.967	0.032	93	1004421	5.27	
43 Phenol	94	3.426	3.426	0.0	97	1629844	8.45	
44 Aniline	93	3.484	3.495	-0.011	96	895258	3.41	
69 Bis(2-chloroethyl)ether	93	3.516	3.522	-0.006	97	1323205	7.54	
46 2-Chlorophenol	128	3.581	3.586	-0.005	88	849441	8.14	
47 1,3-Dichlorobenzene	146	3.703	3.709	-0.006	88	768854	7.17	
48 1,4-Dichlorobenzene	146	3.757	3.762	-0.005	82	803389	7.37	
49 Benzyl alcohol	108	3.832	3.832	0.0	84	689079	7.52	
50 1,2-Dichlorobenzene	146	3.880	3.885	-0.005	86	760139	7.39	
51 2-Methylphenol	108	3.896	3.896	0.0	71	992024	7.81	
53 2,2'-oxybis[1-chloropropane]	45	3.928	3.933	-0.005	93	1402829	7.74	
21 3 & 4 Methylphenol	108	4.013	4.019	-0.006	94	2104895	15.7	
57 N-Nitrosodi-n-propylamine	70	4.035	4.040	-0.005	73	1101746	7.74	
61 Hexachloroethane	117	4.152	4.152	0.0	87	390553	7.32	
62 Nitrobenzene	77	4.195	4.200	-0.005	78	1552378	7.80	
64 Isophorone	82	4.377	4.382	-0.005	95	2633764	7.85	
66 2-Nitrophenol	139	4.446	4.452	-0.006	78	440904	8.09	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
65 2,4-Dimethylphenol	107	4.446	4.452	-0.006	88	903133	6.74	
71 Benzoic acid	122	4.510	4.521	-0.011	78	60477	1.92	
70 Bis(2-chloroethoxy)methane	93	4.531	4.537	-0.006	98	1518744	7.81	
73 2,4-Dichlorophenol	162	4.633	4.639	-0.006	91	635755	7.84	
74 1,2,4-Trichlorobenzene	180	4.713	4.713	0.0	82	673527	7.69	
75 Naphthalene	128	4.788	4.793	-0.005	98	2499127	7.84	
76 4-Chloroaniline	127	4.815	4.815	0.0	69	669806	4.87	
79 Hexachlorobutadiene	225	4.868	4.874	-0.006	90	369703	7.50	
86 4-Chloro-3-methylphenol	107	5.189	5.194	-0.005	82	984707	8.23	
87 2-Methylnaphthalene	142	5.354	5.360	-0.006	84	1551080	7.51	
88 1-Methylnaphthalene	142	5.440	5.445	-0.005	79	1470475	7.70	
89 Hexachlorocyclopentadiene	237	5.477	5.477	0.0	84	387938	6.45	
92 2,4,6-Trichlorophenol	196	5.579	5.579	0.0	89	362680	6.38	
93 2,4,5-Trichlorophenol	196	5.611	5.616	-0.005	85	443876	7.35	
100 2-Chloronaphthalene	162	5.766	5.771	-0.005	97	1439294	7.50	
102 2-Nitroaniline	65	5.840	5.841	0.0	71	835033	8.24	
108 1,2-Dinitrobenzene	168		5.944					
105 Dimethyl phthalate	163	5.974	5.979	-0.005	93	1745595	8.04	
104 1,4-Dinitrobenzene	168	5.952	6.017	-0.065	81	260359	7.12	
106 1,3-Dinitrobenzene	168	6.017	6.017	0.0	78	307887	8.42	
107 2,6-Dinitrotoluene	165	6.033	6.038	-0.005	69	404340	8.23	
109 Acenaphthylene	152	6.123	6.124	-0.001	84	2391054	7.91	
110 3-Nitroaniline	138	6.182	6.188	-0.006	86	418777	7.13	
112 Acenaphthene	153	6.262	6.268	-0.006	92	1443637	7.62	
111 2,4-Dinitrophenol	184	6.273	6.273	0.0	59	177285	5.41	
113 4-Nitrophenol	109	6.294	6.300	-0.006	80	340341	7.52	
114 2,4-Dinitrotoluene	165	6.375	6.380	-0.005	78	550352	8.47	
116 Dibenzofuran	168	6.407	6.412	-0.005	82	2127308	7.96	
119 2,3,4,6-Tetrachlorophenol	232	6.497	6.498	-0.001	77	269174	5.52	
118 2,3,5,6-Tetrachlorophenol	232	6.497	6.524	-0.027	85	269174	5.20	
121 Diethyl phthalate	149	6.561	6.567	-0.006	94	1729331	8.16	
123 4-Chlorophenyl phenyl ether	204	6.679	6.685	-0.006	92	821493	7.98	
126 Fluorene	166	6.695	6.701	-0.006	79	1719125	7.90	
125 4-Nitroaniline	138	6.695	6.706	-0.011	76	487306	8.30	
128 4,6-Dinitro-2-methylphenol	198	6.716	6.722	-0.006	69	330434	7.81	
131 N-Nitrosodiphenylamine	169	6.775	6.781	-0.006	98	1286008	8.82	
132 1,2-Diphenylhydrazine	77	6.813	6.818	-0.005	100	3464888	8.71	
133 Azobenzene	77	6.813	6.818	-0.005	94	3469876	8.72	
139 4-Bromophenyl phenyl ether	248	7.096	7.101	-0.005	71	428581	7.94	
141 Hexachlorobenzene	284	7.154	7.160	-0.006	84	408598	7.73	
143 Pentachlorophenol	266	7.325	7.320	0.005	76	197425	6.29	
148 Phenanthrene	178	7.512	7.518	-0.006	98	2615370	8.06	
149 Anthracene	178	7.560	7.561	-0.001	98	2688998	8.35	
151 Carbazole	167	7.683	7.684	-0.001	83	2430519	8.19	
154 Di-n-butyl phthalate	149	7.934	7.935	-0.001	99	3108827	8.85	
159 Fluoranthene	202	8.522	8.522	0.0	99	2904138	8.47	
161 Pyrene	202	8.720	8.725	-0.005	96	2957182	8.52	
168 Butyl benzyl phthalate	149	9.211	9.211	0.0	88	1321431	8.50	
173 Bis(2-ethylhexyl) phthalate	149	9.665	9.671	-0.006	92	1884714	8.27	
175 3,3'-Dichlorobenzidine	252	9.681	9.687	-0.006	73	591938	5.38	
177 Benzo[a]anthracene	228	9.724	9.724	0.0	90	2882508	8.55	
178 Chrysene	228	9.756	9.762	-0.006	92	2712061	8.75	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
180 Di-n-octyl phthalate	149	10.248	10.248	0.0	99	3181349	8.91	
182 Benzo[b]fluoranthene	252	10.771	10.782	-0.011	94	2641835	8.90	
183 Benzo[k]fluoranthene	252	10.803	10.814	-0.011	95	2350983	7.56	
184 Benzo[a]pyrene	252	11.177	11.183	-0.006	79	2133906	7.75	
188 Indeno[1,2,3-cd]pyrene	276	12.876	12.887	-0.011	94	2326951	8.02	
189 Dibenz(a,h)anthracene	278	12.897	12.908	-0.011	84	1979660	8.21	
190 Benzo[g,h,i]perylene	276	13.378	13.394	-0.016	85	1963989	8.24	

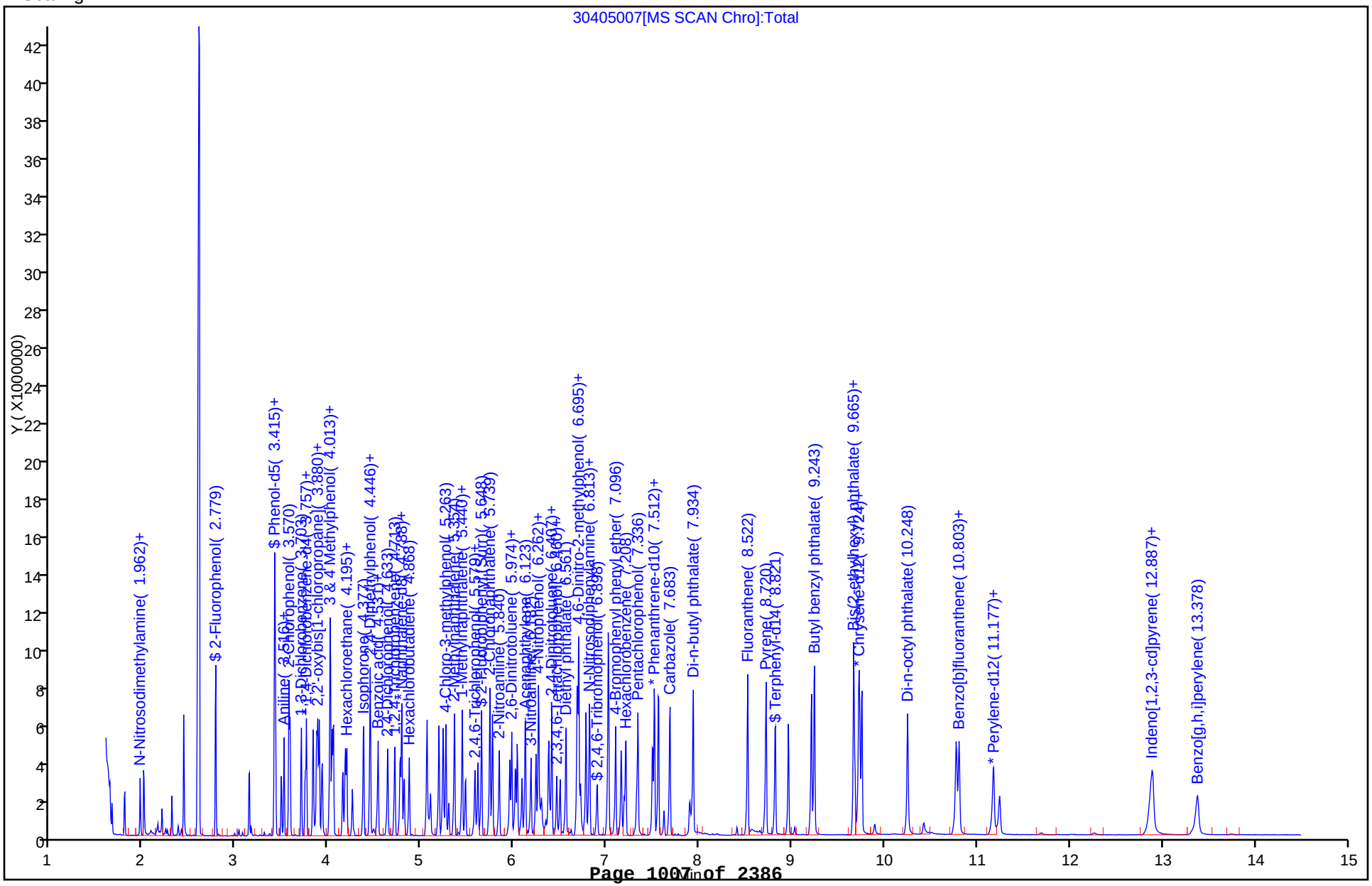
Report Date: 05-Apr-2013 14:45:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405007.D

Injection Date:	05-Apr-2013 13:24:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80755/3

Matrix: Solid | Lab File ID: 30405003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/05/2013 11:46

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.97		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	5.06		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.01		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.61		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	4.79		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	4.74		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	4.85		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	8.72		0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	4.76		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	4.92		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	4.97		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.92		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	4.95		1.0	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	4.66		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	5.00		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	4.75		0.0010	0.00080	0.00080
86-74-8	Carbazole	4.93		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	4.74		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.98		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	4.84		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	5.03		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.91		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.89		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	4.80		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.92		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	5.07		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	5.11		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	5.10		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	9.78		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	4.98		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	4.89		0.0010	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	5.07		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	4.92		0.0010	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	5.16		0.0010	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80755/3

Matrix: Solid | Lab File ID: 30405003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/05/2013 11:46

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	10.2		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	9.29		0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	5.12		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	5.05		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	5.06		0.0010	0.00080	0.00080
206-44-0	Fluoranthene	4.91		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.89		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.67		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	5.09		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	4.92		0.010	0.00080	0.00080
67-72-1	Hexachloroethane	5.02		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	4.76		0.00020	0.00010	0.00010
78-59-1	Isophorone	5.06		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.79		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	4.98		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	4.93		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.97		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	5.07		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	4.97		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	5.01		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	5.06		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	5.12		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	10.1		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	4.92		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	9.57		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	9.91		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	4.82		0.00020	0.00010	0.00010
108-95-2	Phenol	5.06		0.0010	0.00080	0.00060
129-00-0	Pyrene	4.94		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.94		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	4.83		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	4.79		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80755/3

Matrix: Solid | Lab File ID: 30405003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/05/2013 11:46

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	94		50-150
367-12-4	2-Fluorophenol (Surr)	99		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	95		50-150
4165-62-2	Phenol-d5 (Surr)	97		50-150
1718-51-0	Terphenyl-d14 (Surr)	91		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	96		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405003.D
Lims ID: mrl qc Client ID:
Inject. Date: 05-Apr-2013 11:46:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018588-003
Misc. Info.: QCMRL =QCMRL
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 80755 Lims Sample ID: 3
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m
Last Update: 08-Apr-2013 14:03:13 Calib Date: 04-Apr-2013 18:19:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK007

First Level Reviewer: ulmanm Date: 05-Apr-2013 12:23:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.746	3.746	0.0	91	320800	4.00	
* 2 Naphthalene-d8	136	4.772	4.772	0.0	98	1401454	4.00	
* 3 Acenaphthene-d10	164	6.235	6.236	-0.001	84	771306	4.00	
* 4 Phenanthrene-d10	188	7.496	7.497	-0.001	96	1304429	4.00	
* 5 Chrysene-d12	240	9.735	9.735	0.0	80	1345321	4.00	
* 6 Perylene-d12	264	11.246	11.247	-0.001	92	1026097	4.00	
$ 7 2-Fluorophenol	112	2.763	2.763	0.0	94	715880	4.94	
$ 8 Phenol-d5	99	3.409	3.415	-0.006	97	1000451	4.86	
$ 9 Nitrobenzene-d5	82	4.179	4.184	-0.005	84	1024704	4.73	
$ 10 2-Fluorobiphenyl (Surr)	172	5.653	5.654	-0.001	99	1100864	4.71	
$ 11 2,4,6-Tribromophenol	330	6.898	6.904	-0.006	76	117468	4.81	
$ 12 Terphenyl-d14	244	8.821	8.821	0.0	97	1207363	4.54	
16 2,3-Dichlorophenol	1		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
20 Dimethylformamide	1		0.000					
19 Octachlorostyrene	1		0.000					
247 Hexadecane	57		0.000					
13 Octachlorocyclopentene	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
248 2,3,7,8 TCDF TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
25 1,4-Dioxane	88	1.764	1.759	0.005	92	361030	5.22	
26 N-Nitrosodimethylamine	74	1.940	1.941	-0.001	85	642456	5.11	
27 Pyridine	79	1.972	1.967	0.005	92	1025922	5.13	
28 Ethyl methacrylate	69		2.103					9
29 3-Chloropropionitrile	54		2.284					9
33 Malononitrile	66		2.439					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
31 2-Picoline	93		2.475					9
32 N-Nitrosomethylethylamine	88		2.534					9
30 3-Picoline	93		2.646					9
233 n,n'-Dimethylacetamide	44		2.652					
35 Acrylamide	71		2.705					
34 Methyl methanesulfonate	80		2.731					9
36 N-Nitrosodiethylamine	102		3.009					
37 Ethyl methanesulfonate	79		3.207					9
38 2-Methylcyclohexanone	68		3.239					
39 3-Methylcyclohexanone	69		3.266					
40 4-Methylcyclohexanone	55		3.303					
43 Phenol	94	3.420	3.426	-0.006	97	1023877	5.06	
41 Benzaldehyde	77	3.420	3.426	-0.006	86	1674283	11.1	
44 Aniline	93	3.490	3.495	-0.005	97	1367731	4.97	
69 Bis(2-chloroethyl)ether	93	3.522	3.522	0.0	96	906407	4.92	
46 2-Chlorophenol	128	3.580	3.586	-0.006	86	551485	5.03	
42 Phenylmercaptan	110		3.596					9
45 Pentachloroethane	167		3.597					
47 1,3-Dichlorobenzene	146	3.709	3.709	0.0	89	574680	5.11	
232 1-Methyl-2-pyrrilidinone	99		3.751					
48 1,4-Dichlorobenzene	146	3.762	3.762	0.0	76	583191	5.10	
49 Benzyl alcohol	108	3.832	3.832	0.0	85	472718	4.92	
50 1,2-Dichlorobenzene	146	3.885	3.885	0.0	87	547632	5.07	
51 2-Methylphenol	108	3.896	3.896	0.0	95	663430	4.98	
53 2,2'-oxybis[1-chloropropane]	45	3.933	3.933	0.0	93	942126	4.95	
52 Indene	115	3.954	3.955	-0.001	68	2447990	11.1	
21 3 & 4 Methylphenol	108	4.013	4.019	-0.006	91	693065	4.93	
57 N-Nitrosodi-n-propylamine	70	4.035	4.040	-0.005	70	735755	4.92	
58 Acetophenone	105	4.051	4.056	-0.005	71	1063700	4.94	
56 N-Nitrosopyrrolidine	100		4.099					9
59 N-Nitrosomorpholine	56		4.126					9
60 2-Toluidine	106		4.142					9
61 Hexachloroethane	117	4.152	4.152	0.0	86	281331	5.02	
62 Nitrobenzene	77	4.195	4.200	-0.005	75	1046455	5.06	
67 1,3,5-Trichlorobenzene	180		4.330					
63 N-Nitrosopiperidine	114		4.382					
64 Isophorone	82	4.376	4.382	-0.006	95	1765698	5.06	
66 2-Nitrophenol	139	4.451	4.452	-0.001	77	290040	5.12	
65 2,4-Dimethylphenol	107	4.446	4.452	-0.006	90	706471	5.07	
71 Benzoic acid	122	4.494	4.521	-0.027	80	644252	8.72	
70 Bis(2-chloroethoxy)methane	93	4.537	4.537	0.0	94	1006237	4.97	
68 o,o',o''-Triethylphosphorothioat	198		4.558					
24 Catechol	110		4.592					9
73 2,4-Dichlorophenol	162	4.638	4.639	-0.001	94	420285	4.98	
72 alpha,alpha-Dimethyl phenethylam	58		4.676					
74 1,2,4-Trichlorobenzene	180	4.713	4.713	0.0	84	450595	4.94	
80 1,2,3-Trichlorobenzene	180		4.774					
75 Naphthalene	128	4.788	4.793	-0.005	97	1649133	4.97	
76 4-Chloroaniline	127	4.814	4.815	-0.001	78	678546	4.74	
79 Hexachlorobutadiene	225	4.873	4.874	-0.001	93	261361	5.09	
246 1-Chloronaphthalene	162		4.884					9
77 2,6-Dichlorophenol	162		4.884					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
15 3-Methylcatechol	124		4.913					9
78 Hexachloropropene	213		4.916					
14 4-Methylcatechol	124		5.036					9
81 Benzothiazole	135		5.046					
82 Quinoline	129		5.125					9
84 Caprolactam	113	5.098	5.125	-0.027	80	433669	9.80	
83 N-Nitrosodi-n-butylamine	84		5.130					
85 p-Phenylene diamine	108		5.167					9
86 4-Chloro-3-methylphenol	107	5.188	5.194	-0.006	84	620355	4.98	
94 Safrole, Total	162		5.328					
90 1,2,3,5-Tetrachlorobenzene	216		5.345					
87 2-Methylnaphthalene	142	5.359	5.360	-0.001	83	1030500	4.79	
88 1-Methylnaphthalene	142	5.445	5.445	0.0	80	963183	4.85	
89 Hexachlorocyclopentadiene	237	5.477	5.477	0.0	84	296560	4.92	
91 1,2,4,5-Tetrachlorobenzene	216	5.493	5.493	0.0	93	408431	4.94	
225 Isosafrole Peak 1	162		5.568					9
92 2,4,6-Trichlorophenol	196	5.578	5.579	-0.001	85	272505	4.79	
97 2,4-Toluene diamine	121		5.586					
99 1,2,3,4 -Tetrachlorobenzene	216		5.596					9
93 2,4,5-Trichlorophenol	196	5.610	5.616	-0.006	86	292631	4.83	
96 3,4-Dichloronitrobenzene	109		5.725					9
98 1,1'-Biphenyl	154	5.739	5.744	-0.005	95	1270653	4.89	
227 Isosafrole Peak 2	162		5.760					9
100 2-Chloronaphthalene	162	5.771	5.771	0.0	97	930074	4.84	
101 Phenyl ether	170		5.773					9
102 2-Nitroaniline	65	5.840	5.841	0.0	71	514798	5.07	
108 1,2-Dinitrobenzene	168		5.944					
103 1,4-Naphthoquinone	158		5.974					9
105 Dimethyl phthalate	163	5.974	5.979	-0.005	93	1070437	4.92	
104 1,4-Dinitrobenzene	168		6.017					
106 1,3-Dinitrobenzene	168	6.016	6.017	-0.001	79	178721	4.88	
107 2,6-Dinitrotoluene	165	6.038	6.038	0.0	72	248292	5.05	
109 Acenaphthylene	152	6.123	6.124	-0.001	92	1532381	5.06	
110 3-Nitroaniline	138	6.182	6.188	-0.006	85	292486	4.97	
112 Acenaphthene	153	6.268	6.268	0.0	90	942474	4.97	
111 2,4-Dinitrophenol	184	6.268	6.273	-0.005	73	318626	9.29	
113 4-Nitrophenol	109	6.294	6.300	-0.006	85	458213	10.1	
114 2,4-Dinitrotoluene	165	6.374	6.380	-0.006	73	333303	5.12	
116 Dibenzofuran	168	6.406	6.412	-0.006	85	1316676	4.92	
115 Pentachlorobenzene	250		6.433					
119 2,3,4,6-Tetrachlorophenol	232	6.497	6.498	-0.001	79	242513	4.96	
118 2,3,5,6-Tetrachlorophenol	232	6.497	6.524	-0.027	82	242513	4.72	
117 1-Naphthylamine	143		6.535					
121 Diethyl phthalate	149	6.561	6.567	-0.006	94	1038141	4.89	
120 2-Naphthylamine	143		6.604					9
127 Tributyl phosphate	99		6.615					9
123 4-Chlorophenyl phenyl ether	204	6.684	6.685	-0.001	94	506453	4.91	
122 Thionazin	97		6.695					
126 Fluorene	166	6.700	6.701	-0.001	74	1064637	4.89	
125 4-Nitroaniline	138	6.700	6.706	-0.006	67	294571	5.01	
128 4,6-Dinitro-2-methylphenol	198	6.716	6.722	-0.006	64	431256	10.2	
124 N-Nitro-o-toluidine	152		6.759					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
131 N-Nitrosodiphenylamine	169	6.780	6.781	-0.001	97	1395183	9.57	
132 1,2-Diphenylhydrazine	77	6.818	6.818	0.0	100	2166764	5.44	
133 Azobenzene	77	6.818	6.818	0.0	94	2173848	5.46	
130 Diphenylamine	169		6.839					
134 Sulfotepp	202		6.941					
135 1,3,5-Trinitrobenzene	213		7.042					9
228 Diallate Peak 1	86		7.069					
137 Phenacetin	108		7.085					
138 Phorate	121		7.085					9
139 4-Bromophenyl phenyl ether	248	7.101	7.101	0.0	72	269997	5.00	
230 Diallate Peak 2	86		7.149					9
141 Hexachlorobenzene	284	7.160	7.160	0.0	89	246991	4.67	
142 Atrazine	200	7.208	7.213	-0.005	81	630058	10.6	
140 Dimethoate	87		7.235					
143 Pentachlorophenol	266	7.320	7.320	0.0	89	310829	9.91	
129 4-Aminobiphenyl	169		7.379					9
145 Pentachloronitrobenzene	237		7.390					9
144 Pronamide	173		7.400					
147 Dinoseb	211		7.512					
148 Phenanthrene	178	7.518	7.518	0.0	97	1565296	4.82	
146 Disulfoton	88		7.523					9
149 Anthracene	178	7.560	7.561	-0.001	98	1614603	5.01	
153 Diphenylsulfone	125		7.616					9
151 Carbazole	167	7.683	7.684	-0.001	83	1464315	4.93	
150 DFTPP								
152 Methyl parathion	109		7.844					9
154 Di-n-butyl phthalate	149	7.934	7.935	-0.001	99	1813736	5.16	
155 Ethyl Parathion	97		8.164					
156 4-Nitroquinoline-1-oxide	190		8.228					
157 Methapyrilene	58		8.266					
158 Isodrin	66		8.463					9
159 Fluoranthene	202	8.522	8.522	0.0	99	1685332	4.91	
160 Benzidine	184	8.618	8.618	0.0	98	1729767	11.8	
161 Pyrene	202	8.720	8.725	-0.005	94	1756108	4.94	
166 4,4'-DDE	246		8.763					9
226 Aramite Peak 1	185		8.843					9
229 Aramite Peak 2	185		8.901					
163 p-Dimethylamino azobenzene	225		9.003					
164 Chlorobenzilate	139		9.024					
165 4,4'-DDD	235		9.078					
176 Hexabromobenzene	232		9.208					
168 Butyl benzyl phthalate	149	9.211	9.211	0.0	86	756165	4.75	
167 Famphur	218		9.238					
169 3,3'-Dimethylbenzidine	212		9.286					9
170 4,4'-DDT	235		9.308					
172 3,3'-Dimethoxybenzidine	244		9.491					9
171 2-Acetylaminofluorene	181		9.505					9
173 Bis(2-ethylhexyl) phthalate	149	9.670	9.671	-0.001	92	1054509	4.66	
175 3,3'-Dichlorobenzidine	252	9.681	9.687	-0.006	71	1102489	9.78	
177 Benzo[a]anthracene	228	9.724	9.724	0.0	100	1589501	4.61	
174 4,4'-Methylene bis(2-chloroanili	231		9.745					
178 Chrysene	228	9.756	9.762	-0.006	93	1550370	4.89	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
179 6-Methylchrysene	242		10.248					
180 Di-n-octyl phthalate	149	10.253	10.248	0.005	99	1781587	5.06	
182 Benzo[b]fluoranthene	252	10.776	10.782	-0.006	93	1386989	4.74	
183 Benzo[k]fluoranthene	252	10.808	10.814	-0.006	98	1461791	4.76	
181 7,12-Dimethylbenz(a)anthracene	256		10.857					
184 Benzo[a]pyrene	252	11.177	11.183	-0.006	80	1301752	4.79	
185 3-Methylcholanthrene	268		11.765					
186 Dibenz[a,j]acridine	279		11.804					
187 Dibenz[a,h]acridine	279		12.636					
188 Indeno[1,2,3-cd]pyrene	276	12.876	12.887	-0.011	95	1362981	4.76	
189 Dibenz(a,h)anthracene	278	12.897	12.908	-0.011	79	1140487	4.80	
190 Benzo[g,h,i]perylene	276	13.383	13.394	-0.011	90	1141127	4.85	
S 191 Methyl Phenols,Total	100				0		9.91	
S 245 Total Cresols	100				0		9.91	
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 234 2-Isopropylphenol TIC	121		4.500					
T 235 4-isopropylphenol TIC	121		4.700					
T 236 3-isopropylphenol TIC	121		4.700					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		5.000					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 231 2,3,7,8-TCDD	322		9.600					1
T 192 Octadecane (TIC)	254		9.600					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 196 Kepone TIC	272		12.500					
T 197 Hexachlorophene TIC	198		13.000					3

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

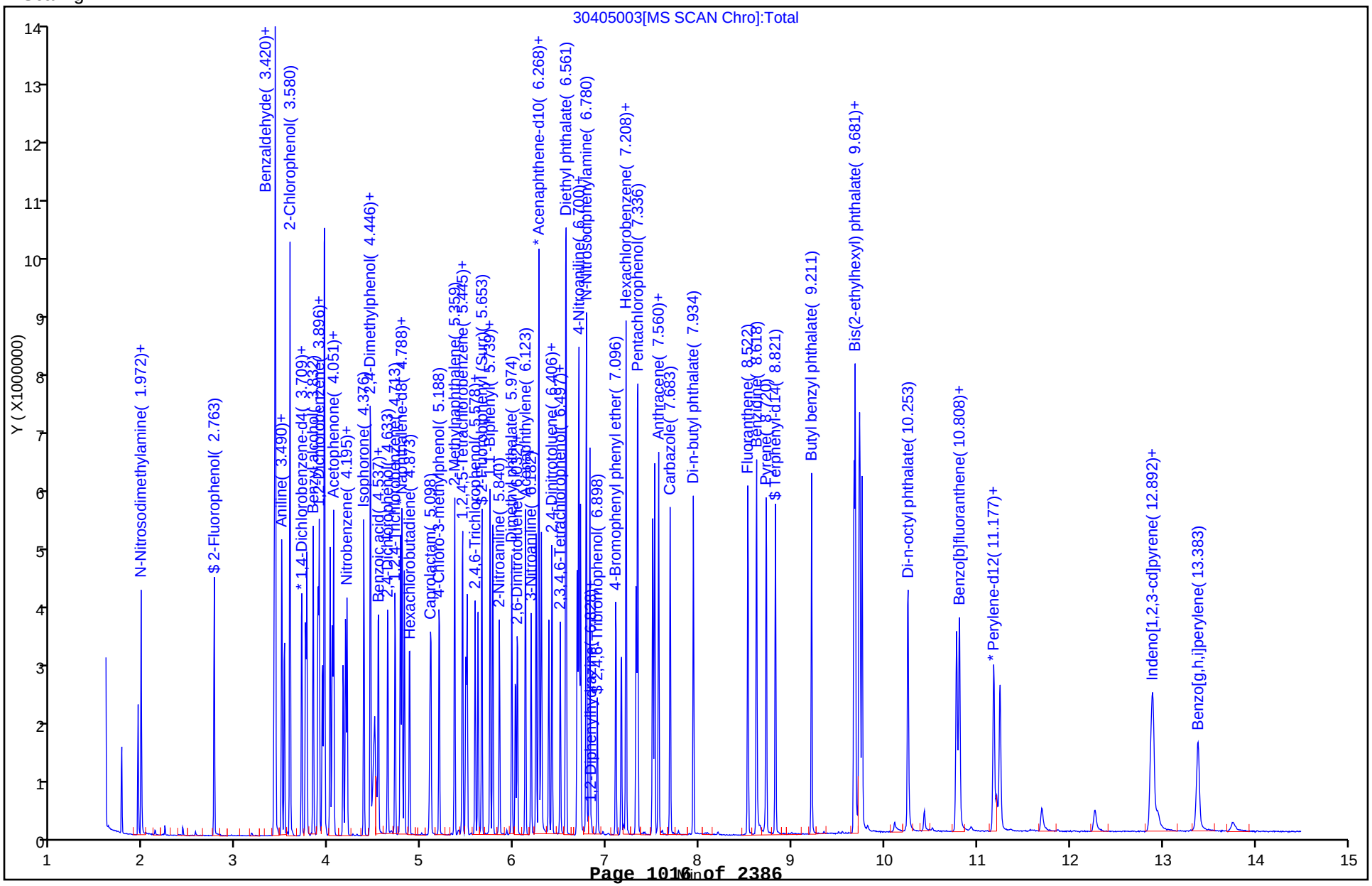
Report Date: 08-Apr-2013 14:03:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405003.D

Injection Date:	05-Apr-2013 11:46:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80755/16

Matrix: Solid | Lab File ID: 30405016.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/05/2013 16:27

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.83		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	4.91		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.02		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.75		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	4.75		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	4.60		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	4.92		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	8.55	M	0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	4.76		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	4.57		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	4.94		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.91		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	4.66		1.0	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.00		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.99		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	5.06		0.0010	0.00080	0.00080
86-74-8	Carbazole	4.92		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	4.82		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.93		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	4.74		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	4.84		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	5.03		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.90		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	4.92		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.90		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	4.83		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	4.91		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	4.95		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	10.3		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	5.00		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	4.97		0.0010	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	4.98		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	4.91		0.0010	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	5.27		0.0010	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80755/16

Matrix: Solid | Lab File ID: 30405016.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/05/2013 16:27

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	7.98		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	6.29	^	0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	4.88		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	4.96		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	5.24		0.0010	0.00080	0.00080
206-44-0	Fluoranthene	5.01		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.96		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.80		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	5.14		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	3.37	^	0.010	0.00080	0.00080
67-72-1	Hexachloroethane	4.52		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	4.82		0.00020	0.00010	0.00010
78-59-1	Isophorone	5.01		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.87		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	4.83		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	4.67		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.99		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	4.80		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	4.90		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	4.94		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	4.80		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.73		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	9.47		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	4.77		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	10.6		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	10.6		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	4.84		0.00020	0.00010	0.00010
108-95-2	Phenol	4.87		0.0010	0.00080	0.00060
129-00-0	Pyrene	4.93		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	5.04		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	4.93		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	4.85		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80755/16

Matrix: Solid | Lab File ID: 30405016.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/05/2013 16:27

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80755 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	94		50-150
367-12-4	2-Fluorophenol (Surr)	94		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	90		50-150
4165-62-2	Phenol-d5 (Surr)	92		50-150
1718-51-0	Terphenyl-d14 (Surr)	92		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	106		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405016.D		
Lims ID:	mrl qccl	Client ID:	
Inject. Date:	05-Apr-2013 16:27:30	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018588-016		
Misc. Info.:	QCMRLCL =QCMRLCL		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	80755	Lims Sample ID:	16
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\8270 _9.m		
Last Update:	08-Apr-2013 14:03:13	Calib Date:	04-Apr-2013 18:19:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130404-18548.b\30403019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK007		
First Level Reviewer: ulmanm		Date:	08-Apr-2013 09:37:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.746	3.746	0.0	92	358992	4.00	
* 2 Naphthalene-d8	136	4.772	4.772	0.0	99	1545176	4.00	
* 3 Acenaphthene-d10	164	6.236	6.236	0.0	78	892143	4.00	
* 4 Phenanthrene-d10	188	7.497	7.497	0.0	92	1542063	4.00	
* 5 Chrysene-d12	240	9.735	9.735	0.0	78	1603989	4.00	
* 6 Perylene-d12	264	11.252	11.247	0.005	96	1341259	4.00	
$ 7 2-Fluorophenol	112	2.764	2.763	0.001	95	760234	4.69	
$ 8 Phenol-d5	99	3.410	3.415	-0.005	91	1064527	4.62	
$ 9 Nitrobenzene-d5	82	4.179	4.184	-0.005	84	1072294	4.49	
$ 10 2-Fluorobiphenyl (Surr)	172	5.654	5.654	0.0	99	1269183	4.69	
$ 11 2,4,6-Tribromophenol	330	6.898	6.904	-0.006	80	149926	5.31	
$ 12 Terphenyl-d14	244	8.821	8.821	0.0	98	1450157	4.58	
16 2,3-Dichlorophenol	1		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
20 Dimethylformamide	1		0.000					
19 Octachlorostyrene	1		0.000					
247 Hexadecane	57		0.000					
13 Octachlorocyclopentene	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
248 2,3,7,8 TCDF TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
25 1,4-Dioxane	88	1.759	1.759	0.0	91	371114	4.80	
26 N-Nitrosodimethylamine	74	1.941	1.941	0.0	86	655018	4.65	
27 Pyridine	79	1.973	1.967	0.006	94	1024614	4.58	
28 Ethyl methacrylate	69		2.103					
29 3-Chloropropionitrile	54		2.284					
33 Malononitrile	66		2.439					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
31 2-Picoline	93		2.475					9
32 N-Nitrosomethylethylamine	88		2.534					9
30 3-Picoline	93		2.646					9
233 n,n'-Dimethylacetamide	44		2.652					
35 Acrylamide	71		2.705					
34 Methyl methanesulfonate	80		2.731					9
36 N-Nitrosodiethylamine	102		3.009					
37 Ethyl methanesulfonate	79		3.207					9
38 2-Methylcyclohexanone	68		3.239					
39 3-Methylcyclohexanone	69		3.266					
40 4-Methylcyclohexanone	55		3.303					
43 Phenol	94	3.426	3.426	0.0	76	1103313	4.87	
41 Benzaldehyde	77	3.426	3.426	0.0	87	1789809	10.6	
44 Aniline	93	3.490	3.495	-0.005	97	1434820	4.65	
69 Bis(2-chloroethyl)ether	93	3.522	3.522	0.0	94	1011643	4.91	
46 2-Chlorophenol	128	3.581	3.586	-0.005	85	593446	4.84	
42 Phenylmercaptan	110		3.596					9
45 Pentachloroethane	167		3.597					
47 1,3-Dichlorobenzene	146	3.709	3.709	0.0	88	618514	4.91	
232 1-Methyl-2-pyrrilidinone	99		3.751					
48 1,4-Dichlorobenzene	146	3.763	3.762	0.0	76	633967	4.95	
49 Benzyl alcohol	108	3.832	3.832	0.0	84	492186	4.57	
50 1,2-Dichlorobenzene	146	3.885	3.885	0.0	88	583931	4.83	
51 2-Methylphenol	108	3.896	3.896	0.0	90	720805	4.83	
53 2,2'-oxybis[1-chloropropane]	45	3.933	3.933	0.0	94	992562	4.66	
52 Indene	115	3.955	3.955	0.0	69	2604322	10.5	
21 3 & 4 Methylphenol	108	4.014	4.019	-0.005	92	734255	4.67	
57 N-Nitrosodi-n-propylamine	70	4.035	4.040	-0.005	69	797121	4.77	
58 Acetophenone	105	4.051	4.056	-0.005	74	1133246	4.71	
56 N-Nitrosopyrrolidine	100		4.099					
59 N-Nitrosomorpholine	56		4.126					
60 2-Toluidine	106		4.142					
61 Hexachloroethane	117	4.152	4.152	0.0	89	283001	4.52	
62 Nitrobenzene	77	4.195	4.200	-0.005	75	1096207	4.80	
67 1,3,5-Trichlorobenzene	180		4.330					
63 N-Nitrosopiperidine	114		4.382					
64 Isophorone	82	4.377	4.382	-0.005	95	1930778	5.01	
66 2-Nitrophenol	139	4.452	4.452	0.0	71	295624	4.73	
65 2,4-Dimethylphenol	107	4.452	4.452	0.0	92	765912	4.98	
71 Benzoic acid	122	4.494	4.521	-0.027	81	694262	8.55	M
70 Bis(2-chloroethoxy)methane	93	4.532	4.537	-0.005	97	1102425	4.94	
68 o,o',o''-Triethylphosphorothioat	198		4.558					
24 Catechol	110		4.592					
73 2,4-Dichlorophenol	162	4.639	4.639	0.0	94	465550	5.00	
72 alpha,alpha-Dimethyl phenethylam	58		4.676					9
74 1,2,4-Trichlorobenzene	180	4.713	4.713	0.0	85	506004	5.04	
80 1,2,3-Trichlorobenzene	180	4.713	4.774	-0.061	86	506004	0	
75 Naphthalene	128	4.788	4.793	-0.005	96	1823624	4.99	
76 4-Chloroaniline	127	4.815	4.815	0.0	78	761170	4.82	
79 Hexachlorobutadiene	225	4.874	4.874	0.0	92	290955	5.14	
246 1-Chloronaphthalene	162		4.884					9
77 2,6-Dichlorophenol	162		4.884					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
15 3-Methylcatechol	124		4.913					9
78 Hexachloropropene	213		4.916					
14 4-Methylcatechol	124		5.036					9
81 Benzothiazole	135		5.046					9
82 Quinoline	129		5.125					9
84 Caprolactam	113	5.109	5.125	-0.016	80	466644	9.56	
83 N-Nitrosodi-n-butylamine	84		5.130					
85 p-Phenylene diamine	108		5.167					9
86 4-Chloro-3-methylphenol	107	5.194	5.194	0.0	86	676272	4.93	
94 Safrole, Total	162		5.328					
90 1,2,3,5-Tetrachlorobenzene	216		5.345					
87 2-Methylnaphthalene	142	5.360	5.360	0.0	86	1155299	4.87	
88 1-Methylnaphthalene	142	5.445	5.445	0.0	79	1080491	4.93	
89 Hexachlorocyclopentadiene	237	5.477	5.477	0.0	84	234856	3.37	
91 1,2,4,5-Tetrachlorobenzene	216	5.493	5.493	0.0	91	469377	4.91	
225 Isosafrole Peak 1	162		5.568					9
92 2,4,6-Trichlorophenol	196	5.579	5.579	0.0	88	319672	4.85	
97 2,4-Toluene diamine	121		5.586					
99 1,2,3,4 -Tetrachlorobenzene	216		5.596					9
93 2,4,5-Trichlorophenol	196	5.611	5.616	-0.005	85	345208	4.93	
96 3,4-Dichloronitrobenzene	109		5.725					
98 1,1'-Biphenyl	154	5.739	5.744	-0.005	95	1451611	4.83	
227 Isosafrole Peak 2	162		5.760					
100 2-Chloronaphthalene	162	5.771	5.771	0.0	98	1054066	4.74	
101 Phenyl ether	170		5.773					
102 2-Nitroaniline	65	5.841	5.841	0.001	70	563788	4.80	
108 1,2-Dinitrobenzene	168		5.944					
103 1,4-Naphthoquinone	158		5.974					9
105 Dimethyl phthalate	163	5.974	5.979	-0.005	93	1235112	4.91	
104 1,4-Dinitrobenzene	168		6.017					
106 1,3-Dinitrobenzene	168	6.017	6.017	0.0	80	194567	4.59	
107 2,6-Dinitrotoluene	165	6.038	6.038	0.0	63	282557	4.96	
109 Acenaphthylene	152	6.124	6.124	0.0	93	1720262	4.91	
110 3-Nitroaniline	138	6.188	6.188	0.0	88	333389	4.90	
112 Acenaphthene	153	6.263	6.268	-0.005	89	1060992	4.83	
111 2,4-Dinitrophenol	184	6.268	6.273	-0.005	65	242482	6.29	
113 4-Nitrophenol	109	6.295	6.300	-0.005	85	496748	9.47	
114 2,4-Dinitrotoluene	165	6.375	6.380	-0.005	72	367714	4.88	
116 Dibenzofuran	168	6.407	6.412	-0.005	85	1517714	4.90	
115 Pentachlorobenzene	250		6.433					
119 2,3,4,6-Tetrachlorophenol	232	6.498	6.498	0.0	80	286961	5.08	
118 2,3,5,6-Tetrachlorophenol	232	6.498	6.524	-0.026	88	286961	4.82	
117 1-Naphthylamine	143		6.535					
121 Diethyl phthalate	149	6.562	6.567	-0.005	93	1220206	4.97	
120 2-Naphthylamine	143		6.604					
127 Tributyl phosphate	99		6.615					9
123 4-Chlorophenyl phenyl ether	204	6.679	6.685	-0.006	94	599574	5.03	
122 Thionazin	97		6.695					
126 Fluorene	166	6.701	6.701	0.0	71	1249442	4.96	
125 4-Nitroaniline	138	6.701	6.706	-0.005	61	336208	4.94	
128 4,6-Dinitro-2-methylphenol	198	6.717	6.722	-0.005	60	399160	7.98	
124 N-Nitro-o-toluidine	152		6.759					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
131 N-Nitrosodiphenylamine	169	6.781	6.781	0.0	99	1835964	10.6	
132 1,2-Diphenylhydrazine	77	6.818	6.818	0.0	99	2388398	5.07	
133 Azobenzene	77	6.818	6.818	0.0	94	2388470	5.07	
130 Diphenylamine	169		6.839					
134 Sulfotepp	202		6.941					
135 1,3,5-Trinitrobenzene	213		7.042					9
228 Diallate Peak 1	86		7.069					9
137 Phenacetin	108		7.085					9
138 Phorate	121		7.085					9
139 4-Bromophenyl phenyl ether	248	7.101	7.101	0.0	73	318497	4.99	
230 Diallate Peak 2	86		7.149					9
141 Hexachlorobenzene	284	7.160	7.160	0.0	86	299782	4.80	
142 Atrazine	200	7.214	7.213	0.001	85	739229	10.5	
140 Dimethoate	87		7.235					9
143 Pentachlorophenol	266	7.320	7.320	0.0	80	394249	10.6	
129 4-Aminobiphenyl	169		7.379					9
145 Pentachloronitrobenzene	237		7.390					9
144 Pronamide	173		7.400					
147 Dinoseb	211		7.512					
148 Phenanthrene	178	7.518	7.518	0.0	97	1858724	4.84	
146 Disulfoton	88		7.523					9
149 Anthracene	178	7.561	7.561	0.0	87	1913558	5.02	
153 Diphenylsulfone	125		7.616					
151 Carbazole	167	7.684	7.684	0.0	83	1728269	4.92	
150 DFTPP								
152 Methyl parathion	109		7.844					
154 Di-n-butyl phthalate	149	7.935	7.935	0.0	99	2188743	5.27	
155 Ethyl Parathion	97		8.164					
156 4-Nitroquinoline-1-oxide	190		8.228					9
157 Methapyrilene	58		8.266					
158 Isodrin	66		8.463					
159 Fluoranthene	202	8.522	8.522	0.0	99	2033886	5.01	
160 Benzidine	184	8.618	8.618	0.0	98	2128321	12.2	
161 Pyrene	202	8.725	8.725	0.0	94	2087369	4.93	
166 4,4'-DDE	246		8.763					9
226 Aramite Peak 1	185		8.843					
229 Aramite Peak 2	185		8.901					
163 p-Dimethylamino azobenzene	225		9.003					
164 Chlorobenzilate	139		9.024					
165 4,4'-DDD	235		9.078					
176 Hexabromobenzene	232		9.208					
168 Butyl benzyl phthalate	149	9.211	9.211	0.0	88	959599	5.06	
167 Famphur	218		9.238					
169 3,3'-Dimethylbenzidine	212		9.286					9
170 4,4'-DDT	235		9.308					
172 3,3'-Dimethoxybenzidine	244		9.491					9
171 2-Acetylaminofluorene	181		9.505					
173 Bis(2-ethylhexyl) phthalate	149	9.671	9.671	0.0	94	1355253	5.00	
175 3,3'-Dichlorobenzidine	252	9.682	9.687	-0.005	69	1387910	10.3	
177 Benzo[a]anthracene	228	9.724	9.724	0.0	89	1955301	4.75	
174 4,4'-Methylene bis(2-chloroanili	231		9.745					
178 Chrysene	228	9.756	9.762	-0.006	93	1854271	4.90	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
179 6-Methylchrysene	242		10.248					
180 Di-n-octyl phthalate	149	10.248	10.248	0.0	99	2413677	5.24	
182 Benzo[b]fluoranthene	252	10.782	10.782	0.0	97	1759555	4.60	
183 Benzo[k]fluoranthene	252	10.809	10.814	-0.005	86	1908036	4.76	
181 7,12-Dimethylbenz(a)anthracene	256		10.857					
184 Benzo[a]pyrene	252	11.183	11.183	0.0	78	1686516	4.75	
185 3-Methylcholanthrene	268		11.765					9
186 Dibenz[a,j]acridine	279		11.804					
187 Dibenz[a,h]acridine	279		12.636					
188 Indeno[1,2,3-cd]pyrene	276	12.887	12.887	0.0	90	1803918	4.82	
189 Dibenz(a,h)anthracene	278	12.903	12.908	-0.005	87	1527748	4.92	
190 Benzo[g,h,i]perylene	276	13.394	13.394	0.0	89	1512286	4.92	
S 191 Methyl Phenols,Total	100				0		9.50	
S 245 Total Cresols	100				0		9.50	
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 234 2-Isopropylphenol TIC	121		4.500					
T 235 4-isopropylphenol TIC	121		4.700					
T 236 3-isopropylphenol TIC	121		4.700					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		5.000					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 231 2,3,7,8-TCDD	322		9.600					
T 192 Octadecane (TIC)	254		9.600					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 196 Kepone TIC	272		12.500					
T 197 Hexachlorophene TIC	198		13.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

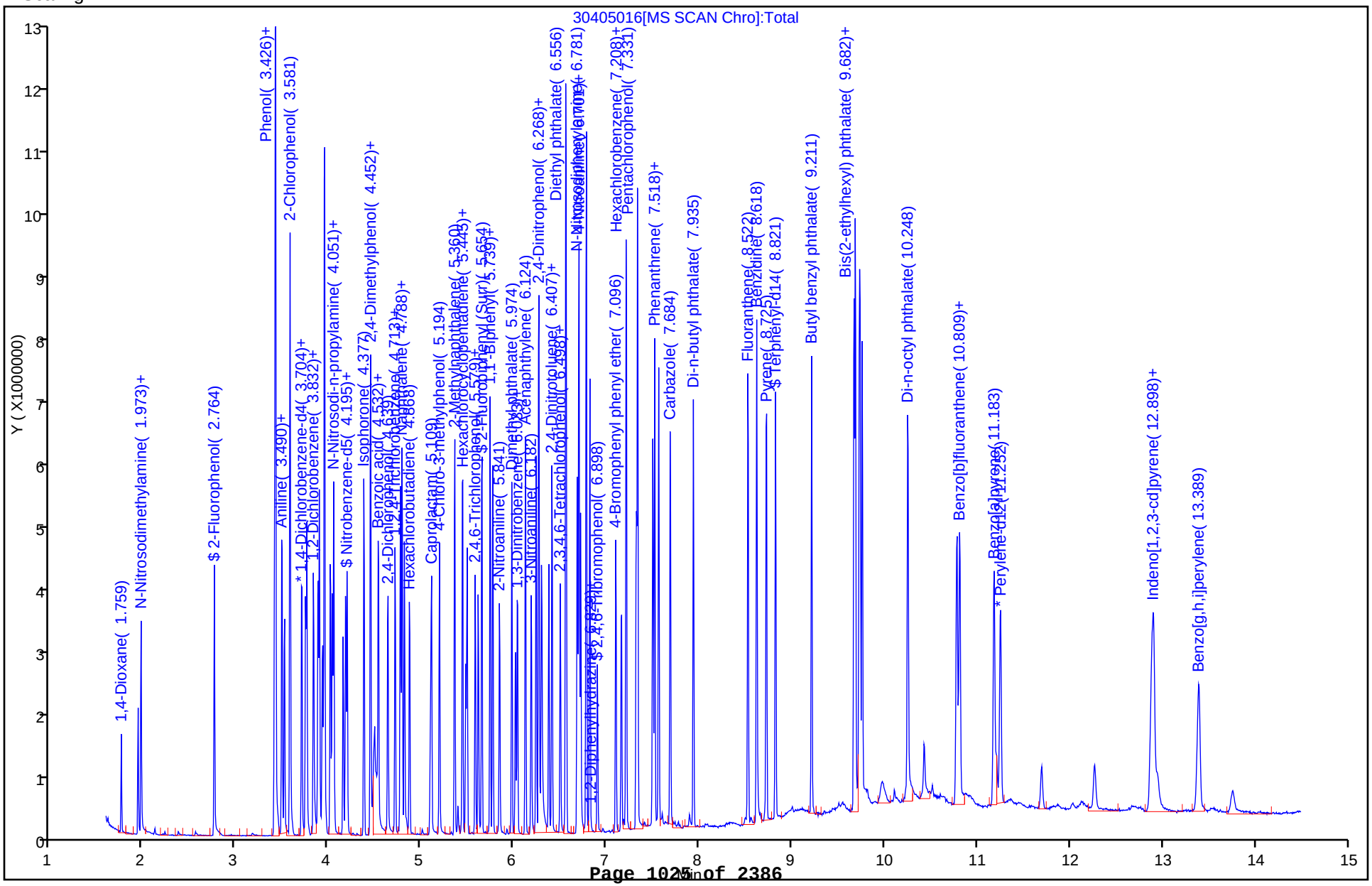
Report Date: 08-Apr-2013 14:03:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405016.D

Injection Date:	05-Apr-2013 16:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	16
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Report Date: 08-Apr-2013 14:03:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Manual Integration/User Assign Peak Report

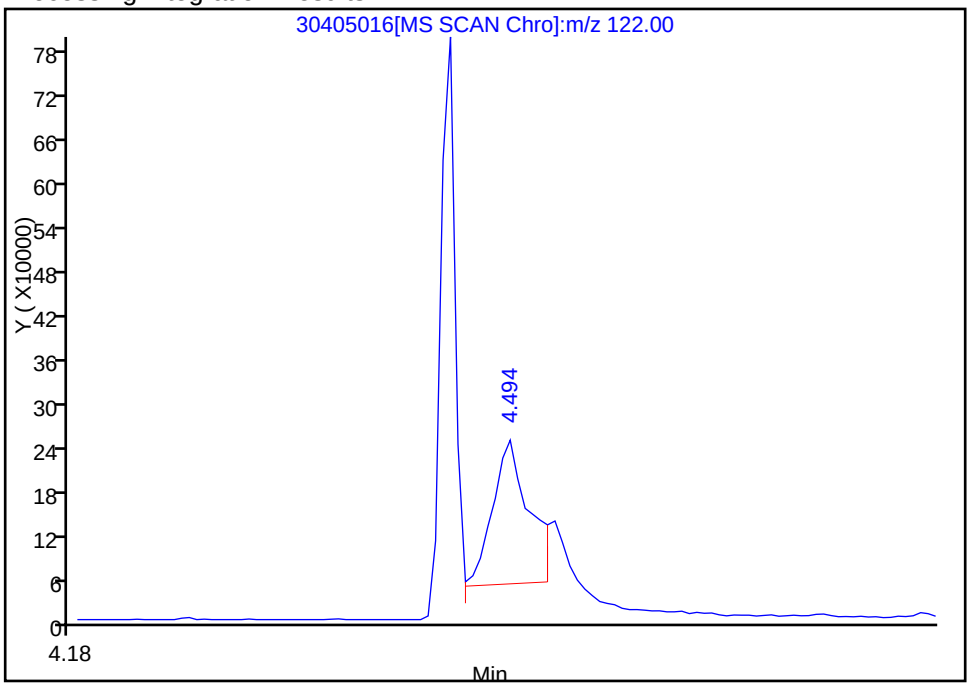
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130405-18588.b\30405016.D		
Injection Date:	05-Apr-2013 16:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	80755	Lims Sample ID:	16
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 4.52

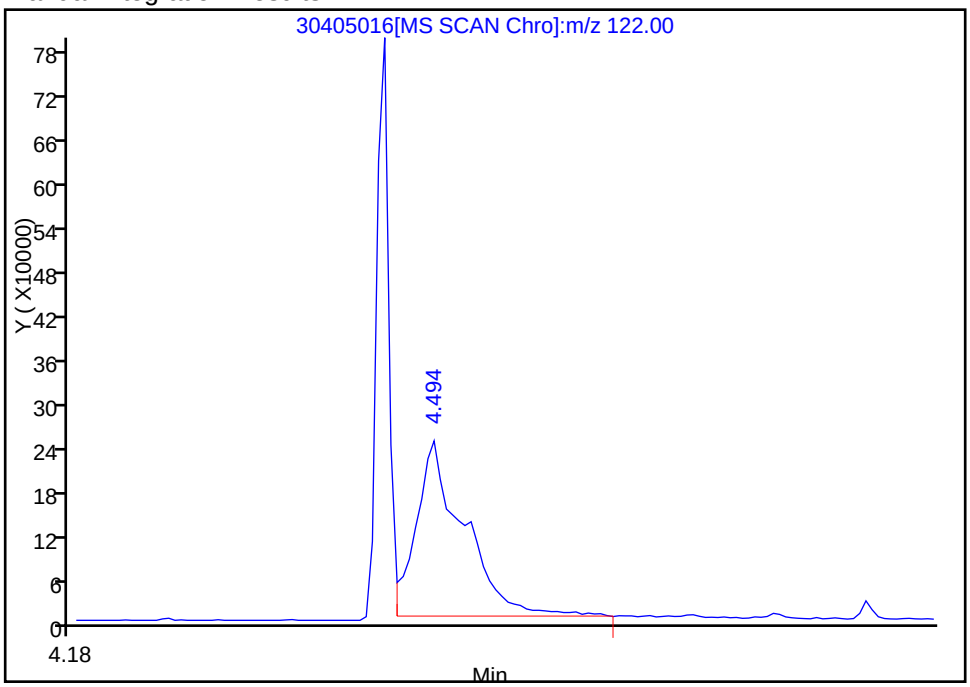
Processing Integration Results

RT: 4.49
Response: 360038
Amount: 5.005299



Manual Integration Results

RT: 4.49
Response: 694262
Amount: 8.550289



Reviewer: ulmanm, 08-Apr-2013 10:42:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A4HP9 Start Date: 04/04/2013 12:03

Analysis Batch Number: 80575 End Date: 04/04/2013 18:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-80575/1		04/04/2013 12:03	1	30404001.D	RXI-5SILMS 0.45(mm)
STD5 240-80575/2 IC		04/04/2013 12:21	1	30404002.D	RXI-5SILMS 0.45(mm)
STD4 240-80575/3 IC		04/04/2013 12:47	1	30403003.D	RXI-5SILMS 0.45(mm)
STD3 240-80575/4 IC		04/04/2013 13:07	1	30403004.D	RXI-5SILMS 0.45(mm)
STD2 240-80575/5 IC		04/04/2013 13:27	1	30403005.D	RXI-5SILMS 0.45(mm)
STD1 240-80575/6 IC		04/04/2013 13:48	1	30403006.D	RXI-5SILMS 0.45(mm)
STD9 240-80575/7 IC		04/04/2013 14:08	1	30403007.D	RXI-5SILMS 0.45(mm)
STD8 240-80575/8 IC		04/04/2013 14:28	1	30403008.D	RXI-5SILMS 0.45(mm)
STD7 240-80575/9 IC		04/04/2013 14:49	1	30403009.D	RXI-5SILMS 0.45(mm)
STD6 240-80575/10 ICIS		04/04/2013 15:09	1	30403010.D	RXI-5SILMS 0.45(mm)
ICV 240-80575/11		04/04/2013 15:36	1	30403011.D	RXI-5SILMS 0.45(mm)
STD5 240-80575/12 IC		04/04/2013 15:56	1		RXI-5SILMS 0.45(mm)
STD4 240-80575/13 IC		04/04/2013 16:17	1		RXI-5SILMS 0.45(mm)
STD3 240-80575/14 IC		04/04/2013 16:37	1		RXI-5SILMS 0.45(mm)
STD2 240-80575/15 IC		04/04/2013 16:57	1		RXI-5SILMS 0.45(mm)
STD6 240-80575/16 IC		04/04/2013 17:18	1		RXI-5SILMS 0.45(mm)
STD7 240-80575/17 IC		04/04/2013 17:38	1		RXI-5SILMS 0.45(mm)
STD8 240-80575/18 IC		04/04/2013 17:59	1		RXI-5SILMS 0.45(mm)
STD9 240-80575/19 IC		04/04/2013 18:19	1		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A4HP9 Start Date: 04/05/2013 11:04

Analysis Batch Number: 80755 End Date: 04/05/2013 17:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-80755/1		04/05/2013 11:04	1	30405001.D	RXI-5SILMS 0.45(mm)
CCV 240-80755/2		04/05/2013 11:22	1	30405002.D	RXI-5SILMS 0.45(mm)
MRL 240-80755/3		04/05/2013 11:46	1	30405003.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 12:23	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 12:43	1		RXI-5SILMS 0.45(mm)
MB 240-80284/23-A		04/05/2013 13:03	1	30405006.D	RXI-5SILMS 0.45(mm)
LCS 240-80284/24-A		04/05/2013 13:24	1	30405007.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 13:44	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 14:04	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 14:25	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 14:45	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 15:05	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 15:26	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/05/2013 15:46	1		RXI-5SILMS 0.45(mm)
240-22274-2	079SD-0309-0001-SD	04/05/2013 16:06	1	30405015.D	RXI-5SILMS 0.45(mm)
MRL 240-80755/16		04/05/2013 16:27	1	30405016.D	RXI-5SILMS 0.45(mm)
mdll1 LODV		04/05/2013 16:47	1	30405017.D	RXI-5SILMS 0.45(mm)
mdll2 LODV		04/05/2013 17:07	1	30405018.D	RXI-5SILMS 0.45(mm)
mdll3 LODV		04/05/2013 17:28	1	30405019.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80284 Batch Start Date: 04/02/13 15:10 Batch Analyst: Moore, Matthew

Batch Method: 3540C Batch End Date: 04/03/15 07:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXBNALCS1 00035	EXBNASURRW 00024		
240-22274-E-2	079SD-0309-0001-SD	3540C, 8270C/DoD	T	30.15 g	2 mL		1 mL		
MB 240-80284/23		3540C, 8270C/DoD		30.00 g	2 mL		1 mL		
LCS 240-80284/24		3540C, 8270C/DoD		30.00 g	2 mL	1 mL	1 mL		

Batch Notes	
Balance ID	B036
Na2SO4 Lot Number	857442
Prep Solvent Lot #	908882

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8081 DOD

Organochlorine Pesticides (GC) by Method 8081A/DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-80447/15	104	104	107	116
	MRL 240-80447/26	111	107	111	116

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8081/DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079SD-0309-0001-SD	240-22274-2	117	119	100	92
	MB 240-80060/15-A	106	200 Q	88	91
	LCS 240-80060/16-A	90	215 Q	98	91
079SD-0309-0001-SD MS	240-22274-2 MS	126 Q	106	148 Q	97
079SD-0309-0001-SD MSD	240-22274-2 MSD	95	113	80	73

	QC LIMITS
TCX = Tetrachloro-m-xylene	70-125
DCB = DCB Decachlorobiphenyl	55-130

Column to be used to flag recovery values

FORM II 8081/DOD

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P9040321.D

Lab ID: LCS 240-80060/16-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	33.3	35.7	107	30-135	
4,4'-DDE	33.3	27.5	82	70-125	
4,4'-DDT	33.3	25.2	76	45-140	
Aldrin	33.3	29.0	87	45-140	
alpha-BHC	33.3	28.3	85	60-125	
alpha-Chlordane	33.3	24.5	74	65-120	
beta-BHC	33.3	26.6	80	60-125	
delta-BHC	33.3	30.7	92	55-130	
Dieldrin	33.3	28.1	84	65-125	
Endosulfan I	33.3	25.7	77	15-135	
Endosulfan II	33.3	21.6	65	35-140	
Endosulfan sulfate	33.3	26.9	81	60-135	
Endrin	33.3	24.6	74	60-135	
Endrin aldehyde	33.3	27.7	83	35-145	
Endrin ketone	33.3	24.8	74	65-135	
gamma-BHC (Lindane)	33.3	25.8	77	60-125	
gamma-Chlordane	33.3	27.7	83	65-125	
Heptachlor	33.3	21.7	65	50-140	
Heptachlor epoxide	33.3	28.3	85	65-130	
Methoxychlor	33.3	27.7	83	55-145	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P9040315.D

Lab ID: MRL 240-80447/15 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	0.00500	0.00382 J	76	70-130	
4,4'-DDD	0.00500	0.00367 J	73	70-130	
4,4'-DDE	0.00500	0.00438 J	88	70-130	
4,4'-DDE	0.00500	0.00468 J	94	70-130	
4,4'-DDT	0.00500	0.00453 J	91	70-130	
4,4'-DDT	0.00500	0.00474 J	95	70-130	
Aldrin	0.00500	0.00500	100	70-130	
Aldrin	0.00500	0.00476 J	95	70-130	
alpha-BHC	0.00500	0.00485 J	97	70-130	
alpha-BHC	0.00500	0.00459 J	92	70-130	
alpha-Chlordane	0.00500	0.00498 J	100	70-130	
alpha-Chlordane	0.00500	0.00490 J	98	70-130	
beta-BHC	0.00500	0.00509	102	70-130	
beta-BHC	0.00500	0.00512	102	70-130	
delta-BHC	0.00500	0.00439 J	88	70-130	
delta-BHC	0.00500	0.00436 J	87	70-130	
Dieldrin	0.00500	0.00489 J	98	70-130	
Dieldrin	0.00500	0.00482 J	96	70-130	
Endosulfan I	0.00500	0.00513	103	70-130	
Endosulfan I	0.00500	0.00505	101	70-130	
Endosulfan II	0.00500	0.00552	110	70-130	
Endosulfan II	0.00500	0.00514	103	70-130	
Endosulfan sulfate	0.00500	0.00509	102	70-130	
Endosulfan sulfate	0.00500	0.00503	101	70-130	
Endrin	0.00500	0.00495 J	99	70-130	
Endrin	0.00500	0.00478 J	96	70-130	
Endrin aldehyde	0.00500	0.00497 J	99	70-130	
Endrin aldehyde	0.00500	0.00514	103	70-130	
Endrin ketone	0.00500	0.00521	104	70-130	
Endrin ketone	0.00500	0.00506	101	70-130	
gamma-BHC (Lindane)	0.00500	0.00491 J	98	70-130	
gamma-BHC (Lindane)	0.00500	0.00474 J	95	70-130	
gamma-Chlordane	0.00500	0.00486 J	97	70-130	
gamma-Chlordane	0.00500	0.00483 J	97	70-130	
Heptachlor	0.00500	0.00506	101	70-130	
Heptachlor	0.00500	0.00478 J	96	70-130	
Heptachlor epoxide	0.00500	0.00504	101	70-130	
Heptachlor epoxide	0.00500	0.00499 J	100	70-130	
Methoxychlor	0.00500	0.00494 J	99	70-130	
Methoxychlor	0.00500	0.00494 J	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P9040326.D

Lab ID: MRL 240-80447/26 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	0.00500	0.00578	116	70-130	
4,4'-DDD	0.00500	0.00592	118	70-130	
4,4'-DDE	0.00500	0.00513	103	70-130	
4,4'-DDE	0.00500	0.00540	108	70-130	
4,4'-DDT	0.00500	0.00519	104	70-130	
4,4'-DDT	0.00500	0.00541	108	70-130	
Aldrin	0.00500	0.00523	105	70-130	
Aldrin	0.00500	0.00502	100	70-130	
alpha-BHC	0.00500	0.00503	101	70-130	
alpha-BHC	0.00500	0.00490 J	98	70-130	
alpha-Chlordane	0.00500	0.00528	106	70-130	
alpha-Chlordane	0.00500	0.00525	105	70-130	
beta-BHC	0.00500	0.00548	110	70-130	
beta-BHC	0.00500	0.00576	115	70-130	
delta-BHC	0.00500	0.00507	101	70-130	
delta-BHC	0.00500	0.00510	102	70-130	
Dieldrin	0.00500	0.00514	103	70-130	
Dieldrin	0.00500	0.00502	100	70-130	
Endosulfan I	0.00500	0.00536	107	70-130	
Endosulfan I	0.00500	0.00522	104	70-130	
Endosulfan II	0.00500	0.00542	108	70-130	
Endosulfan II	0.00500	0.00532	106	70-130	
Endosulfan sulfate	0.00500	0.00547	109	70-130	
Endosulfan sulfate	0.00500	0.00566	113	70-130	
Endrin	0.00500	0.00526	105	70-130	
Endrin	0.00500	0.00518	104	70-130	
Endrin aldehyde	0.00500	0.00562	112	70-130	
Endrin aldehyde	0.00500	0.00540	108	70-130	
Endrin ketone	0.00500	0.00565	113	70-130	
Endrin ketone	0.00500	0.00577	115	70-130	
gamma-BHC (Lindane)	0.00500	0.00512	102	70-130	
gamma-BHC (Lindane)	0.00500	0.00511	102	70-130	
gamma-Chlordane	0.00500	0.00522	104	70-130	
gamma-Chlordane	0.00500	0.00519	104	70-130	
Heptachlor	0.00500	0.00536	107	70-130	
Heptachlor	0.00500	0.00516	103	70-130	
Heptachlor epoxide	0.00500	0.00532	106	70-130	
Heptachlor epoxide	0.00500	0.00527	105	70-130	
Methoxychlor	0.00500	0.00579 J	116	70-130	
Methoxychlor	0.00500	0.00593 J	119	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P9040318.D

Lab ID: 240-22274-2 MS Client ID: 079SD-0309-0001-SD MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
4,4'-DDD	45.9	1.8 U	64.9	141	30-135	J
4,4'-DDE	45.9	1.8 U	43.7	95	70-125	
4,4'-DDT	45.9	1.8 U	47.4	103	45-140	
Aldrin	45.9	3.6 U	41.4	90	45-140	
alpha-BHC	45.9	3.6 U	40.7	89	60-125	
alpha-Chlordane	45.9	3.6 U	36.4	79	65-120	
beta-BHC	45.9	3.6 U	43.7	95	60-125	
delta-BHC	45.9	3.6 U	32.5	71	55-130	
Dieldrin	45.9	1.8 U	40.5	88	65-125	
Endosulfan I	45.9	1.8 U	37.2	81	15-135	
Endosulfan II	45.9	3.6 U	31.9	69	35-140	
Endosulfan sulfate	45.9	3.6 U	41.3	90	60-135	
Endrin	45.9	1.8 U	37.2	81	60-135	
Endrin aldehyde	45.9	3.6 U	38.7	84	35-145	
Endrin ketone	45.9	1.8 U	41.7	91	65-135	
gamma-BHC (Lindane)	45.9	3.6 U	36.9	80	60-125	
gamma-Chlordane	45.9	1.8 U	41.3	90	65-125	
Heptachlor	45.9	3.6 U	34.8	76	50-140	
Heptachlor epoxide	45.9	3.6 U	40.3	88	65-130	
Methoxychlor	45.9	9.0 U	48.4	105	55-145	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P9040319.D

Lab ID: 240-22274-2 MSD Client ID: 079SD-0309-0001-SD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	45.6	56.1	123	16	30	30-135	
4,4'-DDE	45.6	36.9	81	17	30	70-125	
4,4'-DDT	45.6	40.3	88	16	30	45-140	
Aldrin	45.6	36.6	80	12	30	45-140	
alpha-BHC	45.6	35.1	77	15	30	60-125	
alpha-Chlordane	45.6	31.3	69	15	30	65-120	
beta-BHC	45.6	39.1	86	11	30	60-125	
delta-BHC	45.6	38.8	85	18	30	55-130	
Dieldrin	45.6	35.2	77	14	30	65-125	
Endosulfan I	45.6	33.4	73	11	30	15-135	
Endosulfan II	45.6	27.2	60	16	30	35-140	
Endosulfan sulfate	45.6	34.2	75	19	30	60-135	
Endrin	45.6	30.0	66	21	30	60-135	
Endrin aldehyde	45.6	33.5	74	15	30	35-145	
Endrin ketone	45.6	34.7	76	18	30	65-135	
gamma-BHC (Lindane)	45.6	31.8	70	15	30	60-125	
gamma-Chlordane	45.6	36.0	79	14	30	65-125	
Heptachlor	45.6	32.2	71	8	30	50-140	
Heptachlor epoxide	45.6	35.4	78	13	30	65-130	
Methoxychlor	45.6	40.8	90	17	30	55-145	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: MB 240-80060/15-A

Matrix: Solid Date Extracted: 04/01/2013 10:09

Lab File ID:(1) P9040320.D Lab File ID:(2) P9040320.D

Date Analyzed:(1) 04/04/2013 01:23 Date Analyzed:(2) 04/04/2013 01:23

Instrument ID:(1) A2HP9 Instrument ID:(2) A2HP9

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SD-0309-0001-SD	240-22274-2	04/03/2013 23:59	04/03/2013 23:59
079SD-0309-0001-SD MS	240-22274-2 MS	04/04/2013 00:27	04/04/2013 00:27
079SD-0309-0001-SD MSD	240-22274-2 MSD	04/04/2013 00:55	04/04/2013 00:55
	LCS 240-80060/16-A	04/04/2013 01:51	04/04/2013 01:51

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: STD 240-80447/7 Date Analyzed: 04/03/2013 19:20

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P9040307.D Heated Purge: (Y/N) N

Calibration ID: 14372

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.69	13.11	
UPPER LIMIT				3.72	13.14	
LOWER LIMIT				3.66	13.08	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-80447/7 ICRT		04/03/2013 19:20	P9040307.D	3.69	13.11	
240-22274-2	079SD-0309-0001-SD	04/03/2013 23:59	P9040317.D	3.69	13.10	
240-22274-2 MS	079SD-0309-0001-SD MS	04/04/2013 00:27	P9040318.D	3.69	13.10	
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/04/2013 00:55	P9040319.D	3.69	13.11	
MB 240-80060/15-A		04/04/2013 01:23	P9040320.D	3.69	13.10	
LCS 240-80060/16-A		04/04/2013 01:51	P9040321.D	3.69	13.11	
CCV 240-80447/25		04/04/2013 03:42	P9040325.D	3.69	13.11	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081/DOD

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: STD 240-80447/7 Date Analyzed: 04/03/2013 19:20

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P9040307.D Heated Purge: (Y/N) N

Calibration ID: 14373

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				4.32	14.65	
UPPER LIMIT				4.35	14.68	
LOWER LIMIT				4.29	14.62	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-80447/7 ICRT		04/03/2013 19:20	P9040307.D	4.32	14.65	
240-22274-2	079SD-0309-0001-SD	04/03/2013 23:59	P9040317.D	4.32	14.65	
240-22274-2 MS	079SD-0309-0001-SD MS	04/04/2013 00:27	P9040318.D	4.32	14.65	
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/04/2013 00:55	P9040319.D	4.32	14.65	
MB 240-80060/15-A		04/04/2013 01:23	P9040320.D	4.32	14.65	
LCS 240-80060/16-A		04/04/2013 01:51	P9040321.D	4.32	14.65	
CCV 240-80447/25		04/04/2013 03:42	P9040325.D	4.32	14.65	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081/DOD

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS Lab Sample ID: 240-22274-2 MS

Instrument ID (1): A2HP9 Instrument ID (2): A2HP9

Date Analyzed (1): 04/04/2013 00:27 Date Analyzed (2): 04/04/2013 00:27

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		4.39	4.35	4.41	40.7		16.0
	2		5.26	5.22	5.28	47.8		
gamma-BHC (Lindane)	1		4.79	4.76	4.82	36.9		12.4
	2		5.91	5.88	5.94	41.8		
beta-BHC	1		4.93	4.91	4.97	43.7		2.0
	2		6.12	6.09	6.15	44.6		
delta-BHC	1		5.17	5.14	5.20	32.5		35.2
	2		6.78	6.75	6.81	46.4		
Heptachlor	1		5.48	5.45	5.52	34.8		2.2
	2		6.86	6.82	6.89	35.5		
Aldrin	1		5.99	5.95	6.01	41.4		11.6
	2		7.69	7.65	7.71	46.5		
Heptachlor epoxide	1		7.36	7.33	7.39	40.3		6.5
	2		9.07	9.04	9.10	43.0		
gamma-Chlordane	1		7.68	7.65	7.71	41.3		8.4
	2		9.46	9.42	9.48	44.8		
alpha-Chlordane	1		8.00	7.97	8.03	36.4		17.3
	2		9.75	9.72	9.78	43.3		
Endosulfan I	1		8.26	8.23	8.29	37.2		6.4
	2		9.82	9.79	9.85	39.6		
4,4'-DDE	1		8.35	8.32	8.38	43.7		14.8
	2		10.17	10.14	10.20	50.6		
Dieldrin	1		8.79	8.76	8.82	40.5		4.2
	2		10.33	10.30	10.36	42.3		
Endrin	1		9.22	9.19	9.25	37.2		19.9
	2		10.84	10.81	10.87	45.5		
4,4'-DDD	1		9.55	9.54	9.60	64.9		1.6
	2		11.15	11.13	11.19	66.0		
Endosulfan II	1		9.65	9.63	9.69	31.9		4.0
	2		11.21	11.17	11.23	33.2		
4,4'-DDT	1		10.06	10.03	10.09	47.4		6.5
	2		11.63	11.60	11.66	50.6		
Endrin aldehyde	1		10.42	10.39	10.45	38.7		13.1
	2		11.76	11.73	11.79	44.2		
Methoxychlor	1		10.97	10.95	11.01	48.4		6.9
	2		12.70	12.67	12.73	51.9		
Endosulfan sulfate	1		11.13	11.10	11.16	41.3		14.3
	2		12.17	12.14	12.20	47.6		
Endrin ketone	1		11.53	11.50	11.56	41.7		10.4
	2		12.93	12.90	12.96	46.3		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD Lab Sample ID: 240-22274-2 MSD

Instrument ID (1): A2HP9 Instrument ID (2): A2HP9

Date Analyzed (1): 04/04/2013 00:55 Date Analyzed (2): 04/04/2013 00:55

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		4.39	4.35	4.41	35.1		14.5
	2		5.26	5.22	5.28	40.6		
gamma-BHC (Lindane)	1		4.79	4.76	4.82	31.8		8.5
	2		5.91	5.88	5.94	34.6		
beta-BHC	1		4.94	4.91	4.97	39.1		3.9
	2		6.12	6.09	6.15	37.6		
delta-BHC	1		5.17	5.14	5.20	24.6		44.8
	2		6.78	6.75	6.81	38.8		
Heptachlor	1		5.48	5.45	5.52	32.2		4.2
	2		6.86	6.82	6.89	30.9		
Aldrin	1		5.99	5.95	6.01	36.6		8.4
	2		7.69	7.65	7.71	39.8		
Heptachlor epoxide	1		7.36	7.33	7.39	35.4		5.1
	2		9.07	9.04	9.10	37.2		
gamma-Chlordane	1		7.68	7.65	7.71	36.0		7.0
	2		9.46	9.42	9.48	38.6		
alpha-Chlordane	1		8.00	7.97	8.03	31.3		18.0
	2		9.75	9.72	9.78	37.4		
Endosulfan I	1		8.26	8.23	8.29	33.4		0.1
	2		9.82	9.79	9.85	33.5		
4,4'-DDE	1		8.35	8.32	8.38	36.9		14.0
	2		10.17	10.14	10.20	42.5		
Dieldrin	1		8.79	8.76	8.82	35.2		0.7
	2		10.33	10.30	10.36	35.0		
Endrin	1		9.22	9.19	9.25	30.0		23.7
	2		10.84	10.81	10.87	38.1		
4,4'-DDD	1		9.55	9.54	9.60	63.0		11.7
	2		11.15	11.13	11.19	56.1		
Endosulfan II	1		9.66	9.63	9.69	27.2		9.6
	2		11.20	11.17	11.23	30.0		
4,4'-DDT	1		10.06	10.03	10.09	40.3		2.2
	2		11.63	11.60	11.66	41.2		
Endrin aldehyde	1		10.42	10.39	10.45	33.5		4.8
	2		11.76	11.73	11.79	35.1		
Methoxychlor	1		10.97	10.95	11.01	40.8		5.0
	2		12.70	12.67	12.73	43.0		
Endosulfan sulfate	1		11.13	11.10	11.16	34.2		12.5
	2		12.17	12.14	12.20	38.8		
Endrin ketone	1		11.53	11.50	11.56	34.7		9.8
	2		12.93	12.90	12.96	38.3		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-80060/16-A

Instrument ID (1): A2HP9 Instrument ID (2): A2HP9

Date Analyzed (1): 04/04/2013 01:51 Date Analyzed (2): 04/04/2013 01:51

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		4.39	4.35	4.41	28.3		16.2
	2		5.26	5.22	5.28	33.3		
gamma-BHC (Lindane)	1		4.79	4.76	4.82	25.8		8.4
	2		5.91	5.88	5.94	28.0		
beta-BHC	1		4.94	4.91	4.97	26.6		13.8
	2		6.12	6.09	6.15	30.6		
delta-BHC	1		5.17	5.14	5.20	30.7		4.7
	2		6.78	6.75	6.81	32.1		
Heptachlor	1		5.49	5.45	5.52	21.7		2.9
	2		6.86	6.82	6.89	21.1		
Aldrin	1		5.99	5.95	6.01	29.0		14.9
	2		7.69	7.65	7.71	33.7		
Heptachlor epoxide	1		7.36	7.33	7.39	28.3		6.5
	2		9.07	9.04	9.10	30.2		
gamma-Chlordane	1		7.68	7.65	7.71	27.7		7.2
	2		9.46	9.42	9.48	29.8		
alpha-Chlordane	1		8.00	7.97	8.03	24.5		21.8
	2		9.75	9.72	9.78	30.5		
Endosulfan I	1		8.26	8.23	8.29	25.7		0.2
	2		9.82	9.79	9.85	25.8		
4,4'-DDE	1		8.35	8.32	8.38	27.5		18.2
	2		10.17	10.14	10.20	33.0		
Dieldrin	1		8.79	8.76	8.82	28.1		6.7
	2		10.33	10.30	10.36	30.0		
Endrin	1		9.23	9.19	9.25	24.6		7.5
	2		10.84	10.81	10.87	26.6		
4,4'-DDD	1		9.56	9.54	9.60	35.7		14.1
	2		11.15	11.13	11.19	41.1		
Endosulfan II	1		9.66	9.63	9.69	21.6		5.5
	2		11.20	11.17	11.23	22.8		
4,4'-DDT	1		10.06	10.03	10.09	25.2		4.1
	2		11.63	11.60	11.66	26.2		
Endrin aldehyde	1		10.42	10.39	10.45	27.7		2.4
	2		11.76	11.73	11.79	28.4		
Methoxychlor	1		10.97	10.95	11.01	27.7		4.0
	2		12.70	12.67	12.73	28.9		
Endosulfan sulfate	1		11.13	11.10	11.16	26.9		10.4
	2		12.17	12.14	12.20	29.8		
Endrin ketone	1		11.53	11.50	11.56	24.8		6.6
	2		12.93	12.90	12.96	26.5		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD | Lab Sample ID: 240-22274-2

Matrix: Solid | Lab File ID: P9040317.D

Analysis Method: 8081/DOD | Date Collected: 03/20/2013 11:30

Extraction Method: 3540C | Date Extracted: 04/01/2013 10:09

Sample wt/vol: 29.74(g) | Date Analyzed: 04/03/2013 23:59

Con. Extract Vol.: 10(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	1.8	U J	5.5	1.8	1.7
72-55-9	4,4'-DDE	1.8	U	4.7	1.8	1.1
50-29-3	4,4'-DDT	1.8	U	5.5	1.8	1.7
309-00-2	Aldrin	3.6	U	11	3.6	3.3
319-84-6	alpha-BHC	3.6	U	6.8	3.6	2.0
5103-71-9	alpha-Chlordane	3.6	U	8.2	3.6	2.6
319-85-7	beta-BHC	3.6	U	9.6	3.6	3.0
319-86-8	delta-BHC	3.6	U J	11	3.6	3.3
60-57-1	Dieldrin	1.8	U	4.7	1.8	1.3
959-98-8	Endosulfan I	1.8	U	4.7	1.8	1.4
33213-65-9	Endosulfan II	3.6	U	6.8	3.6	2.2
1031-07-8	Endosulfan sulfate	3.6	U	8.2	3.6	2.4
72-20-8	Endrin	1.8	U	4.7	1.8	1.4
7421-93-4	Endrin aldehyde	3.6	U	8.2	3.6	2.7
53494-70-5	Endrin ketone	1.8	U	5.5	1.8	1.7
58-89-9	gamma-BHC (Lindane)	3.6	U	6.8	3.6	2.0
5103-74-2	gamma-Chlordane	1.8	U	4.7	1.8	1.2
76-44-8	Heptachlor	3.6	U	9.6	3.6	3.0
1024-57-3	Heptachlor epoxide	3.6	U	6.8	3.6	2.2
72-43-5	Methoxychlor	9.0	U	14	9.0	4.1
8001-35-2	Toxaphene	55	U	180	55	52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	100		55-130
877-09-8	Tetrachloro-m-xylene	117		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040317.D		
Lims ID:	240-22274-E-2-E	Client ID:	079SD-0309-0001-SD
Inject. Date:	03-Apr-2013 23:59:45	Dil. Factor:	2.0000
Sample Type:	Client		
Sample ID:	240-0018512-017		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	17
Lims Batch ID:	80447	Lims Sample ID:	17
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:13	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		
First Level Reviewer: shockr		Date:	04-Apr-2013 12:33:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	33861262	0.0117			
2	100	4.322	4.320	0.002	11618583	0.0119			
						RPD = 1.81			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100		4.384						
2	100		5.254						
20 gamma-BHC (Lindane)									
1	100		4.790						
2	100		5.909						
7 beta-BHC									
1	100		4.935						
2	100		6.117						
11 delta-BHC									
1	100		5.173						
2	100		6.780						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									1
1	100		5.482						
2	100		6.854						
4 Aldrin									
1	100		5.984						
2	100		7.683						
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100		7.359						
2	100		9.069						
21 gamma-Chlordane									
1	100		7.677						
2	100		9.453						
6 alpha-Chlordane									
1	100		7.999						
2	100		9.748						
14 Endosulfan I									1
1	100		8.260						
2	100		9.817						
2 4,4'-DDE									
1	100		8.353						
2	100		10.173						
13 Dieldrin									
1	100		8.787						
2	100		10.326						
17 Endrin									
1	100		9.222						
2	100		10.838						
26 Kepone									1
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100		9.570						
2	100		11.159						
15 Endosulfan II									
1	100		9.655						
2	100		11.202						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
9 Chlorobenzilate									
1	100	9.686	9.686	0.000	9503	0			
2	100	11.022	11.035	-0.013	2498321	0			
						RPD = 0.00			
30 Toxaphene									
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100		10.062						
2	100		11.633						
18 Endrin aldehyde									
1	100		10.422						
2	100		11.757						
28 Mirex									
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100		10.984						
2	100		12.702						
16 Endosulfan sulfate									
1	100		11.130						
2	100		12.173						
19 Endrin ketone									
1	100		11.527						
2	100		12.925						
$ 10 DCB Decachlorobiphenyl									
1	100	13.104	13.106	-0.002	28468309	0.0100			
2	100	14.651	14.650	0.001	9565164	0.009176			
						RPD = 8.69			

QC Flag Legend

Processing Flags
1 - Missing Peaks

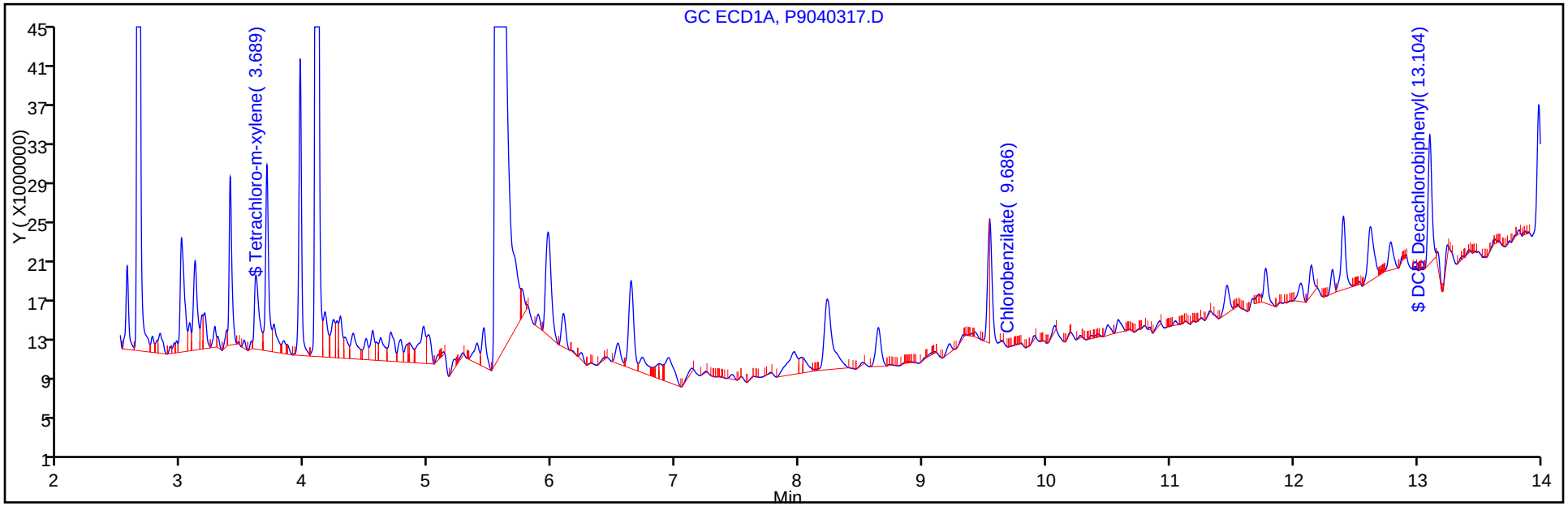
Report Date: 04-Apr-2013 15:32:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

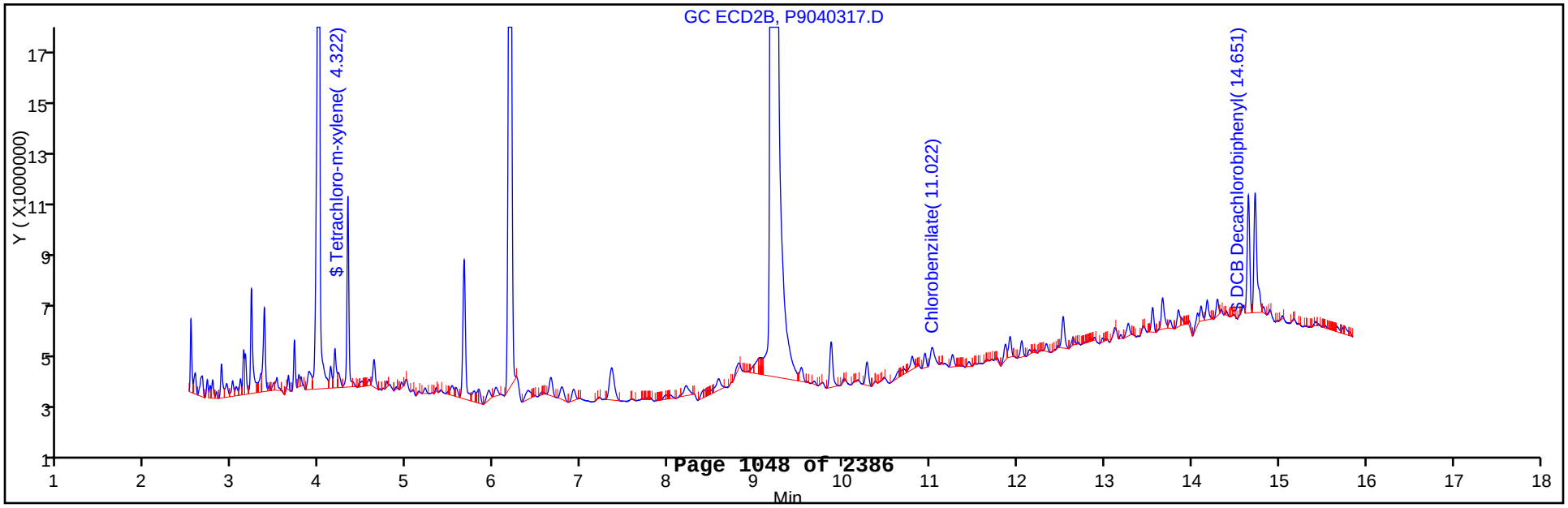
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040317.D

Injection Date:	03-Apr-2013 23:59:45	Limit Group:	GC 8081 D0D ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	17
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: P9040317.D

Analysis Method: 8081/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 04/01/2013 10:09

Sample wt/vol: 29.74(g) Date Analyzed: 04/03/2013 23:59

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		55-130
877-09-8	Tetrachloro-m-xylene	119		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040317.D		
Lims ID:	240-22274-E-2-E	Client ID:	079SD-0309-0001-SD
Inject. Date:	03-Apr-2013 23:59:45	Dil. Factor:	2.0000
Sample Type:	Client		
Sample ID:	240-0018512-017		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	17
Lims Batch ID:	80447	Lims Sample ID:	17
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:13	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		
First Level Reviewer: shockr		Date:	04-Apr-2013 12:33:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	33861262	0.0117			
2	100	4.322	4.320	0.002	11618583	0.0119			
						RPD = 1.81			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100		4.384						
2	100		5.254						
20 gamma-BHC (Lindane)									
1	100		4.790						
2	100		5.909						
7 beta-BHC									
1	100		4.935						
2	100		6.117						
11 delta-BHC									
1	100		5.173						
2	100		6.780						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									1
1	100		5.482						
2	100		6.854						
4 Aldrin									
1	100		5.984						
2	100		7.683						
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100		7.359						
2	100		9.069						
21 gamma-Chlordane									
1	100		7.677						
2	100		9.453						
6 alpha-Chlordane									
1	100		7.999						
2	100		9.748						
14 Endosulfan I									1
1	100		8.260						
2	100		9.817						
2 4,4'-DDE									
1	100		8.353						
2	100		10.173						
13 Dieldrin									
1	100		8.787						
2	100		10.326						
17 Endrin									
1	100		9.222						
2	100		10.838						
26 Kepone									1
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100		9.570						
2	100		11.159						
15 Endosulfan II									
1	100		9.655						
2	100		11.202						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
9 Chlorobenzilate									
1	100	9.686	9.686	0.000	9503	0			
2	100	11.022	11.035	-0.013	2498321	0			
						RPD = 0.00			
30 Toxaphene									
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100		10.062						
2	100		11.633						
18 Endrin aldehyde									
1	100		10.422						
2	100		11.757						
28 Mirex									
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100		10.984						
2	100		12.702						
16 Endosulfan sulfate									
1	100		11.130						
2	100		12.173						
19 Endrin ketone									
1	100		11.527						
2	100		12.925						
$ 10 DCB Decachlorobiphenyl									
1	100	13.104	13.106	-0.002	28468309	0.0100			
2	100	14.651	14.650	0.001	9565164	0.009176			
						RPD = 8.69			

QC Flag Legend

Processing Flags
1 - Missing Peaks

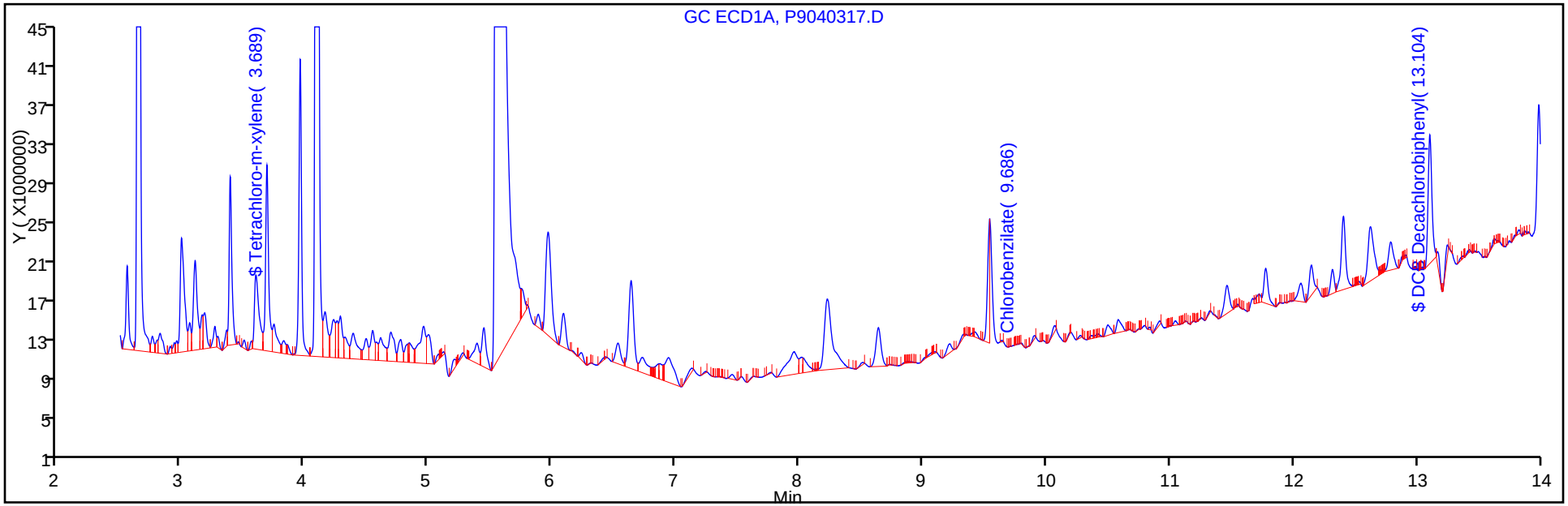
Report Date: 04-Apr-2013 15:32:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

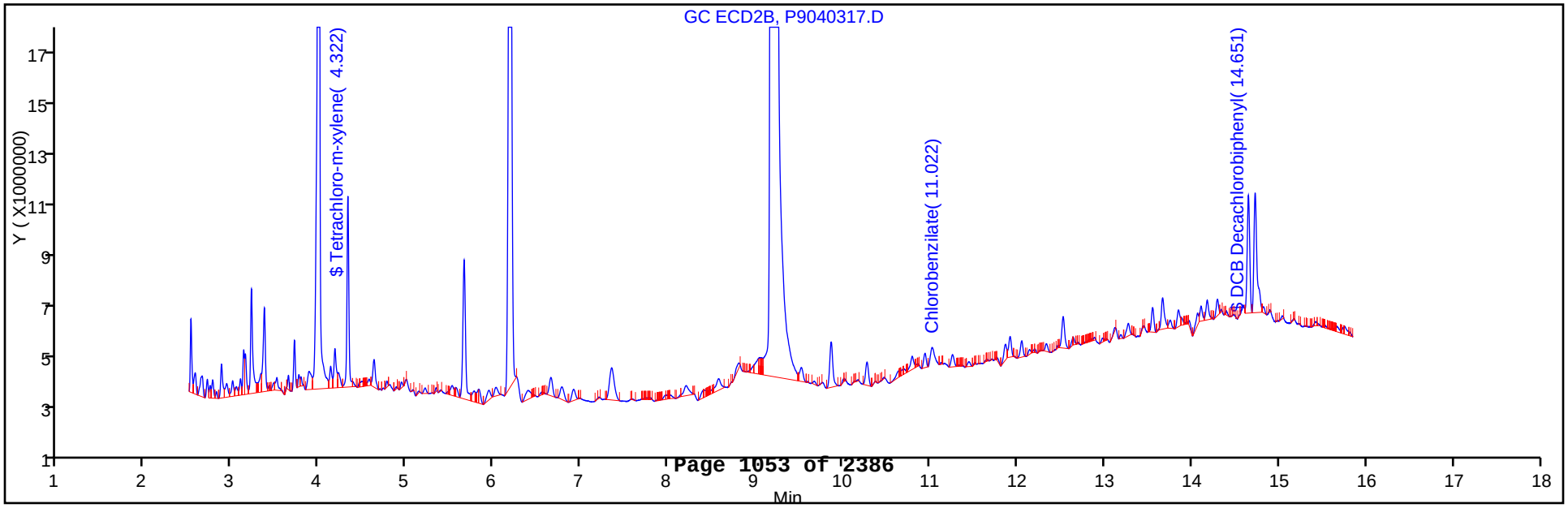
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040317.D

Injection Date:	03-Apr-2013 23:59:45	Limit Group:	GC 8081 D0D ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	17
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 77220

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2013 06:18 Calibration End Date: 03/06/2013 08:10 Calibration ID: 14084

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-77220/12	P9030612.D
Level 2	STD 240-77220/13	P9030613.D
Level 3	STD 240-77220/14	P9030614.D
Level 4	STD 240-77220/15	P9030615.D
Level 5	STD 240-77220/16	P9030616.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	9.786	9.788	9.786	9.786	9.788						9.757 - 9.817	9.787
Toxaphene Peak 2	10.377	10.377	10.378	10.376	10.377						10.347 - 10.407	10.377
Toxaphene Peak 3	10.948	10.947	10.948	10.947	10.947						10.918 - 10.978	10.947
Toxaphene Peak 4	11.094	11.095	11.094	11.093	11.094						11.065 - 11.125	11.094
Toxaphene Peak 5	11.350	11.354	11.351	11.350	11.350						11.323 - 11.383	11.351

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 77220

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2013 06:18 Calibration End Date: 03/06/2013 08:10 Calibration ID: 14084

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-77220/12	P9030612.D
Level 2	STD 240-77220/13	P9030613.D
Level 3	STD 240-77220/14	P9030614.D
Level 4	STD 240-77220/15	P9030615.D
Level 5	STD 240-77220/16	P9030616.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	115264745 118742023	112329476	120561399	104394419	Ave		114258412				5.6		20.0			
Toxaphene Peak 2	82809610 92048540	85243606	90889787	77880955	Ave		85774499.7				6.8		20.0			
Toxaphene Peak 3	110094170 119278577	110415476	119882018	105072333	Ave		112948515				5.7		20.0			
Toxaphene Peak 4	93891445 110427184	96404092	111885495	96412401	Ave		101804123				8.5		20.0			
Toxaphene Peak 5	60336270 73797795	58072758	67651200	63873878	Ave		64746380.2				9.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 77220

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2013 06:18 Calibration End Date: 03/06/2013 08:10 Calibration ID: 14084

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-77220/12	P9030612.D
Level 2	STD 240-77220/13	P9030613.D
Level 3	STD 240-77220/14	P9030614.D
Level 4	STD 240-77220/15	P9030615.D
Level 5	STD 240-77220/16	P9030616.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	23052949	56164738	120561399	208788837	593710113	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 2	Ave	16561922	42621803	90889787	155761910	460242702	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 3	Ave	22018834	55207738	119882018	210144665	596392884	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 4	Ave	18778289	48202046	111885495	192824802	552135918	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 5	Ave	12067254	29036379	67651200	127747755	368988977	0.200	0.500	1.00	2.00	5.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030612.D
Lims ID: STD TOX 1 Client ID:
Inject. Date: 06-Mar-2013 06:18:32 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0017754-012
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 77220 Lims Sample ID: 12
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:04 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.787	-0.001	23052949	0.2018		100.0	M
1	2	10.377	10.377	0.000	16561922	0.1931	55.4- 95.4	71.8	M
1	3	10.948	10.948	0.000	22018834	0.1949	79.4- 119.4	95.5	M
1	4	11.094	11.095	-0.001	18778289	0.1845	72.8- 112.8	81.5	M
1	5	11.350	11.353	-0.003	12067254	0.1864	36.1- 76.1	52.3	M
			Average of Peak Amounts =			0.1921			
2	100	10.780	10.780	0.000	6849144	0.2095		100.0	M
2	2	11.363	11.363	0.000	8208431	0.2062	105.6- 145.6	119.8	M
2	3	11.777	11.779	-0.002	8759691	0.1983	120.0- 160.0	127.9	M
2	4	12.292	12.292	0.000	4959348	0.1911	64.0- 104.0	72.4	M
2	5	13.079	13.080	-0.001	3635523	0.1836	43.3- 83.3	53.1	M
			Average of Peak Amounts =			0.1977			
						RPD = 2.88			

QC Flag Legend

Review Flags
M - Manually Integrated

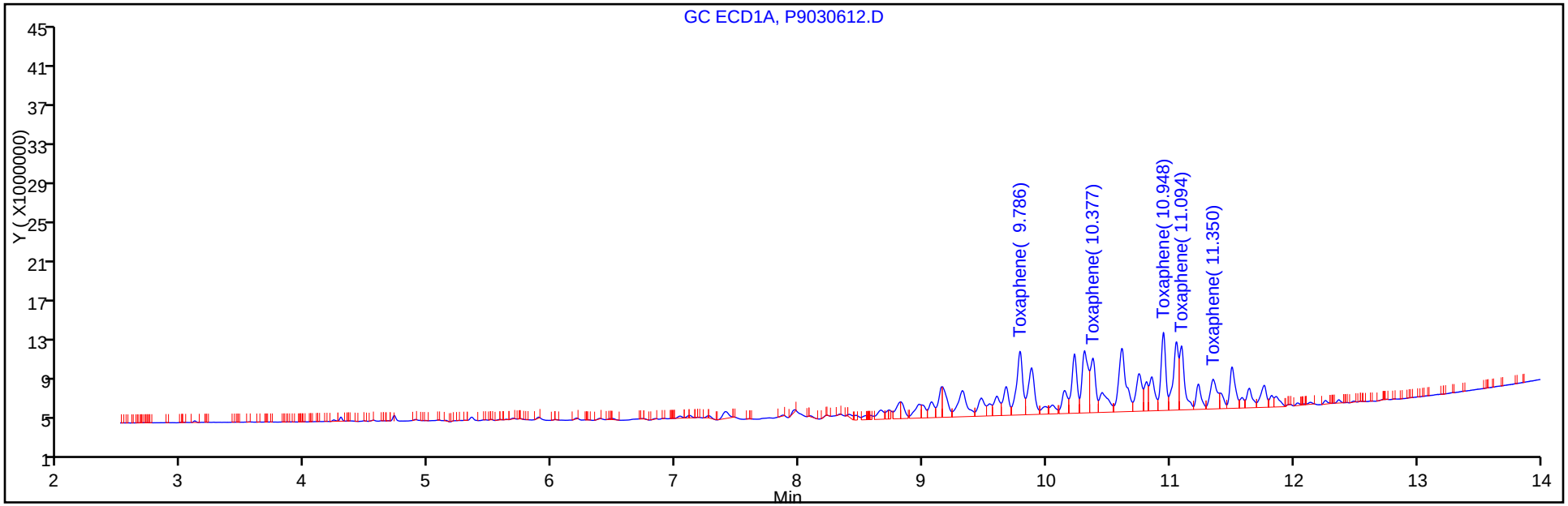
Report Date: 07-Mar-2013 08:00:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

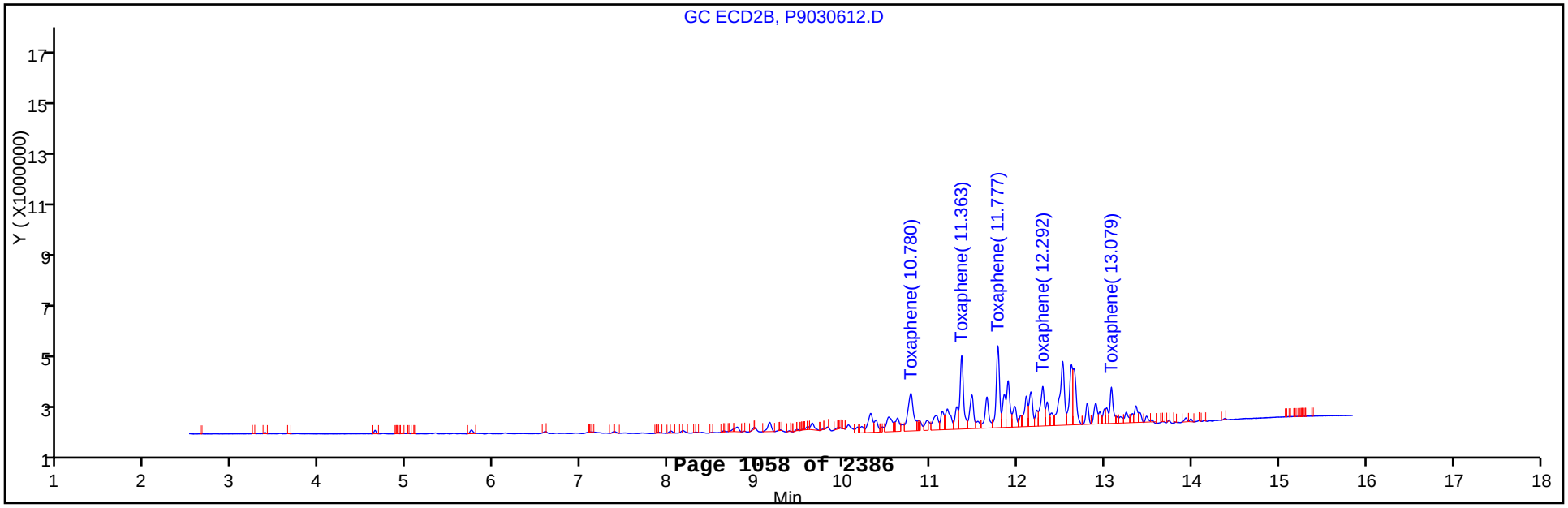
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030612.D

Injection Date:	06-Mar-2013 06:18:32	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	12
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



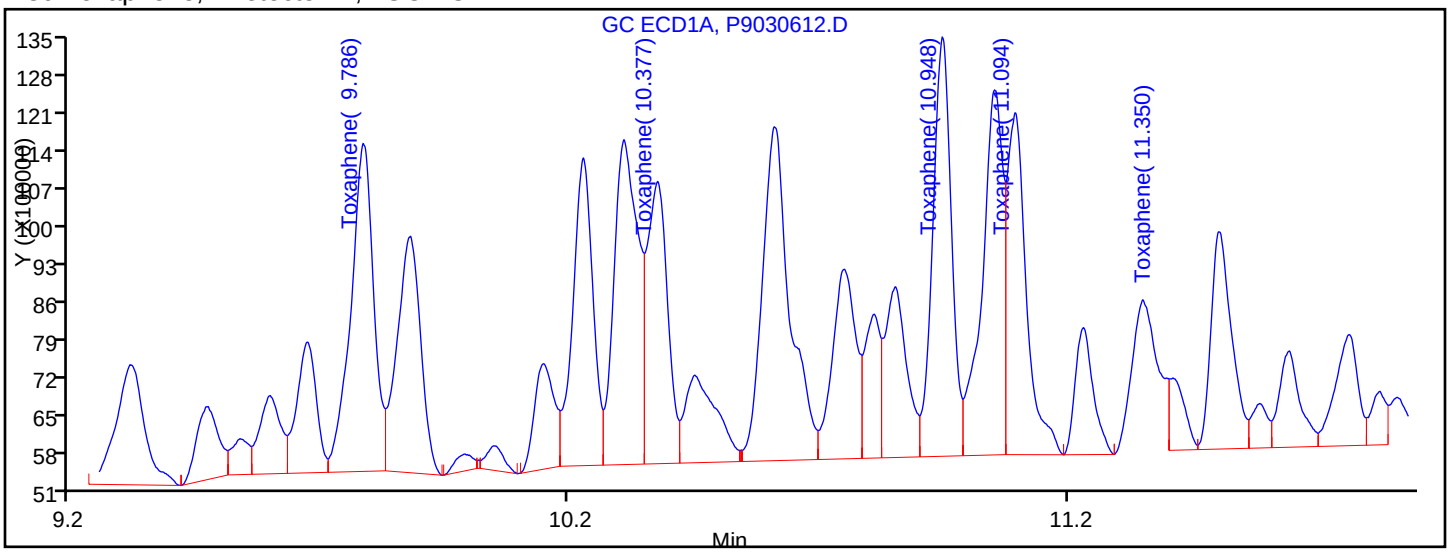
Report Date: 07-Mar-2013 08:00:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030612.D

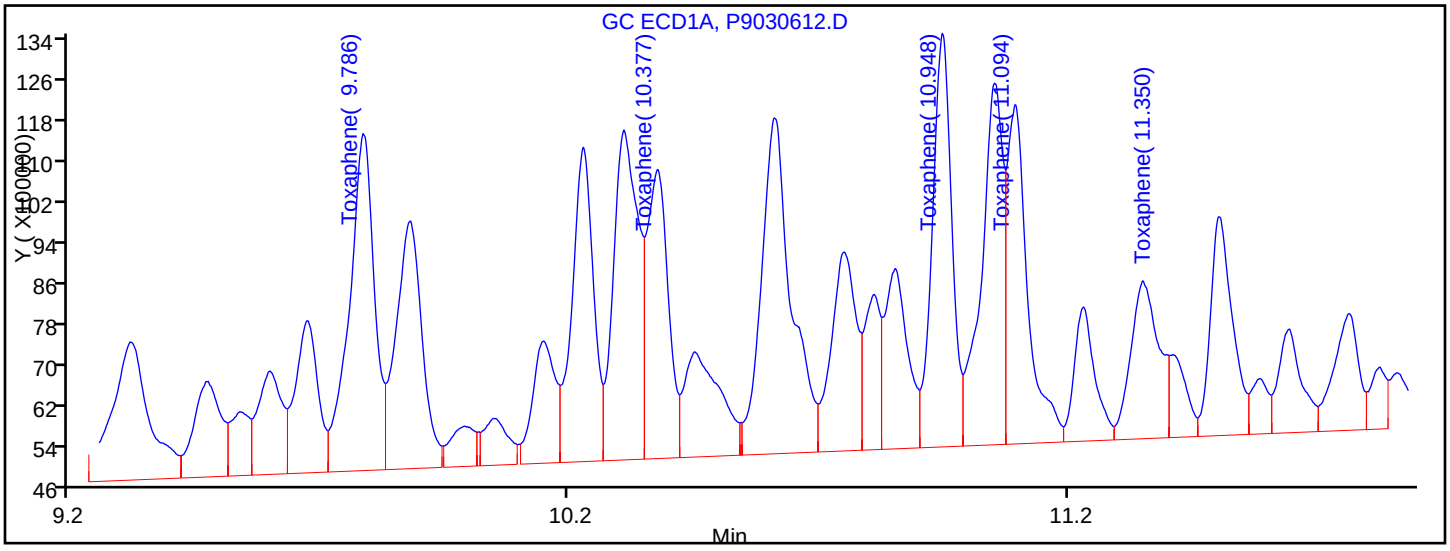
Injection Date:	06-Mar-2013 06:18:32	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	12
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.786	Response = 19262507	M
RT = 10.377	Response = 14638683	M
RT = 10.948	Response = 20126632	M
RT = 11.094	Response = 16559248	M
RT = 11.350	Response = 10244674	M



Manual Integration Results

RT = 9.786	Response = 23052949	M
RT = 10.377	Response = 16561922	M
RT = 10.948	Response = 22018834	M
RT = 11.094	Response = 18778289	M
RT = 11.350	Response = 12067254	M

Reviewer: vandorenc, 07-Mar-2013 07:53:00

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030613.D
Lims ID: STD TOX2 Client ID:
Inject. Date: 06-Mar-2013 06:46:40 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0017754-013
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 77220 Lims Sample ID: 13
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:07 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.788	9.787	0.001	56164738	0.4916		100.0	M
1	2	10.377	10.377	0.000	42621803	0.4969	55.4- 95.4	75.9	M
1	3	10.947	10.948	-0.001	55207738	0.4888	79.4- 119.4	98.3	M
1	4	11.095	11.095	0.000	48202046	0.4735	72.8- 112.8	85.8	M
1	5	11.354	11.353	0.001	29036379	0.4485	36.1- 76.1	51.7	M
			Average of Peak Amounts =			0.4798			
2	100	10.778	10.780	-0.002	16790599	0.5137		100.0	M
2	2	11.362	11.363	-0.001	20440180	0.5135	105.6- 145.6	121.7	M
2	3	11.777	11.779	-0.002	22413694	0.5073	120.0- 160.0	133.5	M
2	4	12.292	12.292	0.000	12913272	0.4975	64.0- 104.0	76.9	M
2	5	13.080	13.080	0.000	10197536	0.5151	43.3- 83.3	60.7	M
			Average of Peak Amounts =			0.5094			
						RPD = 5.98			

QC Flag Legend

Review Flags
M - Manually Integrated

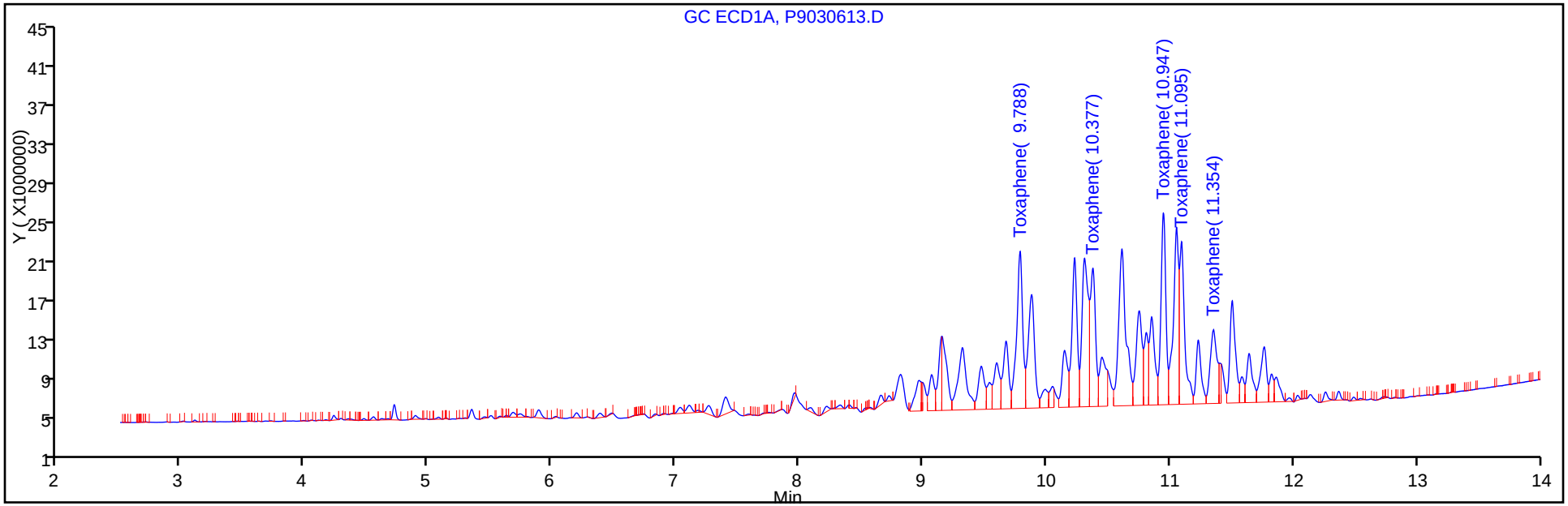
Report Date: 07-Mar-2013 08:00:09 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

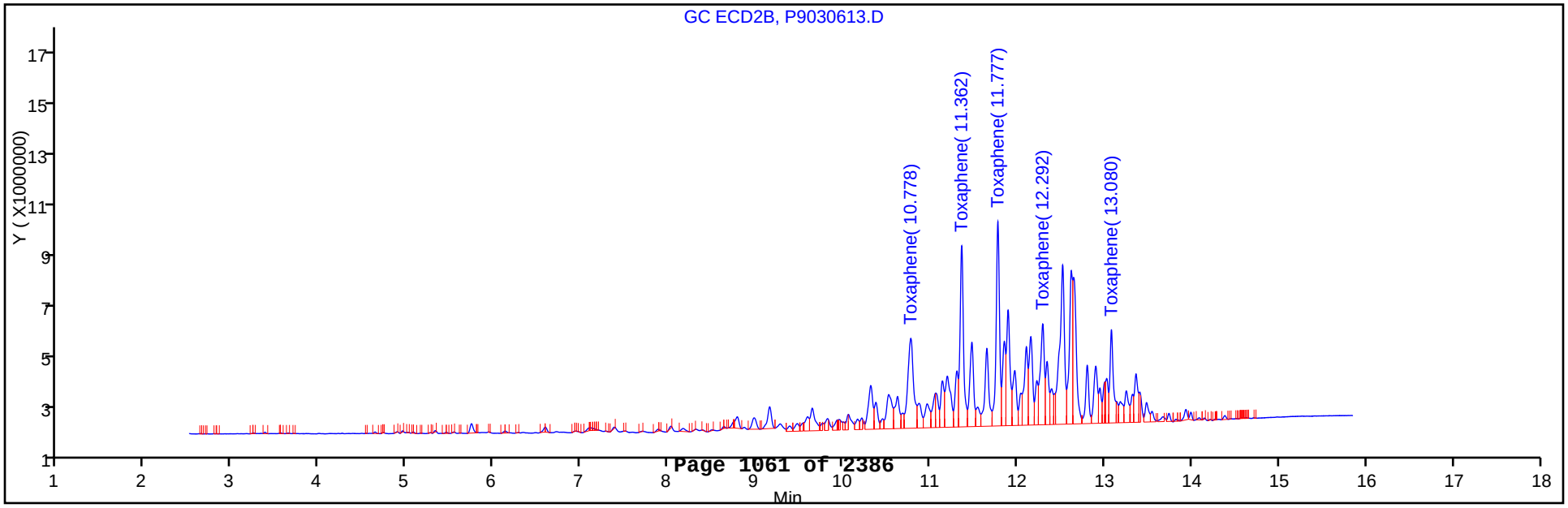
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030613.D

Injection Date:	06-Mar-2013 06:46:40	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	13
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



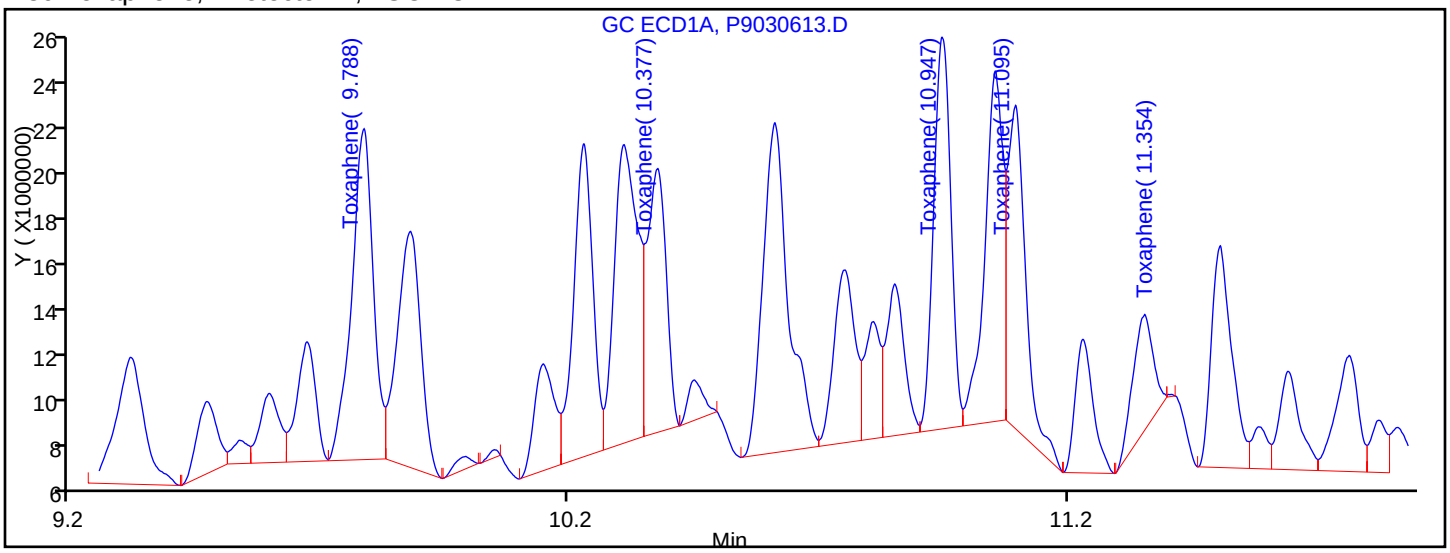
Report Date: 07-Mar-2013 08:00:09 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030613.D

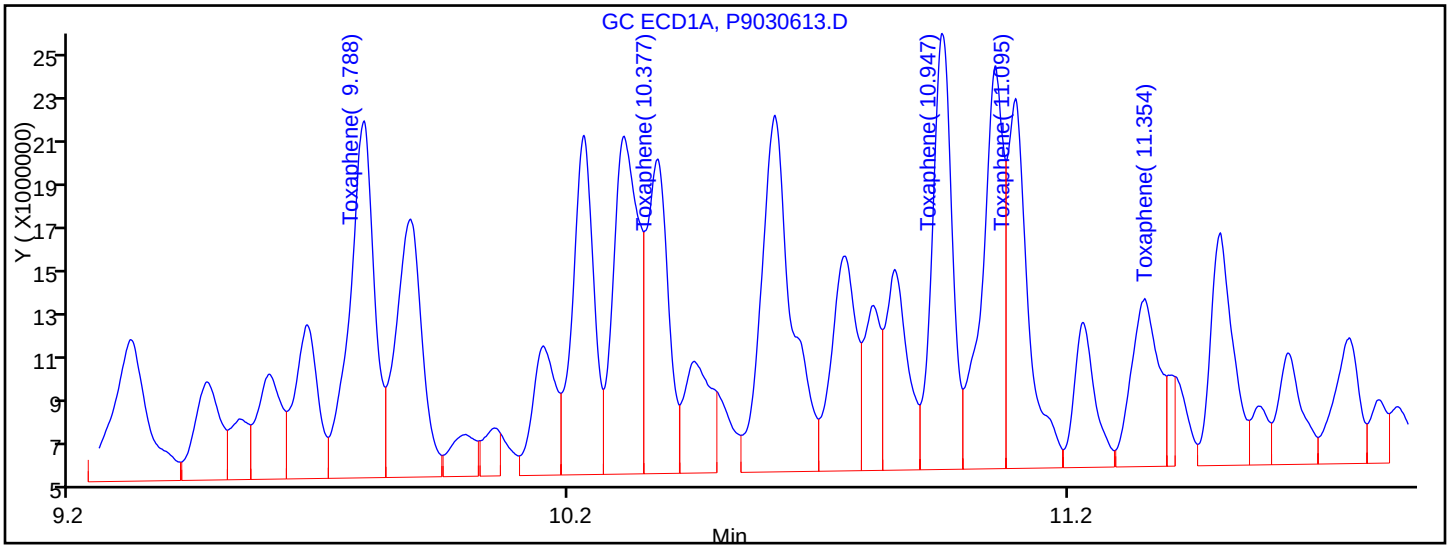
Injection Date:	06-Mar-2013 06:46:40	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	13
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.788	Response = 43540988	M
RT = 10.377	Response = 30255967	M
RT = 10.947	Response = 40864744	M
RT = 11.095	Response = 34751772	M
RT = 11.354	Response = 14389917	M



Manual Integration Results

RT = 9.788	Response = 56164738	M
RT = 10.377	Response = 42621803	M
RT = 10.947	Response = 55207738	M
RT = 11.095	Response = 48202046	M
RT = 11.354	Response = 29036379	M

Reviewer: vandorenc, 07-Mar-2013 07:53:22

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030614.D
Lims ID: STD TOX3 Client ID:
Inject. Date: 06-Mar-2013 07:14:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0017754-014
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 77220 Lims Sample ID: 14
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:09 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:39

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.786	0.000	120561399	1.06		100.0	M
1	2	10.378	10.378	0.000	90889787	1.06	55.4- 95.4	75.4	M
1	3	10.948	10.948	0.000	119882018	1.06	79.4- 119.4	99.4	M
1	4	11.094	11.094	0.000	111885495	1.10	72.8- 112.8	92.8	M
1	5	11.351	11.351	0.000	67651200	1.04	36.1- 76.1	56.1	M
			Average of Peak Amounts =			1.06			
2	100	10.779	10.779	0.000	32665558	1.00		100.0	M
2	2	11.362	11.362	0.000	41019411	1.03	105.6- 145.6	125.6	M
2	3	11.778	11.778	0.000	45730109	1.04	120.0- 160.0	140.0	M
2	4	12.292	12.292	0.000	27453370	1.06	64.0- 104.0	84.0	M
2	5	13.080	13.080	0.000	20670591	1.04	43.3- 83.3	63.3	M
			Average of Peak Amounts =			1.03			
						RPD = 2.93			

QC Flag Legend

Review Flags
M - Manually Integrated

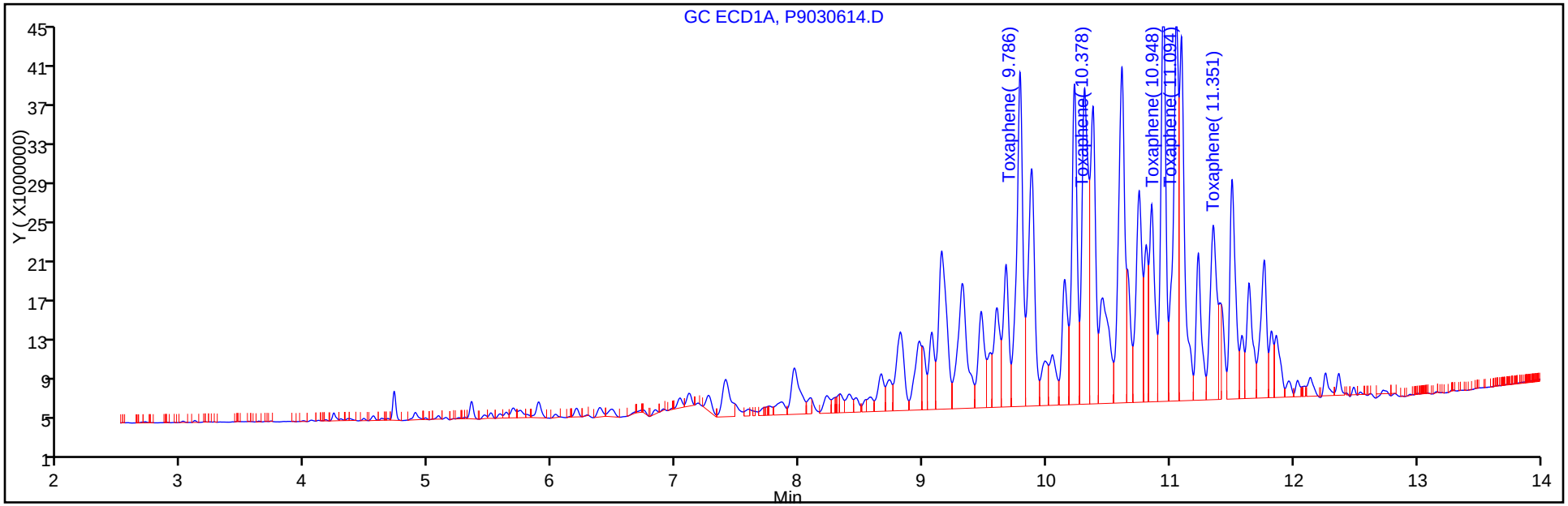
Report Date: 07-Mar-2013 08:00:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

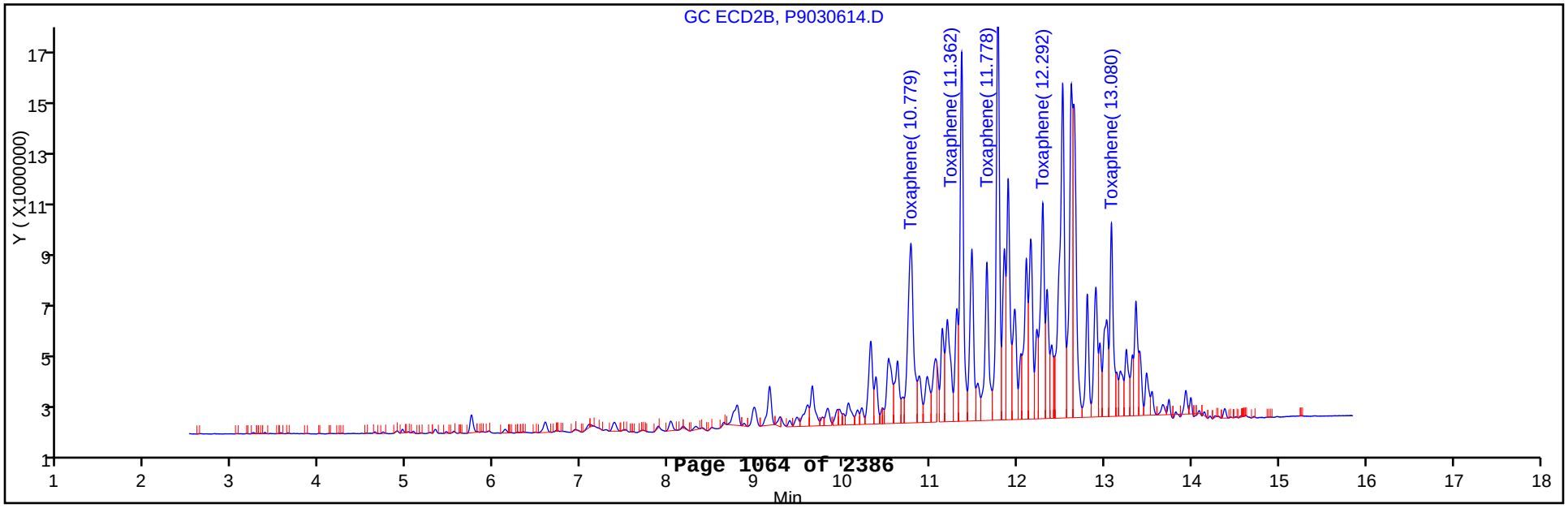
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030614.D

Injection Date:	06-Mar-2013 07:14:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	14
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



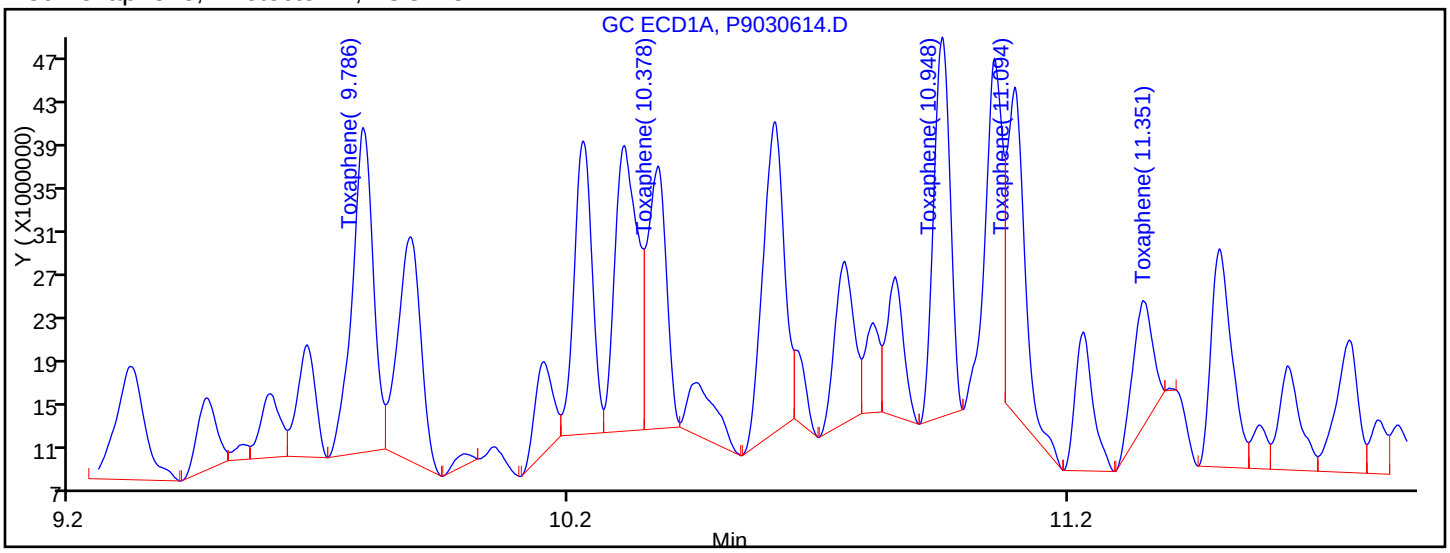
Report Date: 07-Mar-2013 08:00:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030614.D

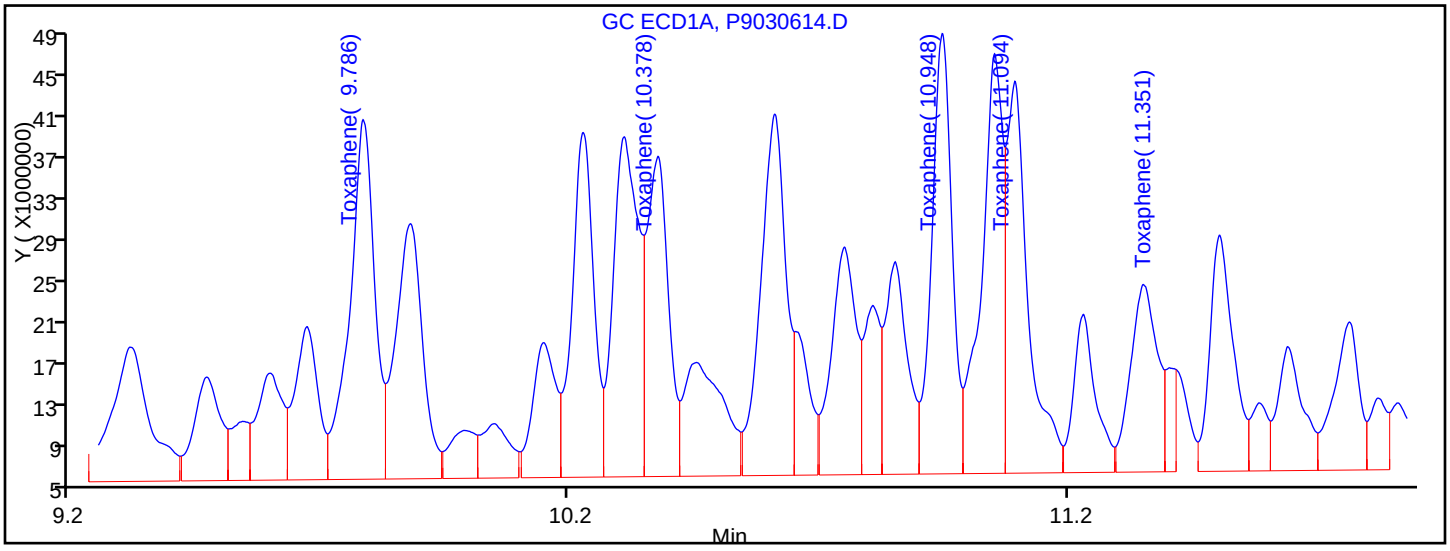
Injection Date:	06-Mar-2013 07:14:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	14
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.786	Response = 87529682	M
RT = 10.378	Response = 62130627	M
RT = 10.948	Response = 80209343	M
RT = 11.094	Response = 72697180	M
RT = 11.351	Response = 31793882	M



Manual Integration Results

RT = 9.786	Response = 120561399	M
RT = 10.378	Response = 90889787	M
RT = 10.948	Response = 119882018	M
RT = 11.094	Response = 111885495	M
RT = 11.351	Response = 67651200	M

Reviewer: vandorenc, 07-Mar-2013 07:53:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030615.D
Lims ID: STD TOX4 Client ID:
Inject. Date: 06-Mar-2013 07:42:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0017754-015
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 77220 Lims Sample ID: 15
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:11 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:53

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.786	0.000	208788837	1.83		100.0	M
1	2	10.376	10.378	-0.002	155761910	1.82	55.4- 95.4	74.6	M
1	3	10.947	10.948	-0.001	210144665	1.86	79.4- 119.4	100.6	M
1	4	11.093	11.094	-0.001	192824802	1.89	72.8- 112.8	92.4	M
1	5	11.350	11.351	-0.001	127747755	1.97	36.1- 76.1	61.2	M
			Average of Peak Amounts =			1.87			
2	100	10.777	10.779	-0.002	59095891	1.81		100.0	M
2	2	11.361	11.362	-0.001	71444470	1.79	105.6- 145.6	120.9	M
2	3	11.776	11.778	-0.002	80250819	1.82	120.0- 160.0	135.8	M
2	4	12.292	12.292	0.000	47643814	1.84	64.0- 104.0	80.6	M
2	5	13.079	13.080	-0.001	36359804	1.84	43.3- 83.3	61.5	M
			Average of Peak Amounts =			1.82			
						RPD = 3.03			

QC Flag Legend

Review Flags
M - Manually Integrated

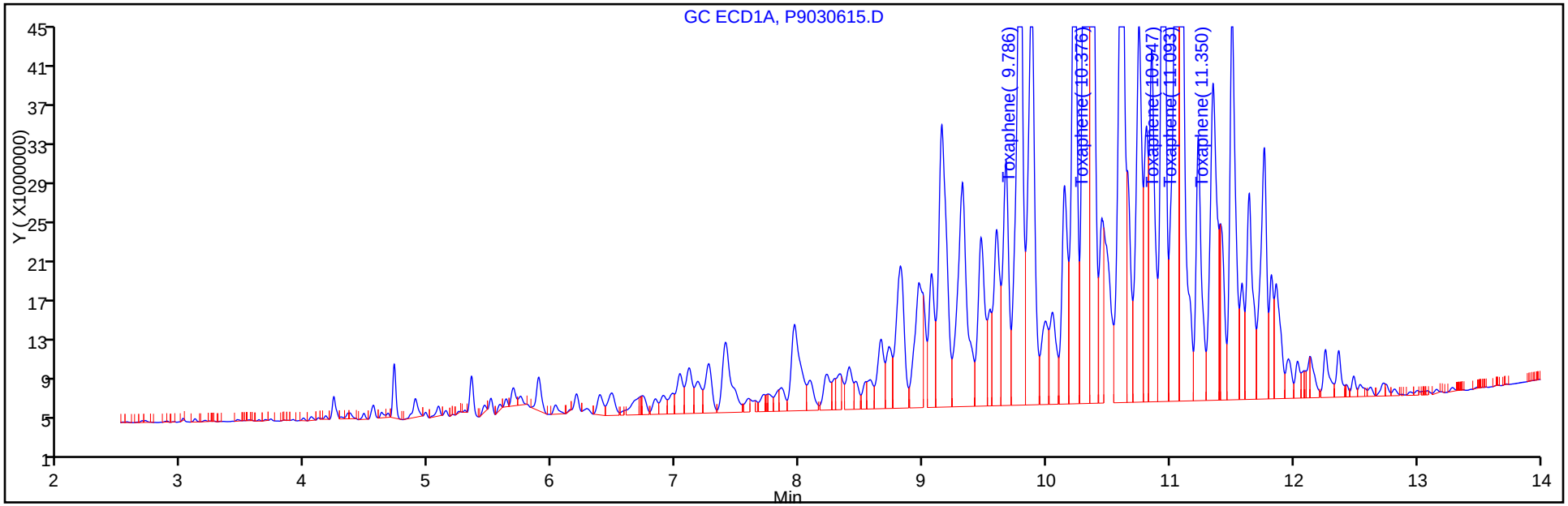
Report Date: 07-Mar-2013 08:00:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

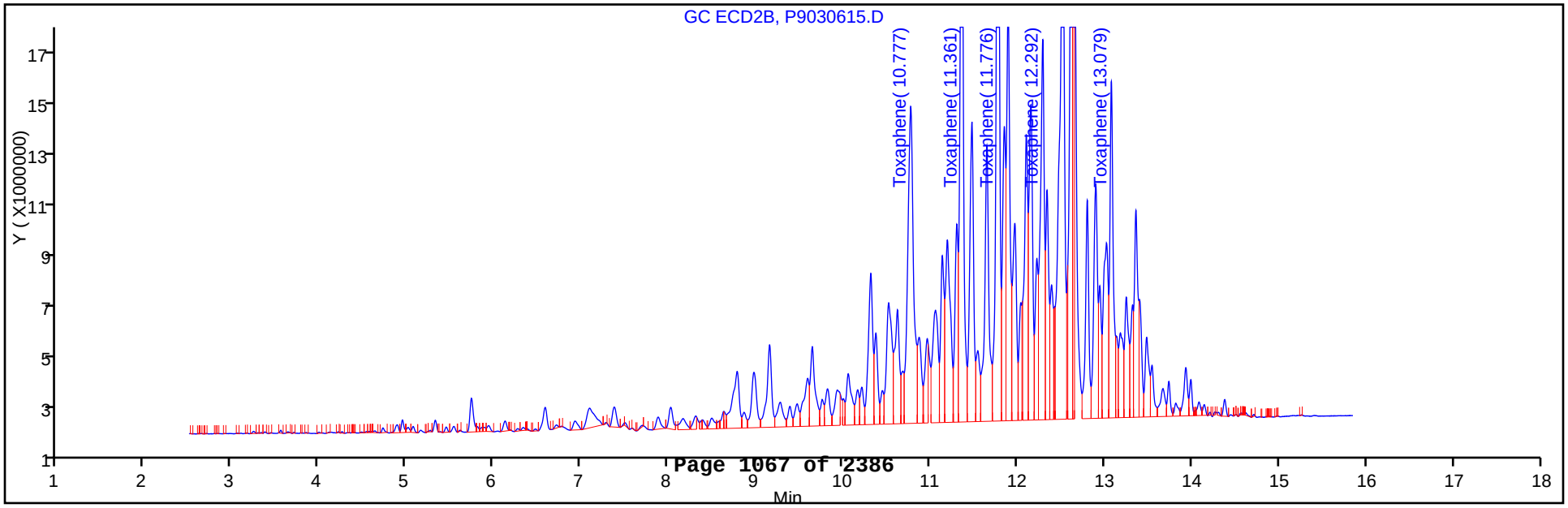
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030615.D

Injection Date:	06-Mar-2013 07:42:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	15
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



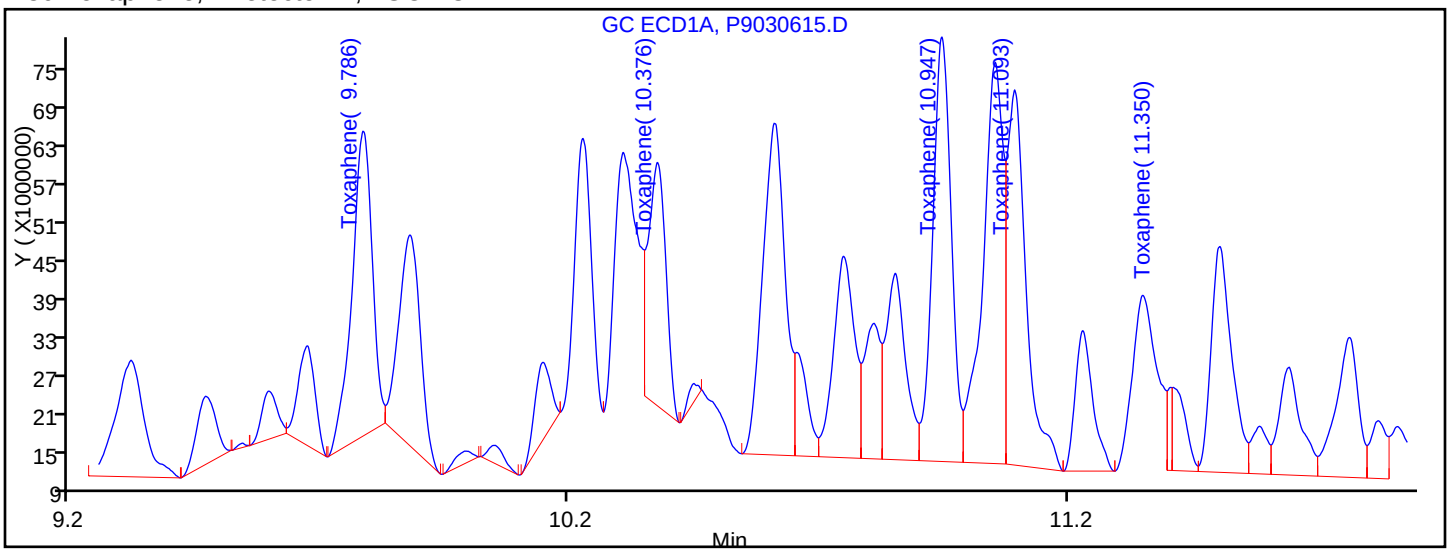
Report Date: 07-Mar-2013 08:00:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030615.D

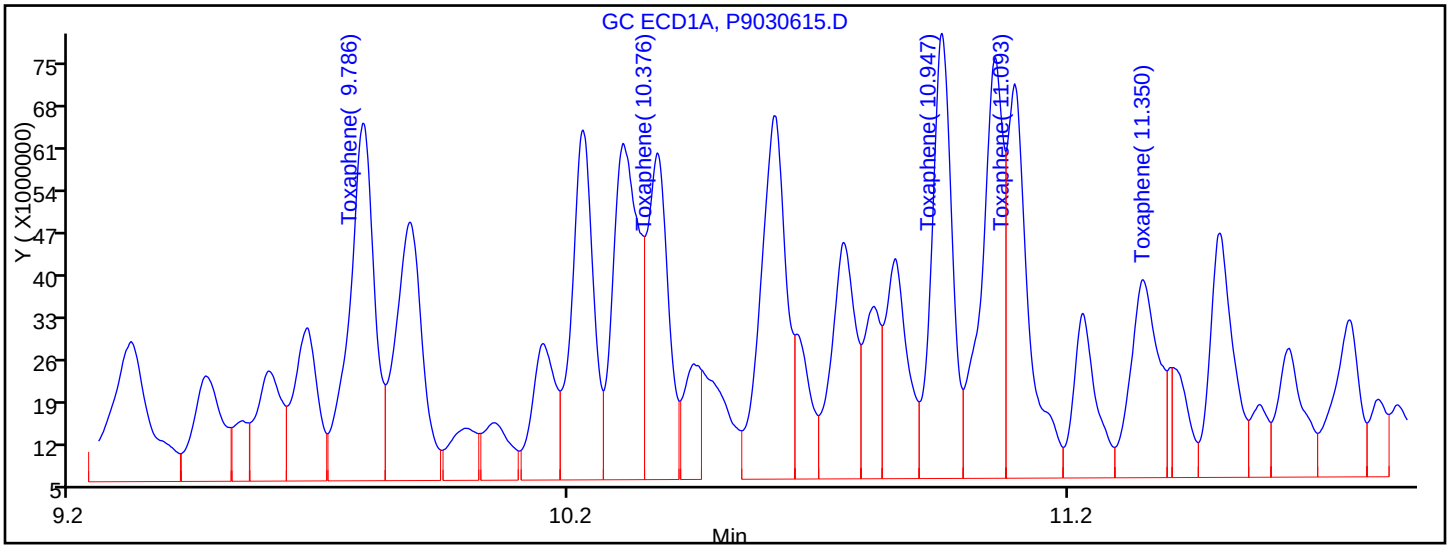
Injection Date:	06-Mar-2013 07:42:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	15
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.786	Response = 136656444	M
RT = 10.376	Response = 93119695	M
RT = 10.947	Response = 174789671	M
RT = 11.093	Response = 154101650	M
RT = 11.350	Response = 95700153	M



Manual Integration Results

RT = 9.786	Response = 208788837	M
RT = 10.376	Response = 155761910	M
RT = 10.947	Response = 210144665	M
RT = 11.093	Response = 192824802	M
RT = 11.350	Response = 127747755	M

Reviewer: vandorenc, 07-Mar-2013 07:53:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030616.D
Lims ID: STD TOX5 Client ID:
Inject. Date: 06-Mar-2013 08:10:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0017754-016
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 16
Lims Batch ID: 77220 Lims Sample ID: 16
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:13 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:54:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.788	9.786	0.002	593710113	5.20		100.0	M
1	2	10.377	10.378	-0.001	460242702	5.37	55.4- 95.4	77.5	M
1	3	10.947	10.948	-0.001	596392884	5.28	79.4- 119.4	100.5	M
1	4	11.094	11.094	0.000	552135918	5.42	72.8- 112.8	93.0	M
1	5	11.350	11.351	-0.001	368988977	5.70	36.1- 76.1	62.1	M
			Average of Peak Amounts =			5.39			
2	100	10.780	10.779	0.001	167010465	5.11		100.0	M
2	2	11.361	11.362	-0.001	201800205	5.07	105.6- 145.6	120.8	M
2	3	11.776	11.778	-0.002	232061823	5.25	120.0- 160.0	139.0	M
2	4	12.291	12.292	-0.001	139410816	5.37	64.0- 104.0	83.5	M
2	5	13.078	13.080	-0.002	107851370	5.45	43.3- 83.3	64.6	M
			Average of Peak Amounts =			5.25			
						RPD = 2.69			

QC Flag Legend

Review Flags
M - Manually Integrated

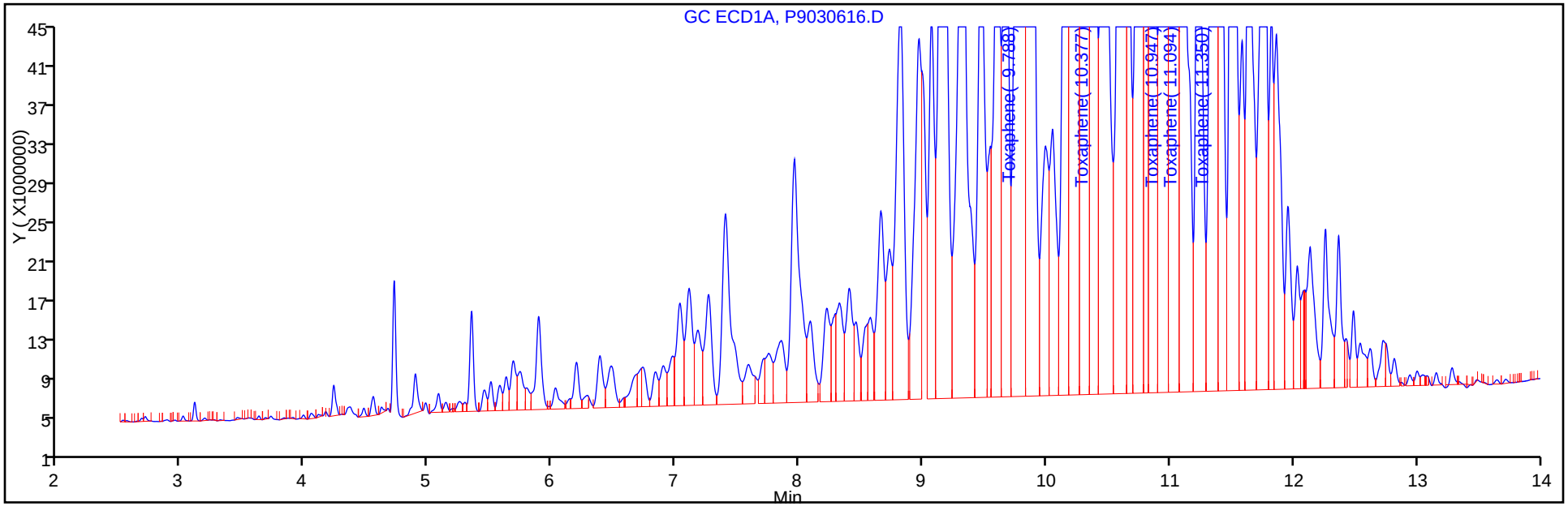
Report Date: 07-Mar-2013 08:00:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

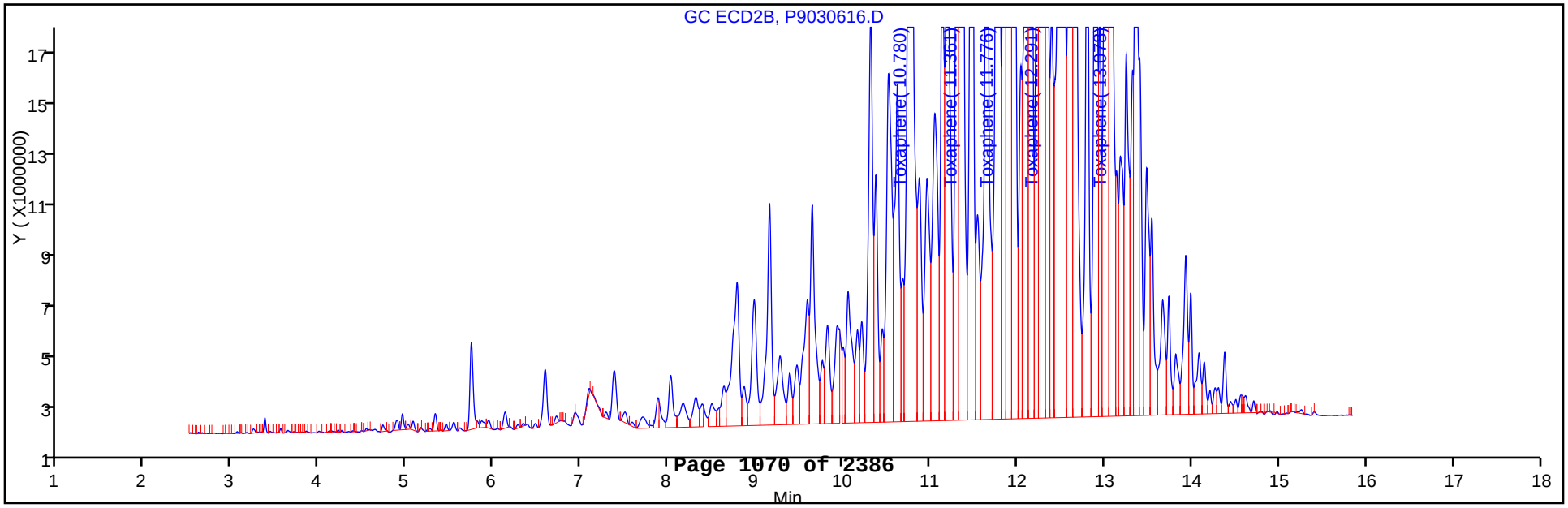
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030616.D

Injection Date:	06-Mar-2013 08:10:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	16
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



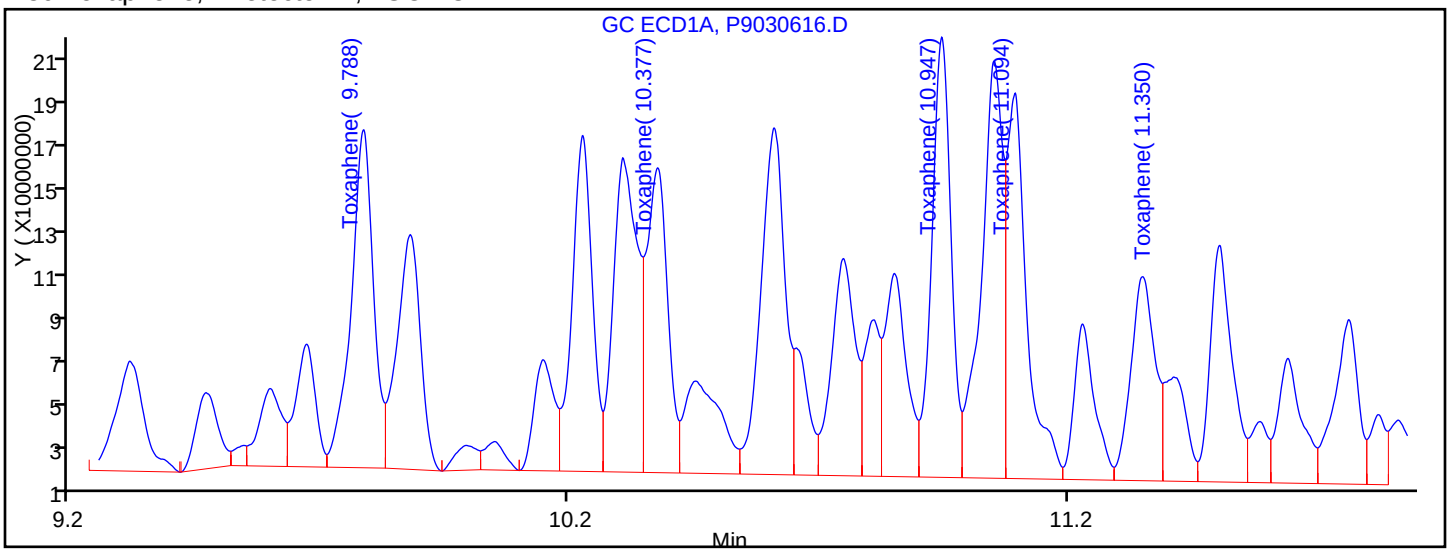
Report Date: 07-Mar-2013 08:00:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030616.D

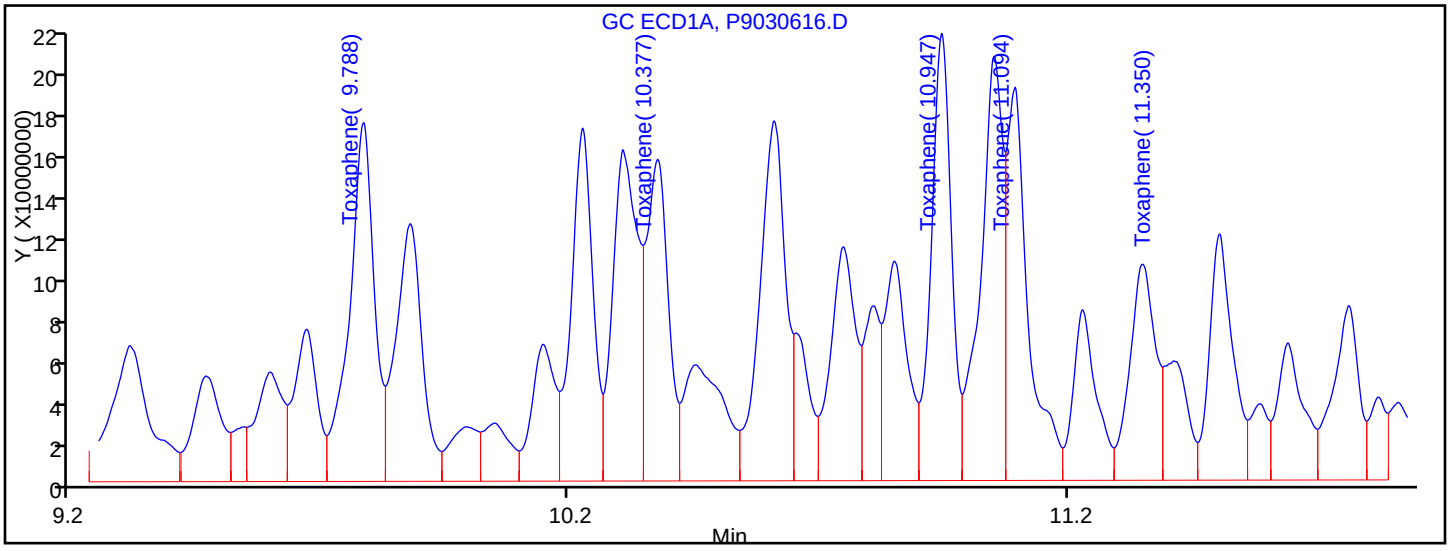
Injection Date:	06-Mar-2013 08:10:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	16
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.788	Response = 482847431	M
RT = 10.377	Response = 402833307	M
RT = 10.947	Response = 539773745	M
RT = 11.094	Response = 482863183	M
RT = 11.350	Response = 314878653	M



Manual Integration Results

RT = 9.788	Response = 593710113	M
RT = 10.377	Response = 460242702	M
RT = 10.947	Response = 596392884	M
RT = 11.094	Response = 552135918	M
RT = 11.350	Response = 368988977	M

Reviewer: vandorenc, 07-Mar-2013 07:54:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 77220

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2013 06:18 Calibration End Date: 03/06/2013 08:10 Calibration ID: 14085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-77220/12	P9030612.D
Level 2	STD 240-77220/13	P9030613.D
Level 3	STD 240-77220/14	P9030614.D
Level 4	STD 240-77220/15	P9030615.D
Level 5	STD 240-77220/16	P9030616.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	10.780	10.778	10.779	10.777	10.780						10.750 - 10.810	10.779
Toxaphene Peak 2	11.363	11.362	11.362	11.361	11.361						11.333 - 11.393	11.362
Toxaphene Peak 3	11.777	11.777	11.778	11.776	11.776						11.749 - 11.809	11.777
Toxaphene Peak 4	12.292	12.292	12.292	12.292	12.291						12.262 - 12.322	12.292
Toxaphene Peak 5	13.079	13.080	13.080	13.079	13.078						13.050 - 13.110	13.079

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 77220

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2013 06:18 Calibration End Date: 03/06/2013 08:10 Calibration ID: 14085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-77220/12	P9030612.D
Level 2	STD 240-77220/13	P9030613.D
Level 3	STD 240-77220/14	P9030614.D
Level 4	STD 240-77220/15	P9030615.D
Level 5	STD 240-77220/16	P9030616.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	34245720 33402093	33581198	32665558	29547946	Ave		32688502.9				5.6		20.0			
Toxaphene Peak 2	41042155 40360041	40880360	41019411	35722235	Ave		39804840.4				5.8		20.0			
Toxaphene Peak 3	43798455 46412365	44827388	45730109	40125410	Ave		44178745.2				5.6		20.0			
Toxaphene Peak 4	24796740 27882163	25826544	27453370	23821907	Ave		25956144.8				6.6		20.0			
Toxaphene Peak 5	18177615 21570274	20395072	20670591	18179902	Ave		19798690.8				7.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 77220

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2013 06:18 Calibration End Date: 03/06/2013 08:10 Calibration ID: 14085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-77220/12	P9030612.D
Level 2	STD 240-77220/13	P9030613.D
Level 3	STD 240-77220/14	P9030614.D
Level 4	STD 240-77220/15	P9030615.D
Level 5	STD 240-77220/16	P9030616.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	6849144	16790599	32665558	59095891	167010465	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 2	Ave	8208431	20440180	41019411	71444470	201800205	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 3	Ave	8759691	22413694	45730109	80250819	232061823	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 4	Ave	4959348	12913272	27453370	47643814	139410816	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 5	Ave	3635523	10197536	20670591	36359804	107851370	0.200	0.500	1.00	2.00	5.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030612.D
Lims ID: STD TOX 1 Client ID:
Inject. Date: 06-Mar-2013 06:18:32 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0017754-012
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 77220 Lims Sample ID: 12
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:04 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.787	-0.001	23052949	0.2018		100.0	M
1	2	10.377	10.377	0.000	16561922	0.1931	55.4- 95.4	71.8	M
1	3	10.948	10.948	0.000	22018834	0.1949	79.4- 119.4	95.5	M
1	4	11.094	11.095	-0.001	18778289	0.1845	72.8- 112.8	81.5	M
1	5	11.350	11.353	-0.003	12067254	0.1864	36.1- 76.1	52.3	M
			Average of Peak Amounts =			0.1921			
2	100	10.780	10.780	0.000	6849144	0.2095		100.0	M
2	2	11.363	11.363	0.000	8208431	0.2062	105.6- 145.6	119.8	M
2	3	11.777	11.779	-0.002	8759691	0.1983	120.0- 160.0	127.9	M
2	4	12.292	12.292	0.000	4959348	0.1911	64.0- 104.0	72.4	M
2	5	13.079	13.080	-0.001	3635523	0.1836	43.3- 83.3	53.1	M
			Average of Peak Amounts =			0.1977			
						RPD = 2.88			

QC Flag Legend

Review Flags
M - Manually Integrated

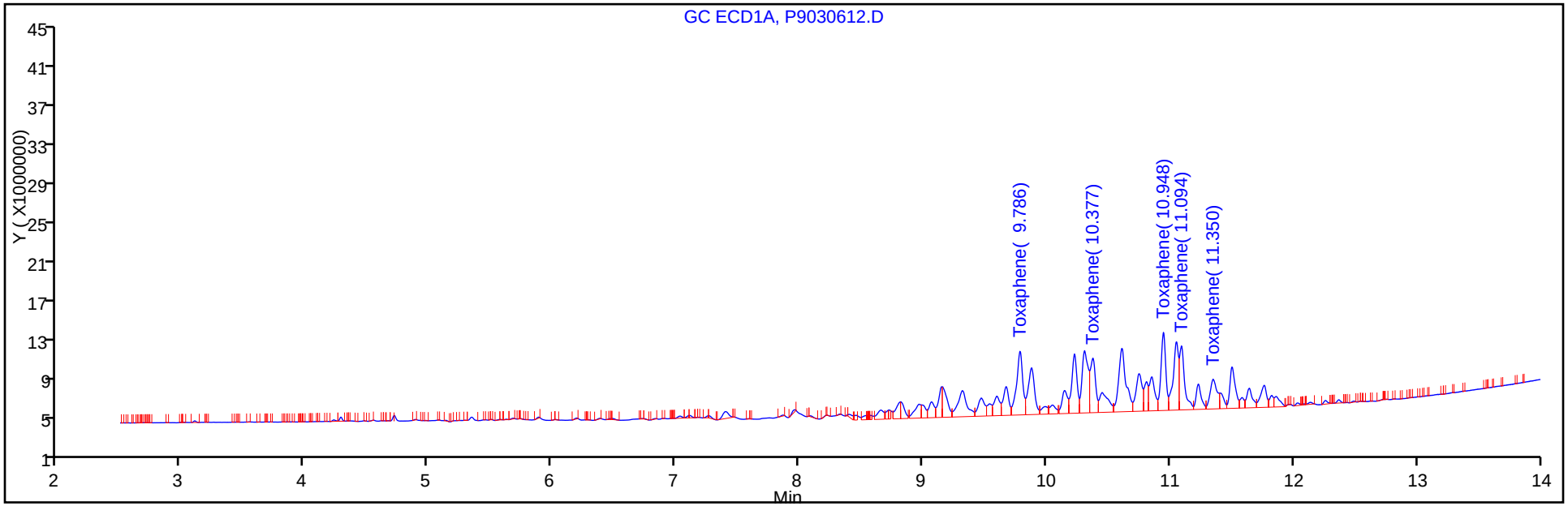
Report Date: 07-Mar-2013 08:00:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

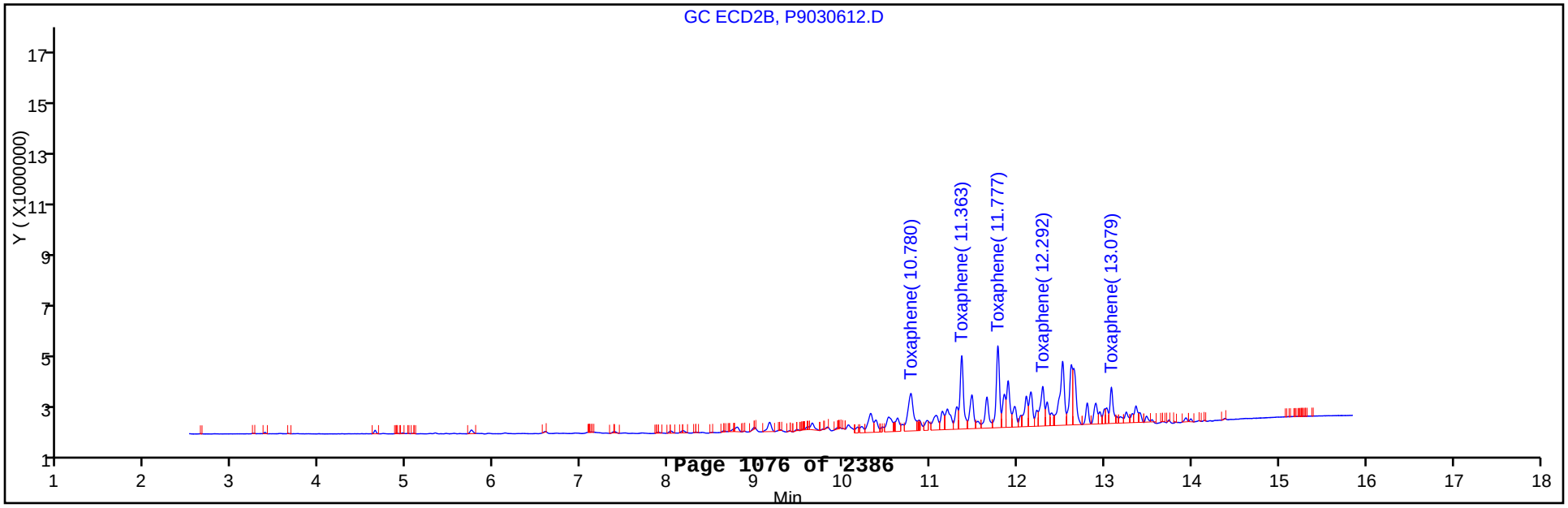
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030612.D

Injection Date:	06-Mar-2013 06:18:32	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	12
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



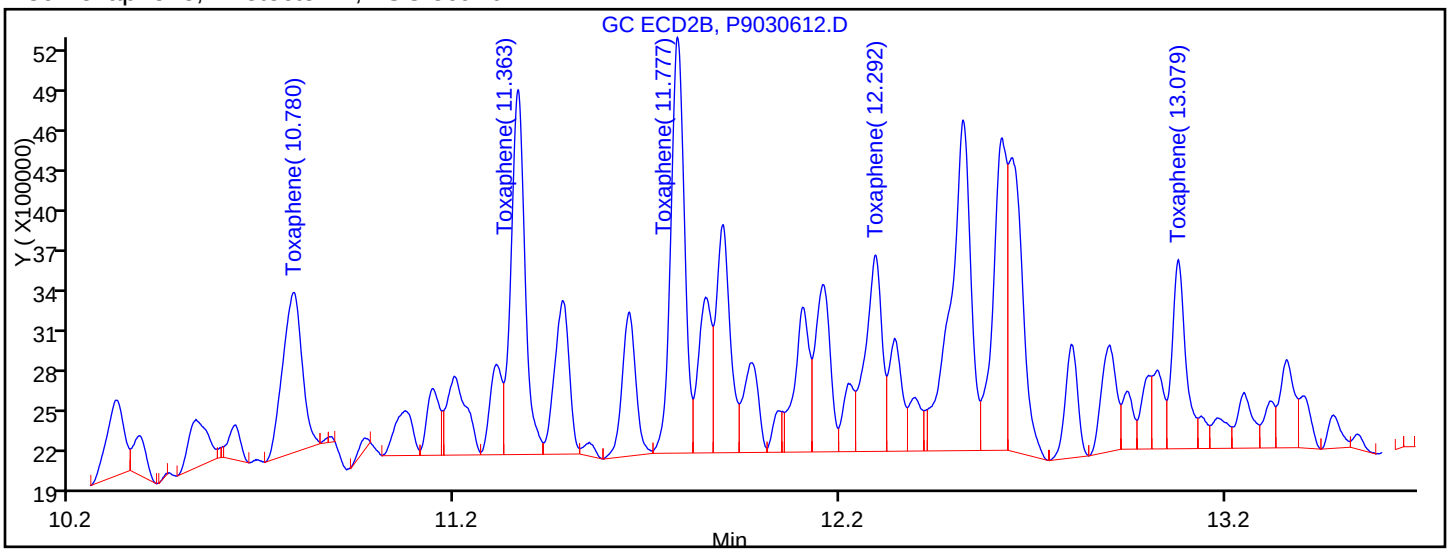
Report Date: 07-Mar-2013 08:00:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030612.D

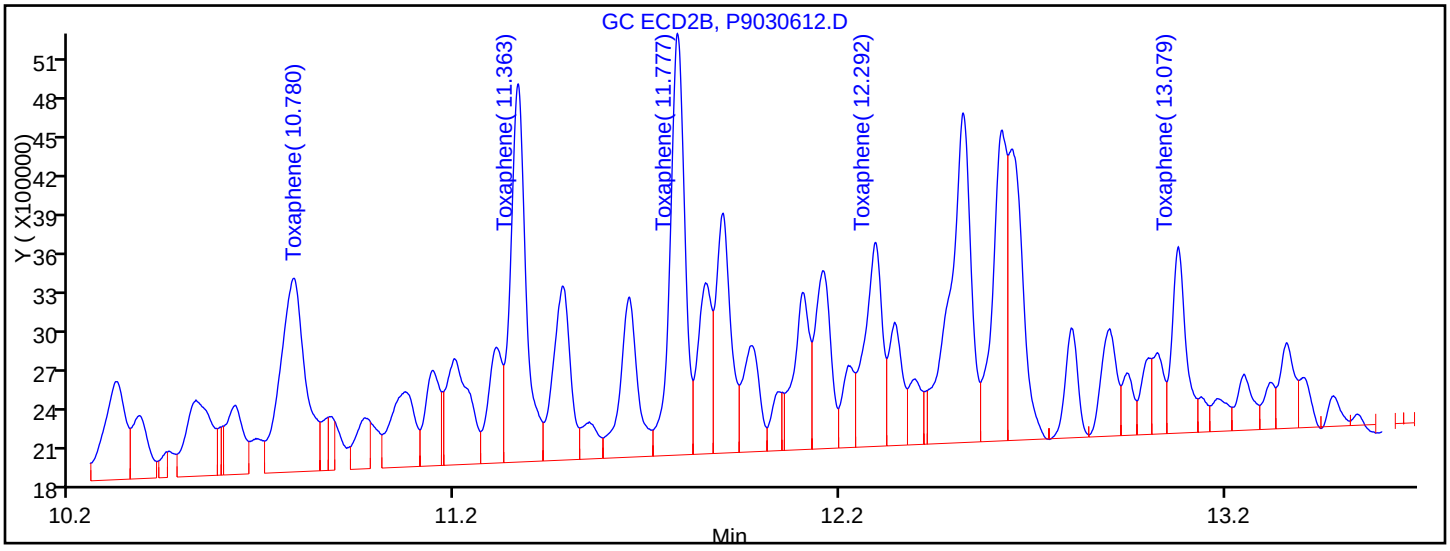
Injection Date:	06-Mar-2013 06:18:32	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	12
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.780	Response = 4196046	M
RT = 11.363	Response = 6867882	M
RT = 11.777	Response = 7653488	M
RT = 12.292	Response = 4363974	M
RT = 13.079	Response = 3453432	M



Manual Integration Results

RT = 10.780	Response = 6849144	M
RT = 11.363	Response = 8208431	M
RT = 11.777	Response = 8759691	M
RT = 12.292	Response = 4959348	M
RT = 13.079	Response = 3635523	M

Reviewer: vandorenc, 07-Mar-2013 07:53:00

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030613.D
Lims ID: STD TOX2 Client ID:
Inject. Date: 06-Mar-2013 06:46:40 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0017754-013
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 77220 Lims Sample ID: 13
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:07 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.788	9.787	0.001	56164738	0.4916		100.0	M
1	2	10.377	10.377	0.000	42621803	0.4969	55.4- 95.4	75.9	M
1	3	10.947	10.948	-0.001	55207738	0.4888	79.4- 119.4	98.3	M
1	4	11.095	11.095	0.000	48202046	0.4735	72.8- 112.8	85.8	M
1	5	11.354	11.353	0.001	29036379	0.4485	36.1- 76.1	51.7	M
			Average of Peak Amounts =			0.4798			
2	100	10.778	10.780	-0.002	16790599	0.5137		100.0	M
2	2	11.362	11.363	-0.001	20440180	0.5135	105.6- 145.6	121.7	M
2	3	11.777	11.779	-0.002	22413694	0.5073	120.0- 160.0	133.5	M
2	4	12.292	12.292	0.000	12913272	0.4975	64.0- 104.0	76.9	M
2	5	13.080	13.080	0.000	10197536	0.5151	43.3- 83.3	60.7	M
			Average of Peak Amounts =			0.5094			
						RPD = 5.98			

QC Flag Legend

Review Flags
M - Manually Integrated

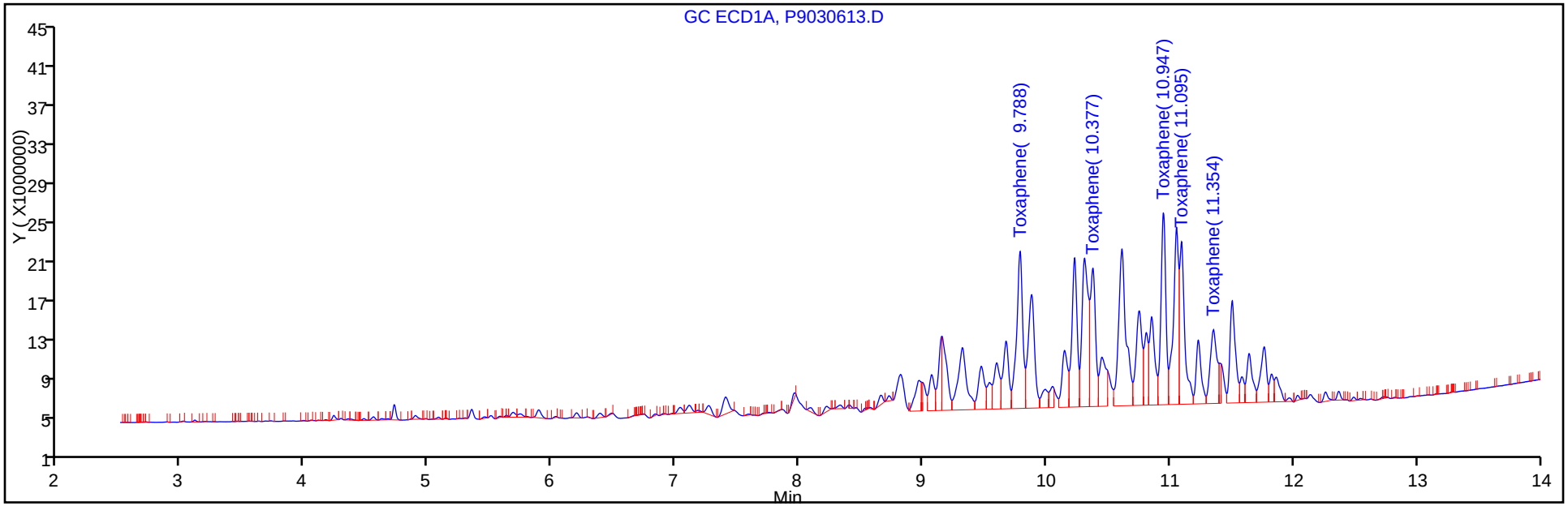
Report Date: 07-Mar-2013 08:00:09 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

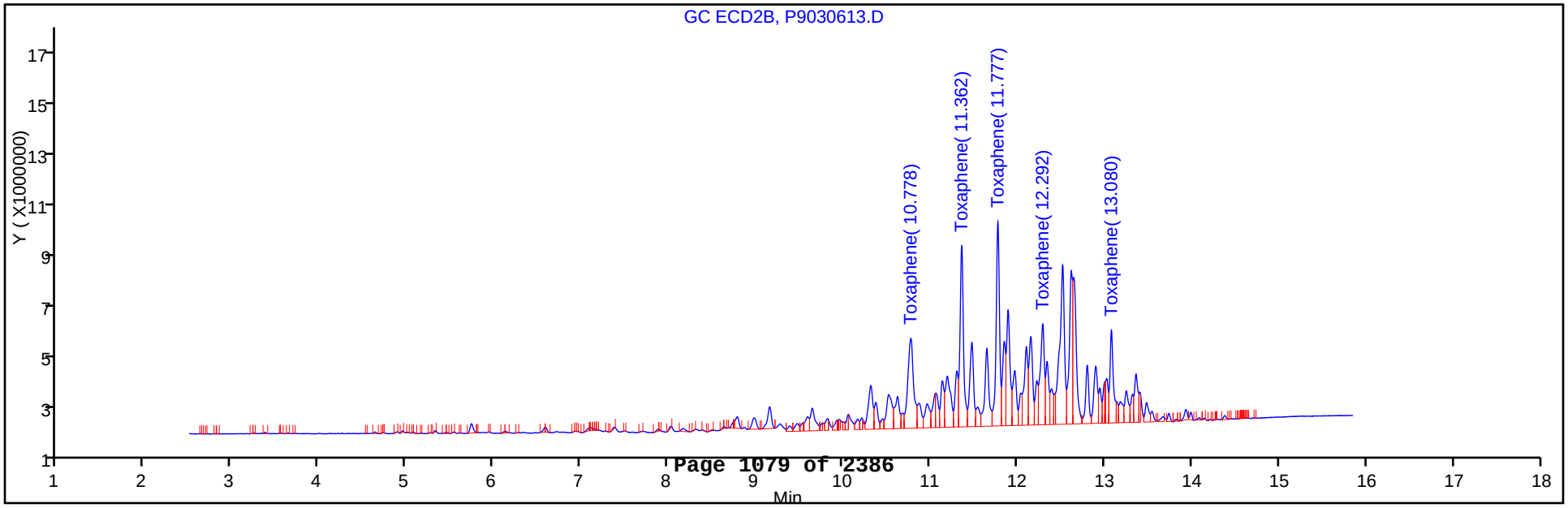
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030613.D

Injection Date:	06-Mar-2013 06:46:40	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	13
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



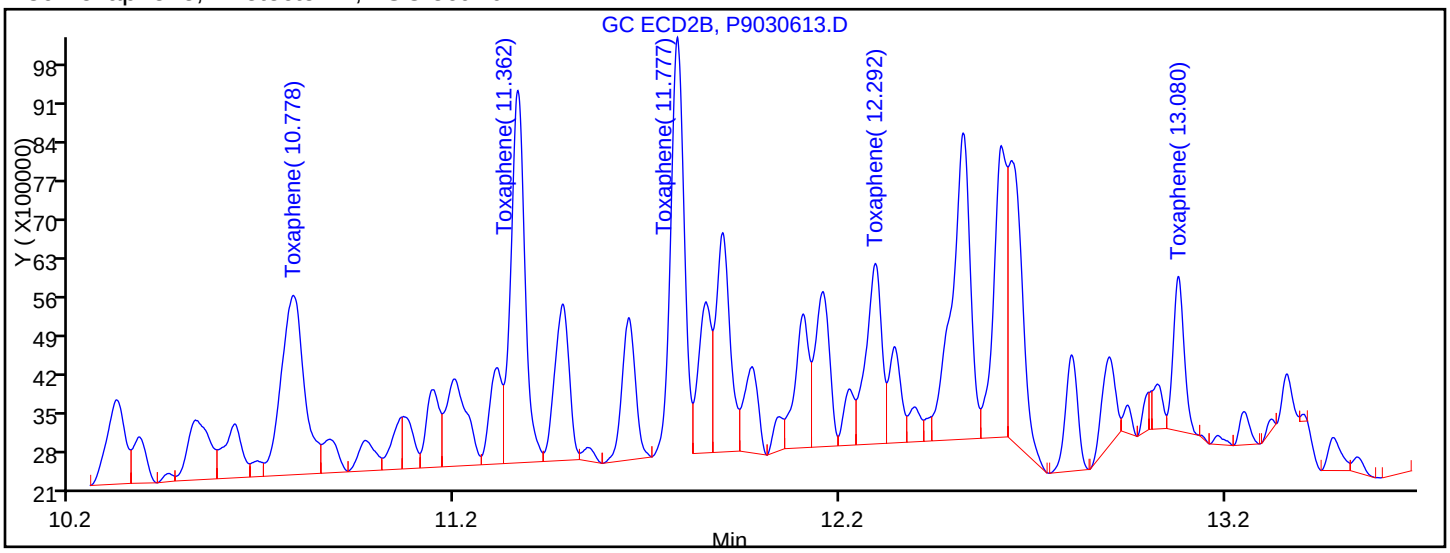
Report Date: 07-Mar-2013 08:00:09 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030613.D

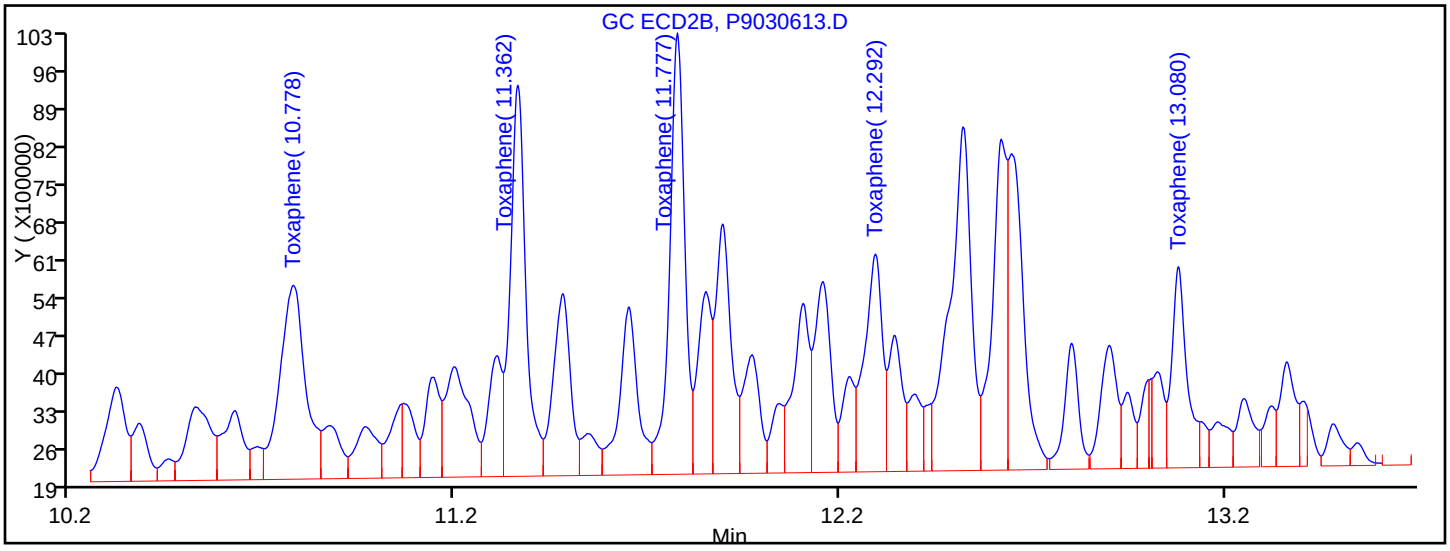
Injection Date:	06-Mar-2013 06:46:40	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	13
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.778	Response = 13651915	M
RT = 11.362	Response = 17235837	M
RT = 11.777	Response = 18490788	M
RT = 12.292	Response = 9271038	M
RT = 13.080	Response = 5506203	M



Manual Integration Results

RT = 10.778	Response = 16790599	M
RT = 11.362	Response = 20440180	M
RT = 11.777	Response = 22413694	M
RT = 12.292	Response = 12913272	M
RT = 13.080	Response = 10197536	M

Reviewer: vandorenc, 07-Mar-2013 07:53:22

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030614.D
Lims ID: STD TOX3 Client ID:
Inject. Date: 06-Mar-2013 07:14:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0017754-014
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 77220 Lims Sample ID: 14
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:09 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:39

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.786	0.000	120561399	1.06		100.0	M
1	2	10.378	10.378	0.000	90889787	1.06	55.4- 95.4	75.4	M
1	3	10.948	10.948	0.000	119882018	1.06	79.4- 119.4	99.4	M
1	4	11.094	11.094	0.000	111885495	1.10	72.8- 112.8	92.8	M
1	5	11.351	11.351	0.000	67651200	1.04	36.1- 76.1	56.1	M
			Average of Peak Amounts =			1.06			
2	100	10.779	10.779	0.000	32665558	1.00		100.0	M
2	2	11.362	11.362	0.000	41019411	1.03	105.6- 145.6	125.6	M
2	3	11.778	11.778	0.000	45730109	1.04	120.0- 160.0	140.0	M
2	4	12.292	12.292	0.000	27453370	1.06	64.0- 104.0	84.0	M
2	5	13.080	13.080	0.000	20670591	1.04	43.3- 83.3	63.3	M
			Average of Peak Amounts =			1.03			
						RPD = 2.93			

QC Flag Legend

Review Flags
M - Manually Integrated

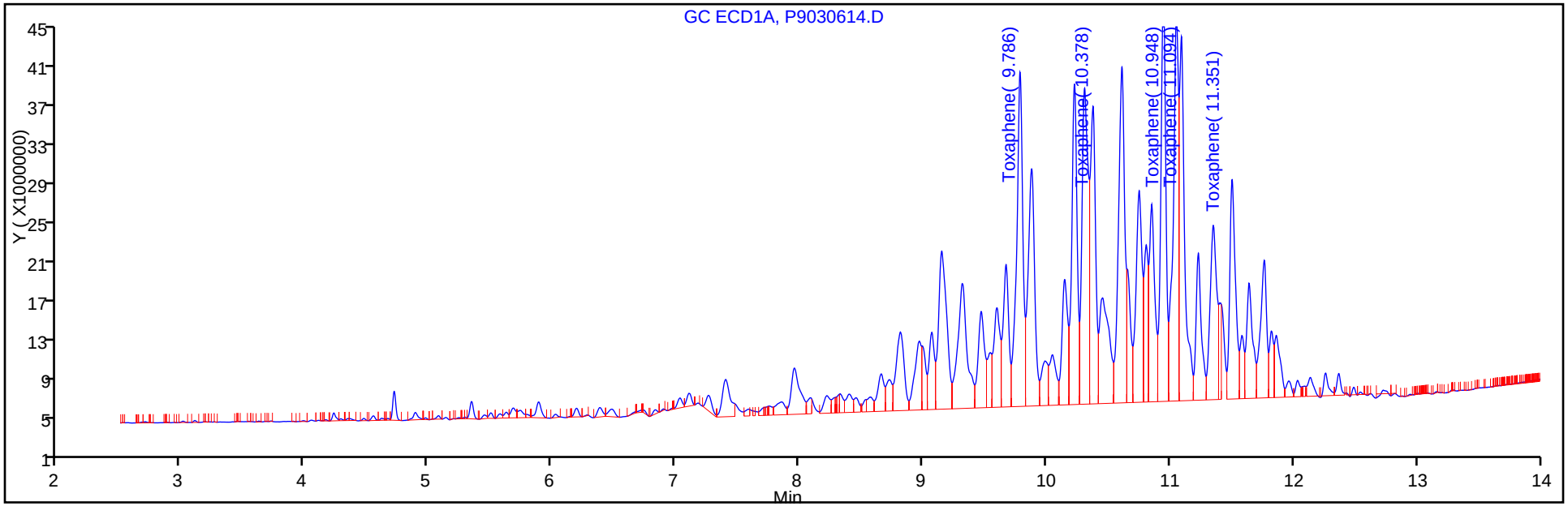
Report Date: 07-Mar-2013 08:00:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

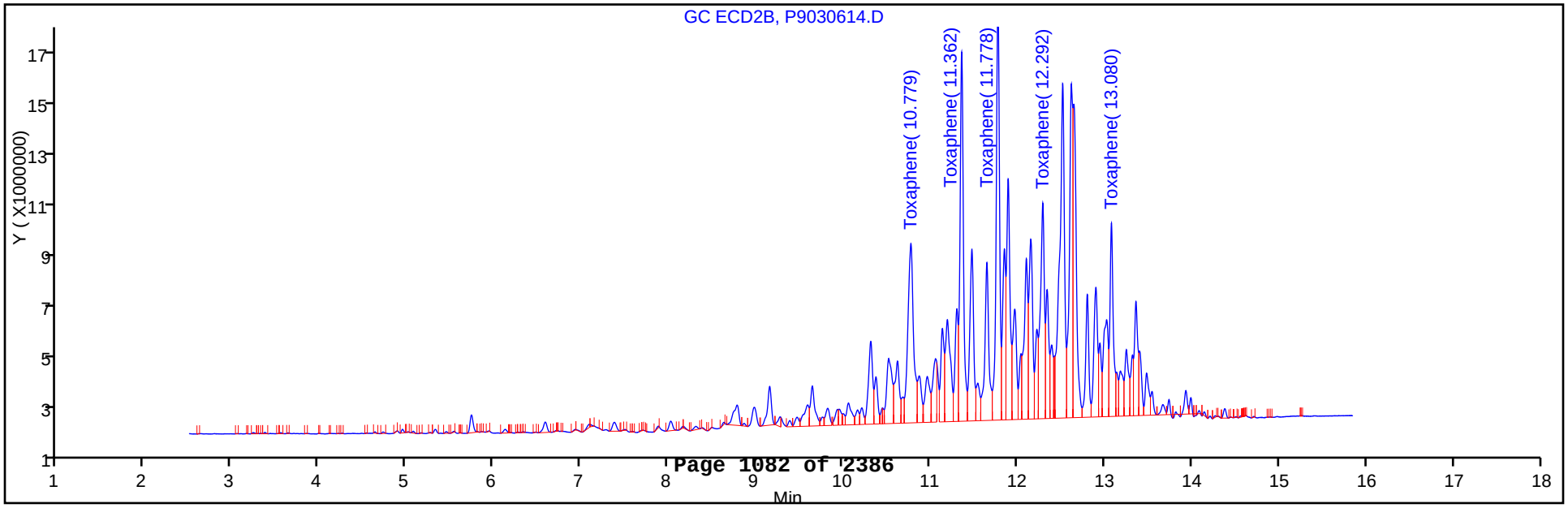
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030614.D

Injection Date:	06-Mar-2013 07:14:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	14
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



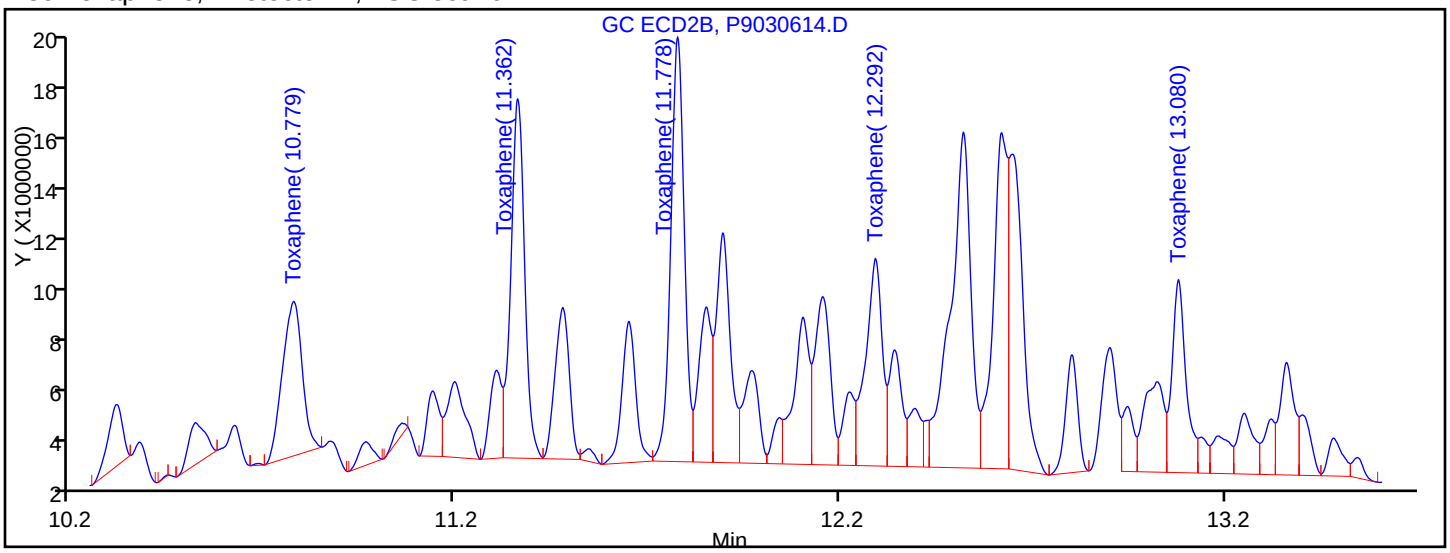
Report Date: 07-Mar-2013 08:00:11 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030614.D

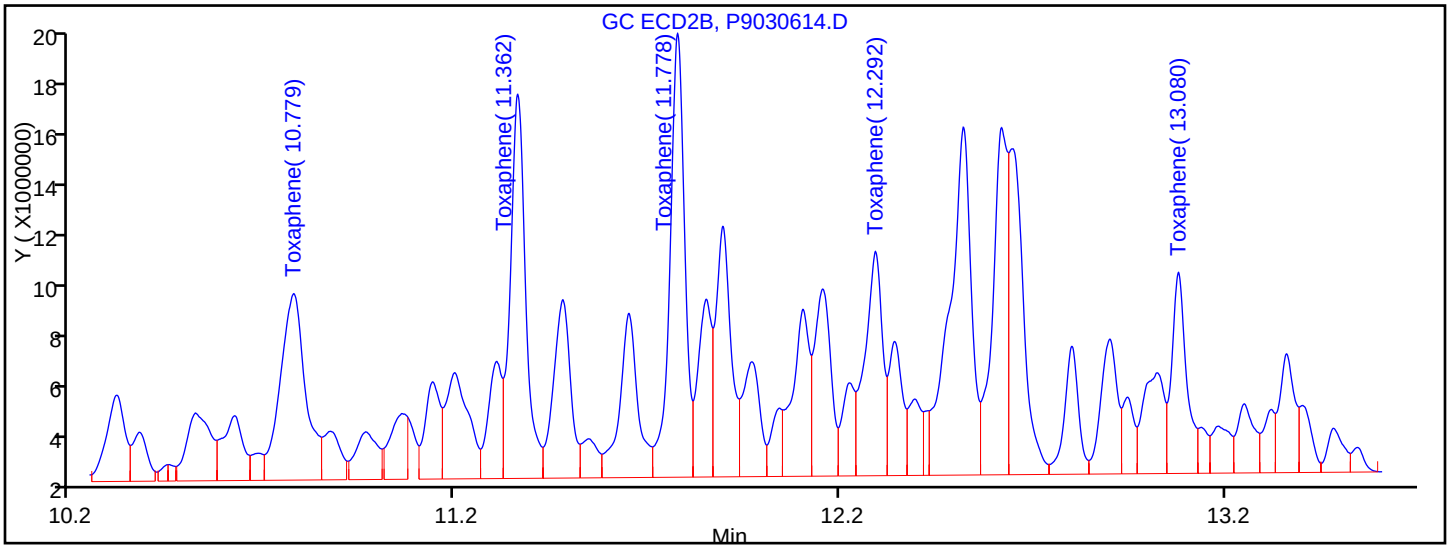
Injection Date:	06-Mar-2013 07:14:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	14
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.779	Response = 20997208	M
RT = 11.362	Response = 33810525	M
RT = 11.778	Response = 39460223	M
RT = 12.292	Response = 23666467	M
RT = 13.080	Response = 18608875	M



Manual Integration Results

RT = 10.779	Response = 32665558	M
RT = 11.362	Response = 41019411	M
RT = 11.778	Response = 45730109	M
RT = 12.292	Response = 27453370	M
RT = 13.080	Response = 20670591	M

Reviewer: vandorenc, 07-Mar-2013 07:53:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030615.D
Lims ID: STD TOX4 Client ID:
Inject. Date: 06-Mar-2013 07:42:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0017754-015
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 77220 Lims Sample ID: 15
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:11 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:53:53

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.786	0.000	208788837	1.83		100.0	M
1	2	10.376	10.378	-0.002	155761910	1.82	55.4- 95.4	74.6	M
1	3	10.947	10.948	-0.001	210144665	1.86	79.4- 119.4	100.6	M
1	4	11.093	11.094	-0.001	192824802	1.89	72.8- 112.8	92.4	M
1	5	11.350	11.351	-0.001	127747755	1.97	36.1- 76.1	61.2	M
			Average of Peak Amounts =			1.87			
2	100	10.777	10.779	-0.002	59095891	1.81		100.0	M
2	2	11.361	11.362	-0.001	71444470	1.79	105.6- 145.6	120.9	M
2	3	11.776	11.778	-0.002	80250819	1.82	120.0- 160.0	135.8	M
2	4	12.292	12.292	0.000	47643814	1.84	64.0- 104.0	80.6	M
2	5	13.079	13.080	-0.001	36359804	1.84	43.3- 83.3	61.5	M
			Average of Peak Amounts =			1.82			
						RPD = 3.03			

QC Flag Legend

Review Flags
M - Manually Integrated

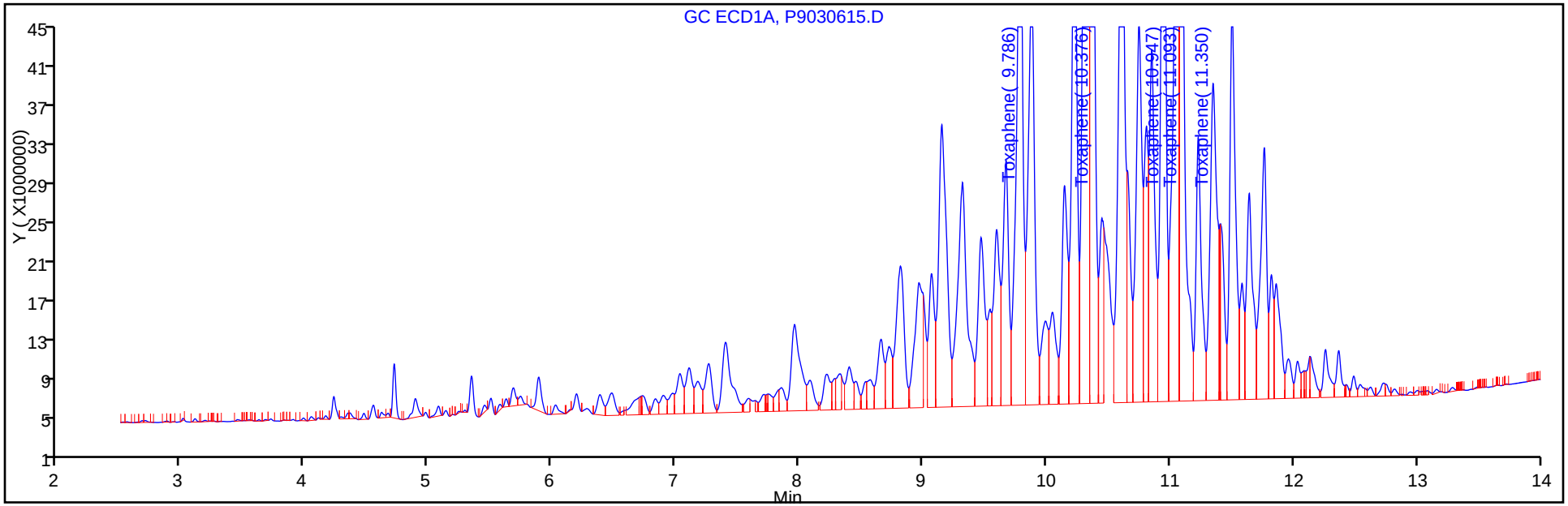
Report Date: 07-Mar-2013 08:00:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

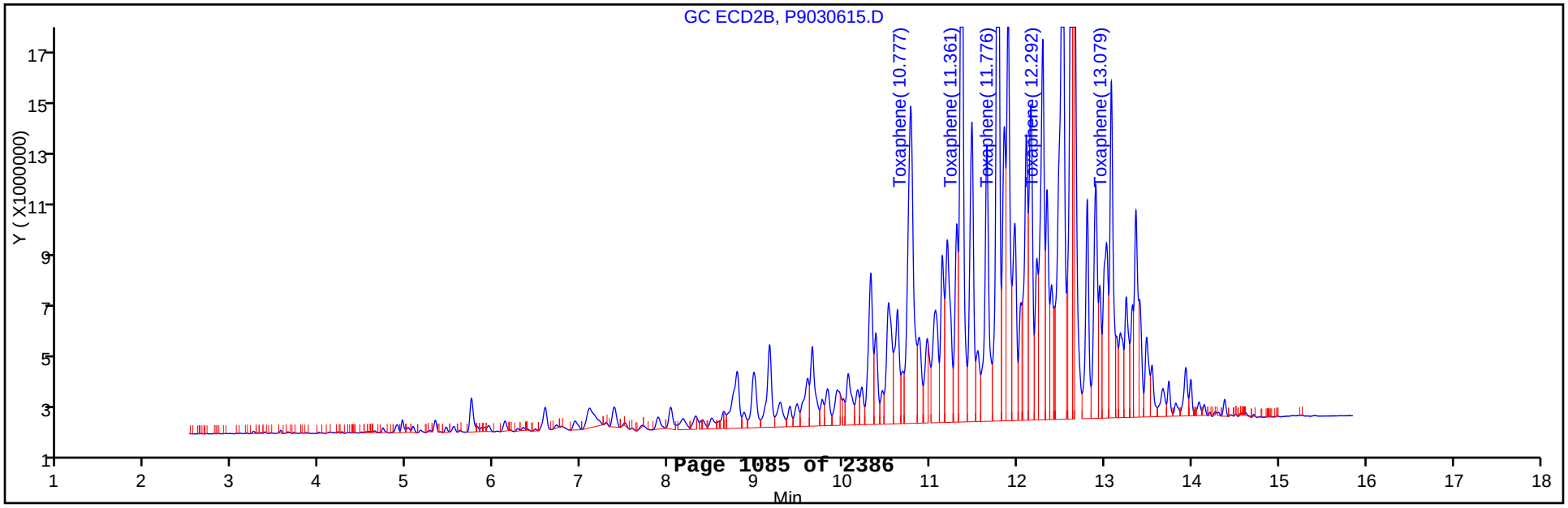
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030615.D

Injection Date:	06-Mar-2013 07:42:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	15
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



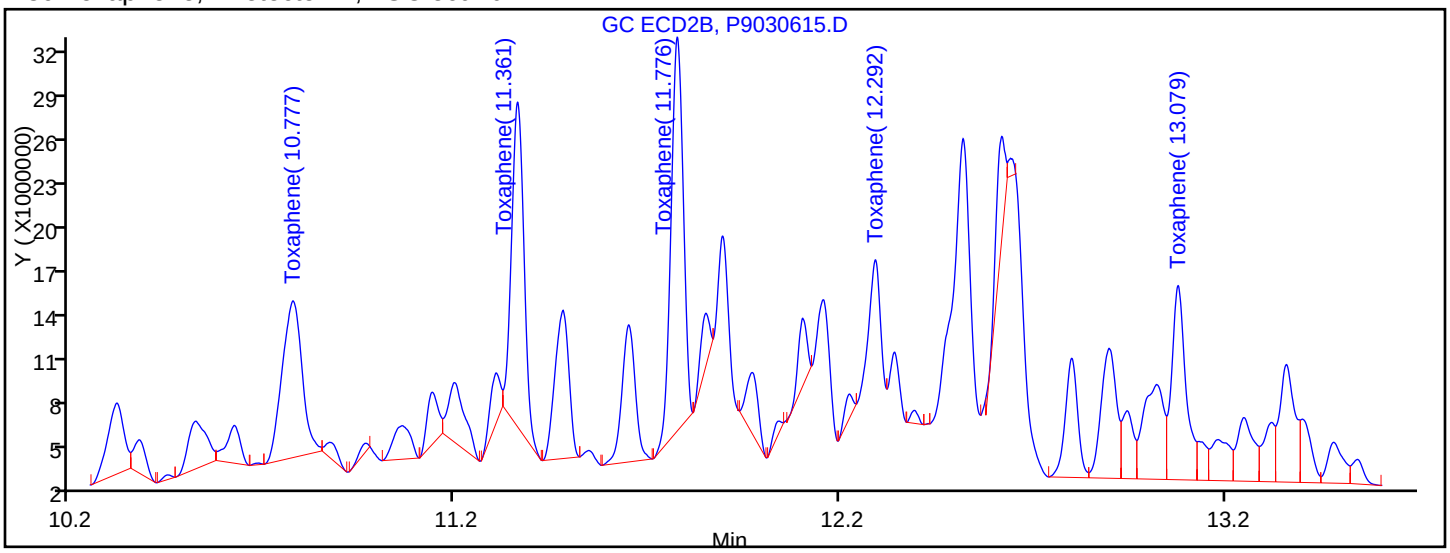
Report Date: 07-Mar-2013 08:00:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030615.D

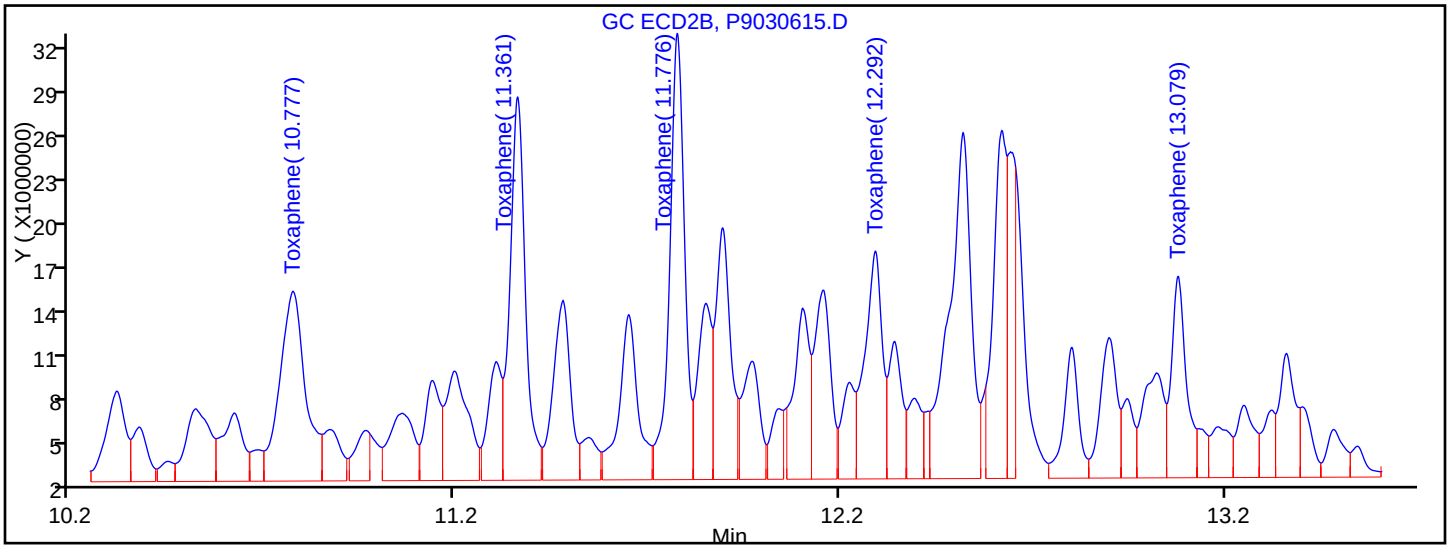
Injection Date:	06-Mar-2013 07:42:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	15
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.777	Response = 36999184	M
RT = 11.361	Response = 47609920	M
RT = 11.776	Response = 57091921	M
RT = 12.292	Response = 17822606	M
RT = 13.079	Response = 32694865	M



Manual Integration Results

RT = 10.777	Response = 59095891	M
RT = 11.361	Response = 71444470	M
RT = 11.776	Response = 80250819	M
RT = 12.292	Response = 47643814	M
RT = 13.079	Response = 36359804	M

Reviewer: vandorenc, 07-Mar-2013 07:53:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030616.D
Lims ID: STD TOX5 Client ID:
Inject. Date: 06-Mar-2013 08:10:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0017754-016
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 16
Lims Batch ID: 77220 Lims Sample ID: 16
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:13 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:54:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.788	9.786	0.002	593710113	5.20		100.0	M
1	2	10.377	10.378	-0.001	460242702	5.37	55.4- 95.4	77.5	M
1	3	10.947	10.948	-0.001	596392884	5.28	79.4- 119.4	100.5	M
1	4	11.094	11.094	0.000	552135918	5.42	72.8- 112.8	93.0	M
1	5	11.350	11.351	-0.001	368988977	5.70	36.1- 76.1	62.1	M
			Average of Peak Amounts =			5.39			
2	100	10.780	10.779	0.001	167010465	5.11		100.0	M
2	2	11.361	11.362	-0.001	201800205	5.07	105.6- 145.6	120.8	M
2	3	11.776	11.778	-0.002	232061823	5.25	120.0- 160.0	139.0	M
2	4	12.291	12.292	-0.001	139410816	5.37	64.0- 104.0	83.5	M
2	5	13.078	13.080	-0.002	107851370	5.45	43.3- 83.3	64.6	M
			Average of Peak Amounts =			5.25			
						RPD = 2.69			

QC Flag Legend

Review Flags
M - Manually Integrated

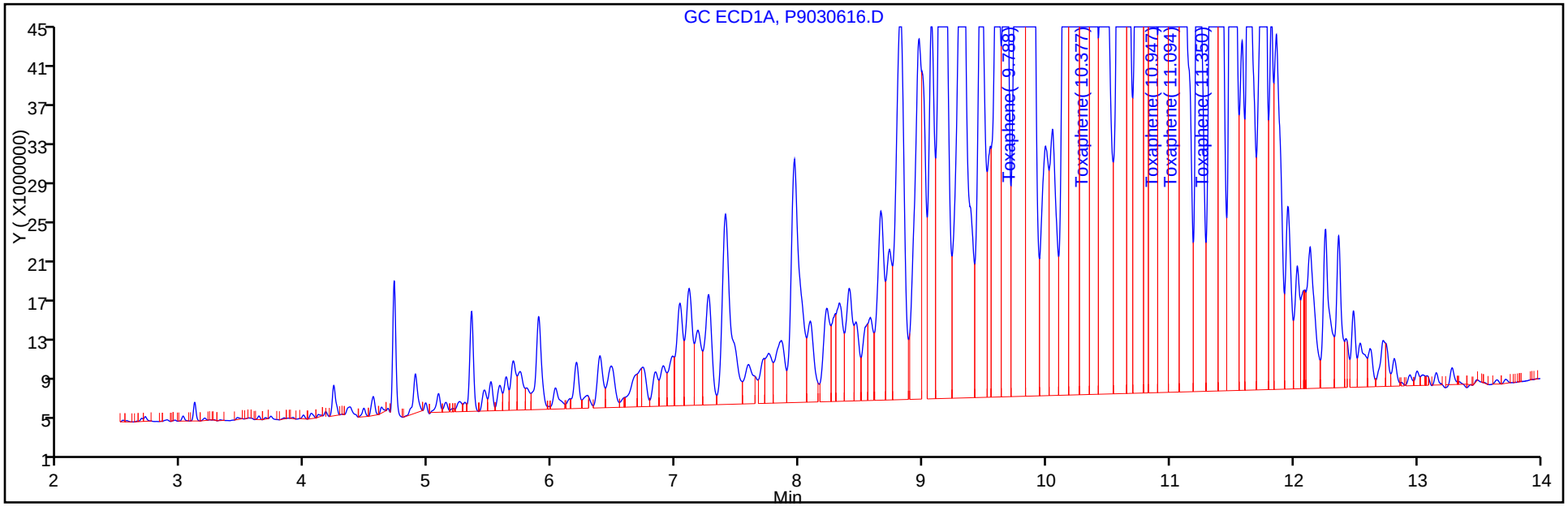
Report Date: 07-Mar-2013 08:00:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

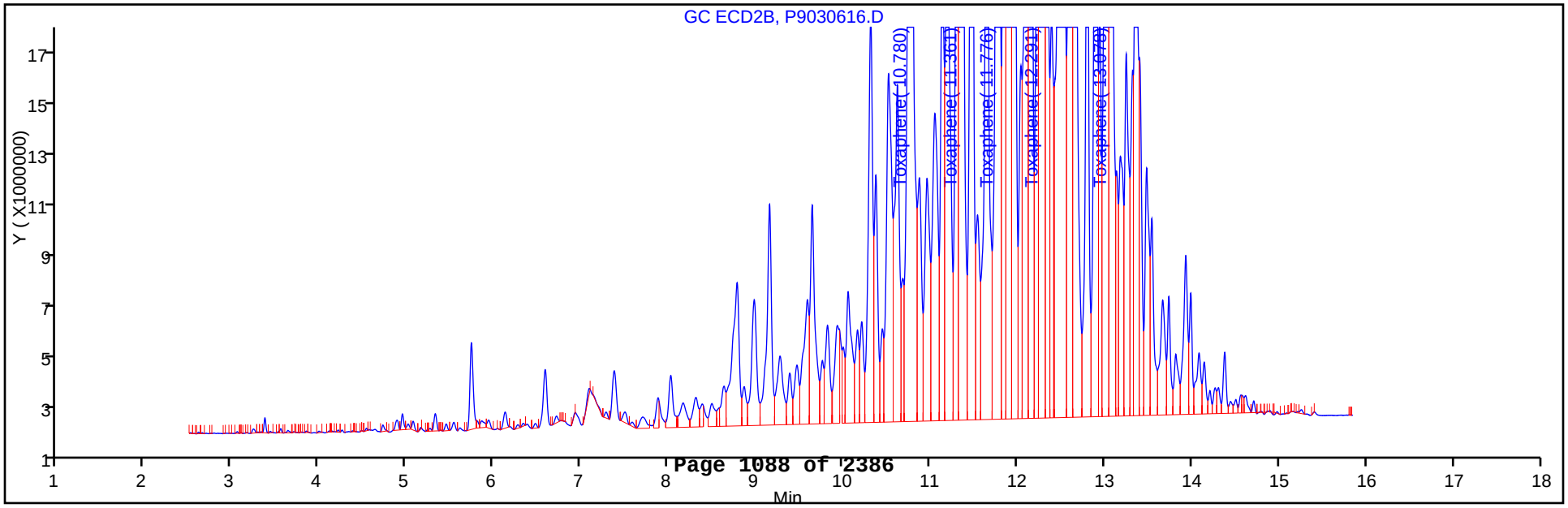
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030616.D

Injection Date:	06-Mar-2013 08:10:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	16
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



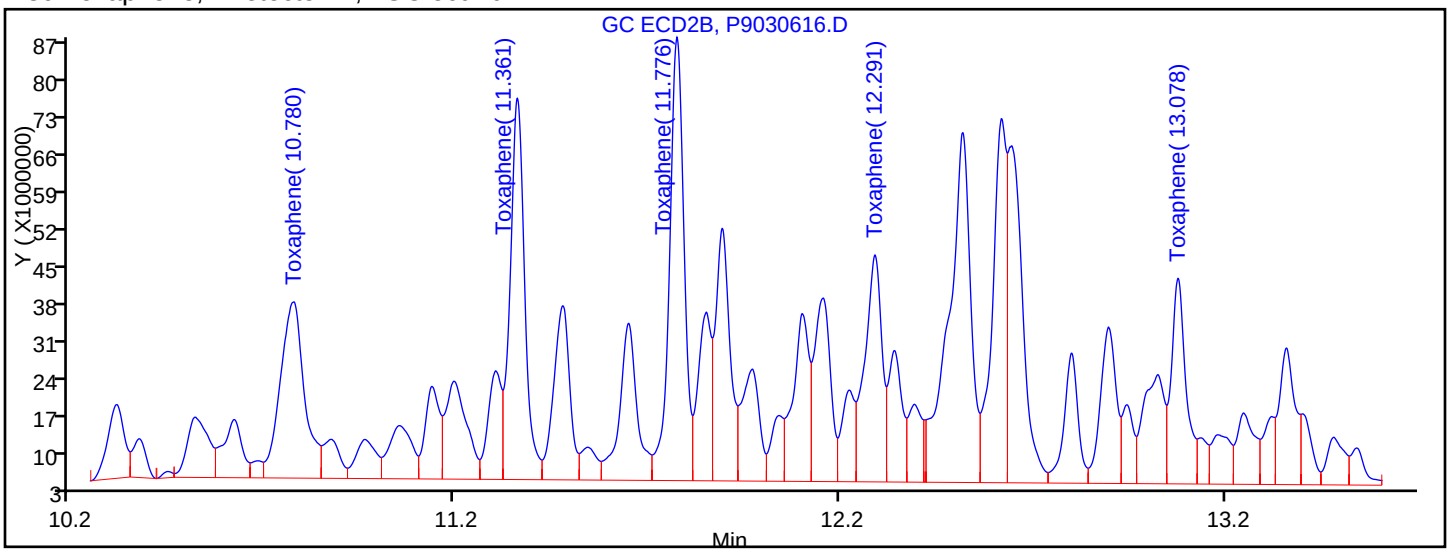
Report Date: 07-Mar-2013 08:00:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030616.D

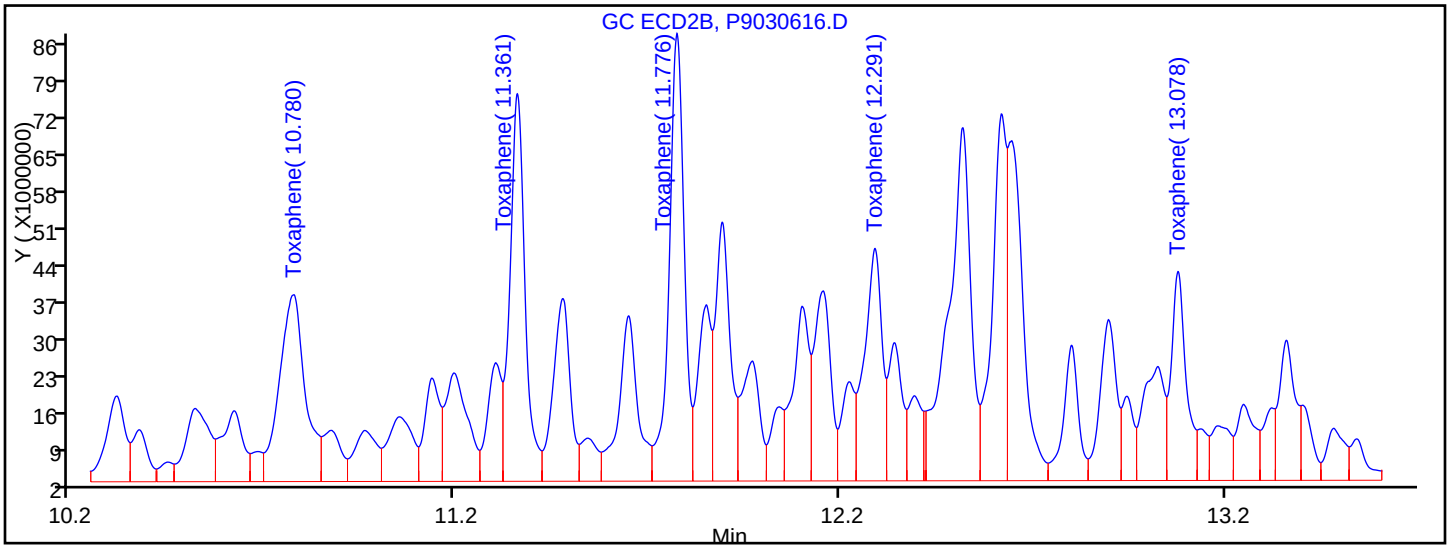
Injection Date:	06-Mar-2013 08:10:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	16
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.780	Response = 144806529	M
RT = 11.361	Response = 188805732	M
RT = 11.776	Response = 219927570	M
RT = 12.291	Response = 131717935	M
RT = 13.078	Response = 102317946	M



Manual Integration Results

RT = 10.780	Response = 167010465	M
RT = 11.361	Response = 201800205	M
RT = 11.776	Response = 232061823	M
RT = 12.291	Response = 139410816	M
RT = 13.078	Response = 107851370	M

Reviewer: vandorenc, 07-Mar-2013 07:54:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14372

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-80447/5	P9040305.D
Level 2	STD 240-80447/6	P9040306.D
Level 3	STD 240-80447/7	P9040307.D
Level 4	STD 240-80447/8	P9040308.D
Level 5	STD 240-80447/9	P9040309.D
Level 6	STD 240-80447/10	P9040310.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.384	4.385	4.384	4.384	4.385	4.385					4.354 - 4.414	4.385
gamma-BHC (Lindane)	4.792	4.792	4.790	4.792	4.791	4.792					4.760 - 4.820	4.792
beta-BHC	4.936	4.936	4.935	4.934	4.935	4.935					4.905 - 4.965	4.935
delta-BHC	5.175	5.175	5.173	5.174	5.173	5.172					5.143 - 5.203	5.174
Heptachlor	5.482	5.483	5.482	5.484	5.482	5.484					5.447 - 5.517	5.483
Aldrin	5.987	5.986	5.984	5.986	5.986	5.986					5.954 - 6.014	5.986
Heptachlor epoxide	7.362	7.362	7.359	7.360	7.361	7.361					7.329 - 7.389	7.361
gamma-Chlordane	7.679	7.678	7.677	7.679	7.677	7.677					7.647 - 7.707	7.678
alpha-Chlordane	8.001	8.002	7.999	8.004	8.002	8.001					7.969 - 8.029	8.002
Endosulfan I	8.262	8.261	8.260	8.263	8.261	8.261					8.230 - 8.290	8.261
4,4'-DDE	8.361	8.358	8.353	8.353	8.351	8.348					8.323 - 8.383	8.354
Dieldrin	8.788	8.790	8.787	8.789	8.789	8.789					8.757 - 8.817	8.789
Endrin	9.224	9.225	9.222	9.224	9.224	9.224					9.192 - 9.252	9.224
4,4'-DDD	9.578	9.573	9.570	9.566	9.565	9.560					9.540 - 9.600	9.569
Endosulfan II	9.656	9.657	9.655	9.656	9.655	9.656					9.625 - 9.685	9.656
4,4'-DDT	10.065	10.064	10.062	10.063	10.060	10.058					10.032 - 10.092	10.062
Endrin aldehyde	10.425	10.424	10.422	10.423	10.423	10.422					10.392 - 10.452	10.423
Methoxychlor	10.987	10.986	10.984	10.984	10.981	10.978					10.954 - 11.014	10.983
Endosulfan sulfate	11.132	11.131	11.130	11.130	11.131	11.130					11.100 - 11.160	11.131
Endrin ketone	11.528	11.528	11.527	11.528	11.528	11.527					11.497 - 11.557	11.528
Tetrachloro-m-xylene	3.690	3.689	3.689	3.689	3.690	3.690					3.659 - 3.719	3.690
DCB Decachlorobiphenyl	13.107	13.107	13.106	13.106	13.107	13.107					13.076 - 13.136	13.107

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14372

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-80447/5	P9040305.D
Level 2	STD 240-80447/6	P9040306.D
Level 3	STD 240-80447/7	P9040307.D
Level 4	STD 240-80447/8	P9040308.D
Level 5	STD 240-80447/9	P9040309.D
Level 6	STD 240-80447/10	P9040310.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	4547838000 4405851720	4410373400 4204949820	4426994600	4520126720	Ave		4419355710				2.7		20.0			
gamma-BHC (Lindane)	4010337000 3859698870	3843652500 3668779150	3848167440	3963931380	Ave		3865761057				3.1		20.0			
beta-BHC	1665928600 1525187880	1578883600 1461396870	1564888680	1572615440	Ave		1561483512				4.3		20.0			
delta-BHC	3857557800 3971281860	3489533100 3766722480	3846903840	4052275100	Ave		3830712363				5.1		20.0			
Heptachlor	4022707400 3588683120	3812789700 3351758270	3753173520	3784612340	Ave		3718954058				6.1		20.0			
Aldrin	4265484600 3800127230	4001991900 3542835765	3899326120	3974972320	Ave		3914122989				6.1		20.0			
Heptachlor epoxide	3969042000 3414302990	3726769300 3144130655	3615394360	3605877480	Ave		3579252798				7.8		20.0			
gamma-Chlordane	3910394400 3605242260	3681097600 3436988205	3632654240	3705028280	Ave		3661900831				4.2		20.0			
alpha-Chlordane	3997135600 3579365470	3728953100 3410859430	3663901400	3721805100	Ave		3683670017				5.3		20.0			
Endosulfan I	3663744600 3114551510	3388476800 2877875595	3278741200	3299175320	Ave		3270427504				8.1		20.0			
4,4'-DDE	3565330600 3496794070	3258029700 3408907495	3329863040	3599427740	Ave		3443058774				3.9		20.0			
Dieldrin	3816818600 3459664830	3564160100 3240023340	3551281640	3633457620	Ave		3544234355				5.4		20.0			
Endrin	3459432800 3105712830	3354934700 2881243730	3289284880	3290306040	Ave		3230152497				6.4		20.0			
4,4'-DDD	1654735600 2129473440	1754681400 2195409850	1876519400	2029481180	Ave		1940050145				11.0		20.0			
Endosulfan II	3627183400 3242523150	3710151700 2881148080	3491460000	3382780620	Ave		3389207825				8.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14372

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	2289987800 2609594630	2343526600 2481859220	2493455680	2559757080	Ave		2463030168				5.0		20.0			
Endrin aldehyde	2417960600 2258968700	2333914400 2129195185	2345124480	2361244580	Ave		2307734658				4.4		20.0			
Methoxychlor	1145556200 1155816630	1174453400 1109885260	1211671160	1200211380	Ave		1166265672				3.2		20.0			
Endosulfan sulfate	2884009400 2712039510	2812382100 2542331260	2857574440	2844995500	Ave		2775555368				4.6		20.0			
Endrin ketone	3322530400 2964188710	3127099600 2802625320	3099174800	3080333860	Ave		3065992115				5.7		20.0			
Tetrachloro-m-xylene	3106550200 2812771730	2941612100 2705518555	2915461720	2887283680	Ave		2894866331				4.6		20.0			
DCB Decachlorobiphenyl	3024367200 2741381070	2928548200 2673948325	2878079320	2819159660	Ave		2844247296				4.5		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14372

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-80447/5	P9040305.D
Level 2	STD 240-80447/6	P9040306.D
Level 3	STD 240-80447/7	P9040307.D
Level 4	STD 240-80447/8	P9040308.D
Level 5	STD 240-80447/9	P9040309.D
Level 6	STD 240-80447/10	P9040310.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	22739190 840989964	44103734	110674865	226006336	440585172	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-BHC (Lindane)	Ave	20051685 733755830	38436525	96204186	198196569	385969887	0.00500 0.200	0.0100	0.0250	0.0500	0.100
beta-BHC	Ave	8329643 292279374	15788836	39122217	78630772	152518788	0.00500 0.200	0.0100	0.0250	0.0500	0.100
delta-BHC	Ave	19287789 753344496	34895331	96172596	202613755	397128186	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor	Ave	20113537 670351654	38127897	93829338	189230617	358868312	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Aldrin	Ave	21327423 708567153	40019919	97483153	198748616	380012723	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor epoxide	Ave	19845210 628826131	37267693	90384859	180293874	341430299	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-Chlordane	Ave	19551972 687397641	36810976	90816356	185251414	360524226	0.00500 0.200	0.0100	0.0250	0.0500	0.100
alpha-Chlordane	Ave	19985678 682171886	37289531	91597535	186090255	357936547	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan I	Ave	18318723 575575119	33884768	81968530	164958766	311455151	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDE	Ave	17826653 681781499	32580297	83246576	179971387	349679407	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Dieldrin	Ave	19084093 648004668	35641601	88782041	181672881	345966483	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin	Ave	17297164 576248746	33549347	82232122	164515302	310571283	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDD	Ave	8273678 439081970	17546814	46912985	101474059	212947344	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan II	Ave	18135917 576229616	37101517	87286500	169139031	324252315	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDT	Ave	11449939 496371844	23435266	62336392	127987854	260959463	0.00500 0.200	0.0100	0.0250	0.0500	0.100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14372

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	12089803 425839037	23339144	58628112	118062229	225896870	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Methoxychlor	Ave	5727781 221977052	11744534	30291779	60010569	115581663	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan sulfate	Ave	14420047 508466252	28123821	71439361	142249775	271203951	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin ketone	Ave	16612652 560525064	31270996	77479370	154016693	296418871	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Tetrachloro-m-xylene	Ave	15532751 541103711	29416121	72886543	144364184	281277173	0.00500 0.200	0.0100	0.0250	0.0500	0.100
DCB Decachlorobiphenyl	Ave	15121836 534789665	29285482	71951983	140957983	274138107	0.00500 0.200	0.0100	0.0250	0.0500	0.100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040305.D
Lims ID: STD AB L1 Client ID:
Inject. Date: 03-Apr-2013 18:24:52 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018512-005
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 80447 Lims Sample ID: 5
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:36 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	15532751	0.005366			
2	100	4.321	4.320	0.001	5093409	0.005221			
						RPD = 2.72			
5 alpha-BHC									
1	100	4.384	4.384	0.000	22739190	0.005145			
2	100	5.255	5.254	0.001	6736625	0.004875			
						RPD = 5.40			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	20051685	0.005187			
2	100	5.910	5.909	0.001	6072252	0.004955			
						RPD = 4.58			
7 beta-BHC									
1	100	4.936	4.935	0.001	8329643	0.005334			
2	100	6.118	6.117	0.001	2743214	0.005315			
						RPD = 0.36			
11 delta-BHC									
1	100	5.175	5.173	0.002	19287789	0.005035			
2	100	6.782	6.780	0.002	5206420	0.004679			
						RPD = 7.34			
22 Heptachlor									
1	100	5.482	5.482	0.000	20113537	0.005408			
2	100	6.856	6.854	0.002	6714813	0.005306			
						RPD = 1.91			
4 Aldrin									
1	100	5.987	5.984	0.003	21327423	0.005449			
2	100	7.683	7.683	0.000	6315512	0.005146			
						RPD = 5.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.362	7.359	0.003	19845210	0.005545			
2	100	9.068	9.069	-0.001	5789850	0.005319			
						RPD = 4.15			
21 gamma-Chlordane									
1	100	7.679	7.677	0.002	19551972	0.005339			
2	100	9.454	9.453	0.001	5648937	0.005208			
						RPD = 2.49			
6 alpha-Chlordane									
1	100	8.001	7.999	0.002	19985678	0.005425			
2	100	9.749	9.748	0.001	5769442	0.005259			
						RPD = 3.11			
14 Endosulfan I									
1	100	8.262	8.260	0.002	18318723	0.005601			
2	100	9.817	9.817	0.000	5483438	0.005354			
						RPD = 4.52			
2 4,4'-DDE									
1	100	8.361	8.353	0.008	17826653	0.005178			
2	100	10.175	10.173	0.002	5109528	0.004987			
						RPD = 3.76			
13 Dieldrin									
1	100	8.788	8.787	0.001	19084093	0.005385			
2	100	10.326	10.326	0.000	5809098	0.005091			
						RPD = 5.60			
17 Endrin									
1	100	9.224	9.222	0.002	17297164	0.005355			
2	100	10.838	10.838	0.000	5334348	0.005181			
						RPD = 3.29			
1 4,4'-DDD									
1	100	9.578	9.570	0.008	8273678	0.004265			
2	100	11.160	11.159	0.001	2330206	0.004286			
						RPD = 0.50			
15 Endosulfan II									
1	100	9.656	9.655	0.001	18135917	0.005351			
2	100	11.203	11.202	0.001	5851173	0.005333			
						RPD = 0.34			
3 4,4'-DDT									
1	100	10.065	10.062	0.003	11449939	0.004649			
2	100	11.635	11.633	0.002	3709536	0.005095			
						RPD = 9.16			
18 Endrin aldehyde									
1	100	10.425	10.422	0.003	12089803	0.005239			
2	100	11.757	11.757	0.000	4092130	0.005343			
						RPD = 1.96			
27 Methoxychlor									
1	100	10.987	10.984	0.003	5727781	0.004911			
2	100	12.702	12.702	0.000	2029901	0.005213			
						RPD = 5.96			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.132	11.130	0.002	14420047	0.005195			
2	100	12.173	12.173	0.000	4572388	0.005394			
						RPD = 3.75			
19 Endrin ketone									
1	100	11.528	11.527	0.001	16612652	0.005418			
2	100	12.926	12.925	0.001	5229621	0.005358			
						RPD = 1.12			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	15121836	0.005317			
2	100	14.651	14.650	0.001	6001978	0.005758			
						RPD = 7.96			

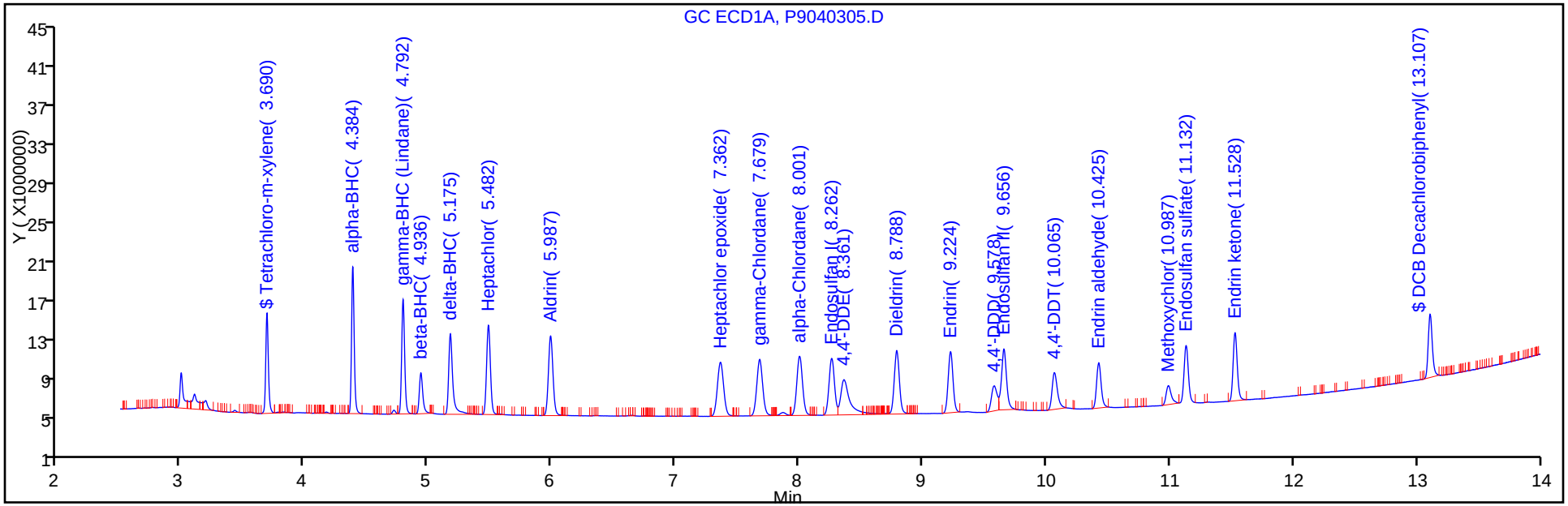
Report Date: 04-Apr-2013 15:32:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

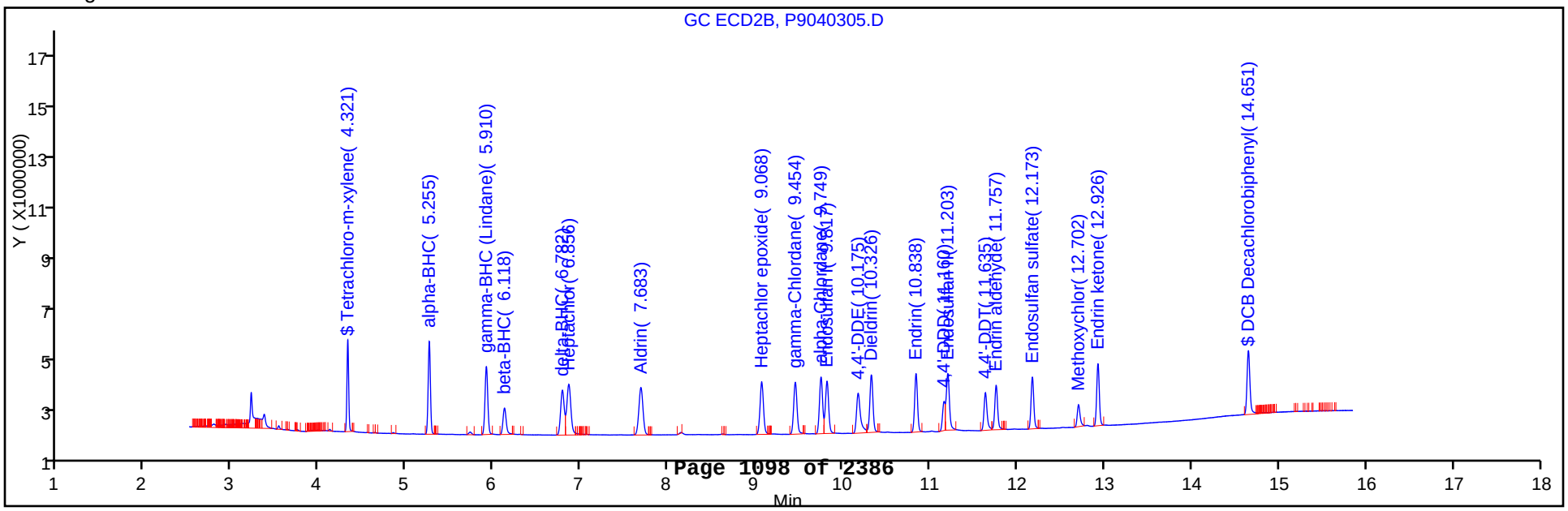
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040305.D

Injection Date:	03-Apr-2013 18:24:52	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	5
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040306.D
Lims ID: STD AB L2 Client ID:
Inject. Date: 03-Apr-2013 18:52:48 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018512-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 80447 Lims Sample ID: 6
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:34 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	29416121	0.0102			
2	100	4.321	4.320	0.001	9771357	0.0100			
						RPD = 1.43			
5 alpha-BHC									
1	100	4.385	4.384	0.001	44103734	0.0100			
2	100	5.256	5.254	0.002	13167141	0.009528			
						RPD = 4.63			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	38436525	0.0099			
2	100	5.910	5.909	0.001	11850031	0.009669			
						RPD = 2.79			
7 beta-BHC									
1	100	4.936	4.935	0.001	15788836	0.0101			
2	100	6.119	6.117	0.002	5212623	0.0101			
						RPD = 0.12			
11 delta-BHC									
1	100	5.175	5.173	0.002	34895331	0.009109			
2	100	6.782	6.780	0.002	10187406	0.009155			
						RPD = 0.49			
22 Heptachlor									
1	100	5.483	5.482	0.001	38127897	0.0103			
2	100	6.856	6.854	0.002	12827370	0.0101			
						RPD = 1.14			
4 Aldrin									
1	100	5.986	5.984	0.002	40019919	0.0102			
2	100	7.684	7.683	0.001	11901621	0.009699			
						RPD = 5.28			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.362	7.359	0.003	37267693	0.0104			
2	100	9.070	9.069	0.001	10908624	0.0100			
						RPD = 3.82			
21 gamma-Chlordane									
1	100	7.678	7.677	0.001	36810976	0.0101			
2	100	9.454	9.453	0.001	10609947	0.009782			
						RPD = 2.73			
6 alpha-Chlordane									
1	100	8.002	7.999	0.003	37289531	0.0101			
2	100	9.750	9.748	0.002	10837539	0.009879			
						RPD = 2.44			
14 Endosulfan I									
1	100	8.261	8.260	0.001	33884768	0.0104			
2	100	9.817	9.817	0.000	10115001	0.009876			
						RPD = 4.79			
2 4,4'-DDE									
1	100	8.358	8.353	0.005	32580297	0.009463			
2	100	10.174	10.173	0.001	9582872	0.009352			
						RPD = 1.17			
13 Dieldrin									
1	100	8.790	8.787	0.003	35641601	0.0101			
2	100	10.326	10.326	0.000	10819823	0.009482			
						RPD = 5.88			
17 Endrin									
1	100	9.225	9.222	0.003	33549347	0.0104			
2	100	10.839	10.838	0.001	10121283	0.009831			
						RPD = 5.49			
1 4,4'-DDD									
1	100	9.573	9.570	0.003	17546814	0.009045			
2	100	11.160	11.159	0.001	4838780	0.008900			
						RPD = 1.61			
15 Endosulfan II									
1	100	9.657	9.655	0.002	37101517	0.0109			
2	100	11.203	11.202	0.001	11081684	0.0101			
						RPD = 8.04			
3 4,4'-DDT									
1	100	10.064	10.062	0.002	23435266	0.009515			
2	100	11.633	11.633	0.000	7185488	0.009869			
						RPD = 3.65			
18 Endrin aldehyde									
1	100	10.424	10.422	0.002	23339144	0.0101			
2	100	11.757	11.757	0.000	7898346	0.0103			
						RPD = 1.94			
27 Methoxychlor									
1	100	10.986	10.984	0.002	11744534	0.0101			
2	100	12.702	12.702	0.000	3915948	0.0101			
						RPD = 0.13			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.130	0.001	28123821	0.0101			
2	100	12.173	12.173	0.000	8566699	0.0101			
						RPD = 0.26			
19 Endrin ketone									
1	100	11.528	11.527	0.001	31270996	0.0102			
2	100	12.926	12.925	0.001	9921946	0.0102			
						RPD = 0.33			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	29285482	0.0103			
2	100	14.650	14.650	0.000	11012388	0.0106			
						RPD = 2.57			

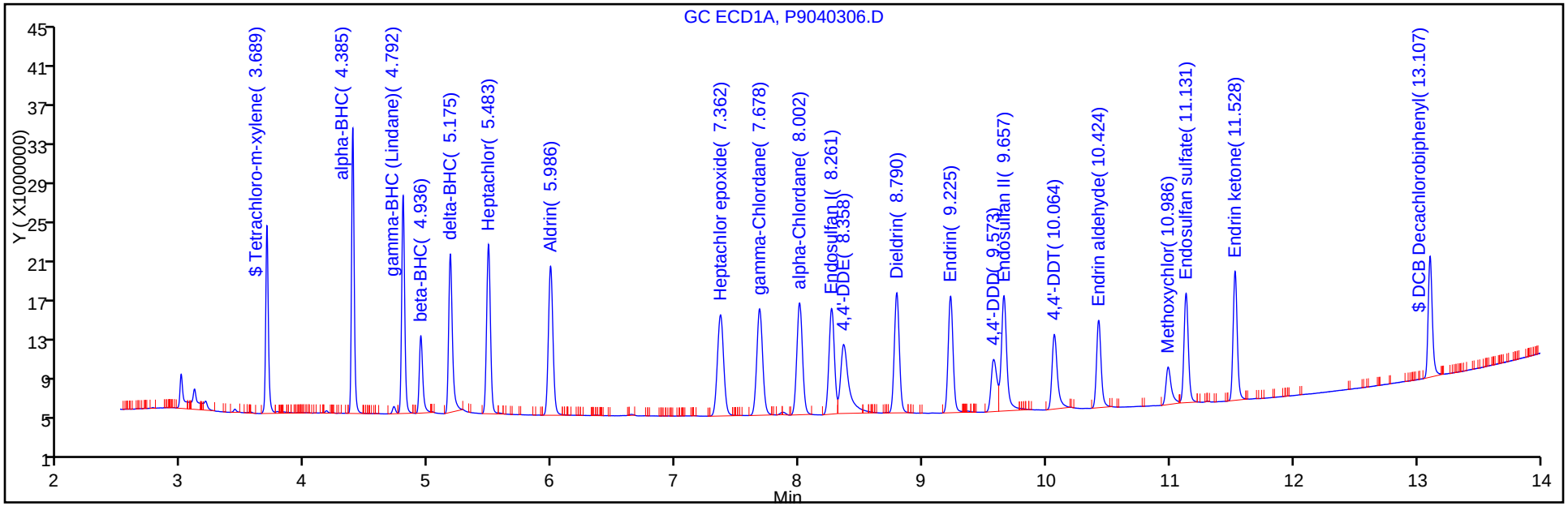
Report Date: 04-Apr-2013 15:32:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

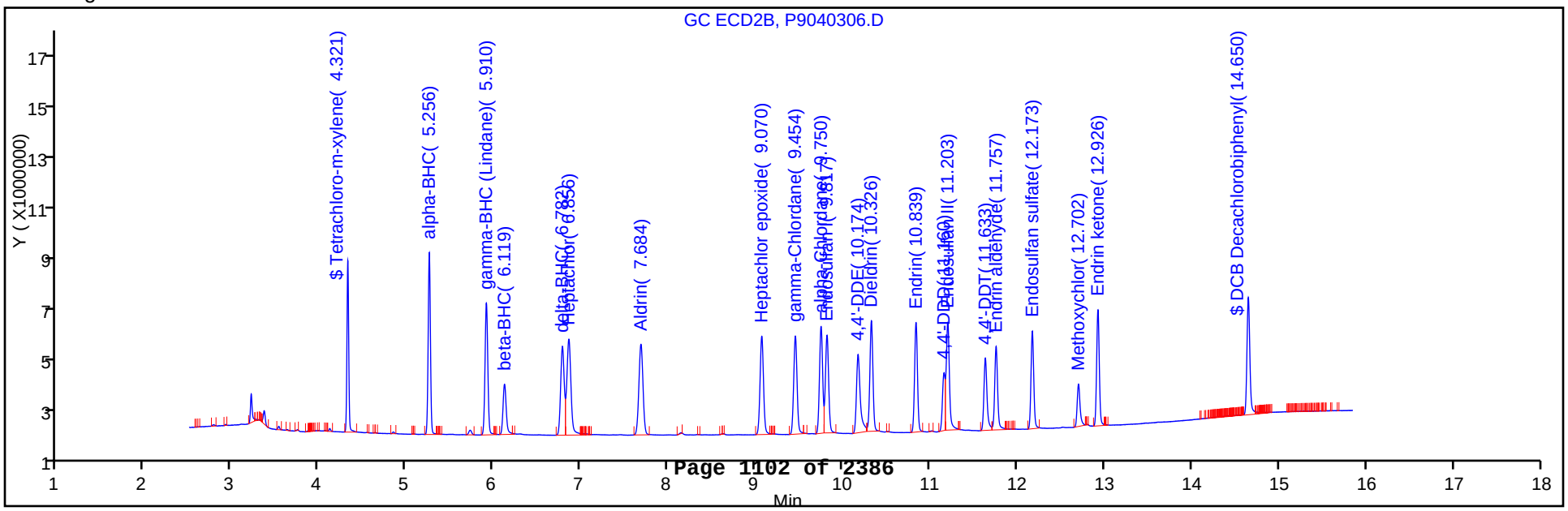
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040306.D

Injection Date:	03-Apr-2013 18:52:48	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	6
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040307.D
Lims ID: STD AB L3 Client ID:
Inject. Date: 03-Apr-2013 19:20:53 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 3
Sample ID: 240-0018512-007
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 80447 Lims Sample ID: 7
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:32 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	72886543	0.0252			
2	100	4.320	4.320	0.000	24432623	0.0250			
						RPD = 0.52			
5 alpha-BHC									
1	100	4.384	4.384	0.000	110674865	0.0250			
2	100	5.254	5.254	0.000	33852725	0.0245			
						RPD = 2.20			
20 gamma-BHC (Lindane)									
1	100	4.790	4.790	0.000	96204186	0.0249			
2	100	5.909	5.909	0.000	30019782	0.0245			
						RPD = 1.59			
7 beta-BHC									
1	100	4.935	4.935	0.000	39122217	0.0251			
2	100	6.117	6.117	0.000	12592817	0.0244			
						RPD = 2.65			
11 delta-BHC									
1	100	5.173	5.173	0.000	96172596	0.0251			
2	100	6.780	6.780	0.000	26589368	0.0239			
						RPD = 4.95			
22 Heptachlor									
1	100	5.482	5.482	0.000	93829338	0.0252			
2	100	6.854	6.854	0.000	30470770	0.0241			
						RPD = 4.67			
4 Aldrin									
1	100	5.984	5.984	0.000	97483153	0.0249			
2	100	7.683	7.683	0.000	29770812	0.0243			
						RPD = 2.63			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.359	7.359	0.000	90384859	0.0253			
2	100	9.069	9.069	0.000	26700834	0.0245			
						RPD = 2.91			
21 gamma-Chlordane									
1	100	7.677	7.677	0.000	90816356	0.0248			
2	100	9.453	9.453	0.000	26576851	0.0245			
						RPD = 1.21			
6 alpha-Chlordane									
1	100	7.999	7.999	0.000	91597535	0.0249			
2	100	9.748	9.748	0.000	26847061	0.0245			
						RPD = 1.59			
14 Endosulfan I									
1	100	8.260	8.260	0.000	81968530	0.0251			
2	100	9.817	9.817	0.000	25464251	0.0249			
						RPD = 0.80			
2 4,4'-DDE									
1	100	8.353	8.353	0.000	83246576	0.0242			
2	100	10.173	10.173	0.000	25065901	0.0245			
						RPD = 1.17			
13 Dieldrin									
1	100	8.787	8.787	0.000	88782041	0.0250			
2	100	10.326	10.326	0.000	28816294	0.0253			
						RPD = 0.81			
17 Endrin									
1	100	9.222	9.222	0.000	82232122	0.0255			
2	100	10.838	10.838	0.000	25394397	0.0247			
						RPD = 3.16			
1 4,4'-DDD									
1	100	9.570	9.570	0.000	46912985	0.0242			
2	100	11.159	11.159	0.000	13080269	0.0241			
						RPD = 0.51			
15 Endosulfan II									
1	100	9.655	9.655	0.000	87286500	0.0258			
2	100	11.202	11.202	0.000	27733348	0.0253			
						RPD = 1.87			
3 4,4'-DDT									
1	100	10.062	10.062	0.000	62336392	0.0253			
2	100	11.633	11.633	0.000	17683548	0.0243			
						RPD = 4.12			
18 Endrin aldehyde									
1	100	10.422	10.422	0.000	58628112	0.0254			
2	100	11.757	11.757	0.000	18192730	0.0238			
						RPD = 6.73			
27 Methoxychlor									
1	100	10.984	10.984	0.000	30291779	0.0260			
2	100	12.702	12.702	0.000	9982161	0.0256			
						RPD = 1.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	71439361	0.0257			
2	100	12.173	12.173	0.000	20898775	0.0247			
						RPD = 4.30			
19 Endrin ketone									
1	100	11.527	11.527	0.000	77479370	0.0253			
2	100	12.925	12.925	0.000	24054908	0.0246			
						RPD = 2.50			
$ 10 DCB Decachlorobiphenyl									
1	100	13.106	13.106	0.000	71951983	0.0253			
2	100	14.650	14.650	0.000	26336375	0.0253			
						RPD = 0.13			

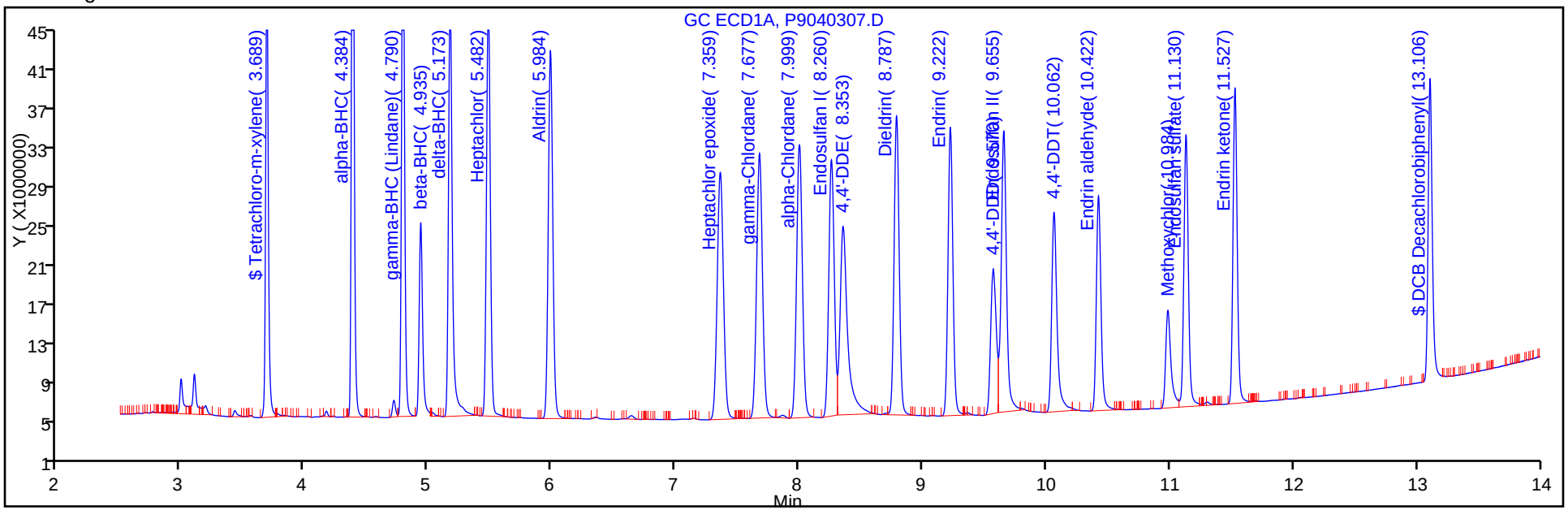
Report Date: 04-Apr-2013 15:32:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

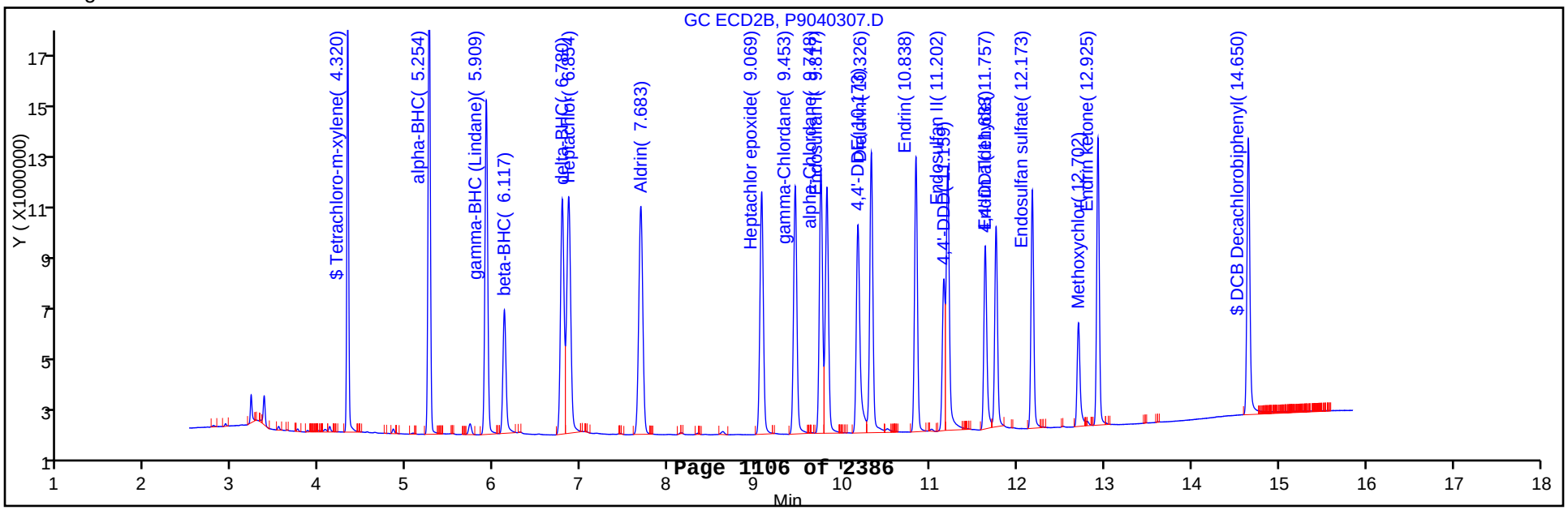
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040307.D

Injection Date:	03-Apr-2013 19:20:53	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	7
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040308.D		
Lims ID:	STD AB L4	Client ID:	
Inject. Date:	03-Apr-2013 19:48:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018512-008		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	80447	Lims Sample ID:	8
Sublist:	chrom-PEST9*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:31	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: shockr Date: 04-Apr-2013 12:30:18

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	144364184	0.0499			
2	100	4.321	4.320	0.001	49417721	0.0507			
						RPD = 1.57			
5 alpha-BHC									
1	100	4.384	4.384	0.000	226006336	0.0511			
2	100	5.256	5.254	0.002	72062858	0.0521			
						RPD = 1.95			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	198196569	0.0513			
2	100	5.911	5.909	0.002	63566371	0.0519			
						RPD = 1.16			
7 beta-BHC									
1	100	4.934	4.935	-0.001	78630772	0.0504			
2	100	6.118	6.117	0.001	25897349	0.0502			
						RPD = 0.36			
11 delta-BHC									
1	100	5.174	5.173	0.001	202613755	0.0529			
2	100	6.782	6.780	0.002	58160590	0.0523			
						RPD = 1.19			
22 Heptachlor									
1	100	5.484	5.482	0.002	189230617	0.0509			
2	100	6.857	6.854	0.003	64745764	0.0512			
						RPD = 0.55			
4 Aldrin									
1	100	5.986	5.984	0.002	198748616	0.0508			
2	100	7.684	7.683	0.001	63063087	0.0514			
						RPD = 1.20			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.360	7.359	0.001	180293874	0.0504			
2	100	9.069	9.069	0.000	55350934	0.0508			
						RPD = 0.94			
21 gamma-Chlordane									
1	100	7.679	7.677	0.002	185251414	0.0506			
2	100	9.454	9.453	0.001	55258992	0.0509			
						RPD = 0.70			
6 alpha-Chlordane									
1	100	8.004	7.999	0.005	186090255	0.0505			
2	100	9.750	9.748	0.002	55842804	0.0509			
						RPD = 0.76			
14 Endosulfan I									
1	100	8.263	8.260	0.003	164958766	0.0504			
2	100	9.819	9.817	0.002	52031675	0.0508			
						RPD = 0.72			
2 4,4'-DDE									
1	100	8.353	8.353	0.000	179971387	0.0523			
2	100	10.173	10.173	0.000	52630011	0.0514			
						RPD = 1.75			
13 Dieldrin									
1	100	8.789	8.787	0.002	181672881	0.0513			
2	100	10.327	10.326	0.001	59364307	0.0520			
						RPD = 1.49			
17 Endrin									
1	100	9.224	9.222	0.002	164515302	0.0509			
2	100	10.839	10.838	0.001	52649588	0.0511			
						RPD = 0.41			
1 4,4'-DDD									
1	100	9.566	9.570	-0.004	101474059	0.0523			
2	100	11.155	11.159	-0.004	28577811	0.0526			
						RPD = 0.50			
15 Endosulfan II									
1	100	9.656	9.655	0.001	169139031	0.0499			
2	100	11.204	11.202	0.002	55506003	0.0506			
						RPD = 1.37			
3 4,4'-DDT									
1	100	10.063	10.062	0.001	127987854	0.0520			
2	100	11.632	11.633	-0.001	36656921	0.0503			
						RPD = 3.16			
18 Endrin aldehyde									
1	100	10.423	10.422	0.001	118062229	0.0512			
2	100	11.757	11.757	0.000	38445853	0.0502			
						RPD = 1.90			
27 Methoxychlor									
1	100	10.984	10.984	0.000	60010569	0.0515			
2	100	12.701	12.702	-0.001	19578058	0.0503			
						RPD = 2.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	142249775	0.0513			
2	100	12.173	12.173	0.000	42373042	0.0500			
						RPD = 2.50			
19 Endrin ketone									
1	100	11.528	11.527	0.001	154016693	0.0502			
2	100	12.926	12.925	0.001	48775028	0.0500			
						RPD = 0.52			
$ 10 DCB Decachlorobiphenyl									
1	100	13.106	13.106	0.000	140957983	0.0496			
2	100	14.651	14.650	0.001	50533779	0.0485			
						RPD = 2.21			

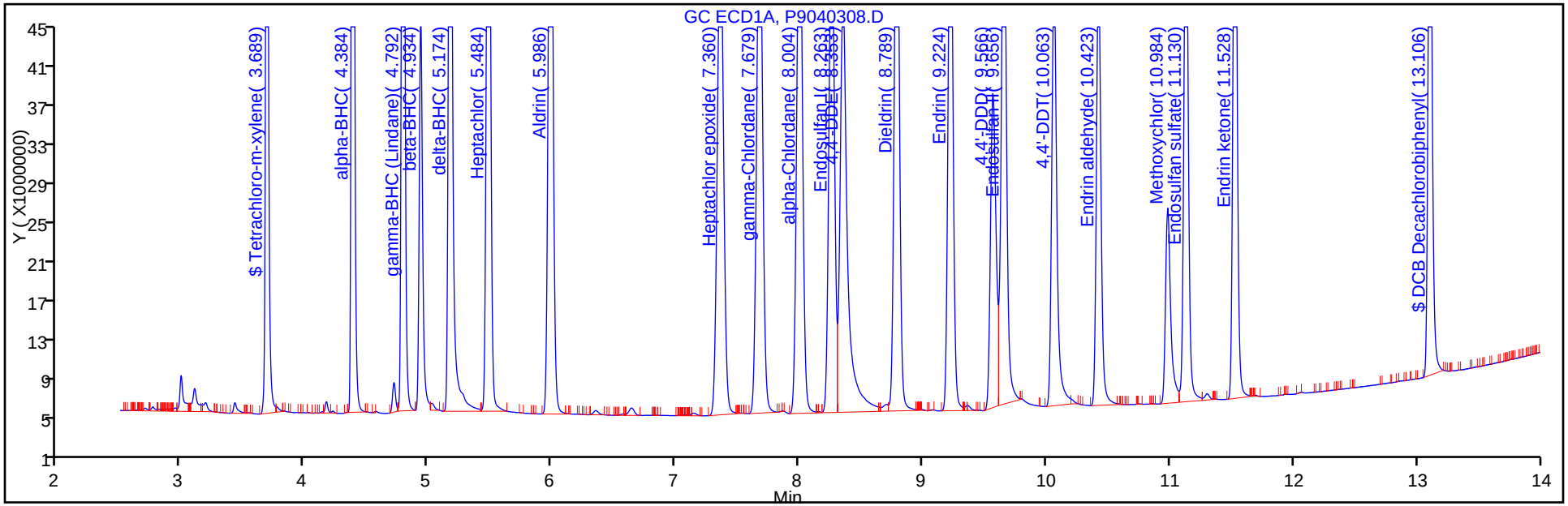
Report Date: 04-Apr-2013 15:32:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

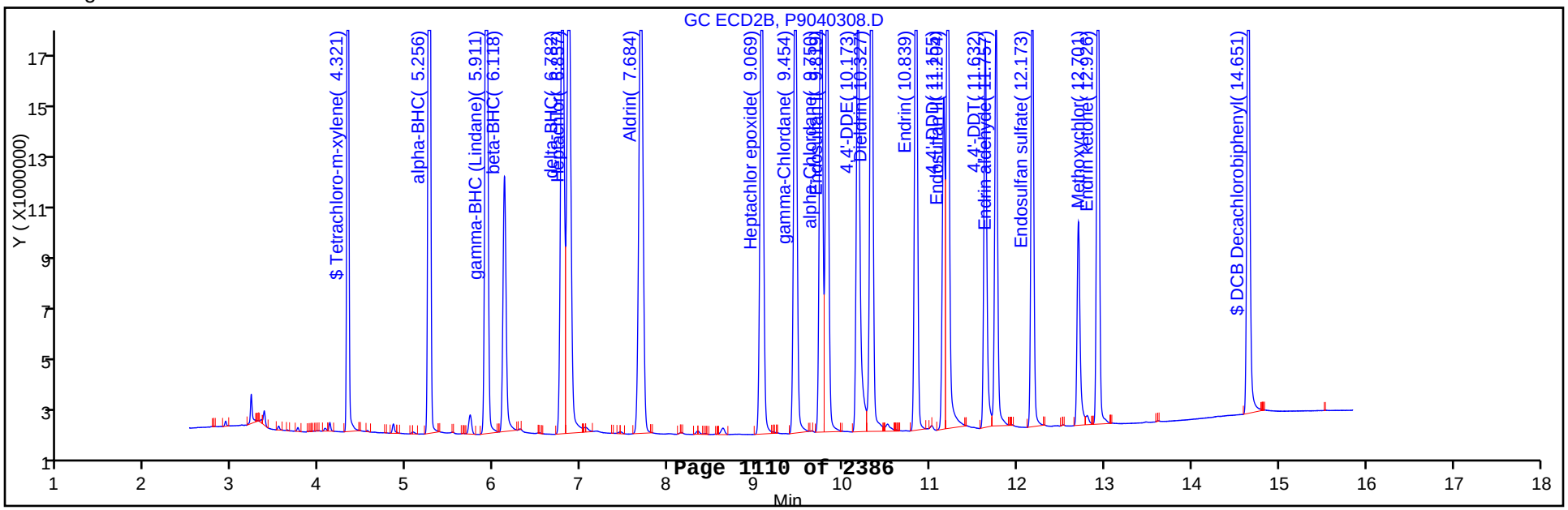
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040308.D

Injection Date:	03-Apr-2013 19:48:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	8
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040309.D
Lims ID: STD AB L5 Client ID:
Inject. Date: 03-Apr-2013 20:16:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018512-009
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 80447 Lims Sample ID: 9
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:29 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	281277173	0.0972			
2	100	4.321	4.320	0.001	95969359	0.0984			
						RPD = 1.25			
5 alpha-BHC									
1	100	4.385	4.384	0.001	440585172	0.0997			
2	100	5.256	5.254	0.002	143335189	0.1037			
						RPD = 3.96			
20 gamma-BHC (Lindane)									
1	100	4.791	4.790	0.001	385969887	0.0998			
2	100	5.911	5.909	0.002	125877449	0.1027			
						RPD = 2.83			
7 beta-BHC									
1	100	4.935	4.935	0.000	152518788	0.0977			
2	100	6.118	6.117	0.001	51219094	0.0992			
						RPD = 1.59			
11 delta-BHC									
1	100	5.173	5.173	0.000	397128186	0.1037			
2	100	6.782	6.780	0.002	119505762	0.1074			
						RPD = 3.52			
22 Heptachlor									
1	100	5.482	5.482	0.000	358868312	0.0965			
2	100	6.855	6.854	0.001	126083017	0.0996			
						RPD = 3.20			
4 Aldrin									
1	100	5.986	5.984	0.002	380012723	0.0971			
2	100	7.684	7.683	0.001	124977992	0.1018			
						RPD = 4.78			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	341430299	0.0954			
2	100	9.068	9.069	-0.001	107895015	0.0991			
						RPD = 3.83			
21 gamma-Chlordane									
1	100	7.677	7.677	0.000	360524226	0.0985			
2	100	9.453	9.453	0.000	109419885	0.1009			
						RPD = 2.43			
6 alpha-Chlordane									
1	100	8.002	7.999	0.003	357936547	0.0972			
2	100	9.749	9.748	0.001	109684073	0.1000			
						RPD = 2.86			
14 Endosulfan I									
1	100	8.261	8.260	0.001	311455151	0.0952			
2	100	9.817	9.817	0.000	101080192	0.0987			
						RPD = 3.57			
2 4,4'-DDE									
1	100	8.351	8.353	-0.002	349679407	0.1016			
2	100	10.171	10.173	-0.002	105846989	0.1033			
						RPD = 1.70			
13 Dieldrin									
1	100	8.789	8.787	0.002	345966483	0.0976			
2	100	10.326	10.326	0.000	115402264	0.1011			
						RPD = 3.54			
17 Endrin									
1	100	9.224	9.222	0.002	310571283	0.0961			
2	100	10.839	10.838	0.001	103114332	0.1002			
						RPD = 4.09			
1 4,4'-DDD									
1	100	9.565	9.570	-0.005	212947344	0.1098			
2	100	11.154	11.159	-0.005	59416864	0.1093			
						RPD = 0.43			
15 Endosulfan II									
1	100	9.655	9.655	0.000	324252315	0.0957			
2	100	11.203	11.202	0.001	107410610	0.0979			
						RPD = 2.30			
3 4,4'-DDT									
1	100	10.060	10.062	-0.002	260959463	0.1060			
2	100	11.632	11.633	-0.001	73676168	0.1012			
						RPD = 4.60			
18 Endrin aldehyde									
1	100	10.423	10.422	0.001	225896870	0.0979			
2	100	11.757	11.757	0.000	75926612	0.0991			
						RPD = 1.26			
27 Methoxychlor									
1	100	10.981	10.984	-0.003	115581663	0.0991			
2	100	12.700	12.702	-0.002	38127166	0.0979			
						RPD = 1.20			

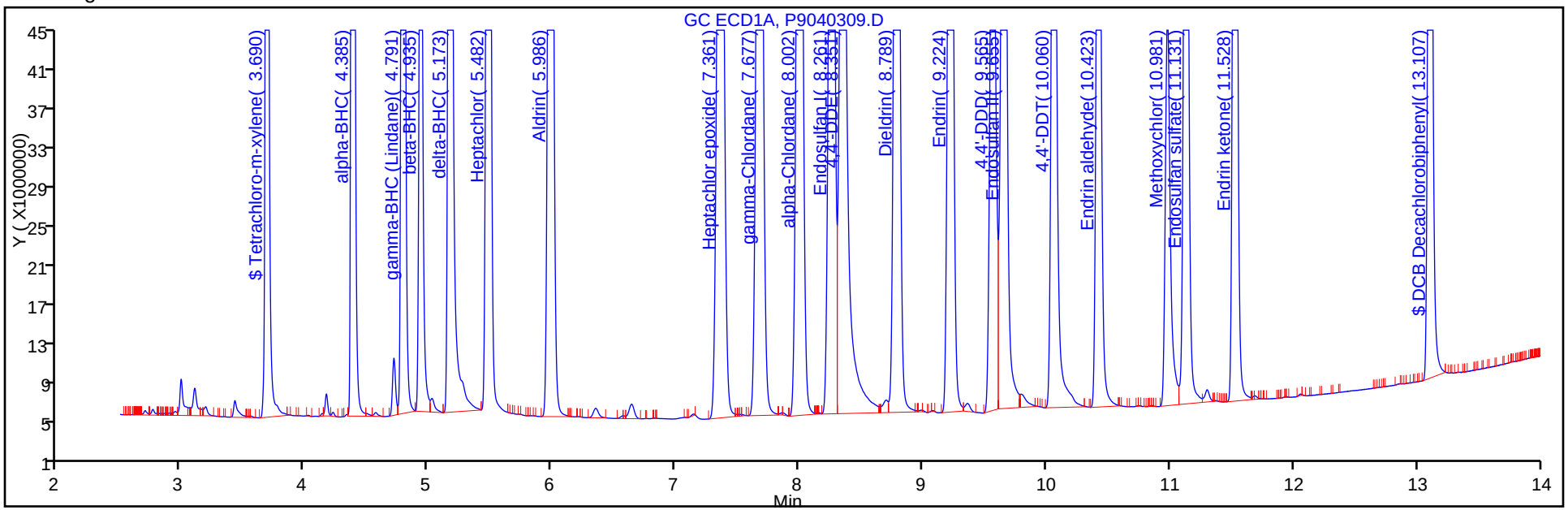
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.130	0.001	271203951	0.0977			
2	100	12.172	12.173	-0.001	82879162	0.0978			
						RPD = 0.06			
19 Endrin ketone									
1	100	11.528	11.527	0.001	296418871	0.0967			
2	100	12.925	12.925	0.000	95403241	0.0977			
						RPD = 1.10			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	274138107	0.0964			
2	100	14.650	14.650	0.000	95966174	0.0921			
						RPD = 4.59			

Report Date: 04-Apr-2013 15:32:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

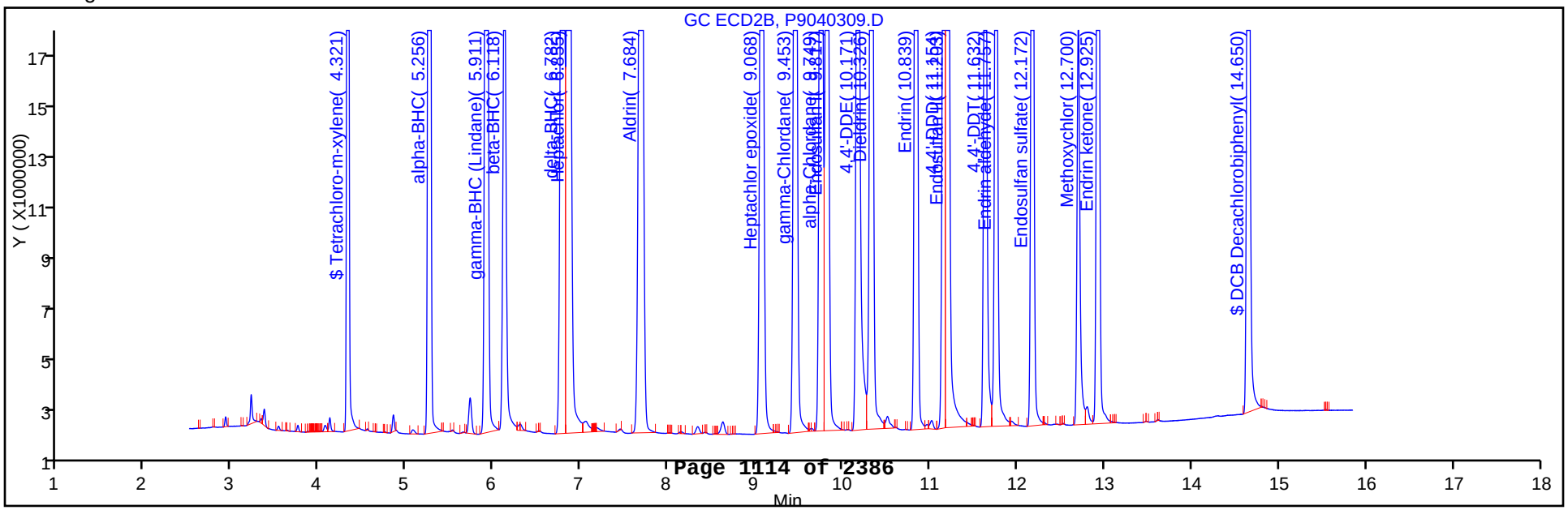
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040309.D		
Injection Date:	03-Apr-2013 20:16:20	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	9
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Lims ID:	STD AB L6	Client ID:	
Inject. Date:	03-Apr-2013 20:44:27	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018512-010		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	80447	Lims Sample ID:	10
Sublist:	chrom-PEST9*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:27	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: shockr Date: 04-Apr-2013 15:15:49

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	541103711	0.1869			
2	100	4.321	4.320	0.001	186332499	0.1910			
						RPD = 2.17			
5 alpha-BHC									
1	100	4.385	4.384	0.001	840989964	0.1903			
2	100	5.257	5.254	0.003	279692064	0.2024			
						RPD = 6.16			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	733755830	0.1898			
2	100	5.911	5.909	0.002	244613482	0.1996			
						RPD = 5.02			
7 beta-BHC									
1	100	4.935	4.935	0.000	292279374	0.1872			
2	100	6.117	6.117	0.000	98583121	0.1910			
						RPD = 2.03			
11 delta-BHC									
1	100	5.172	5.173	-0.001	753344496	0.1967			
2	100	6.780	6.780	0.000	239019911	0.2148			
						RPD = 8.81			
22 Heptachlor									
1	100	5.484	5.482	0.002	670351654	0.1803			
2	100	6.857	6.854	0.003	238514816	0.1885			
						RPD = 4.46			
4 Aldrin									
1	100	5.986	5.984	0.002	708567153	0.1810			
2	100	7.682	7.683	-0.001	241549006	0.1968			
						RPD = 8.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	628826131	0.1757			
2	100	9.069	9.069	0.000	205673414	0.1889			
						RPD = 7.27			
21 gamma-Chlordane									
1	100	7.677	7.677	0.000	687397641	0.1877			
2	100	9.453	9.453	0.000	210958358	0.1945			
						RPD = 3.54			
6 alpha-Chlordane									
1	100	8.001	7.999	0.002	682171886	0.1852			
2	100	9.749	9.748	0.001	211345774	0.1927			
						RPD = 3.95			
14 Endosulfan I									
1	100	8.261	8.260	0.001	575575119	0.1760			
2	100	9.817	9.817	0.000	193399542	0.1888			
						RPD = 7.04			
2 4,4'-DDE									
1	100	8.348	8.353	-0.005	681781499	0.1980			
2	100	10.170	10.173	-0.003	210798534	0.2057			
						RPD = 3.82			
13 Dieldrin									
1	100	8.789	8.787	0.002	648004668	0.1828			
2	100	10.327	10.326	0.001	221717526	0.1943			
						RPD = 6.09			
17 Endrin									
1	100	9.224	9.222	0.002	576248746	0.1784			
2	100	10.839	10.838	0.001	199629622	0.1939			
						RPD = 8.33			
1 4,4'-DDD									
1	100	9.560	9.570	-0.010	439081970	0.2263			
2	100	11.152	11.159	-0.007	124629836	0.2292			
						RPD = 1.28			
15 Endosulfan II									
1	100	9.656	9.655	0.001	576229616	0.1700			
2	100	11.202	11.202	0.000	202178884	0.1843			
						RPD = 8.05			
3 4,4'-DDT									
1	100	10.058	10.062	-0.004	496371844	0.2015			
2	100	11.631	11.633	-0.002	146192457	0.2008			
						RPD = 0.37			
18 Endrin aldehyde									
1	100	10.422	10.422	0.000	425839037	0.1845			
2	100	11.757	11.757	0.000	146301571	0.1910			
						RPD = 3.45			
27 Methoxychlor									
1	100	10.978	10.984	-0.006	221977052	0.1903			
2	100	12.700	12.702	-0.002	73316606	0.1883			
						RPD = 1.08			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	508466252	0.1832			
2	100	12.172	12.173	-0.001	160530294	0.1894			
						RPD = 3.32			
19 Endrin ketone									
1	100	11.527	11.527	0.000	560525064	0.1828			
2	100	12.926	12.925	0.001	185279200	0.1898			
						RPD = 3.76			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	534789665	0.1880			
2	100	14.651	14.650	0.001	185843593	0.1783			
						RPD = 5.32			

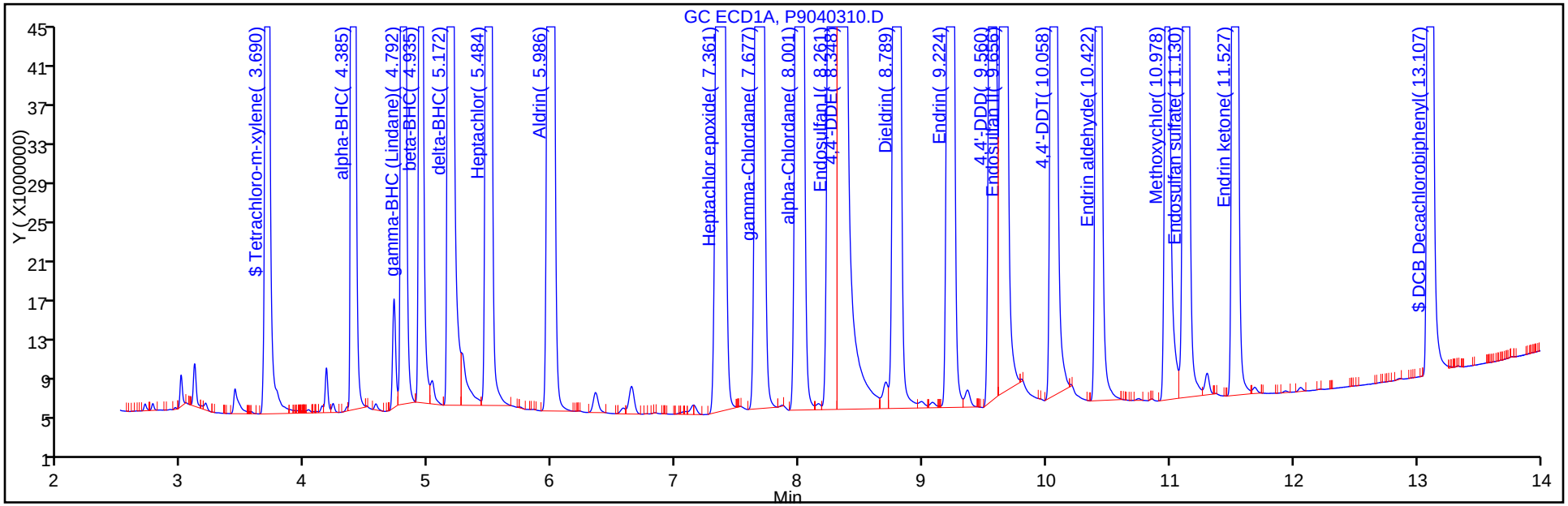
Report Date: 04-Apr-2013 15:32:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

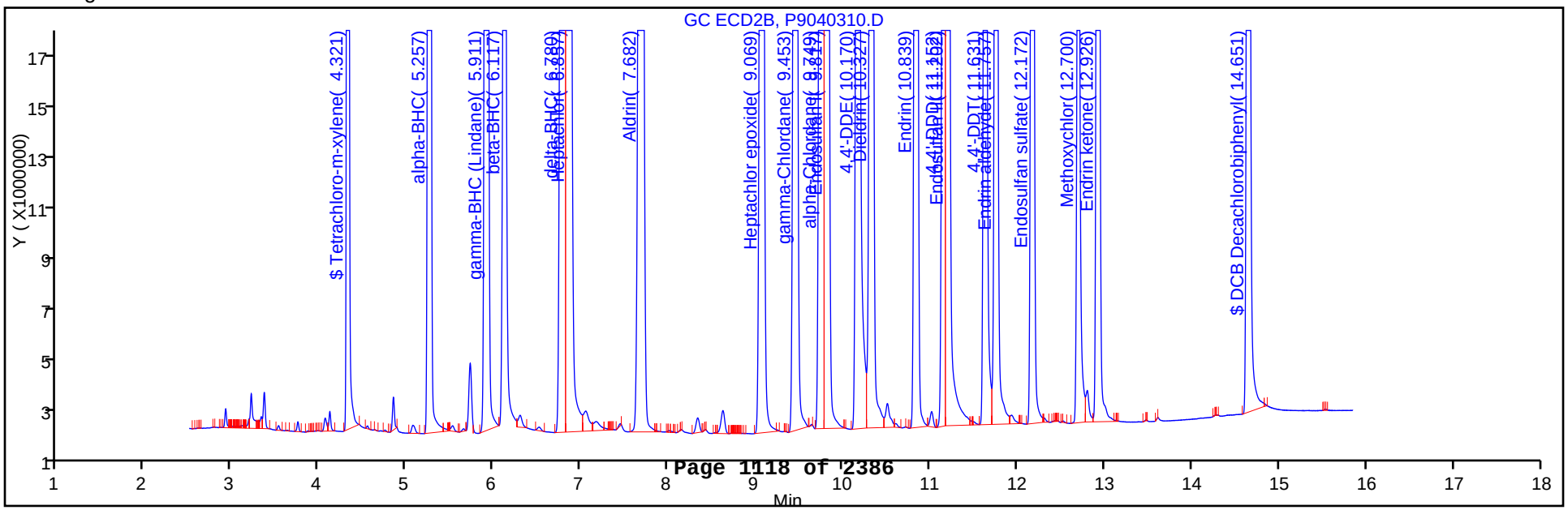
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D

Injection Date:	03-Apr-2013 20:44:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	10
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14373

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-80447/5	P9040305.D
Level 2	STD 240-80447/6	P9040306.D
Level 3	STD 240-80447/7	P9040307.D
Level 4	STD 240-80447/8	P9040308.D
Level 5	STD 240-80447/9	P9040309.D
Level 6	STD 240-80447/10	P9040310.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	5.255	5.256	5.254	5.256	5.256	5.257					5.224 - 5.284	5.256
gamma-BHC (Lindane)	5.910	5.910	5.909	5.911	5.911	5.911					5.879 - 5.939	5.910
beta-BHC	6.118	6.119	6.117	6.118	6.118	6.117					6.087 - 6.147	6.118
delta-BHC	6.782	6.782	6.780	6.782	6.782	6.780					6.750 - 6.810	6.781
Heptachlor	6.856	6.856	6.854	6.857	6.855	6.857					6.819 - 6.889	6.856
Aldrin	7.683	7.684	7.683	7.684	7.684	7.682					7.653 - 7.713	7.683
Heptachlor epoxide	9.068	9.070	9.069	9.069	9.068	9.069					9.039 - 9.099	9.069
gamma-Chlordane	9.454	9.454	9.453	9.454	9.453	9.453					9.423 - 9.483	9.454
alpha-Chlordane	9.749	9.750	9.748	9.750	9.749	9.749					9.718 - 9.778	9.749
Endosulfan I	9.817	9.817	9.817	9.819	9.817	9.817					9.787 - 9.847	9.817
4,4'-DDE	10.175	10.174	10.173	10.173	10.171	10.170					10.143 - 10.203	10.173
Dieldrin	10.326	10.326	10.326	10.327	10.326	10.327					10.296 - 10.356	10.326
Endrin	10.838	10.839	10.838	10.839	10.839	10.839					10.808 - 10.868	10.839
4,4'-DDD	11.160	11.160	11.159	11.155	11.154	11.152					11.129 - 11.189	11.157
Endosulfan II	11.203	11.203	11.202	11.204	11.203	11.202					11.172 - 11.232	11.203
4,4'-DDT	11.635	11.633	11.633	11.632	11.632	11.631					11.603 - 11.663	11.633
Endrin aldehyde	11.757	11.757	11.757	11.757	11.757	11.757					11.727 - 11.787	11.757
Endosulfan sulfate	12.173	12.173	12.173	12.173	12.172	12.172					12.143 - 12.203	12.173
Methoxychlor	12.702	12.702	12.702	12.701	12.700	12.700					12.672 - 12.732	12.701
Endrin ketone	12.926	12.926	12.925	12.926	12.925	12.926					12.895 - 12.955	12.926
Tetrachloro-m-xylene	4.321	4.321	4.320	4.321	4.321	4.321					4.290 - 4.350	4.321
DCB Decachlorobiphenyl	14.651	14.650	14.650	14.651	14.650	14.651					14.620 - 14.680	14.651

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14373

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-80447/5	P9040305.D
Level 2	STD 240-80447/6	P9040306.D
Level 3	STD 240-80447/7	P9040307.D
Level 4	STD 240-80447/8	P9040308.D
Level 5	STD 240-80447/9	P9040309.D
Level 6	STD 240-80447/10	P9040310.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1347325000 1433351890	1316714100 1398460320	1354109000	1441257160	Ave		1381869578				3.6		20.0			
gamma-BHC (Lindane)	1214450400 1258774490	1185003100 1223067410	1200791280	1271327420	Ave		1225569017				2.7		20.0			
beta-BHC	548642800 512190940	521262300 492915605	503712680	517946980	Ave		516111884				3.7		20.0			
delta-BHC	1041284000 1195057620	1018740600 1195099555	1063574720	1163211800	Ave		1112828049				7.2		20.0			
Heptachlor	1342962600 1260830170	1282737000 1192574080	1218830800	1294915280	Ave		1265474988				4.3		20.0			
Aldrin	1263102400 1249779920	1190162100 1207745030	1190832480	1261261740	Ave		1227147278				2.8		20.0			
Heptachlor epoxide	1157970000 1078950150	1090862400 1028367070	1068033360	1107018680	Ave		1088533610				4.0		20.0			
gamma-Chlordane	1129787400 1094198850	1060994700 1054791790	1063074040	1105179840	Ave		1084671103				2.8		20.0			
alpha-Chlordane	1153888400 1096840730	1083753900 1056728870	1073882440	1116856080	Ave		1096991737				3.1		20.0			
Endosulfan I	1096687600 1010801920	1011500100 966997710	1018570040	1040633500	Ave		1024198478				4.2		20.0			
4,4'-DDE	1021905600 1058469890	958287200 1053992670	1002636040	1052600220	Ave		1024648603				3.8		20.0			
Dieldrin	1161819600 1154022640	1081982300 1108587630	1152651760	1187286140	Ave		1141058345				3.4		20.0			
Endrin	1066869600 1031143320	1012128300 998148110	1015775880	1052991760	Ave		1029509495				2.5		20.0			
4,4'-DDD	466041200 594168640	483878000 623149180	523210760	571556220	Ave		543667333				12.0		20.0			
Endosulfan II	1170234600 1074106100	1108168400 1010894420	1109333920	1110120060	Ave		1097142917				4.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14373

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	741907200 736761680	718548800 730962285	707341920	733138420	Ave		728110051				1.8		20.0			
Endrin aldehyde	818426000 759266120	789834600 731507855	727709200	768917060	Ave		765943473				4.5		20.0			
Endosulfan sulfate	914477600 828791620	856669900 802651470	835951000	847460840	Ave		847667072				4.4		20.0			
Methoxychlor	405980200 381271660	391594800 366583030	399286440	391561160	Ave		389379548				3.6		20.0			
Endrin ketone	1045924200 954032410	992194600 926396000	962196320	975500560	Ave		976040682				4.2		20.0			
Tetrachloro-m-xylene	1018681800 959693590	977135700 931662495	977304920	988354420	Ave		975472154				3.0		20.0			
DCB Decachlorobiphenyl	1200395600 959661740	1101238800 929217965	1053455000	1010675580	Ave		1042440781				9.5		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14373

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-80447/5	P9040305.D
Level 2	STD 240-80447/6	P9040306.D
Level 3	STD 240-80447/7	P9040307.D
Level 4	STD 240-80447/8	P9040308.D
Level 5	STD 240-80447/9	P9040309.D
Level 6	STD 240-80447/10	P9040310.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	6736625 279692064	13167141	33852725	72062858	143335189	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-BHC (Lindane)	Ave	6072252 244613482	11850031	30019782	63566371	125877449	0.00500 0.200	0.0100	0.0250	0.0500	0.100
beta-BHC	Ave	2743214 98583121	5212623	12592817	25897349	51219094	0.00500 0.200	0.0100	0.0250	0.0500	0.100
delta-BHC	Ave	5206420 239019911	10187406	26589368	58160590	119505762	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor	Ave	6714813 238514816	12827370	30470770	64745764	126083017	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Aldrin	Ave	6315512 241549006	11901621	29770812	63063087	124977992	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor epoxide	Ave	5789850 205673414	10908624	26700834	55350934	107895015	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-Chlordane	Ave	5648937 210958358	10609947	26576851	55258992	109419885	0.00500 0.200	0.0100	0.0250	0.0500	0.100
alpha-Chlordane	Ave	5769442 211345774	10837539	26847061	55842804	109684073	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan I	Ave	5483438 193399542	10115001	25464251	52031675	101080192	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDE	Ave	5109528 210798534	9582872	25065901	52630011	105846989	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Dieldrin	Ave	5809098 221717526	10819823	28816294	59364307	115402264	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin	Ave	5334348 199629622	10121283	25394397	52649588	103114332	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDD	Ave	2330206 124629836	4838780	13080269	28577811	59416864	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan II	Ave	5851173 202178884	11081684	27733348	55506003	107410610	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDT	Ave	3709536 146192457	7185488	17683548	36656921	73676168	0.00500 0.200	0.0100	0.0250	0.0500	0.100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80447

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 18:24 Calibration End Date: 04/03/2013 20:44 Calibration ID: 14373

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	4092130 146301571	7898346	18192730	38445853	75926612	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan sulfate	Ave	4572388 160530294	8566699	20898775	42373042	82879162	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Methoxychlor	Ave	2029901 73316606	3915948	9982161	19578058	38127166	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin ketone	Ave	5229621 185279200	9921946	24054908	48775028	95403241	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Tetrachloro-m-xylene	Ave	5093409 186332499	9771357	24432623	49417721	95969359	0.00500 0.200	0.0100	0.0250	0.0500	0.100
DCB Decachlorobiphenyl	Ave	6001978 185843593	11012388	26336375	50533779	95966174	0.00500 0.200	0.0100	0.0250	0.0500	0.100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040305.D
Lims ID: STD AB L1 Client ID:
Inject. Date: 03-Apr-2013 18:24:52 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018512-005
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 80447 Lims Sample ID: 5
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:36 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	15532751	0.005366			
2	100	4.321	4.320	0.001	5093409	0.005221			
						RPD = 2.72			
5 alpha-BHC									
1	100	4.384	4.384	0.000	22739190	0.005145			
2	100	5.255	5.254	0.001	6736625	0.004875			
						RPD = 5.40			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	20051685	0.005187			
2	100	5.910	5.909	0.001	6072252	0.004955			
						RPD = 4.58			
7 beta-BHC									
1	100	4.936	4.935	0.001	8329643	0.005334			
2	100	6.118	6.117	0.001	2743214	0.005315			
						RPD = 0.36			
11 delta-BHC									
1	100	5.175	5.173	0.002	19287789	0.005035			
2	100	6.782	6.780	0.002	5206420	0.004679			
						RPD = 7.34			
22 Heptachlor									
1	100	5.482	5.482	0.000	20113537	0.005408			
2	100	6.856	6.854	0.002	6714813	0.005306			
						RPD = 1.91			
4 Aldrin									
1	100	5.987	5.984	0.003	21327423	0.005449			
2	100	7.683	7.683	0.000	6315512	0.005146			
						RPD = 5.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.362	7.359	0.003	19845210	0.005545			
2	100	9.068	9.069	-0.001	5789850	0.005319			
						RPD = 4.15			
21 gamma-Chlordane									
1	100	7.679	7.677	0.002	19551972	0.005339			
2	100	9.454	9.453	0.001	5648937	0.005208			
						RPD = 2.49			
6 alpha-Chlordane									
1	100	8.001	7.999	0.002	19985678	0.005425			
2	100	9.749	9.748	0.001	5769442	0.005259			
						RPD = 3.11			
14 Endosulfan I									
1	100	8.262	8.260	0.002	18318723	0.005601			
2	100	9.817	9.817	0.000	5483438	0.005354			
						RPD = 4.52			
2 4,4'-DDE									
1	100	8.361	8.353	0.008	17826653	0.005178			
2	100	10.175	10.173	0.002	5109528	0.004987			
						RPD = 3.76			
13 Dieldrin									
1	100	8.788	8.787	0.001	19084093	0.005385			
2	100	10.326	10.326	0.000	5809098	0.005091			
						RPD = 5.60			
17 Endrin									
1	100	9.224	9.222	0.002	17297164	0.005355			
2	100	10.838	10.838	0.000	5334348	0.005181			
						RPD = 3.29			
1 4,4'-DDD									
1	100	9.578	9.570	0.008	8273678	0.004265			
2	100	11.160	11.159	0.001	2330206	0.004286			
						RPD = 0.50			
15 Endosulfan II									
1	100	9.656	9.655	0.001	18135917	0.005351			
2	100	11.203	11.202	0.001	5851173	0.005333			
						RPD = 0.34			
3 4,4'-DDT									
1	100	10.065	10.062	0.003	11449939	0.004649			
2	100	11.635	11.633	0.002	3709536	0.005095			
						RPD = 9.16			
18 Endrin aldehyde									
1	100	10.425	10.422	0.003	12089803	0.005239			
2	100	11.757	11.757	0.000	4092130	0.005343			
						RPD = 1.96			
27 Methoxychlor									
1	100	10.987	10.984	0.003	5727781	0.004911			
2	100	12.702	12.702	0.000	2029901	0.005213			
						RPD = 5.96			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.132	11.130	0.002	14420047	0.005195			
2	100	12.173	12.173	0.000	4572388	0.005394			
						RPD = 3.75			
19 Endrin ketone									
1	100	11.528	11.527	0.001	16612652	0.005418			
2	100	12.926	12.925	0.001	5229621	0.005358			
						RPD = 1.12			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	15121836	0.005317			
2	100	14.651	14.650	0.001	6001978	0.005758			
						RPD = 7.96			

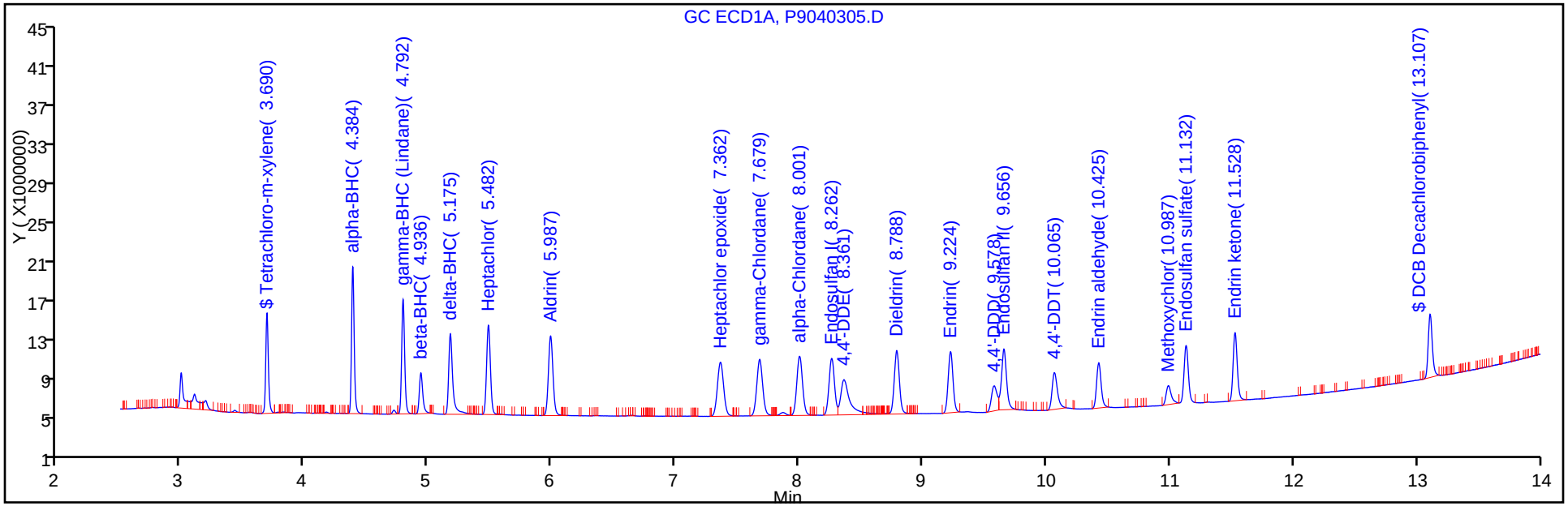
Report Date: 04-Apr-2013 15:32:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

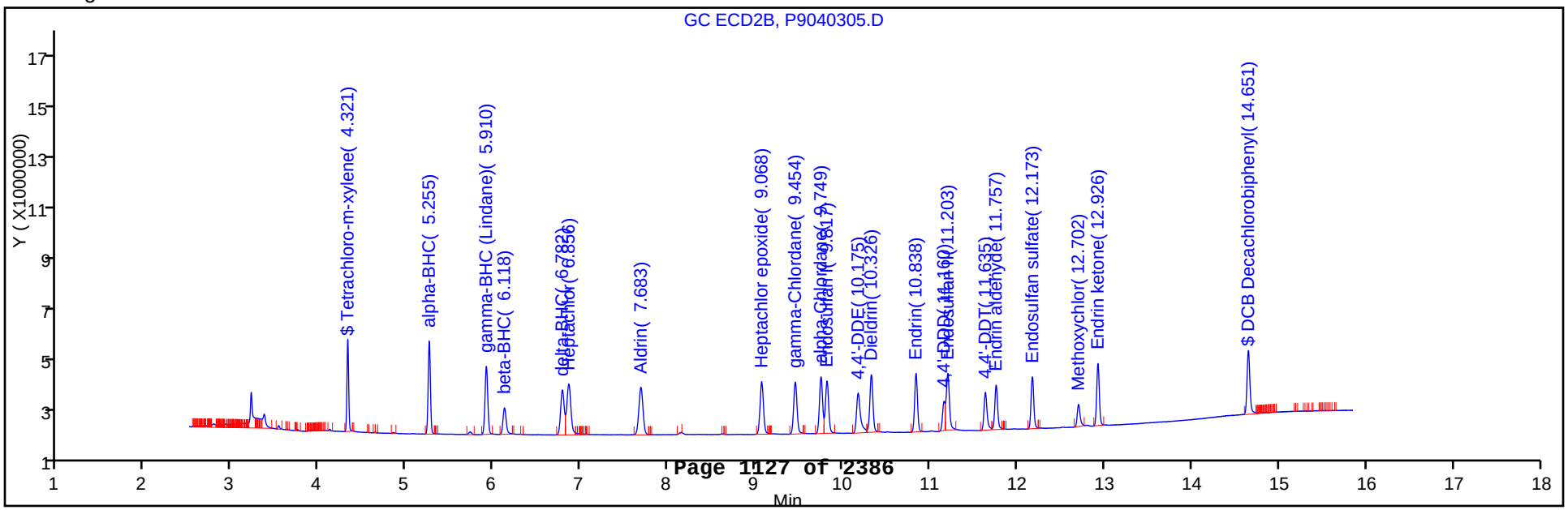
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040305.D

Injection Date:	03-Apr-2013 18:24:52	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	5
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040306.D
Lims ID: STD AB L2 Client ID:
Inject. Date: 03-Apr-2013 18:52:48 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018512-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 80447 Lims Sample ID: 6
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:34 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	29416121	0.0102			
2	100	4.321	4.320	0.001	9771357	0.0100			
						RPD = 1.43			
5 alpha-BHC									
1	100	4.385	4.384	0.001	44103734	0.0100			
2	100	5.256	5.254	0.002	13167141	0.009528			
						RPD = 4.63			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	38436525	0.0099			
2	100	5.910	5.909	0.001	11850031	0.009669			
						RPD = 2.79			
7 beta-BHC									
1	100	4.936	4.935	0.001	15788836	0.0101			
2	100	6.119	6.117	0.002	5212623	0.0101			
						RPD = 0.12			
11 delta-BHC									
1	100	5.175	5.173	0.002	34895331	0.009109			
2	100	6.782	6.780	0.002	10187406	0.009155			
						RPD = 0.49			
22 Heptachlor									
1	100	5.483	5.482	0.001	38127897	0.0103			
2	100	6.856	6.854	0.002	12827370	0.0101			
						RPD = 1.14			
4 Aldrin									
1	100	5.986	5.984	0.002	40019919	0.0102			
2	100	7.684	7.683	0.001	11901621	0.009699			
						RPD = 5.28			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.362	7.359	0.003	37267693	0.0104			
2	100	9.070	9.069	0.001	10908624	0.0100			
						RPD = 3.82			
21 gamma-Chlordane									
1	100	7.678	7.677	0.001	36810976	0.0101			
2	100	9.454	9.453	0.001	10609947	0.009782			
						RPD = 2.73			
6 alpha-Chlordane									
1	100	8.002	7.999	0.003	37289531	0.0101			
2	100	9.750	9.748	0.002	10837539	0.009879			
						RPD = 2.44			
14 Endosulfan I									
1	100	8.261	8.260	0.001	33884768	0.0104			
2	100	9.817	9.817	0.000	10115001	0.009876			
						RPD = 4.79			
2 4,4'-DDE									
1	100	8.358	8.353	0.005	32580297	0.009463			
2	100	10.174	10.173	0.001	9582872	0.009352			
						RPD = 1.17			
13 Dieldrin									
1	100	8.790	8.787	0.003	35641601	0.0101			
2	100	10.326	10.326	0.000	10819823	0.009482			
						RPD = 5.88			
17 Endrin									
1	100	9.225	9.222	0.003	33549347	0.0104			
2	100	10.839	10.838	0.001	10121283	0.009831			
						RPD = 5.49			
1 4,4'-DDD									
1	100	9.573	9.570	0.003	17546814	0.009045			
2	100	11.160	11.159	0.001	4838780	0.008900			
						RPD = 1.61			
15 Endosulfan II									
1	100	9.657	9.655	0.002	37101517	0.0109			
2	100	11.203	11.202	0.001	11081684	0.0101			
						RPD = 8.04			
3 4,4'-DDT									
1	100	10.064	10.062	0.002	23435266	0.009515			
2	100	11.633	11.633	0.000	7185488	0.009869			
						RPD = 3.65			
18 Endrin aldehyde									
1	100	10.424	10.422	0.002	23339144	0.0101			
2	100	11.757	11.757	0.000	7898346	0.0103			
						RPD = 1.94			
27 Methoxychlor									
1	100	10.986	10.984	0.002	11744534	0.0101			
2	100	12.702	12.702	0.000	3915948	0.0101			
						RPD = 0.13			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.130	0.001	28123821	0.0101			
2	100	12.173	12.173	0.000	8566699	0.0101			
						RPD = 0.26			
19 Endrin ketone									
1	100	11.528	11.527	0.001	31270996	0.0102			
2	100	12.926	12.925	0.001	9921946	0.0102			
						RPD = 0.33			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	29285482	0.0103			
2	100	14.650	14.650	0.000	11012388	0.0106			
						RPD = 2.57			

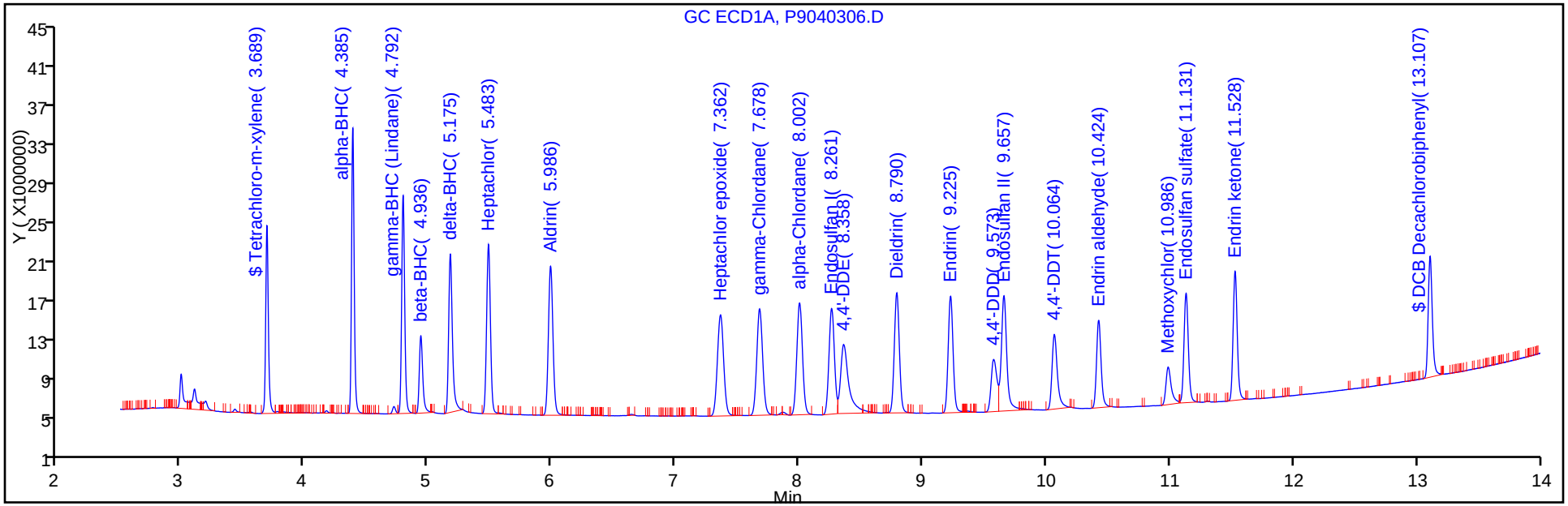
Report Date: 04-Apr-2013 15:32:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

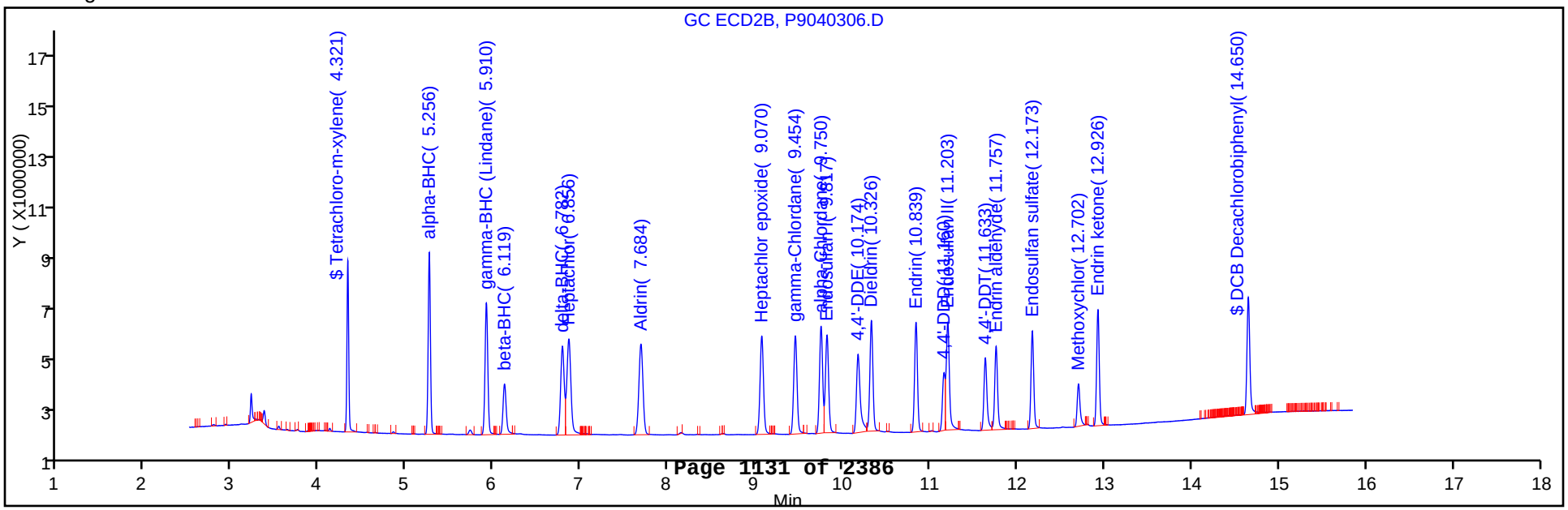
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040306.D

Injection Date:	03-Apr-2013 18:52:48	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	6
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040307.D
Lims ID: STD AB L3 Client ID:
Inject. Date: 03-Apr-2013 19:20:53 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 3
Sample ID: 240-0018512-007
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 80447 Lims Sample ID: 7
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:32 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	72886543	0.0252			
2	100	4.320	4.320	0.000	24432623	0.0250			
						RPD = 0.52			
5 alpha-BHC									
1	100	4.384	4.384	0.000	110674865	0.0250			
2	100	5.254	5.254	0.000	33852725	0.0245			
						RPD = 2.20			
20 gamma-BHC (Lindane)									
1	100	4.790	4.790	0.000	96204186	0.0249			
2	100	5.909	5.909	0.000	30019782	0.0245			
						RPD = 1.59			
7 beta-BHC									
1	100	4.935	4.935	0.000	39122217	0.0251			
2	100	6.117	6.117	0.000	12592817	0.0244			
						RPD = 2.65			
11 delta-BHC									
1	100	5.173	5.173	0.000	96172596	0.0251			
2	100	6.780	6.780	0.000	26589368	0.0239			
						RPD = 4.95			
22 Heptachlor									
1	100	5.482	5.482	0.000	93829338	0.0252			
2	100	6.854	6.854	0.000	30470770	0.0241			
						RPD = 4.67			
4 Aldrin									
1	100	5.984	5.984	0.000	97483153	0.0249			
2	100	7.683	7.683	0.000	29770812	0.0243			
						RPD = 2.63			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.359	7.359	0.000	90384859	0.0253			
2	100	9.069	9.069	0.000	26700834	0.0245			
						RPD = 2.91			
21 gamma-Chlordane									
1	100	7.677	7.677	0.000	90816356	0.0248			
2	100	9.453	9.453	0.000	26576851	0.0245			
						RPD = 1.21			
6 alpha-Chlordane									
1	100	7.999	7.999	0.000	91597535	0.0249			
2	100	9.748	9.748	0.000	26847061	0.0245			
						RPD = 1.59			
14 Endosulfan I									
1	100	8.260	8.260	0.000	81968530	0.0251			
2	100	9.817	9.817	0.000	25464251	0.0249			
						RPD = 0.80			
2 4,4'-DDE									
1	100	8.353	8.353	0.000	83246576	0.0242			
2	100	10.173	10.173	0.000	25065901	0.0245			
						RPD = 1.17			
13 Dieldrin									
1	100	8.787	8.787	0.000	88782041	0.0250			
2	100	10.326	10.326	0.000	28816294	0.0253			
						RPD = 0.81			
17 Endrin									
1	100	9.222	9.222	0.000	82232122	0.0255			
2	100	10.838	10.838	0.000	25394397	0.0247			
						RPD = 3.16			
1 4,4'-DDD									
1	100	9.570	9.570	0.000	46912985	0.0242			
2	100	11.159	11.159	0.000	13080269	0.0241			
						RPD = 0.51			
15 Endosulfan II									
1	100	9.655	9.655	0.000	87286500	0.0258			
2	100	11.202	11.202	0.000	27733348	0.0253			
						RPD = 1.87			
3 4,4'-DDT									
1	100	10.062	10.062	0.000	62336392	0.0253			
2	100	11.633	11.633	0.000	17683548	0.0243			
						RPD = 4.12			
18 Endrin aldehyde									
1	100	10.422	10.422	0.000	58628112	0.0254			
2	100	11.757	11.757	0.000	18192730	0.0238			
						RPD = 6.73			
27 Methoxychlor									
1	100	10.984	10.984	0.000	30291779	0.0260			
2	100	12.702	12.702	0.000	9982161	0.0256			
						RPD = 1.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	71439361	0.0257			
2	100	12.173	12.173	0.000	20898775	0.0247			
						RPD = 4.30			
19 Endrin ketone									
1	100	11.527	11.527	0.000	77479370	0.0253			
2	100	12.925	12.925	0.000	24054908	0.0246			
						RPD = 2.50			
$ 10 DCB Decachlorobiphenyl									
1	100	13.106	13.106	0.000	71951983	0.0253			
2	100	14.650	14.650	0.000	26336375	0.0253			
						RPD = 0.13			

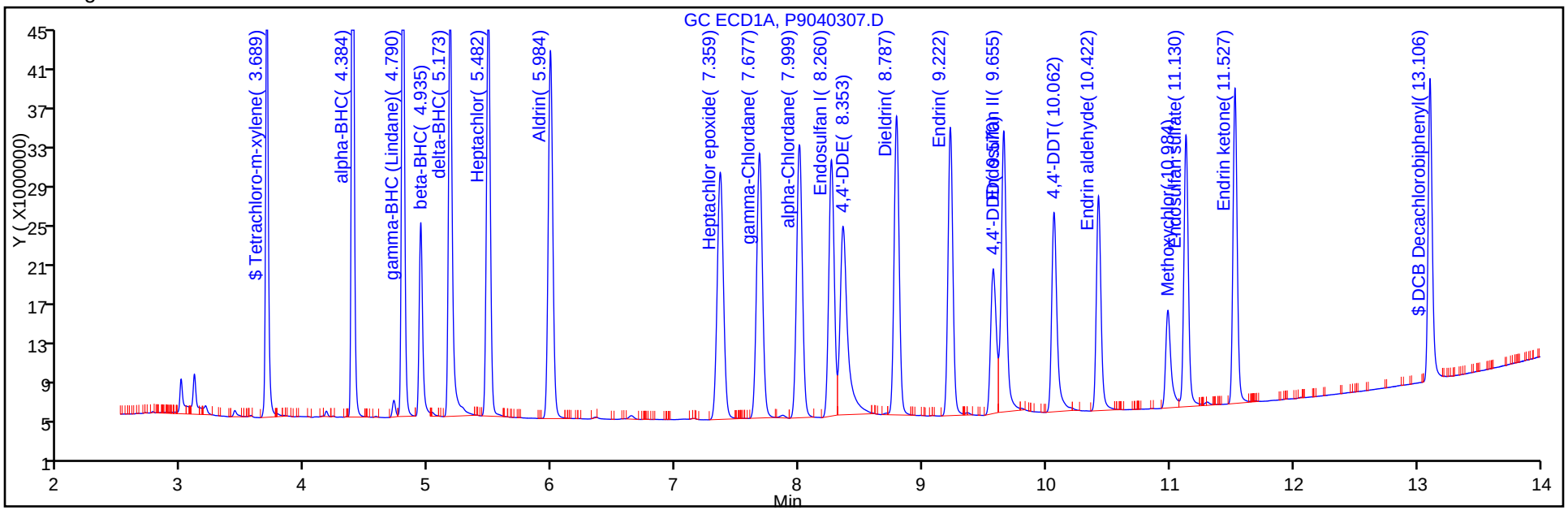
Report Date: 04-Apr-2013 15:32:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

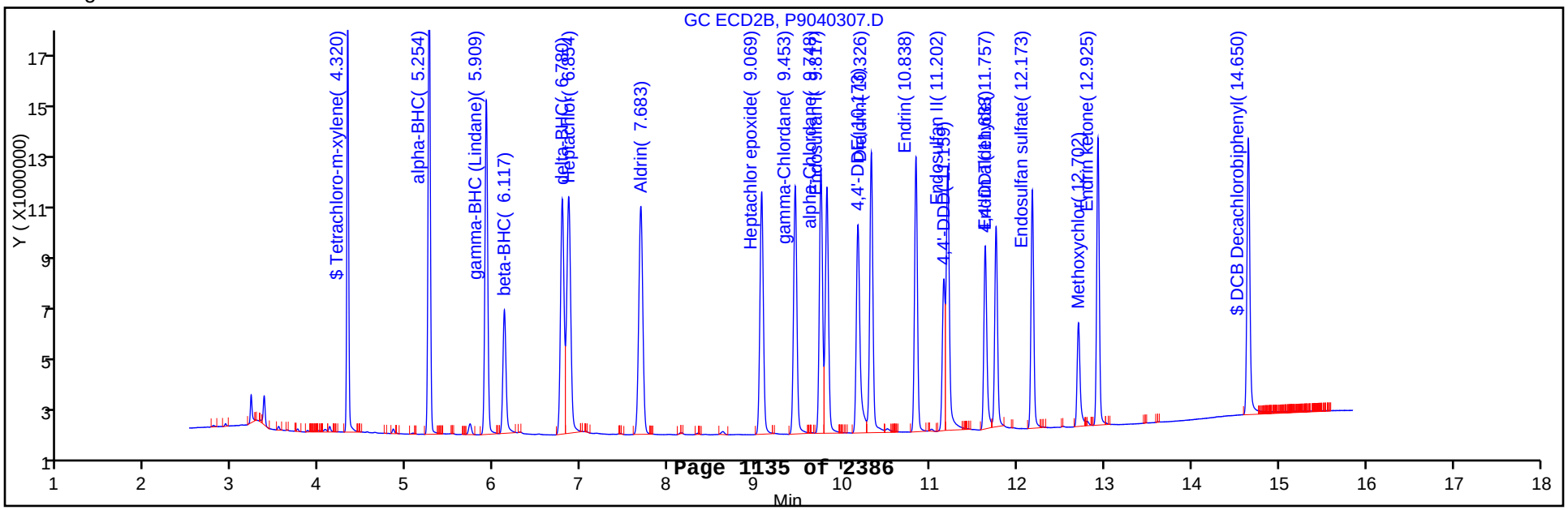
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040307.D

Injection Date:	03-Apr-2013 19:20:53	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	7
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040308.D		
Lims ID:	STD AB L4	Client ID:	
Inject. Date:	03-Apr-2013 19:48:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018512-008		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	80447	Lims Sample ID:	8
Sublist:	chrom-PEST9*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:31	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		
First Level Reviewer: shockr		Date:	04-Apr-2013 12:30:18

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	144364184	0.0499			
2	100	4.321	4.320	0.001	49417721	0.0507			
						RPD = 1.57			
5 alpha-BHC									
1	100	4.384	4.384	0.000	226006336	0.0511			
2	100	5.256	5.254	0.002	72062858	0.0521			
						RPD = 1.95			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	198196569	0.0513			
2	100	5.911	5.909	0.002	63566371	0.0519			
						RPD = 1.16			
7 beta-BHC									
1	100	4.934	4.935	-0.001	78630772	0.0504			
2	100	6.118	6.117	0.001	25897349	0.0502			
						RPD = 0.36			
11 delta-BHC									
1	100	5.174	5.173	0.001	202613755	0.0529			
2	100	6.782	6.780	0.002	58160590	0.0523			
						RPD = 1.19			
22 Heptachlor									
1	100	5.484	5.482	0.002	189230617	0.0509			
2	100	6.857	6.854	0.003	64745764	0.0512			
						RPD = 0.55			
4 Aldrin									
1	100	5.986	5.984	0.002	198748616	0.0508			
2	100	7.684	7.683	0.001	63063087	0.0514			
						RPD = 1.20			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.360	7.359	0.001	180293874	0.0504			
2	100	9.069	9.069	0.000	55350934	0.0508			
						RPD = 0.94			
21 gamma-Chlordane									
1	100	7.679	7.677	0.002	185251414	0.0506			
2	100	9.454	9.453	0.001	55258992	0.0509			
						RPD = 0.70			
6 alpha-Chlordane									
1	100	8.004	7.999	0.005	186090255	0.0505			
2	100	9.750	9.748	0.002	55842804	0.0509			
						RPD = 0.76			
14 Endosulfan I									
1	100	8.263	8.260	0.003	164958766	0.0504			
2	100	9.819	9.817	0.002	52031675	0.0508			
						RPD = 0.72			
2 4,4'-DDE									
1	100	8.353	8.353	0.000	179971387	0.0523			
2	100	10.173	10.173	0.000	52630011	0.0514			
						RPD = 1.75			
13 Dieldrin									
1	100	8.789	8.787	0.002	181672881	0.0513			
2	100	10.327	10.326	0.001	59364307	0.0520			
						RPD = 1.49			
17 Endrin									
1	100	9.224	9.222	0.002	164515302	0.0509			
2	100	10.839	10.838	0.001	52649588	0.0511			
						RPD = 0.41			
1 4,4'-DDD									
1	100	9.566	9.570	-0.004	101474059	0.0523			
2	100	11.155	11.159	-0.004	28577811	0.0526			
						RPD = 0.50			
15 Endosulfan II									
1	100	9.656	9.655	0.001	169139031	0.0499			
2	100	11.204	11.202	0.002	55506003	0.0506			
						RPD = 1.37			
3 4,4'-DDT									
1	100	10.063	10.062	0.001	127987854	0.0520			
2	100	11.632	11.633	-0.001	36656921	0.0503			
						RPD = 3.16			
18 Endrin aldehyde									
1	100	10.423	10.422	0.001	118062229	0.0512			
2	100	11.757	11.757	0.000	38445853	0.0502			
						RPD = 1.90			
27 Methoxychlor									
1	100	10.984	10.984	0.000	60010569	0.0515			
2	100	12.701	12.702	-0.001	19578058	0.0503			
						RPD = 2.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	142249775	0.0513			
2	100	12.173	12.173	0.000	42373042	0.0500			
						RPD = 2.50			
19 Endrin ketone									
1	100	11.528	11.527	0.001	154016693	0.0502			
2	100	12.926	12.925	0.001	48775028	0.0500			
						RPD = 0.52			
$ 10 DCB Decachlorobiphenyl									
1	100	13.106	13.106	0.000	140957983	0.0496			
2	100	14.651	14.650	0.001	50533779	0.0485			
						RPD = 2.21			

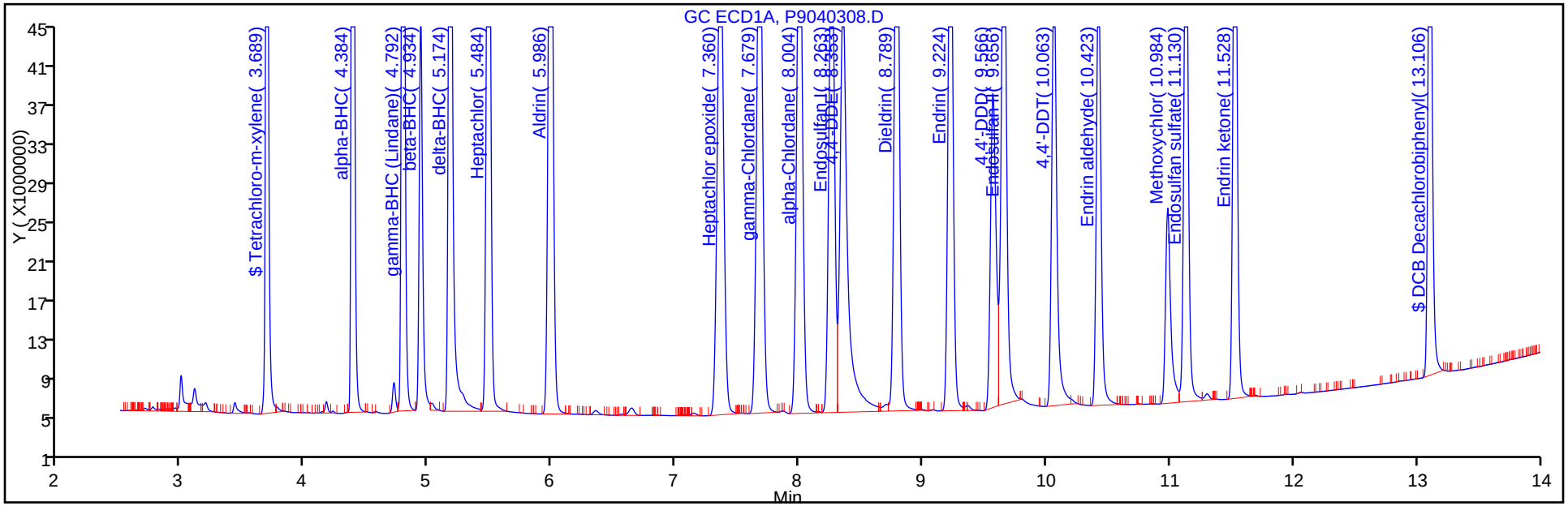
Report Date: 04-Apr-2013 15:32:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

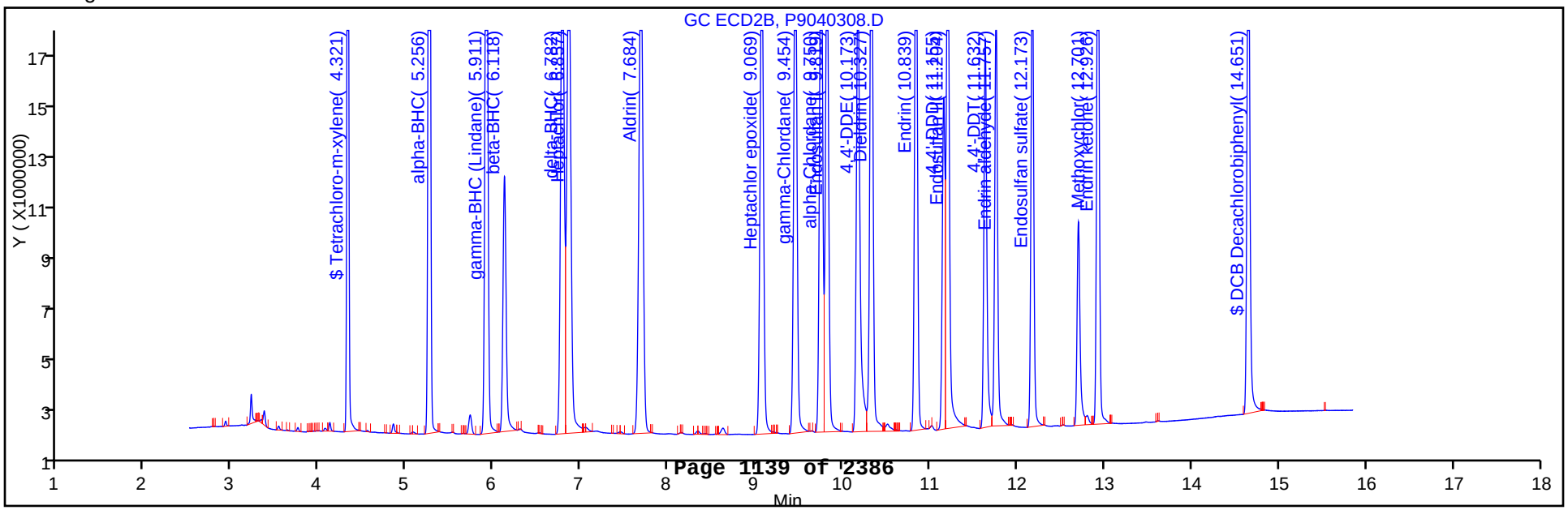
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040308.D

Injection Date:	03-Apr-2013 19:48:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	8
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040309.D
Lims ID: STD AB L5 Client ID:
Inject. Date: 03-Apr-2013 20:16:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018512-009
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 80447 Lims Sample ID: 9
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:29 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	281277173	0.0972			
2	100	4.321	4.320	0.001	95969359	0.0984			
						RPD = 1.25			
5 alpha-BHC									
1	100	4.385	4.384	0.001	440585172	0.0997			
2	100	5.256	5.254	0.002	143335189	0.1037			
						RPD = 3.96			
20 gamma-BHC (Lindane)									
1	100	4.791	4.790	0.001	385969887	0.0998			
2	100	5.911	5.909	0.002	125877449	0.1027			
						RPD = 2.83			
7 beta-BHC									
1	100	4.935	4.935	0.000	152518788	0.0977			
2	100	6.118	6.117	0.001	51219094	0.0992			
						RPD = 1.59			
11 delta-BHC									
1	100	5.173	5.173	0.000	397128186	0.1037			
2	100	6.782	6.780	0.002	119505762	0.1074			
						RPD = 3.52			
22 Heptachlor									
1	100	5.482	5.482	0.000	358868312	0.0965			
2	100	6.855	6.854	0.001	126083017	0.0996			
						RPD = 3.20			
4 Aldrin									
1	100	5.986	5.984	0.002	380012723	0.0971			
2	100	7.684	7.683	0.001	124977992	0.1018			
						RPD = 4.78			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	341430299	0.0954			
2	100	9.068	9.069	-0.001	107895015	0.0991			
						RPD = 3.83			
21 gamma-Chlordane									
1	100	7.677	7.677	0.000	360524226	0.0985			
2	100	9.453	9.453	0.000	109419885	0.1009			
						RPD = 2.43			
6 alpha-Chlordane									
1	100	8.002	7.999	0.003	357936547	0.0972			
2	100	9.749	9.748	0.001	109684073	0.1000			
						RPD = 2.86			
14 Endosulfan I									
1	100	8.261	8.260	0.001	311455151	0.0952			
2	100	9.817	9.817	0.000	101080192	0.0987			
						RPD = 3.57			
2 4,4'-DDE									
1	100	8.351	8.353	-0.002	349679407	0.1016			
2	100	10.171	10.173	-0.002	105846989	0.1033			
						RPD = 1.70			
13 Dieldrin									
1	100	8.789	8.787	0.002	345966483	0.0976			
2	100	10.326	10.326	0.000	115402264	0.1011			
						RPD = 3.54			
17 Endrin									
1	100	9.224	9.222	0.002	310571283	0.0961			
2	100	10.839	10.838	0.001	103114332	0.1002			
						RPD = 4.09			
1 4,4'-DDD									
1	100	9.565	9.570	-0.005	212947344	0.1098			
2	100	11.154	11.159	-0.005	59416864	0.1093			
						RPD = 0.43			
15 Endosulfan II									
1	100	9.655	9.655	0.000	324252315	0.0957			
2	100	11.203	11.202	0.001	107410610	0.0979			
						RPD = 2.30			
3 4,4'-DDT									
1	100	10.060	10.062	-0.002	260959463	0.1060			
2	100	11.632	11.633	-0.001	73676168	0.1012			
						RPD = 4.60			
18 Endrin aldehyde									
1	100	10.423	10.422	0.001	225896870	0.0979			
2	100	11.757	11.757	0.000	75926612	0.0991			
						RPD = 1.26			
27 Methoxychlor									
1	100	10.981	10.984	-0.003	115581663	0.0991			
2	100	12.700	12.702	-0.002	38127166	0.0979			
						RPD = 1.20			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.130	0.001	271203951	0.0977			
2	100	12.172	12.173	-0.001	82879162	0.0978			
						RPD = 0.06			
19 Endrin ketone									
1	100	11.528	11.527	0.001	296418871	0.0967			
2	100	12.925	12.925	0.000	95403241	0.0977			
						RPD = 1.10			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	274138107	0.0964			
2	100	14.650	14.650	0.000	95966174	0.0921			
						RPD = 4.59			

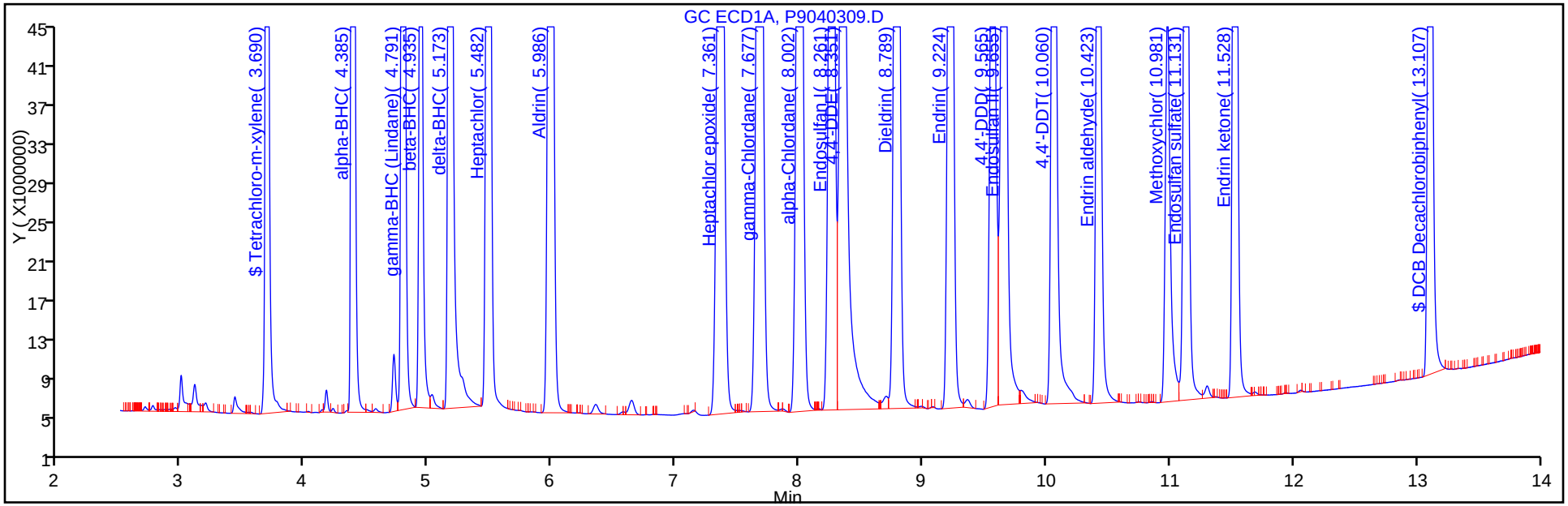
Report Date: 04-Apr-2013 15:32:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

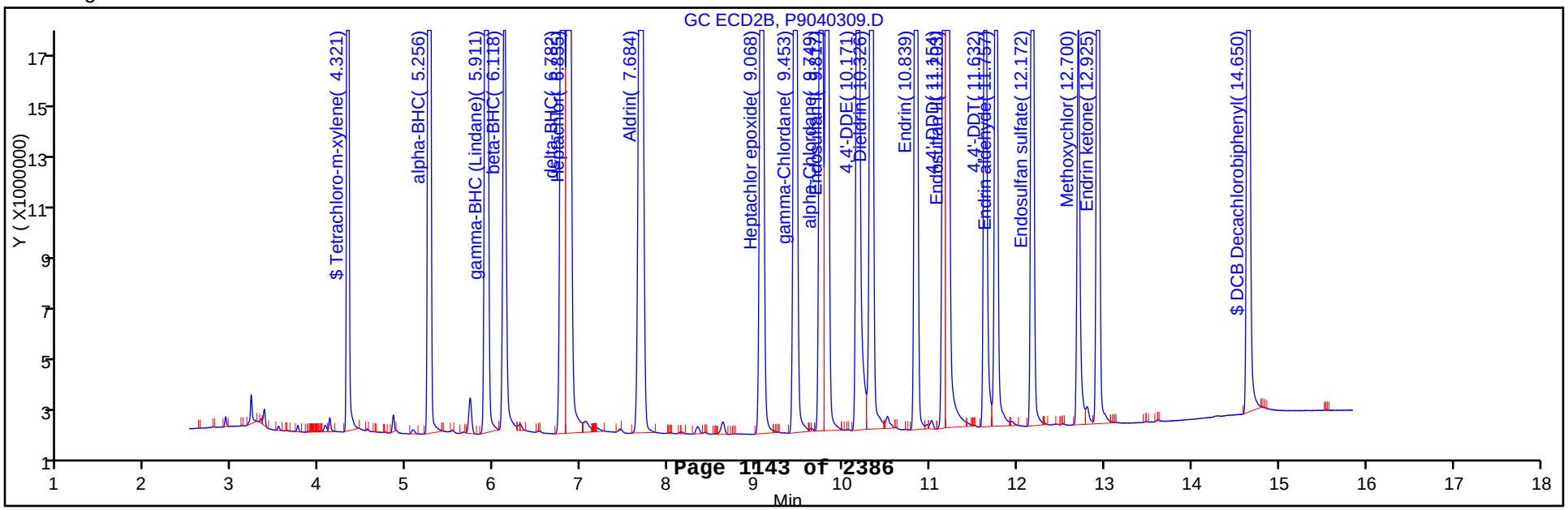
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040309.D

Injection Date:	03-Apr-2013 20:16:20	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	9
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Lims ID:	STD AB L6	Client ID:	
Inject. Date:	03-Apr-2013 20:44:27	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018512-010		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	80447	Lims Sample ID:	10
Sublist:	chrom-PEST9*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:27	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: shockr Date: 04-Apr-2013 15:15:49

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	541103711	0.1869			
2	100	4.321	4.320	0.001	186332499	0.1910			
						RPD = 2.17			
5 alpha-BHC									
1	100	4.385	4.384	0.001	840989964	0.1903			
2	100	5.257	5.254	0.003	279692064	0.2024			
						RPD = 6.16			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	733755830	0.1898			
2	100	5.911	5.909	0.002	244613482	0.1996			
						RPD = 5.02			
7 beta-BHC									
1	100	4.935	4.935	0.000	292279374	0.1872			
2	100	6.117	6.117	0.000	98583121	0.1910			
						RPD = 2.03			
11 delta-BHC									
1	100	5.172	5.173	-0.001	753344496	0.1967			
2	100	6.780	6.780	0.000	239019911	0.2148			
						RPD = 8.81			
22 Heptachlor									
1	100	5.484	5.482	0.002	670351654	0.1803			
2	100	6.857	6.854	0.003	238514816	0.1885			
						RPD = 4.46			
4 Aldrin									
1	100	5.986	5.984	0.002	708567153	0.1810			
2	100	7.682	7.683	-0.001	241549006	0.1968			
						RPD = 8.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	628826131	0.1757			
2	100	9.069	9.069	0.000	205673414	0.1889			
						RPD = 7.27			
21 gamma-Chlordane									
1	100	7.677	7.677	0.000	687397641	0.1877			
2	100	9.453	9.453	0.000	210958358	0.1945			
						RPD = 3.54			
6 alpha-Chlordane									
1	100	8.001	7.999	0.002	682171886	0.1852			
2	100	9.749	9.748	0.001	211345774	0.1927			
						RPD = 3.95			
14 Endosulfan I									
1	100	8.261	8.260	0.001	575575119	0.1760			
2	100	9.817	9.817	0.000	193399542	0.1888			
						RPD = 7.04			
2 4,4'-DDE									
1	100	8.348	8.353	-0.005	681781499	0.1980			
2	100	10.170	10.173	-0.003	210798534	0.2057			
						RPD = 3.82			
13 Dieldrin									
1	100	8.789	8.787	0.002	648004668	0.1828			
2	100	10.327	10.326	0.001	221717526	0.1943			
						RPD = 6.09			
17 Endrin									
1	100	9.224	9.222	0.002	576248746	0.1784			
2	100	10.839	10.838	0.001	199629622	0.1939			
						RPD = 8.33			
1 4,4'-DDD									
1	100	9.560	9.570	-0.010	439081970	0.2263			
2	100	11.152	11.159	-0.007	124629836	0.2292			
						RPD = 1.28			
15 Endosulfan II									
1	100	9.656	9.655	0.001	576229616	0.1700			
2	100	11.202	11.202	0.000	202178884	0.1843			
						RPD = 8.05			
3 4,4'-DDT									
1	100	10.058	10.062	-0.004	496371844	0.2015			
2	100	11.631	11.633	-0.002	146192457	0.2008			
						RPD = 0.37			
18 Endrin aldehyde									
1	100	10.422	10.422	0.000	425839037	0.1845			
2	100	11.757	11.757	0.000	146301571	0.1910			
						RPD = 3.45			
27 Methoxychlor									
1	100	10.978	10.984	-0.006	221977052	0.1903			
2	100	12.700	12.702	-0.002	73316606	0.1883			
						RPD = 1.08			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	508466252	0.1832			
2	100	12.172	12.173	-0.001	160530294	0.1894			
						RPD = 3.32			
19 Endrin ketone									
1	100	11.527	11.527	0.000	560525064	0.1828			
2	100	12.926	12.925	0.001	185279200	0.1898			
						RPD = 3.76			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	534789665	0.1880			
2	100	14.651	14.650	0.001	185843593	0.1783			
						RPD = 5.32			

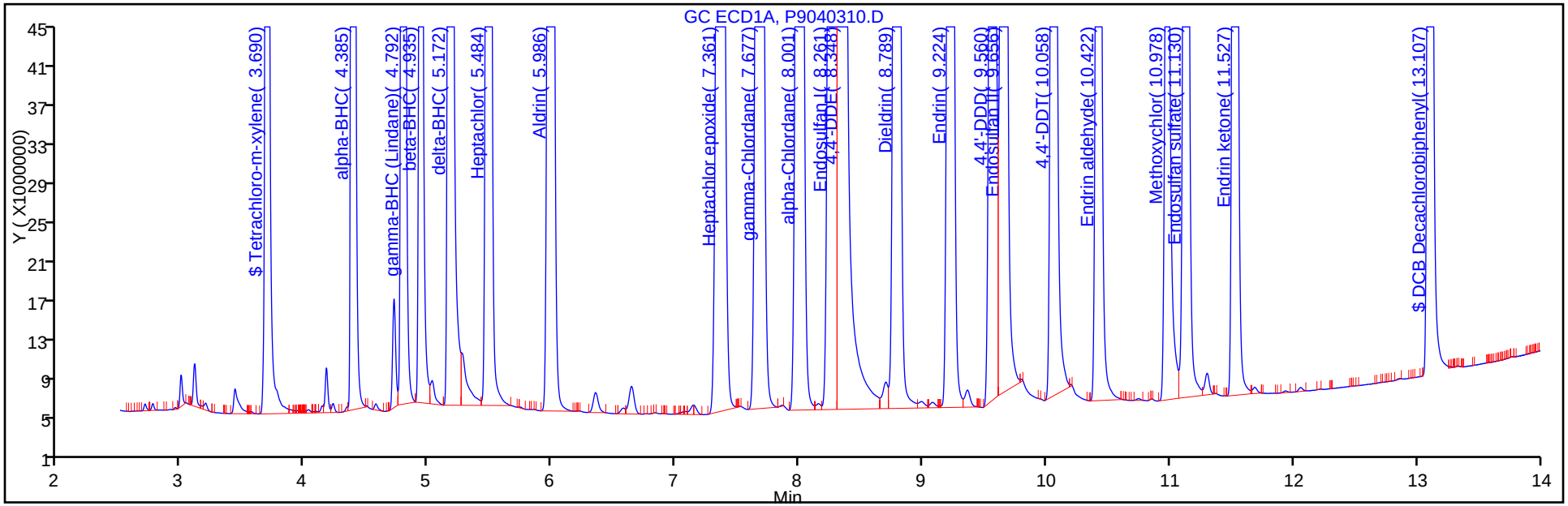
Report Date: 04-Apr-2013 15:32:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

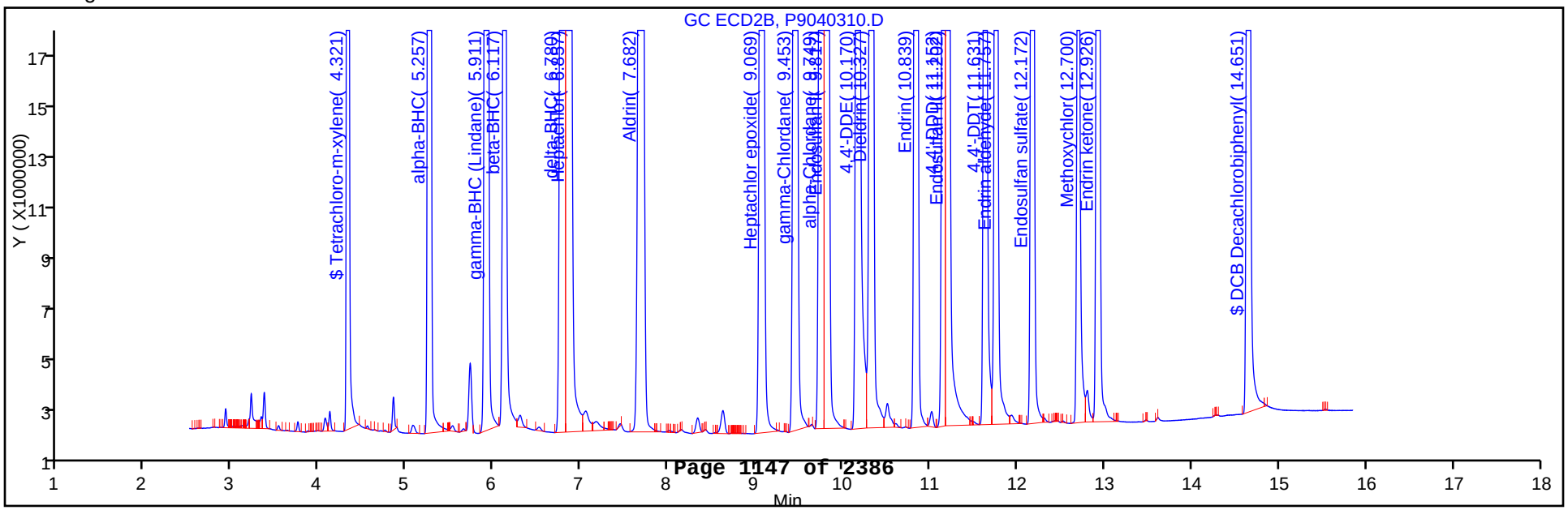
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D

Injection Date:	03-Apr-2013 20:44:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	10
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: PEM 240-80447/4 Calibration Date: 04/03/2013 17:56

Instrument ID: A2HP9 Calib Start Date: 03/28/2013 09:11

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/28/2013 11:31

Lab File ID: P9040304.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	9.22	155827498	1.76	15	
Endrin aldehyde		0			
Endrin ketone	11.53	2793644			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	10.06	255493390	2.18	15	
4,4'-DDD	9.57	3786790			
4,4'-DDE	8.36	1902864			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040304.D
Lims ID: PEM Client ID:
Inject. Date: 03-Apr-2013 17:56:27 Dil. Factor: 1.0000
Sample Type: PEM
Sample ID: 240-0018512-004
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 80447 Lims Sample ID: 4
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:36 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 15:11:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	59038689	0.0204			
2	100	4.321	4.320	0.001	20309266	0.0208			
						RPD = 2.07			
5 alpha-BHC									
1	100	4.384	4.384	0.000	44475761	0.0101			
2	100	5.256	5.254	0.002	13490056	0.009762			
						RPD = 3.04			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	39404583	0.0102			
2	100	5.911	5.909	0.002	12124442	0.009893			
						RPD = 2.99			
7 beta-BHC									
1	100	4.936	4.935	0.001	16710955	0.0107			
2	100	6.119	6.117	0.002	5385783	0.0104			
						RPD = 2.52			
2 4,4'-DDE									
1	100	8.360	8.353	0.007	1902864	0.000553			
2	100	10.174	10.173	0.001	597907	0.000584			
						RPD = 5.43			
17 Endrin									
1	100	9.223	9.222	0.001	155827498	0.0482			
2	100	10.838	10.838	0.000	50141252	0.0487			
						RPD = 0.95			
1 4,4'-DDD									M
1	100	9.568	9.570	-0.002	3786790	0.001952			
2	100	11.158	11.159	-0.001	818472	0.001505			M
						RPD = 25.83			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 4,4'-DDT									
1	100	10.058	10.062	-0.004	255493390	0.1037			
2	100	11.631	11.633	-0.002	73280387	0.1006			
						RPD = 3.02			
18 Endrin aldehyde									
1	100		10.422						
2	100		11.757						
27 Methoxychlor									
1	100		10.984						
2	100		12.702						
19 Endrin ketone									
1	100	11.528	11.527	0.001	2793644	0.000911			
2	100	12.922	12.925	-0.003	2133036	0.002185			
						RPD = 82.30			

QC Flag Legend

Review Flags
M - Manually Integrated

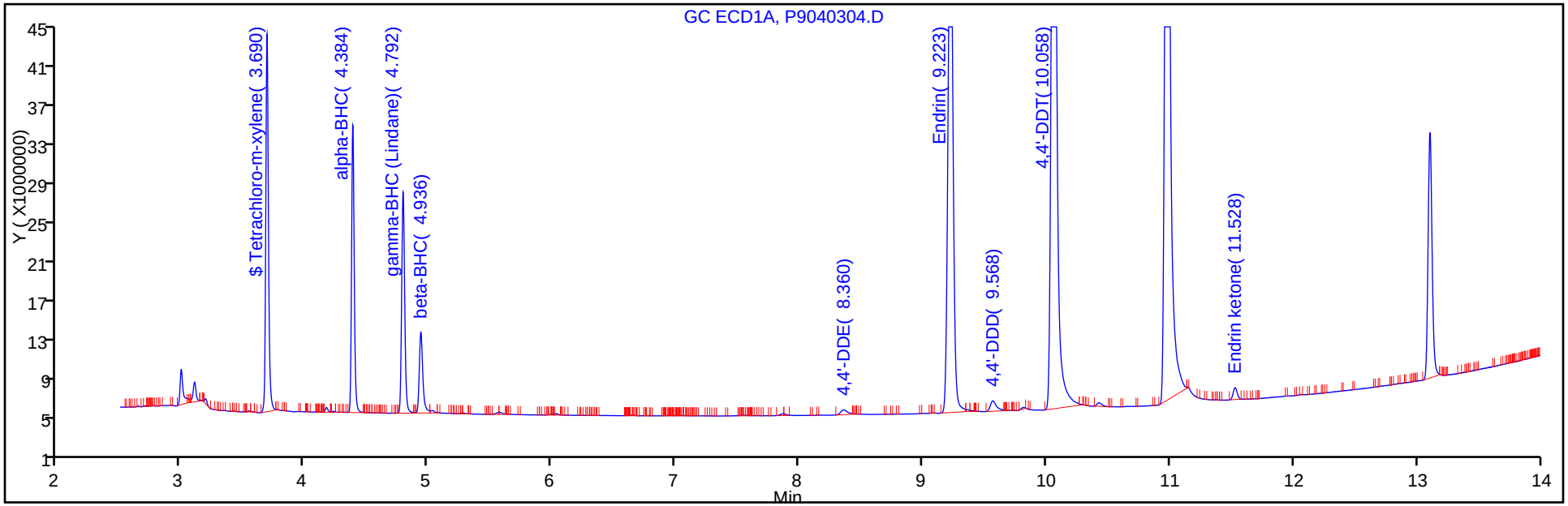
Report Date: 04-Apr-2013 15:32:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

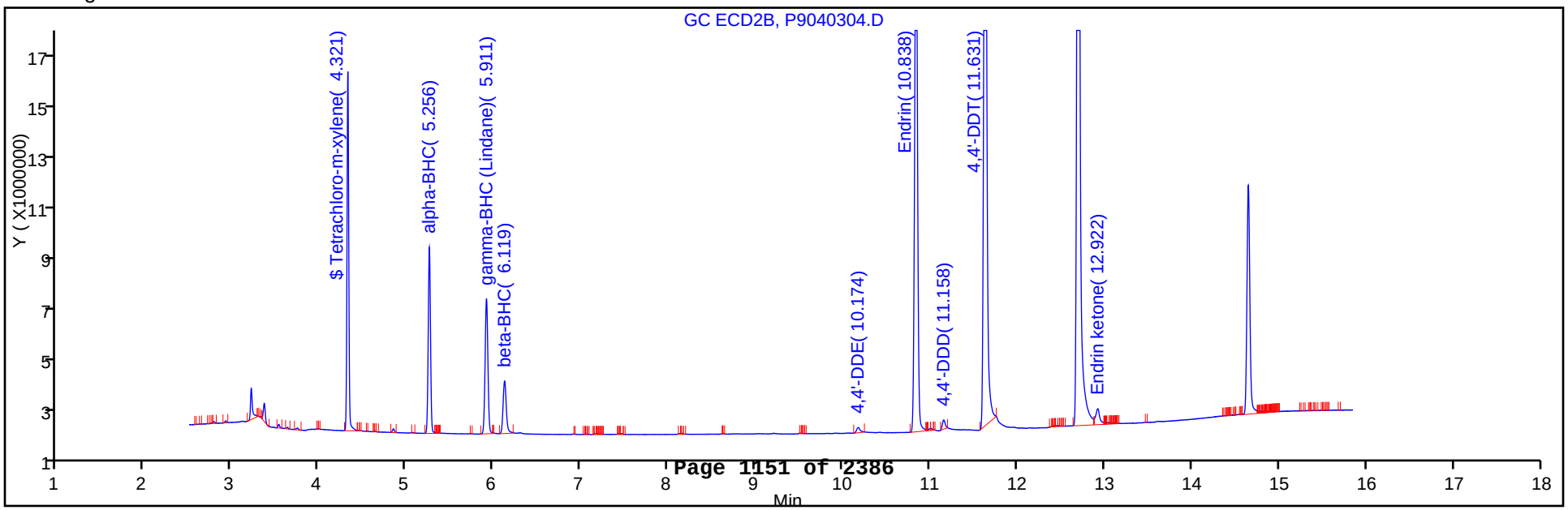
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040304.D

Injection Date:	03-Apr-2013 17:56:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	4
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: PEM 240-80447/4 Calibration Date: 04/03/2013 17:56

Instrument ID: A2HP9 Calib Start Date: 03/28/2013 09:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/28/2013 11:31

Lab File ID: P9040304.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.84	50141252	4.08	15	
Endrin aldehyde		0			
Endrin ketone	12.92	2133036			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.63	73280387	1.90	15	
4,4'-DDD	11.16	818472			
4,4'-DDE	10.17	597907			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040304.D
Lims ID: PEM Client ID:
Inject. Date: 03-Apr-2013 17:56:27 Dil. Factor: 1.0000
Sample Type: PEM
Sample ID: 240-0018512-004
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 80447 Lims Sample ID: 4
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:36 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 15:11:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	59038689	0.0204			
2	100	4.321	4.320	0.001	20309266	0.0208			
						RPD = 2.07			
5 alpha-BHC									
1	100	4.384	4.384	0.000	44475761	0.0101			
2	100	5.256	5.254	0.002	13490056	0.009762			
						RPD = 3.04			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	39404583	0.0102			
2	100	5.911	5.909	0.002	12124442	0.009893			
						RPD = 2.99			
7 beta-BHC									
1	100	4.936	4.935	0.001	16710955	0.0107			
2	100	6.119	6.117	0.002	5385783	0.0104			
						RPD = 2.52			
2 4,4'-DDE									
1	100	8.360	8.353	0.007	1902864	0.000553			
2	100	10.174	10.173	0.001	597907	0.000584			
						RPD = 5.43			
17 Endrin									
1	100	9.223	9.222	0.001	155827498	0.0482			
2	100	10.838	10.838	0.000	50141252	0.0487			
						RPD = 0.95			
1 4,4'-DDD									M
1	100	9.568	9.570	-0.002	3786790	0.001952			
2	100	11.158	11.159	-0.001	818472	0.001505			M
						RPD = 25.83			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 4,4'-DDT									
1	100	10.058	10.062	-0.004	255493390	0.1037			
2	100	11.631	11.633	-0.002	73280387	0.1006			
						RPD = 3.02			
18 Endrin aldehyde									
1	100		10.422						
2	100		11.757						
27 Methoxychlor									
1	100		10.984						
2	100		12.702						
19 Endrin ketone									
1	100	11.528	11.527	0.001	2793644	0.000911			
2	100	12.922	12.925	-0.003	2133036	0.002185			
						RPD = 82.30			

QC Flag Legend

Review Flags
M - Manually Integrated

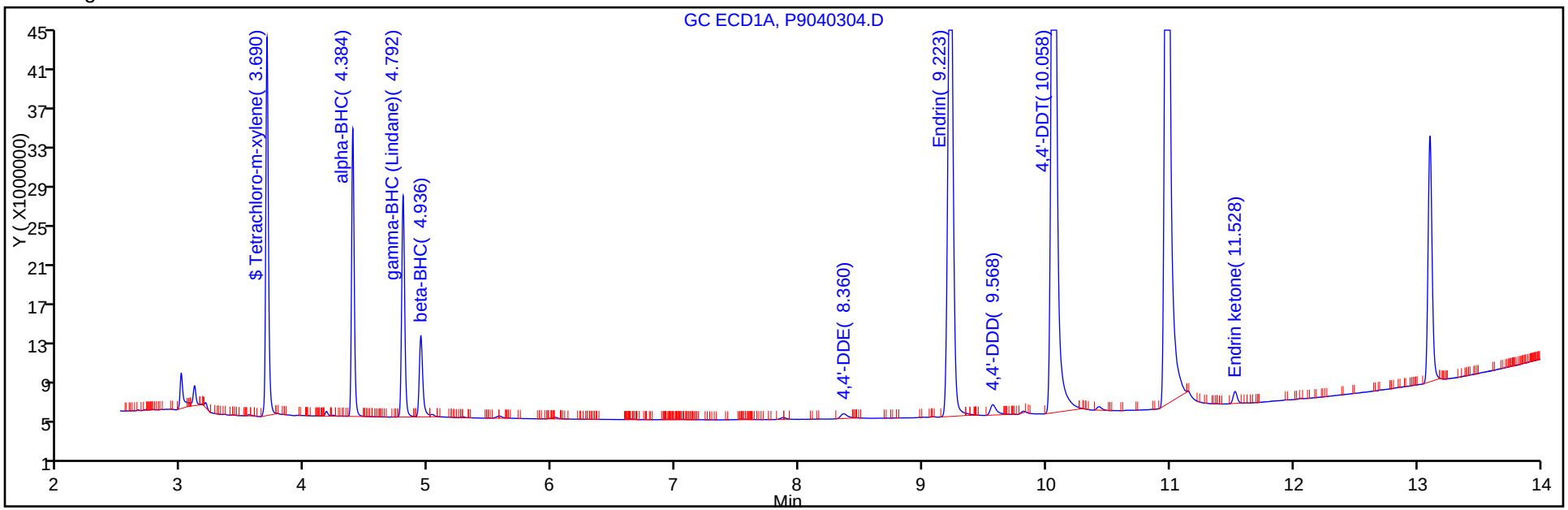
Report Date: 04-Apr-2013 15:32:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

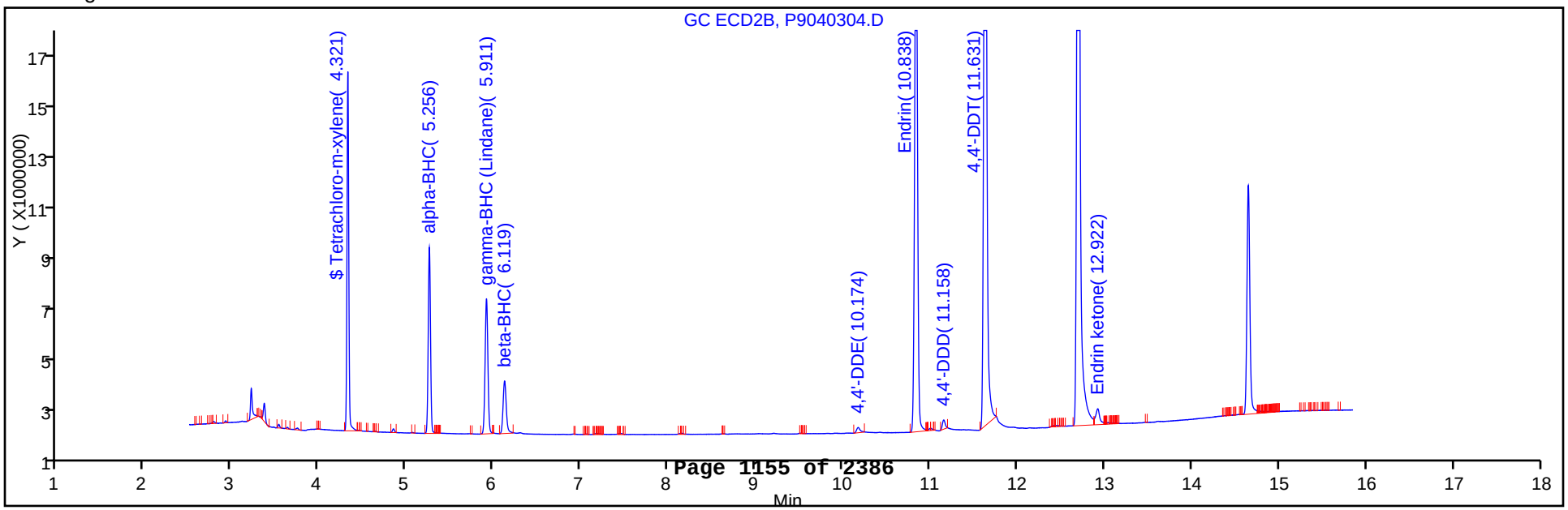
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040304.D

Injection Date:	03-Apr-2013 17:56:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	4
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

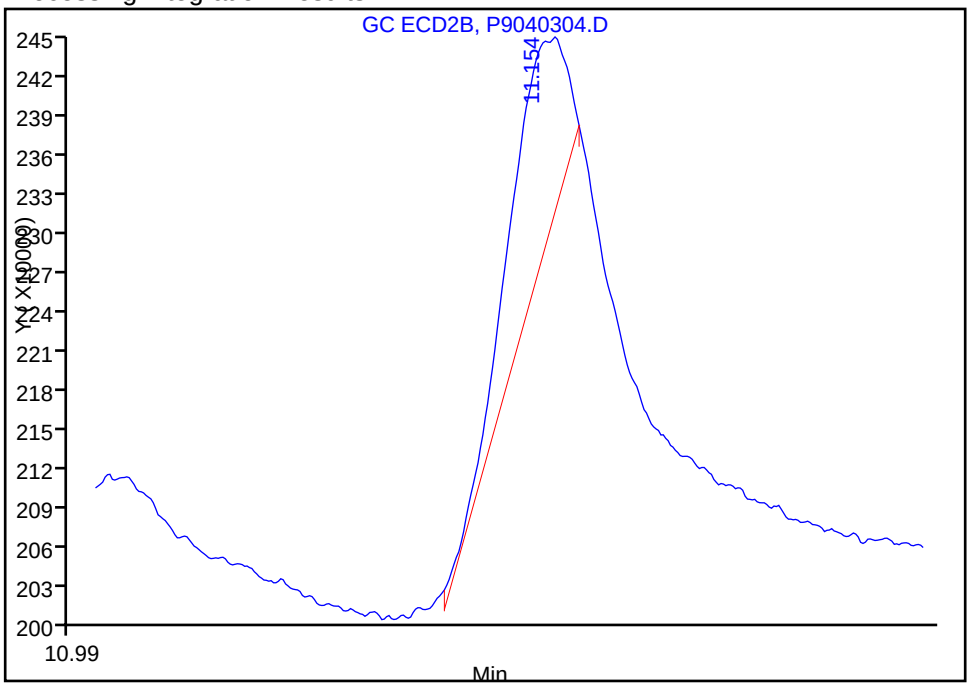
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040304.D		
Injection Date:	03-Apr-2013 17:56:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	4
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

1 4,4'-DDD, Signal: 2, Type: quant, RT: 11.16, Det: GC ecd2b

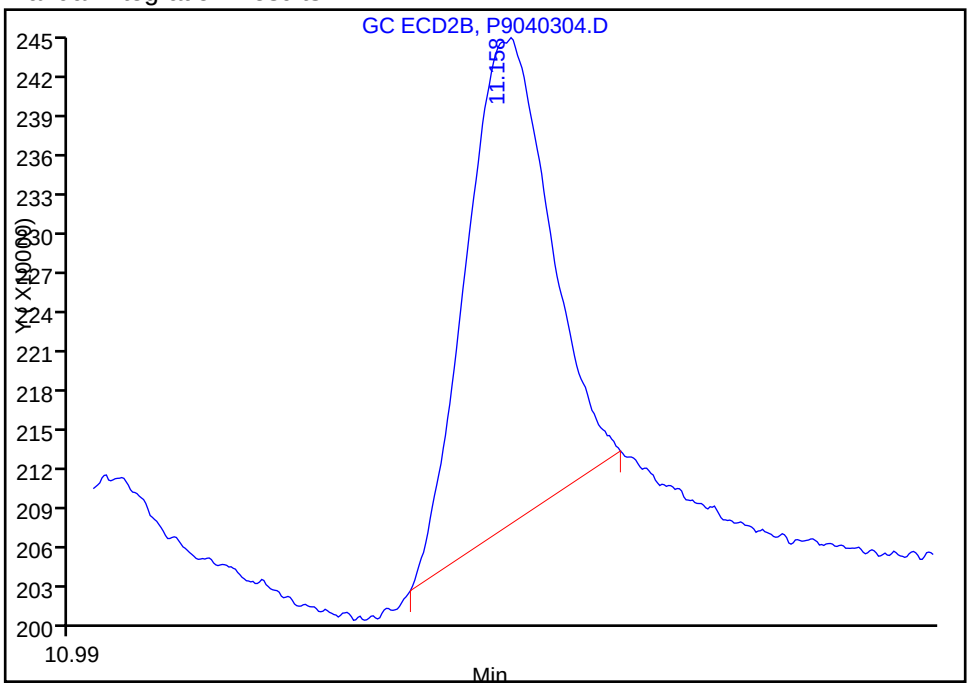
Processing Integration Results

RT: 11.15
Response: 219885
Amount: 0.000404



Manual Integration Results

RT: 11.16
Response: 818472
Amount: 0.001505



Reviewer: shockr, 04-Apr-2013 15:12:20
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-77220/17 Calibration Date: 03/06/2013 08:38

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9030617.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	114258412	84372671		0.738	1.00	-26.2*	20.0
Toxaphene Peak 2	Ave	85774500	74062339		0.863	1.00	-13.7	20.0
Toxaphene Peak 3	Ave	112948515	116518887		1.03	1.00	3.2	20.0
Toxaphene Peak 4	Ave	101804123	132589343		1.30	1.00	30.2*	20.0
Toxaphene Peak 5	Ave	64746380	58202717		0.899	1.00	-10.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-77220/17 Calibration Date: 03/06/2013 08:38

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9030617.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.79	9.76	9.82
Toxaphene Peak 2	10.38	10.35	10.41
Toxaphene Peak 3	10.95	10.92	10.98
Toxaphene Peak 4	11.09	11.06	11.12
Toxaphene Peak 5	11.34	11.32	11.38

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030617.D
Lims ID: ICV
Client ID:
Inject. Date: 06-Mar-2013 08:38:26
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0017754-017
Misc. Info.:
Operator: 001754
Instrument ID: A2HP9
Injection Vol: 1.0 ul
ALS Bottle#: 17
Lims Batch ID: 77220
Lims Sample ID: 17
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:13
Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc
Date: 07-Mar-2013 07:56:53

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.786	0.000	84372671	0.7384		100.0	M
1	2	10.379	10.378	0.001	74062339	0.8635	55.4- 95.4	87.8	M
1	3	10.947	10.948	-0.001	116518887	1.03	79.4- 119.4	138.1	M
1	4	11.094	11.094	0.000	132589343	1.30	72.8- 112.8	157.1	M
1	5	11.344	11.351	-0.007	58202717	0.8989	36.1- 76.1	69.0	M
			Average of Peak Amounts =			0.9670			
2	100	10.776	10.779	-0.003	28770344	0.8801		100.0	M
2	2	11.361	11.362	-0.001	27601937	0.6934	105.6- 145.6	95.9	M
2	3	11.778	11.778	0.000	26907269	0.6091	120.0- 160.0	93.5	M
2	4	12.291	12.292	-0.001	22312851	0.8596	64.0- 104.0	77.6	M
2	5	13.079	13.080	-0.001	30859022	1.56	43.3- 83.3	107.3	M
			Average of Peak Amounts =			0.9202			
						RPD = 4.96			

QC Flag Legend

Review Flags
M - Manually Integrated

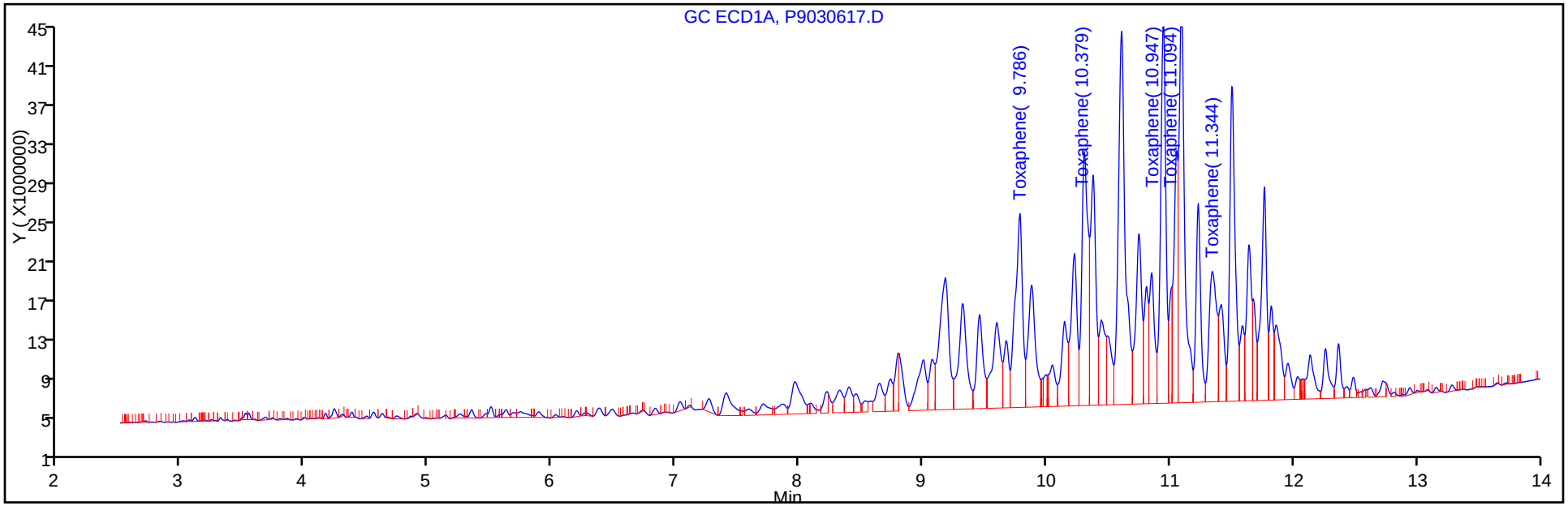
Report Date: 07-Mar-2013 08:00:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

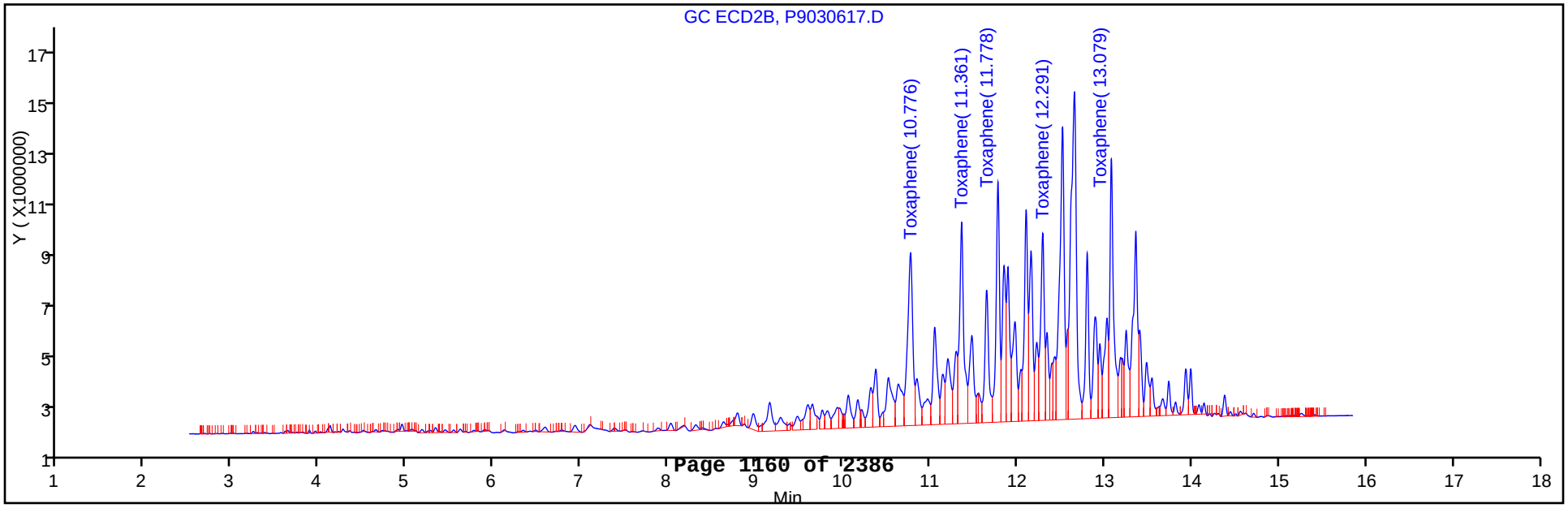
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030617.D

Injection Date:	06-Mar-2013 08:38:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	17
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



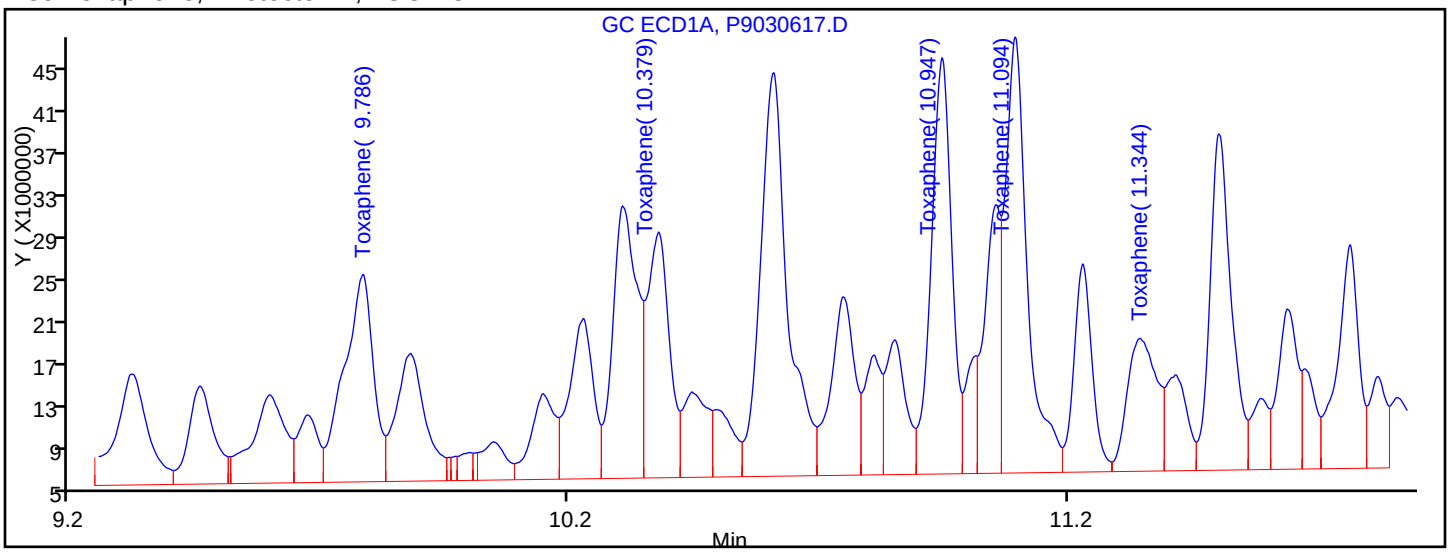
Report Date: 07-Mar-2013 08:00:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030617.D

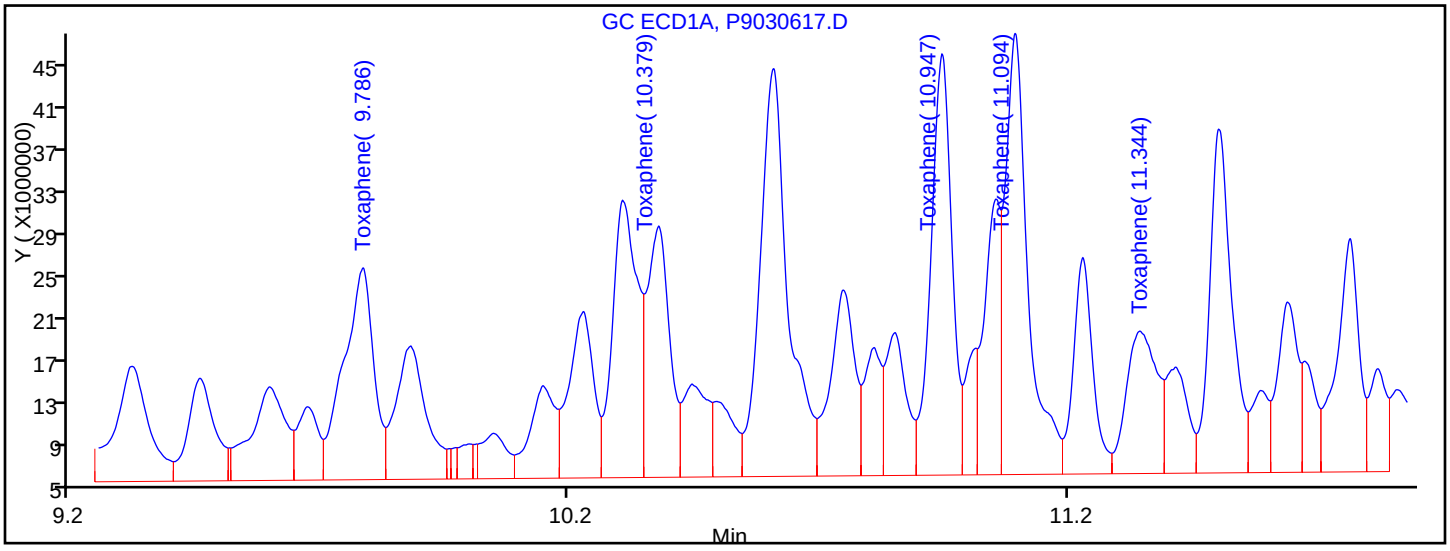
Injection Date:	06-Mar-2013 08:38:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	17
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.786	Response = 79555444	M
RT = 10.379	Response = 70528866	M
RT = 10.947	Response = 111257057	M
RT = 11.094	Response = 125264896	M
RT = 11.344	Response = 51574918	M



Manual Integration Results

RT = 9.786	Response = 84372671	M
RT = 10.379	Response = 74062339	M
RT = 10.947	Response = 116518887	M
RT = 11.094	Response = 132589343	M
RT = 11.344	Response = 58202717	M

Reviewer: vandorenc, 07-Mar-2013 07:56:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-77220/17 Calibration Date: 03/06/2013 08:38

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9030617.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	32688503	28770344		0.880	1.00	-12.0	20.0
Toxaphene Peak 2	Ave	39804840	27601937		0.693	1.00	-30.7*	20.0
Toxaphene Peak 3	Ave	44178745	26907269		0.609	1.00	-39.1*	20.0
Toxaphene Peak 4	Ave	25956145	22312851		0.860	1.00	-14.0	20.0
Toxaphene Peak 5	Ave	19798691	30859022		1.56	1.00	55.9*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-77220/17 Calibration Date: 03/06/2013 08:38

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9030617.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.78	10.75	10.81
Toxaphene Peak 2	11.36	11.33	11.39
Toxaphene Peak 3	11.78	11.75	11.81
Toxaphene Peak 4	12.29	12.26	12.32
Toxaphene Peak 5	13.08	13.05	13.11

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030617.D
Lims ID: ICV Client ID:
Inject. Date: 06-Mar-2013 08:38:26 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0017754-017
Misc. Info.:
Operator: 001754 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 77220 Lims Sample ID: 17
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\PEST9.m
Last Update: 07-Mar-2013 08:00:13 Calib Date: 06-Mar-2013 10:57:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030622.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 07-Mar-2013 07:56:53

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.786	9.786	0.000	84372671	0.7384		100.0	M
1	2	10.379	10.378	0.001	74062339	0.8635	55.4- 95.4	87.8	M
1	3	10.947	10.948	-0.001	116518887	1.03	79.4- 119.4	138.1	M
1	4	11.094	11.094	0.000	132589343	1.30	72.8- 112.8	157.1	M
1	5	11.344	11.351	-0.007	58202717	0.8989	36.1- 76.1	69.0	M
			Average of Peak Amounts =			0.9670			
2	100	10.776	10.779	-0.003	28770344	0.8801		100.0	M
2	2	11.361	11.362	-0.001	27601937	0.6934	105.6- 145.6	95.9	M
2	3	11.778	11.778	0.000	26907269	0.6091	120.0- 160.0	93.5	M
2	4	12.291	12.292	-0.001	22312851	0.8596	64.0- 104.0	77.6	M
2	5	13.079	13.080	-0.001	30859022	1.56	43.3- 83.3	107.3	M
			Average of Peak Amounts =			0.9202			
						RPD = 4.96			

QC Flag Legend

Review Flags
M - Manually Integrated

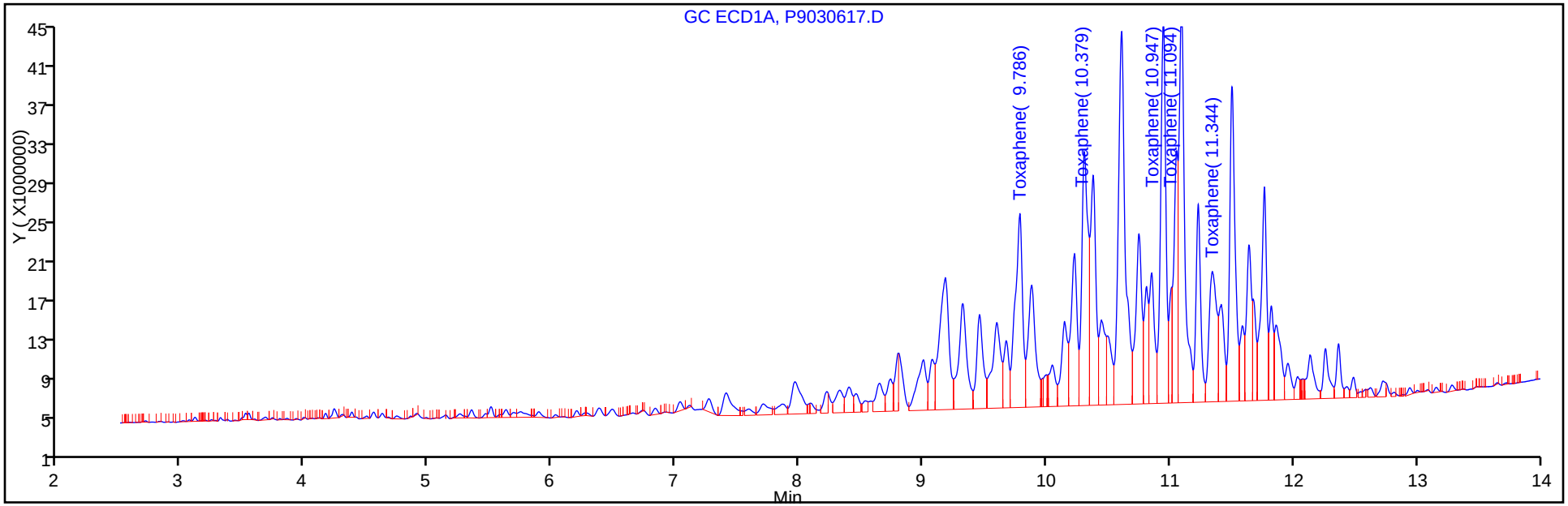
Report Date: 07-Mar-2013 08:00:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

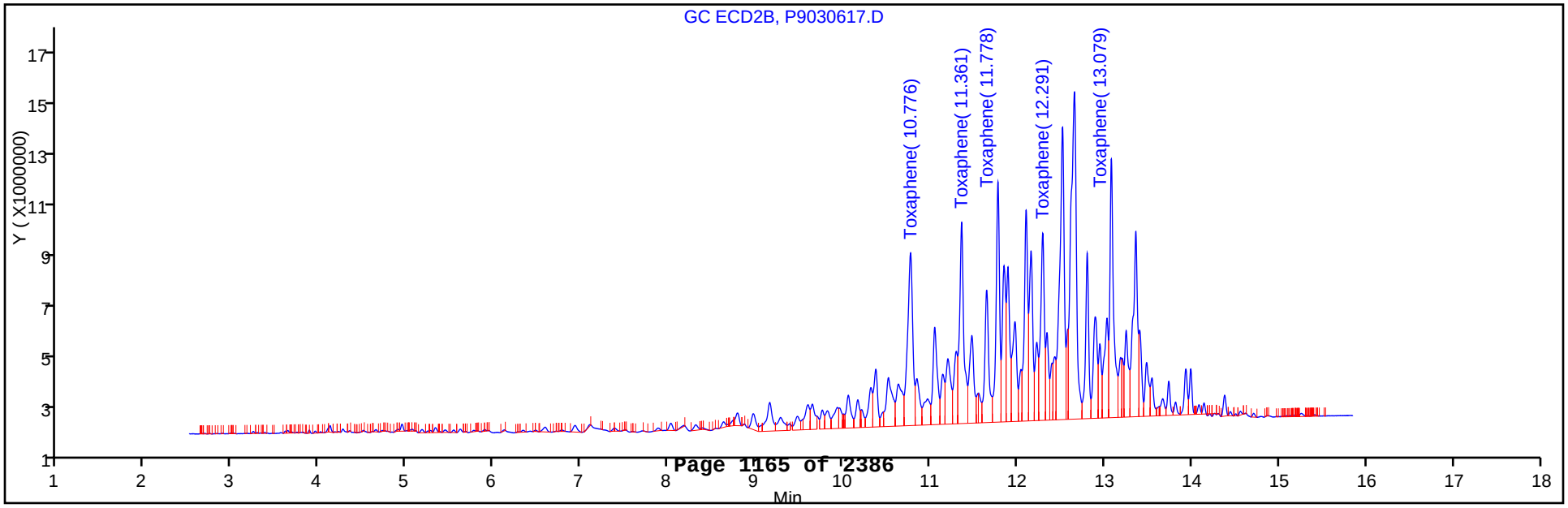
Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030617.D

Injection Date:	06-Mar-2013 08:38:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	17
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



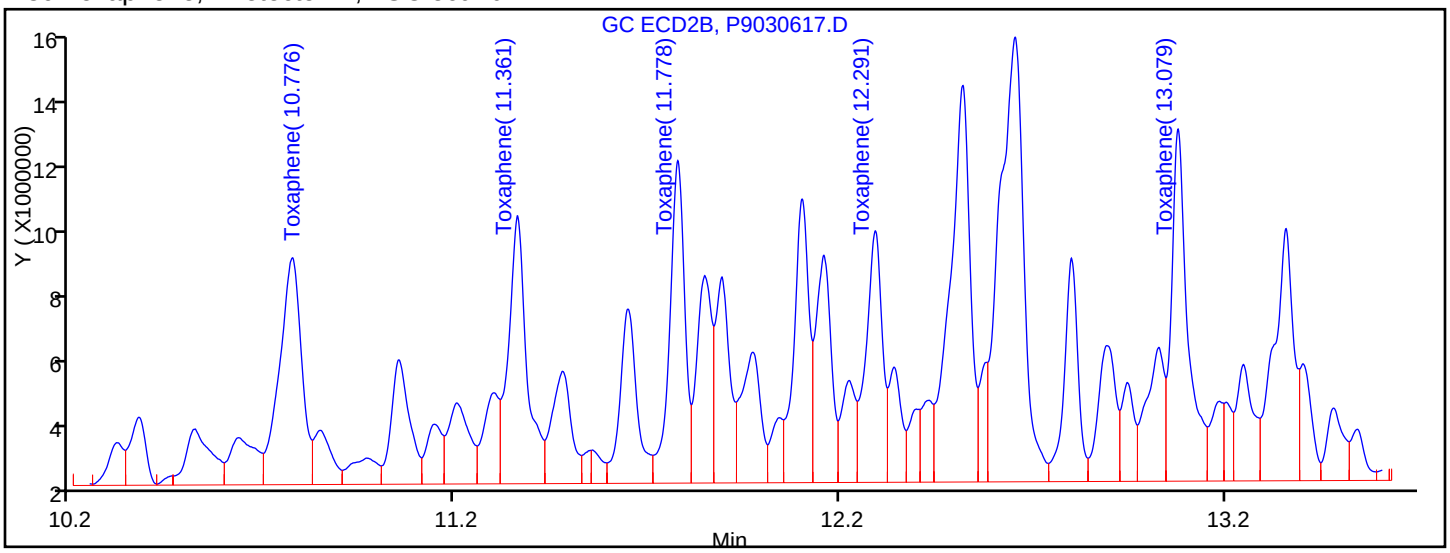
Report Date: 07-Mar-2013 08:00:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130305-17754.b\P9030617.D

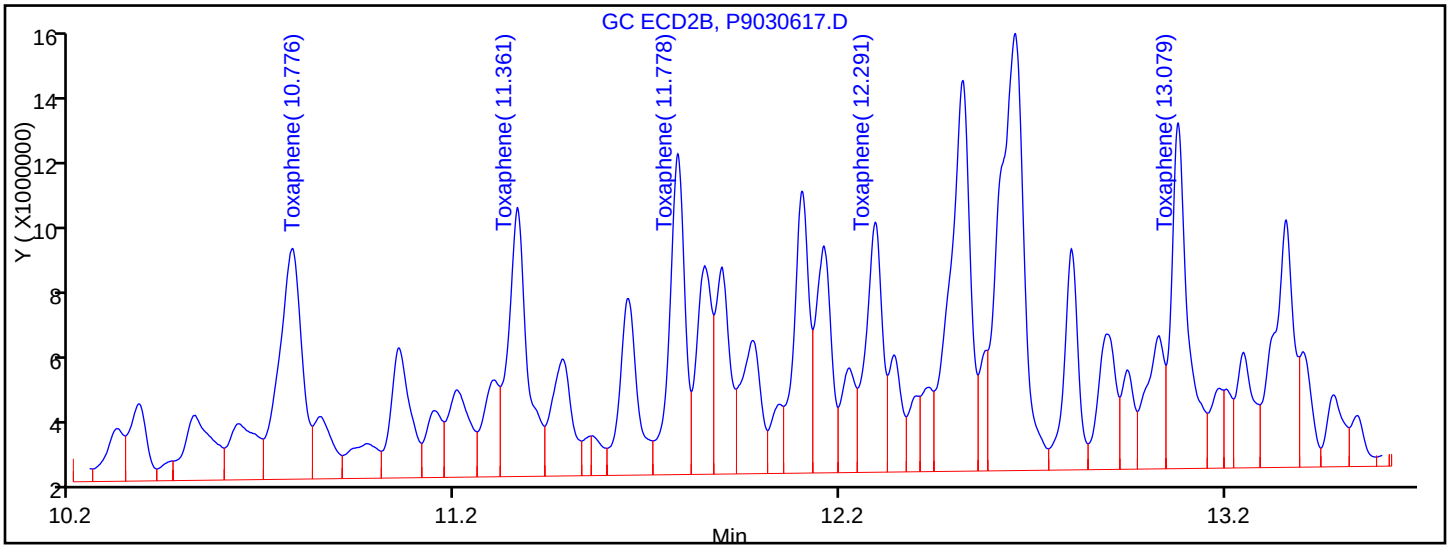
Injection Date:	06-Mar-2013 08:38:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	77220	Lims Sample ID:	17
Operator ID:	001754	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.776	Response = 26542159	M
RT = 11.361	Response = 25972708	M
RT = 11.778	Response = 25718102	M
RT = 12.291	Response = 21609449	M
RT = 13.079	Response = 30384828	M



Manual Integration Results

RT = 10.776	Response = 28770344	M
RT = 11.361	Response = 27601937	M
RT = 11.778	Response = 26907269	M
RT = 12.291	Response = 22312851	M
RT = 13.079	Response = 30859022	M

Reviewer: vandorenc, 07-Mar-2013 07:56:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80447/11 Calibration Date: 04/03/2013 21:12

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040311.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	4419355710	4365905760		0.0247	0.0250	-1.2	20.0
gamma-BHC (Lindane)	Ave	3865761057	3831571320		0.0248	0.0250	-0.9	20.0
beta-BHC	Ave	1561483512	1565571960		0.0251	0.0250	0.3	20.0
delta-BHC	Ave	3830712363	3784025440		0.0247	0.0250	-1.2	20.0
Heptachlor	Ave	3718954058	3618747000		0.0243	0.0250	-2.7	20.0
Aldrin	Ave	3914122989	3924338440		0.0251	0.0250	0.3	20.0
Heptachlor epoxide	Ave	3579252798	3531372880		0.0247	0.0250	-1.3	20.0
gamma-Chlordane	Ave	3661900831	3583384000		0.0245	0.0250	-2.1	20.0
alpha-Chlordane	Ave	3683670017	3486771120		0.0237	0.0250	-5.3	20.0
Endosulfan I	Ave	3270427504	3212667320		0.0246	0.0250	-1.8	20.0
4,4'-DDE	Ave	3443058774	3324307200		0.0241	0.0250	-3.4	20.0
Dieldrin	Ave	3544234355	3451630640		0.0243	0.0250	-2.6	20.0
Endrin	Ave	3230152497	3100977960		0.0240	0.0250	-4.0	20.0
4,4'-DDD	Ave	1940050145	1769880200		0.0228	0.0250	-8.8	20.0
Endosulfan II	Ave	3389207825	3505073080		0.0259	0.0250	3.4	20.0
4,4'-DDT	Ave	2463030168	2451591000		0.0249	0.0250	-0.5	20.0
Endrin aldehyde	Ave	2307734658	2252911640		0.0244	0.0250	-2.4	20.0
Methoxychlor	Ave	1166265672	1223237720		0.0262	0.0250	4.9	20.0
Endosulfan sulfate	Ave	2775555368	2758751240		0.0248	0.0250	-0.6	20.0
Endrin ketone	Ave	3065992115	2894595680		0.0236	0.0250	-5.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80447/11 Calibration Date: 04/03/2013 21:12

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040311.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.38	4.35	4.41
gamma-BHC (Lindane)	4.79	4.76	4.82
beta-BHC	4.94	4.91	4.97
delta-BHC	5.17	5.14	5.20
Heptachlor	5.48	5.45	5.52
Aldrin	5.99	5.95	6.01
Heptachlor epoxide	7.36	7.33	7.39
gamma-Chlordane	7.68	7.65	7.71
alpha-Chlordane	8.00	7.97	8.03
Endosulfan I	8.26	8.23	8.29
4,4'-DDE	8.36	8.32	8.38
Dieldrin	8.79	8.76	8.82
Endrin	9.22	9.19	9.25
4,4'-DDD	9.57	9.54	9.60
Endosulfan II	9.66	9.63	9.69
4,4'-DDT	10.07	10.03	10.09
Endrin aldehyde	10.43	10.39	10.45
Methoxychlor	10.99	10.95	11.01
Endosulfan sulfate	11.13	11.10	11.16
Endrin ketone	11.53	11.50	11.56

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040311.D
Lims ID: ICV Client ID:
Inject. Date: 03-Apr-2013 21:12:15 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018512-011
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 80447 Lims Sample ID: 11
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:23 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 15:15:10

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 alpha-BHC									
1	100	4.384	4.384	0.000	109147644	0.0247			
2	100	5.256	5.254	0.002	33187704	0.0240			
						RPD = 2.80			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	95789283	0.0248			
2	100	5.910	5.909	0.001	29863597	0.0244			
						RPD = 1.68			
7 beta-BHC									
1	100	4.935	4.935	0.000	39139299	0.0251			
2	100	6.118	6.117	0.001	13007508	0.0252			
						RPD = 0.55			
11 delta-BHC									
1	100	5.173	5.173	0.000	94600636	0.0247			
2	100	6.782	6.780	0.002	26292969	0.0236			
						RPD = 4.42			
22 Heptachlor									M
1	100	5.484	5.482	0.002	90468675	0.0243			M
2	100	6.856	6.854	0.002	29675720	0.0235			
						RPD = 3.67			
4 Aldrin									
1	100	5.985	5.984	0.001	98108461	0.0251			
2	100	7.684	7.683	0.001	29617460	0.0241			
						RPD = 3.78			
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	88284322	0.0247			
2	100	9.069	9.069	0.000	26293131	0.0242			
						RPD = 2.09			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
21 gamma-Chlordane									
1	100	7.678	7.677	0.001	89584600	0.0245			
2	100	9.453	9.453	0.000	25937472	0.0239			
						RPD = 2.28			
6 alpha-Chlordane									
1	100	8.001	7.999	0.002	87169278	0.0237			
2	100	9.749	9.748	0.001	25292500	0.0231			
						RPD = 2.60			
14 Endosulfan I									
1	100	8.262	8.260	0.002	80316683	0.0246			
2	100	9.818	9.817	0.001	24205419	0.0236			
						RPD = 3.84			
2 4,4'-DDE									
1	100	8.359	8.353	0.006	83107680	0.0241			
2	100	10.172	10.173	-0.001	23439456	0.0229			
						RPD = 5.37			
13 Dieldrin									
1	100	8.789	8.787	0.002	86290766	0.0243			
2	100	10.327	10.326	0.001	26236709	0.0230			
						RPD = 5.72			
17 Endrin									
1	100	9.224	9.222	0.002	77524449	0.0240			
2	100	10.839	10.838	0.001	23951016	0.0233			
						RPD = 3.11			
1 4,4'-DDD									
1	100	9.574	9.570	0.004	44247005	0.0228			
2	100	11.158	11.159	-0.001	11937810	0.0220			
						RPD = 3.79			
15 Endosulfan II									
1	100	9.657	9.655	0.002	87626827	0.0259			
2	100	11.202	11.202	0.000	27645181	0.0252			
						RPD = 2.57			
3 4,4'-DDT									
1	100	10.065	10.062	0.003	61289775	0.0249			
2	100	11.634	11.633	0.001	17787062	0.0244			
						RPD = 1.84			
18 Endrin aldehyde									
1	100	10.425	10.422	0.003	56322791	0.0244			
2	100	11.757	11.757	0.000	18646829	0.0243			
						RPD = 0.25			
27 Methoxychlor									
1	100	10.986	10.984	0.002	30580943	0.0262			
2	100	12.701	12.702	-0.001	9378590	0.0241			
						RPD = 8.49			
16 Endosulfan sulfate									
1	100	11.132	11.130	0.002	68968781	0.0248			
2	100	12.173	12.173	0.000	20702012	0.0244			
						RPD = 1.73			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.529	11.527	0.002	72364892	0.0236			
2	100	12.925	12.925	0.000	22761024	0.0233			
						RPD = 1.20			

QC Flag Legend

Review Flags
M - Manually Integrated

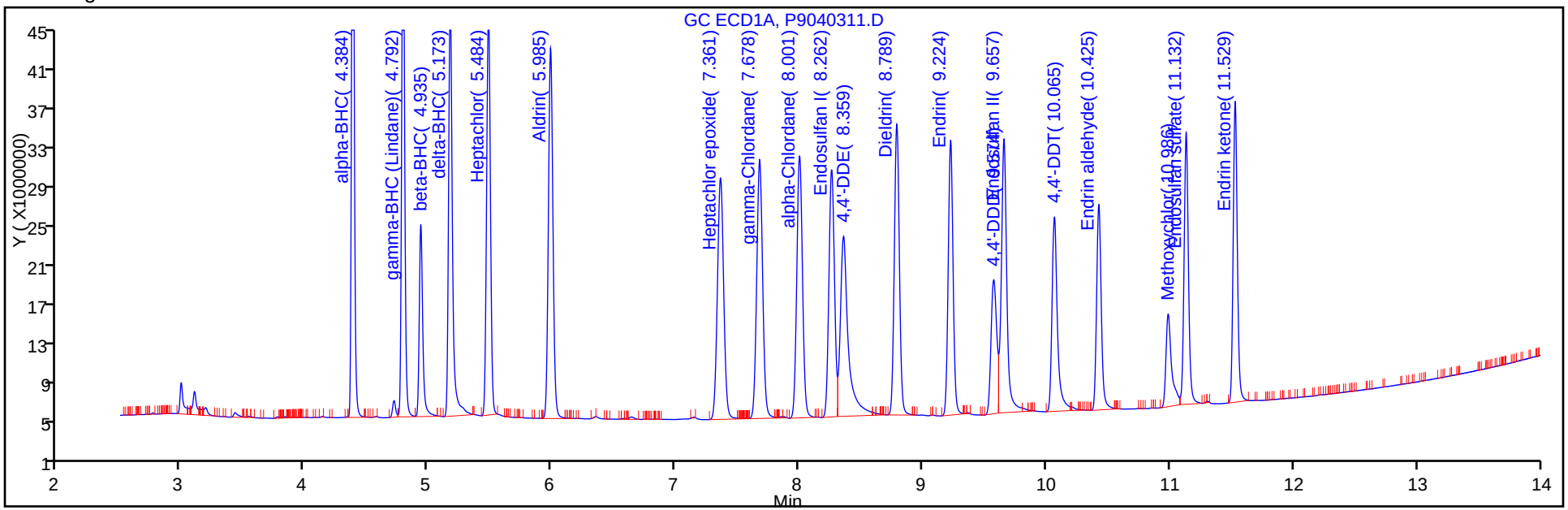
Report Date: 04-Apr-2013 15:32:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

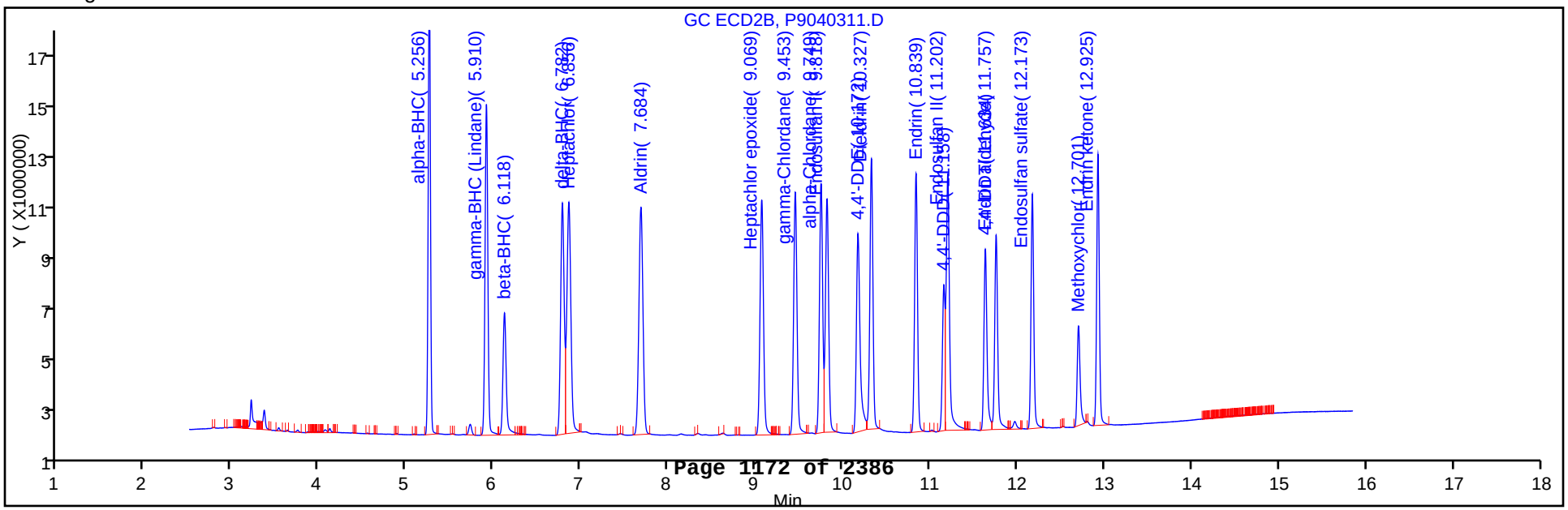
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040311.D

Injection Date:	03-Apr-2013 21:12:15	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	11
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

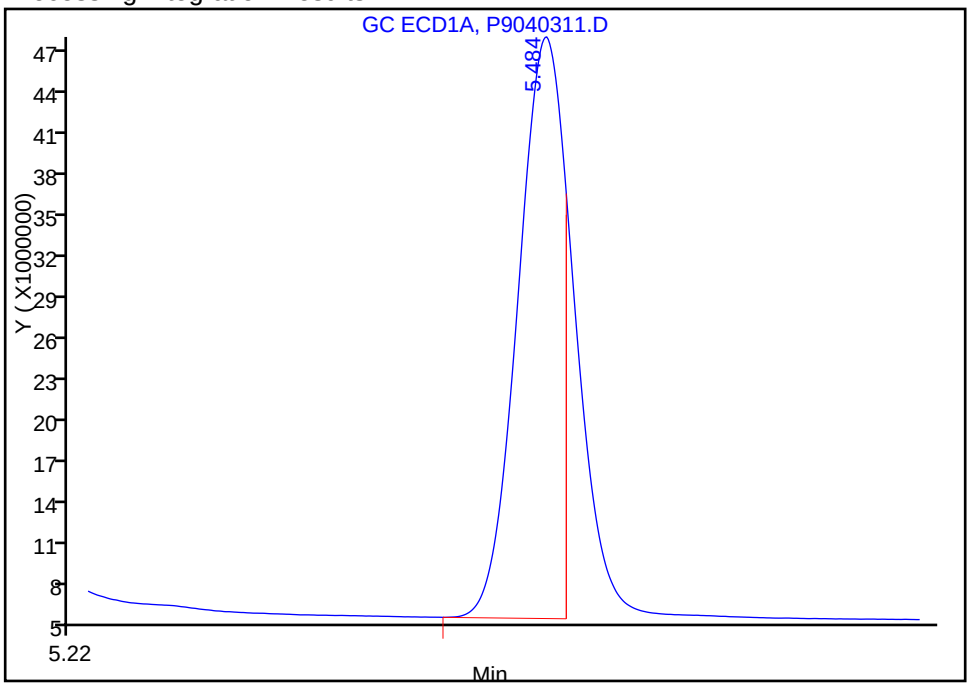
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040311.D		
Injection Date:	03-Apr-2013 21:12:15	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	11
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

22 Heptachlor, Signal: 1, Type: quant, RT: 5.48, Det: GC ECD1A

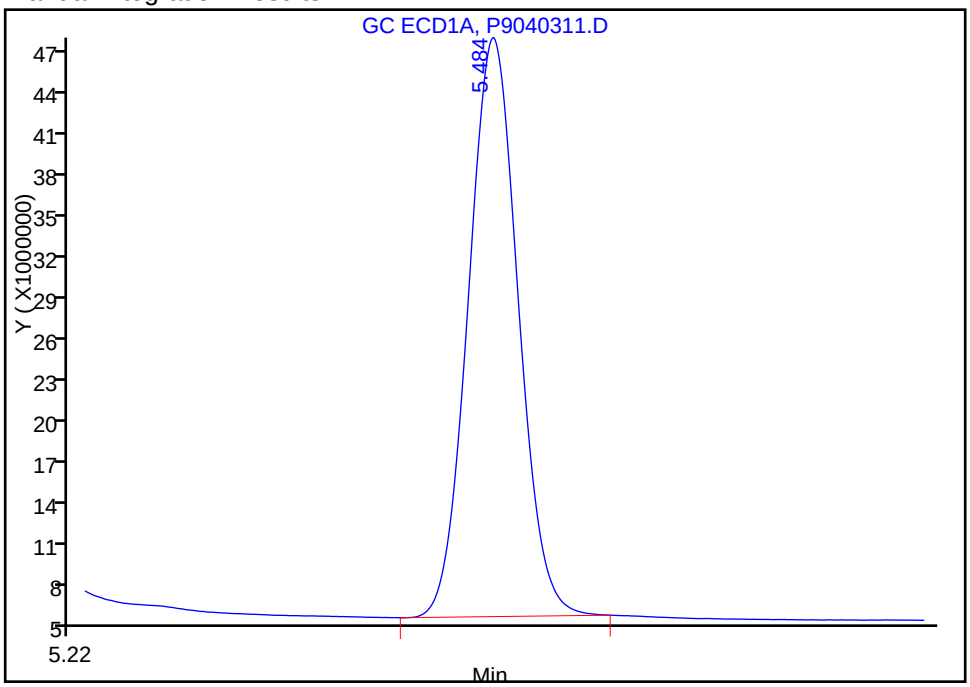
Processing Integration Results

RT: 5.48
Response: 70282289
Amount: 0.018898



Manual Integration Results

RT: 5.48
Response: 90468675
Amount: 0.024326



Reviewer: shockr, 04-Apr-2013 15:15:10
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80447/11 Calibration Date: 04/03/2013 21:12

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040311.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1381869578	1327508160		0.0240	0.0250	-3.9	20.0
gamma-BHC (Lindane)	Ave	1225569017	1194543880		0.0244	0.0250	-2.5	20.0
beta-BHC	Ave	516111884	520300320		0.0252	0.0250	0.8	20.0
delta-BHC	Ave	1112828049	1051718760		0.0236	0.0250	-5.5	20.0
Heptachlor	Ave	1265474988	1187028800		0.0235	0.0250	-6.2	20.0
Aldrin	Ave	1227147278	1184698400		0.0241	0.0250	-3.5	20.0
Heptachlor epoxide	Ave	1088533610	1051725240		0.0242	0.0250	-3.4	20.0
gamma-Chlordane	Ave	1084671103	1037498880		0.0239	0.0250	-4.3	20.0
alpha-Chlordane	Ave	1096991737	1011700000		0.0231	0.0250	-7.8	20.0
Endosulfan I	Ave	1024198478	968216760		0.0236	0.0250	-5.5	20.0
4,4'-DDE	Ave	1024648603	937578240		0.0229	0.0250	-8.5	20.0
Dieldrin	Ave	1141058345	1049468360		0.0230	0.0250	-8.0	20.0
Endrin	Ave	1029509495	958040640		0.0233	0.0250	-6.9	20.0
4,4'-DDD	Ave	543667333	477512400		0.0220	0.0250	-12.2	20.0
Endosulfan II	Ave	1097142917	1105807240		0.0252	0.0250	0.8	20.0
4,4'-DDT	Ave	728110051	711482480		0.0244	0.0250	-2.3	20.0
Endrin aldehyde	Ave	765943473	745873160		0.0243	0.0250	-2.6	20.0
Endosulfan sulfate	Ave	847667072	828080480		0.0244	0.0250	-2.3	20.0
Methoxychlor	Ave	389379548	375143600		0.0241	0.0250	-3.7	20.0
Endrin ketone	Ave	976040682	910440960		0.0233	0.0250	-6.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80447/11 Calibration Date: 04/03/2013 21:12

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040311.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.26	5.22	5.28
gamma-BHC (Lindane)	5.91	5.88	5.94
beta-BHC	6.12	6.09	6.15
delta-BHC	6.78	6.75	6.81
Heptachlor	6.86	6.82	6.89
Aldrin	7.68	7.65	7.71
Heptachlor epoxide	9.07	9.04	9.10
gamma-Chlordane	9.45	9.42	9.48
alpha-Chlordane	9.75	9.72	9.78
Endosulfan I	9.82	9.79	9.85
4,4'-DDE	10.17	10.14	10.20
Dieldrin	10.33	10.30	10.36
Endrin	10.84	10.81	10.87
4,4'-DDD	11.16	11.13	11.19
Endosulfan II	11.20	11.17	11.23
4,4'-DDT	11.63	11.60	11.66
Endrin aldehyde	11.76	11.73	11.79
Endosulfan sulfate	12.17	12.14	12.20
Methoxychlor	12.70	12.67	12.73
Endrin ketone	12.93	12.90	12.96

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040311.D
Lims ID: ICV Client ID:
Inject. Date: 03-Apr-2013 21:12:15 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018512-011
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 80447 Lims Sample ID: 11
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:23 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 15:15:10

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 alpha-BHC									
1	100	4.384	4.384	0.000	109147644	0.0247			
2	100	5.256	5.254	0.002	33187704	0.0240			
						RPD = 2.80			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	95789283	0.0248			
2	100	5.910	5.909	0.001	29863597	0.0244			
						RPD = 1.68			
7 beta-BHC									
1	100	4.935	4.935	0.000	39139299	0.0251			
2	100	6.118	6.117	0.001	13007508	0.0252			
						RPD = 0.55			
11 delta-BHC									
1	100	5.173	5.173	0.000	94600636	0.0247			
2	100	6.782	6.780	0.002	26292969	0.0236			
						RPD = 4.42			
22 Heptachlor									M
1	100	5.484	5.482	0.002	90468675	0.0243			M
2	100	6.856	6.854	0.002	29675720	0.0235			
						RPD = 3.67			
4 Aldrin									
1	100	5.985	5.984	0.001	98108461	0.0251			
2	100	7.684	7.683	0.001	29617460	0.0241			
						RPD = 3.78			
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	88284322	0.0247			
2	100	9.069	9.069	0.000	26293131	0.0242			
						RPD = 2.09			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
21 gamma-Chlordane									
1	100	7.678	7.677	0.001	89584600	0.0245			
2	100	9.453	9.453	0.000	25937472	0.0239			
						RPD = 2.28			
6 alpha-Chlordane									
1	100	8.001	7.999	0.002	87169278	0.0237			
2	100	9.749	9.748	0.001	25292500	0.0231			
						RPD = 2.60			
14 Endosulfan I									
1	100	8.262	8.260	0.002	80316683	0.0246			
2	100	9.818	9.817	0.001	24205419	0.0236			
						RPD = 3.84			
2 4,4'-DDE									
1	100	8.359	8.353	0.006	83107680	0.0241			
2	100	10.172	10.173	-0.001	23439456	0.0229			
						RPD = 5.37			
13 Dieldrin									
1	100	8.789	8.787	0.002	86290766	0.0243			
2	100	10.327	10.326	0.001	26236709	0.0230			
						RPD = 5.72			
17 Endrin									
1	100	9.224	9.222	0.002	77524449	0.0240			
2	100	10.839	10.838	0.001	23951016	0.0233			
						RPD = 3.11			
1 4,4'-DDD									
1	100	9.574	9.570	0.004	44247005	0.0228			
2	100	11.158	11.159	-0.001	11937810	0.0220			
						RPD = 3.79			
15 Endosulfan II									
1	100	9.657	9.655	0.002	87626827	0.0259			
2	100	11.202	11.202	0.000	27645181	0.0252			
						RPD = 2.57			
3 4,4'-DDT									
1	100	10.065	10.062	0.003	61289775	0.0249			
2	100	11.634	11.633	0.001	17787062	0.0244			
						RPD = 1.84			
18 Endrin aldehyde									
1	100	10.425	10.422	0.003	56322791	0.0244			
2	100	11.757	11.757	0.000	18646829	0.0243			
						RPD = 0.25			
27 Methoxychlor									
1	100	10.986	10.984	0.002	30580943	0.0262			
2	100	12.701	12.702	-0.001	9378590	0.0241			
						RPD = 8.49			
16 Endosulfan sulfate									
1	100	11.132	11.130	0.002	68968781	0.0248			
2	100	12.173	12.173	0.000	20702012	0.0244			
						RPD = 1.73			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.529	11.527	0.002	72364892	0.0236			
2	100	12.925	12.925	0.000	22761024	0.0233			
						RPD = 1.20			

QC Flag Legend

Review Flags
M - Manually Integrated

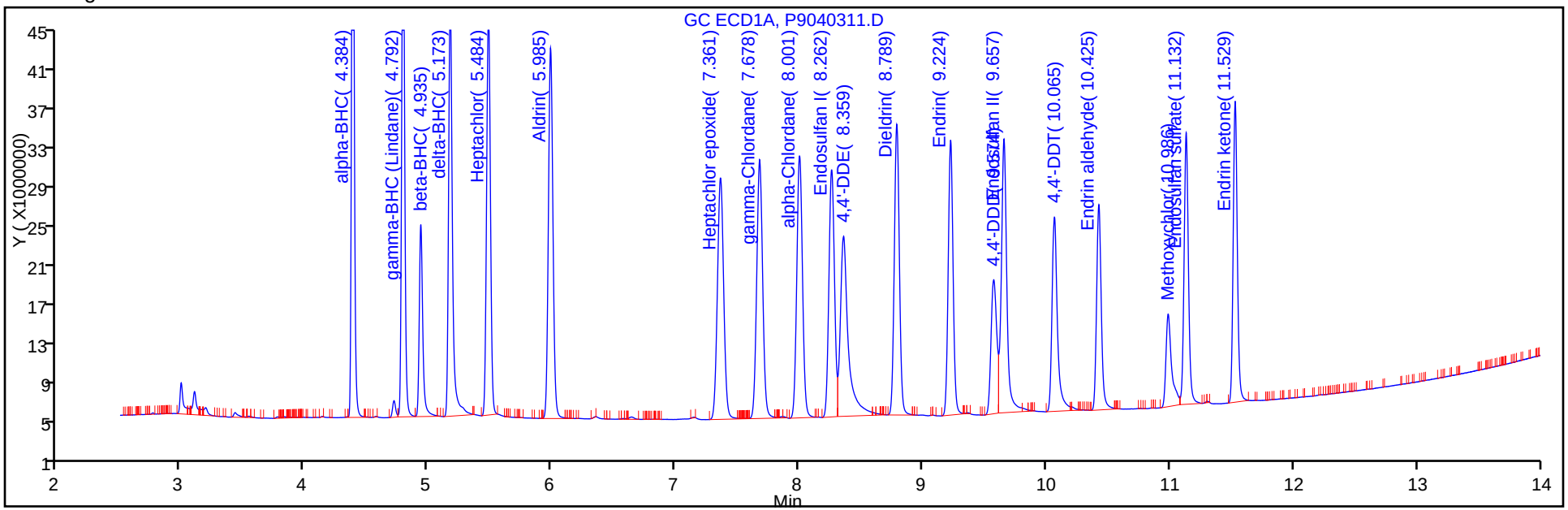
Report Date: 04-Apr-2013 15:32:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

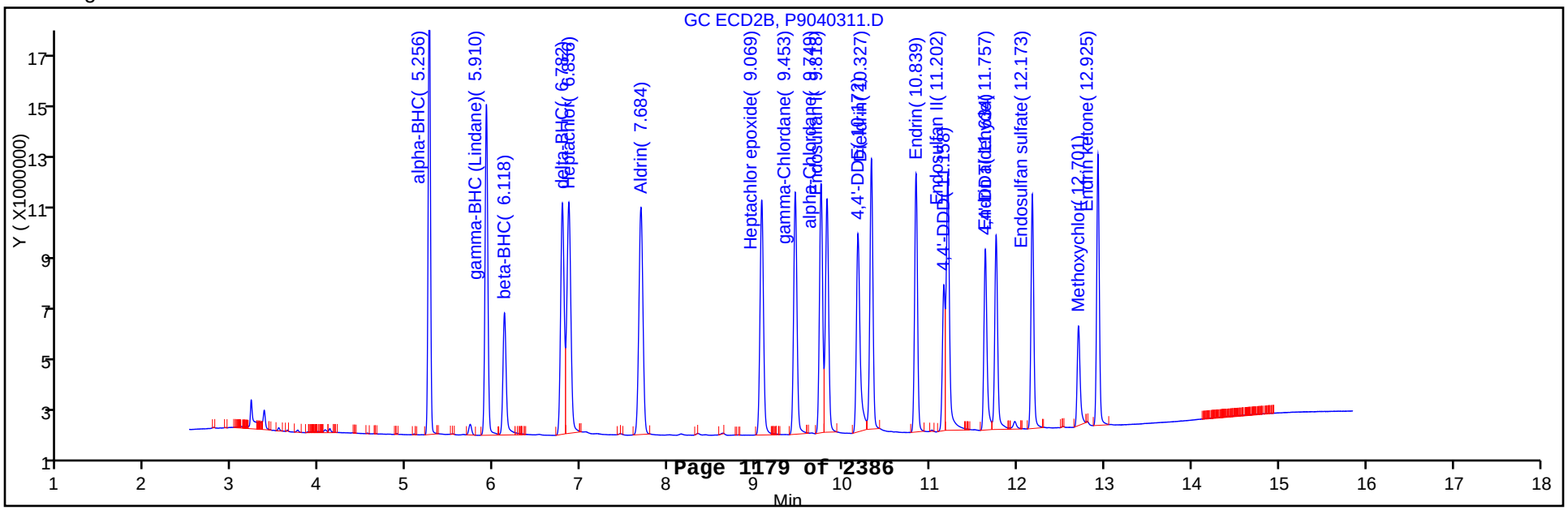
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040311.D

Injection Date:	03-Apr-2013 21:12:15	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	11
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/12 Calibration Date: 04/03/2013 21:39

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040312.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	114258412	113687136		0.995	1.00	-0.5	20.0
Toxaphene Peak 2	Ave	85774500	66141767		0.771	1.00	-22.9*	20.0
Toxaphene Peak 3	Ave	112948515	125061322		1.11	1.00	10.7	20.0
Toxaphene Peak 4	Ave	101804123	118355656		1.16	1.00	16.3	20.0
Toxaphene Peak 5	Ave	64746380	82476332		1.27	1.00	27.4*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/12 Calibration Date: 04/03/2013 21:39

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040312.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.78	9.75	9.81
Toxaphene Peak 2	10.37	10.34	10.40
Toxaphene Peak 3	10.94	10.91	10.97
Toxaphene Peak 4	11.09	11.06	11.12
Toxaphene Peak 5	11.35	11.32	11.38

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040312.D
Lims ID: CCV TOX3 Client ID:
Inject. Date: 03-Apr-2013 21:39:50 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018512-012
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 80447 Lims Sample ID: 12
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:23 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 12:31:04

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.781	9.781	0.000	113687136	1.00		100.0	M
1	2	10.371	10.371	0.000	66141767	0.7711	55.4- 95.4	58.2	M
1	3	10.941	10.941	0.000	125061322	1.11	79.4- 119.4	110.0	M
1	4	11.088	11.088	0.000	118355656	1.16	72.8- 112.8	104.1	M
1	5	11.346	11.346	0.000	82476332	1.27	36.1- 76.1	72.5	M
			Average of Peak Amounts =			1.06			
2	100	10.761	10.761	0.000	31192485	0.9542		100.0	M
2	2	11.344	11.344	0.000	39329795	0.9881	105.6- 145.6	126.1	M
2	3	11.760	11.760	0.000	45412327	1.03	120.0- 160.0	145.6	M
2	4	12.276	12.276	0.000	27788700	1.07	64.0- 104.0	89.1	M
2	5	13.062	13.062	0.000	23243980	1.17	43.3- 83.3	74.5	M
			Average of Peak Amounts =			1.04			
						RPD = 1.80			

QC Flag Legend

Review Flags
M - Manually Integrated

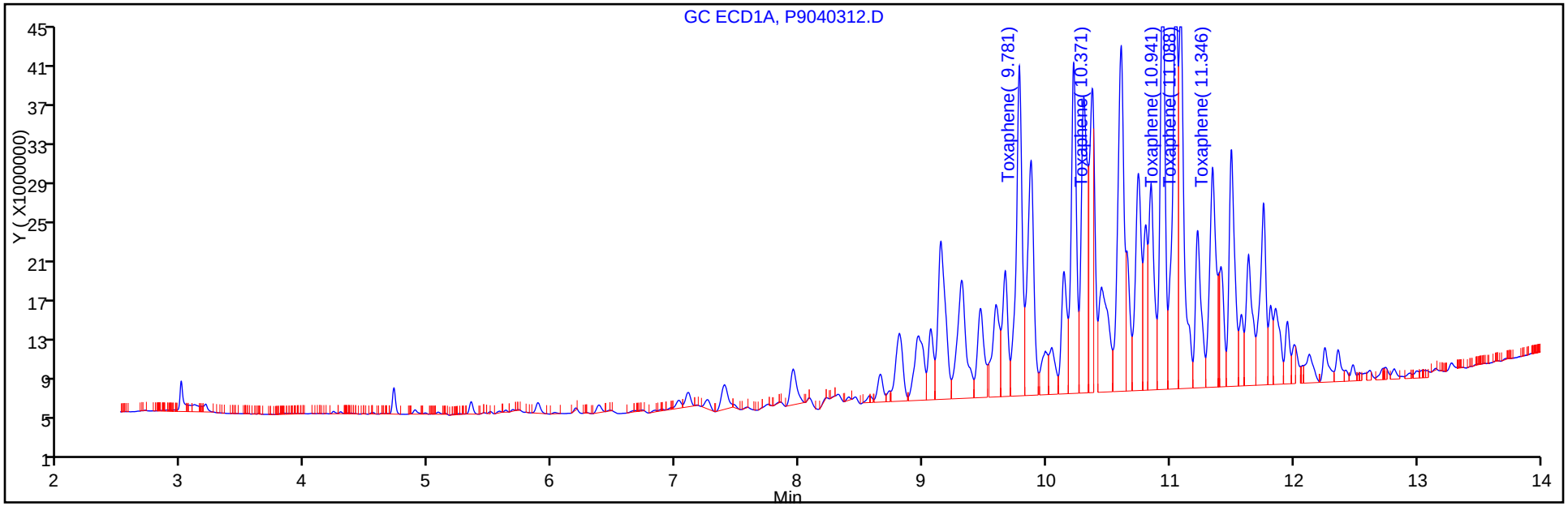
Report Date: 04-Apr-2013 15:32:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

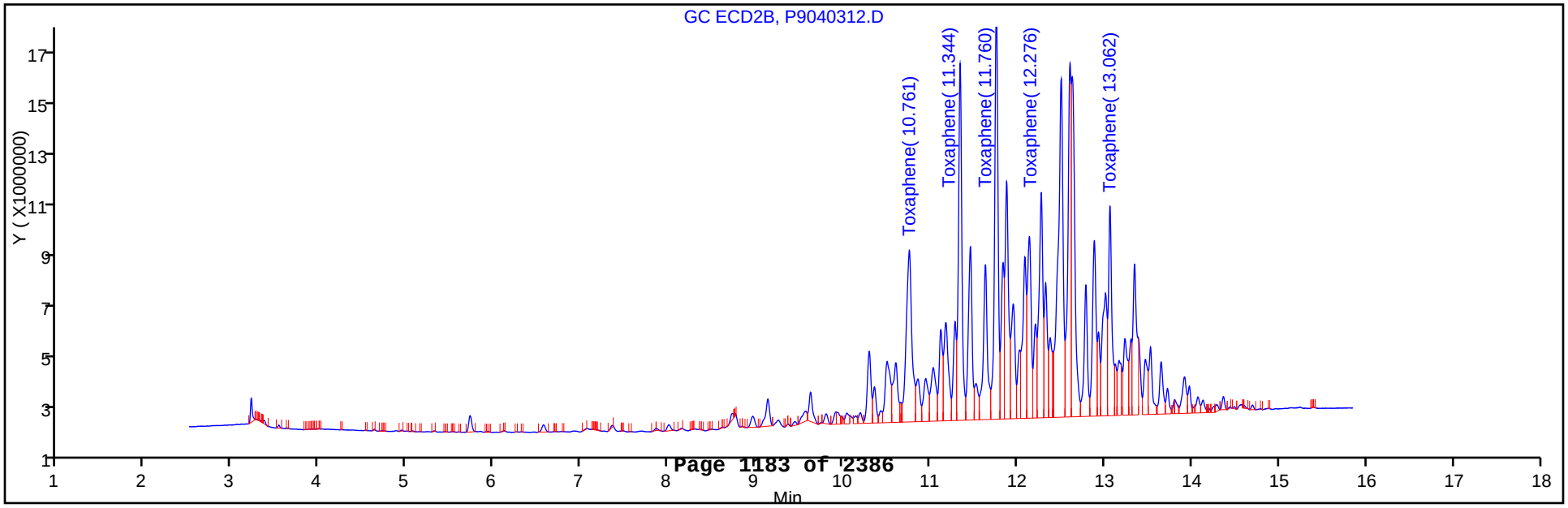
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040312.D

Injection Date:	03-Apr-2013 21:39:50	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	12
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



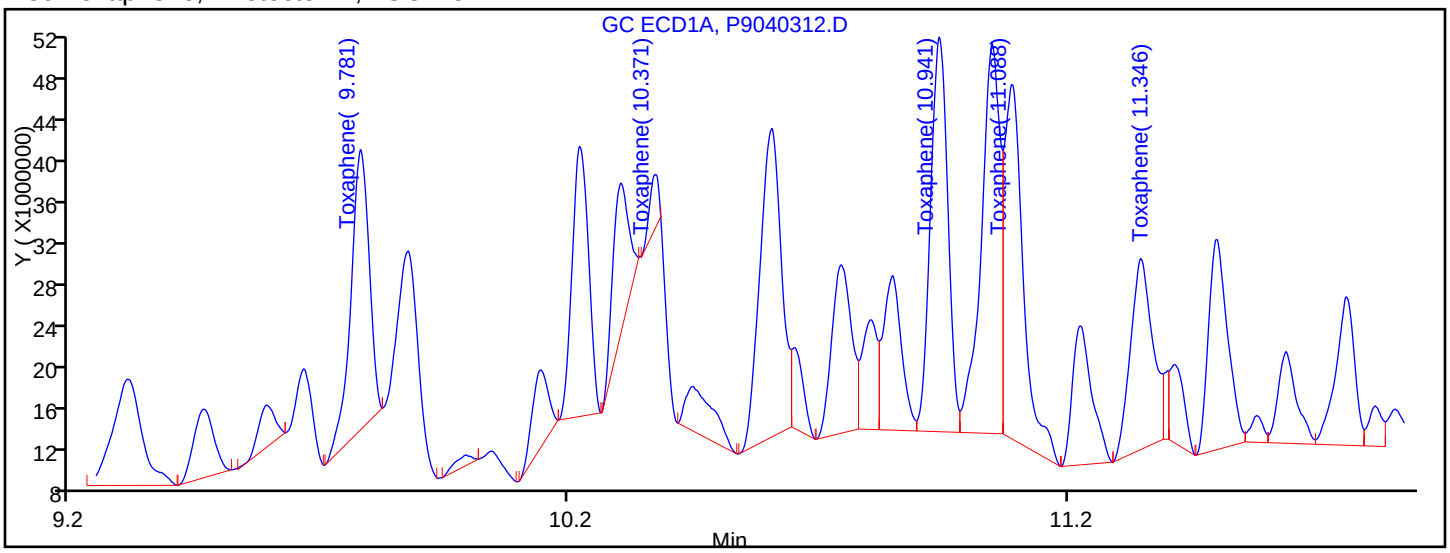
Report Date: 04-Apr-2013 15:32:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040312.D

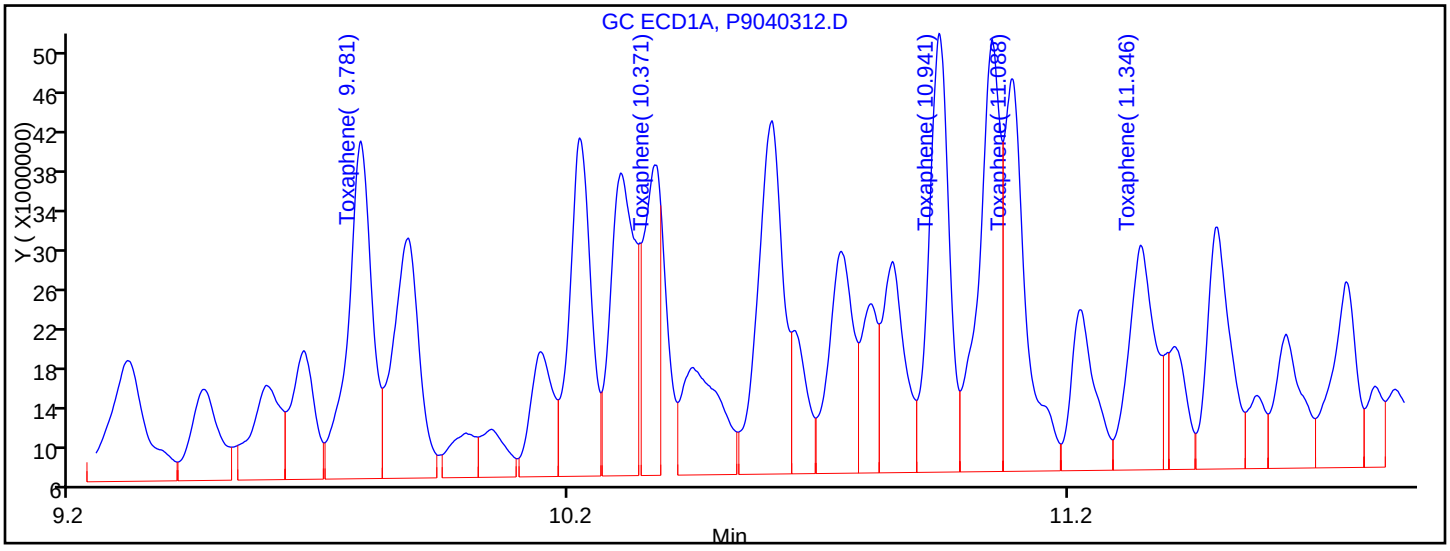
Injection Date:	03-Apr-2013 21:39:50	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	12
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.781	Response = 69575691	M
RT = 10.371	Response = 6616348	M
RT = 10.941	Response = 92800269	M
RT = 11.088	Response = 88622004	M
RT = 11.346	Response = 57434955	M



Manual Integration Results

RT = 9.781	Response = 113687136	M
RT = 10.371	Response = 66141767	M
RT = 10.941	Response = 125061322	M
RT = 11.088	Response = 118355656	M
RT = 11.346	Response = 82476332	M

Reviewer: shockr, 04-Apr-2013 12:31:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/12 Calibration Date: 04/03/2013 21:39

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040312.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	32688503	31192485		0.954	1.00	-4.6	20.0
Toxaphene Peak 2	Ave	39804840	39329795		0.988	1.00	-1.2	20.0
Toxaphene Peak 3	Ave	44178745	45412327		1.03	1.00	2.8	20.0
Toxaphene Peak 4	Ave	25956145	27788700		1.07	1.00	7.1	20.0
Toxaphene Peak 5	Ave	19798691	23243980		1.17	1.00	17.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/12 Calibration Date: 04/03/2013 21:39

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040312.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.76	10.73	10.79
Toxaphene Peak 2	11.34	11.31	11.37
Toxaphene Peak 3	11.76	11.73	11.79
Toxaphene Peak 4	12.28	12.25	12.31
Toxaphene Peak 5	13.06	13.03	13.09

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040312.D		
Lims ID:	CCV TOX3	Client ID:	
Inject. Date:	03-Apr-2013 21:39:50	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018512-012		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	80447	Lims Sample ID:	12
Sublist:	chrom-PEST9*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:23	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: shockr Date: 04-Apr-2013 12:31:04

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.781	9.781	0.000	113687136	1.00		100.0	M
1	2	10.371	10.371	0.000	66141767	0.7711	55.4- 95.4	58.2	M
1	3	10.941	10.941	0.000	125061322	1.11	79.4- 119.4	110.0	M
1	4	11.088	11.088	0.000	118355656	1.16	72.8- 112.8	104.1	M
1	5	11.346	11.346	0.000	82476332	1.27	36.1- 76.1	72.5	M
			Average of Peak Amounts =			1.06			
2	100	10.761	10.761	0.000	31192485	0.9542		100.0	M
2	2	11.344	11.344	0.000	39329795	0.9881	105.6- 145.6	126.1	M
2	3	11.760	11.760	0.000	45412327	1.03	120.0- 160.0	145.6	M
2	4	12.276	12.276	0.000	27788700	1.07	64.0- 104.0	89.1	M
2	5	13.062	13.062	0.000	23243980	1.17	43.3- 83.3	74.5	M
			Average of Peak Amounts =			1.04			
						RPD = 1.80			

QC Flag Legend

Review Flags
M - Manually Integrated

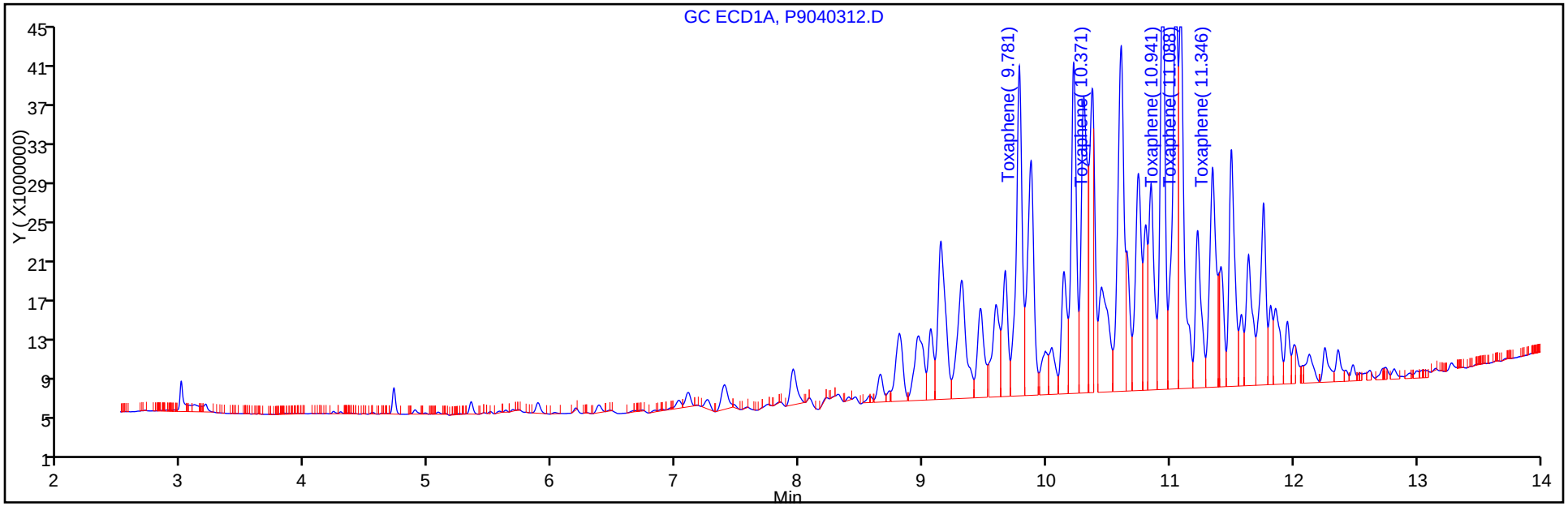
Report Date: 04-Apr-2013 15:32:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

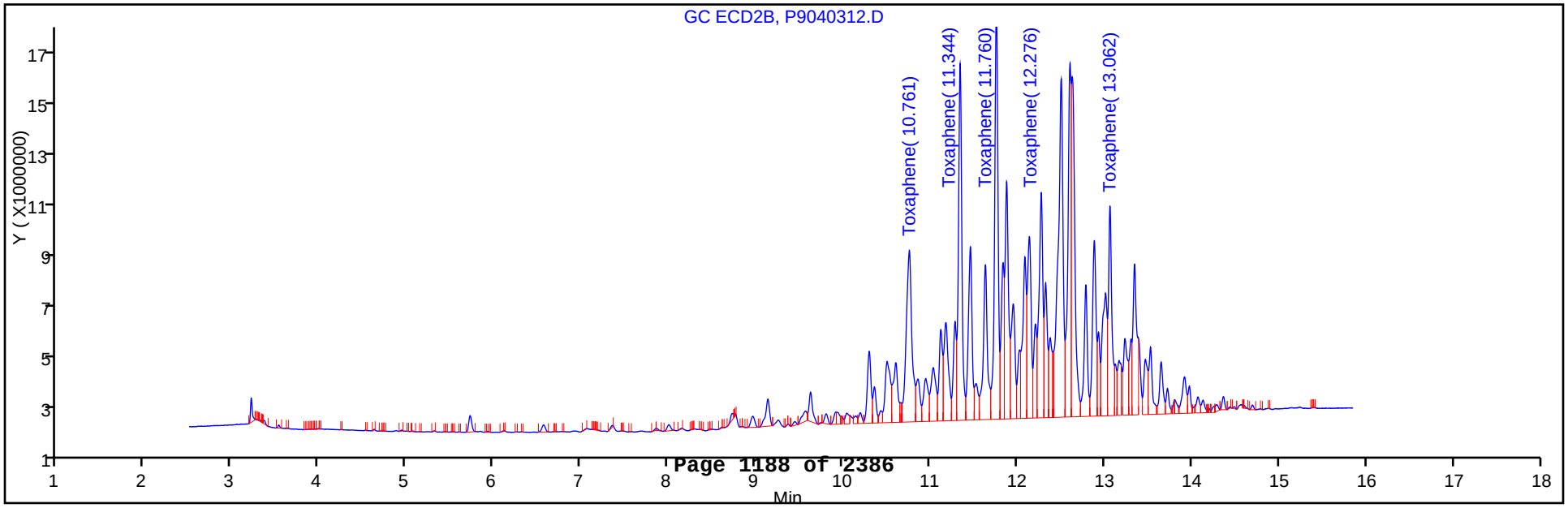
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040312.D

Injection Date:	03-Apr-2013 21:39:50	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	12
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



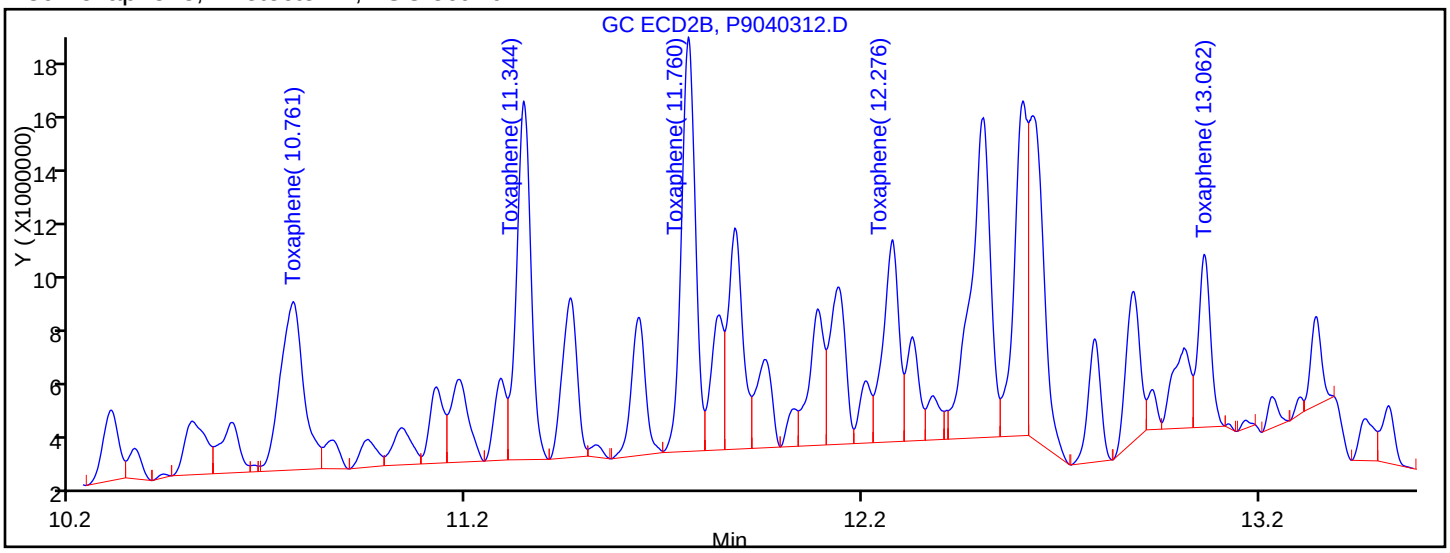
Report Date: 04-Apr-2013 15:32:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040312.D

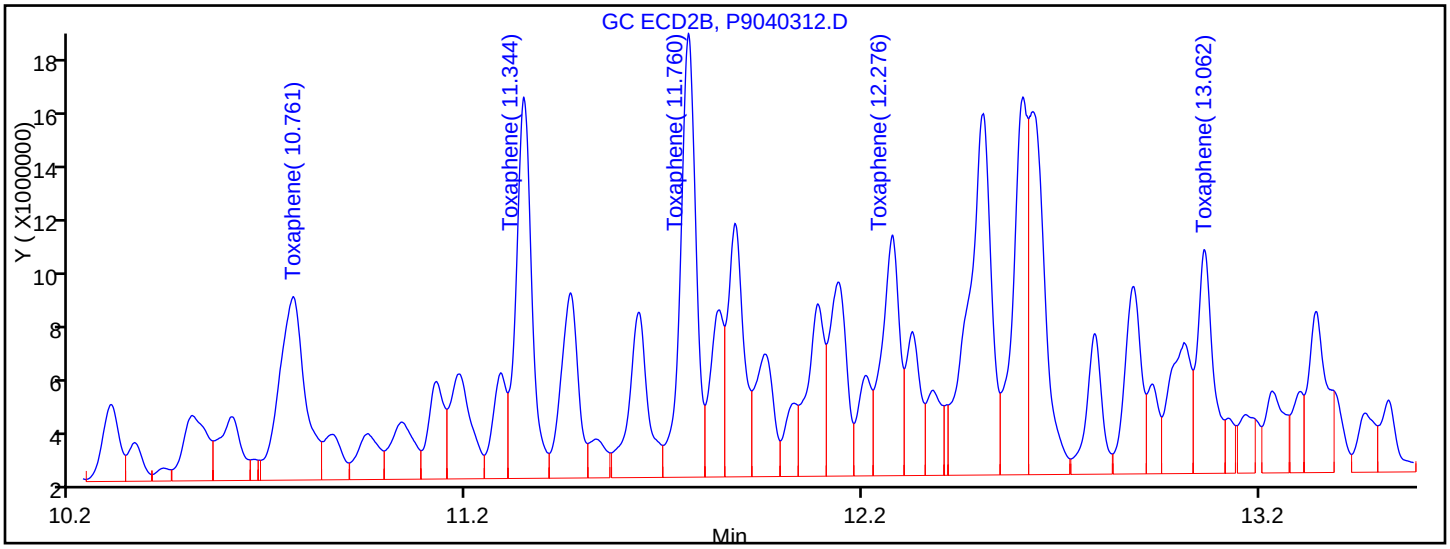
Injection Date:	03-Apr-2013 21:39:50	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	12
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.761	Response = 25679915	M
RT = 11.344	Response = 33579129	M
RT = 11.760	Response = 37895152	M
RT = 12.276	Response = 20849735	M
RT = 13.062	Response = 13793552	M



Manual Integration Results

RT = 10.761	Response = 31192485	M
RT = 11.344	Response = 39329795	M
RT = 11.760	Response = 45412327	M
RT = 12.276	Response = 27788700	M
RT = 13.062	Response = 23243980	M

Reviewer: shockr, 04-Apr-2013 12:31:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/22 Calibration Date: 04/04/2013 02:19

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040322.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	114258412	110497357		0.967	1.00	-3.3	20.0
Toxaphene Peak 2	Ave	85774500	95520288		1.11	1.00	11.4	20.0
Toxaphene Peak 3	Ave	112948515	121104024		1.07	1.00	7.2	20.0
Toxaphene Peak 4	Ave	101804123	113130417		1.11	1.00	11.1	20.0
Toxaphene Peak 5	Ave	64746380	81086273		1.25	1.00	25.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/22 Calibration Date: 04/04/2013 02:19

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040322.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.78	9.75	9.81
Toxaphene Peak 2	10.37	10.34	10.40
Toxaphene Peak 3	10.94	10.91	10.97
Toxaphene Peak 4	11.09	11.06	11.12
Toxaphene Peak 5	11.35	11.32	11.38

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040322.D		
Lims ID:	CCV TOX3	Client ID:	
Inject. Date:	04-Apr-2013 02:19:06	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018512-022		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	22
Lims Batch ID:	80447	Lims Sample ID:	22
Sublist:	chrom-PEST9*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:13	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: shockr Date: 04-Apr-2013 15:27:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.782	9.782	0.000	110497357	0.9671		100.0	M
1	2	10.372	10.372	0.000	95520288	1.11	55.4- 95.4	86.4	M
1	3	10.942	10.942	0.000	121104024	1.07	79.4- 119.4	109.6	M
1	4	11.089	11.089	0.000	113130417	1.11	72.8- 112.8	102.4	M
1	5	11.345	11.345	0.000	81086273	1.25	36.1- 76.1	73.4	M
			Average of Peak Amounts =			1.10			
2	100	10.763	10.763	0.000	29830762	0.9126		100.0	
2	2	11.345	11.345	0.000	39045129	0.9809	105.6- 145.6	130.9	
2	3	11.763	11.763	0.000	46157833	1.04	120.0- 160.0	154.7	
2	4	12.276	12.276	0.000	27608114	1.06	64.0- 104.0	92.5	
2	5	13.065	13.065	0.000	21792010	1.10	43.3- 83.3	73.1	
			Average of Peak Amounts =			1.02			
						RPD = 7.80			

QC Flag Legend

Review Flags
M - Manually Integrated

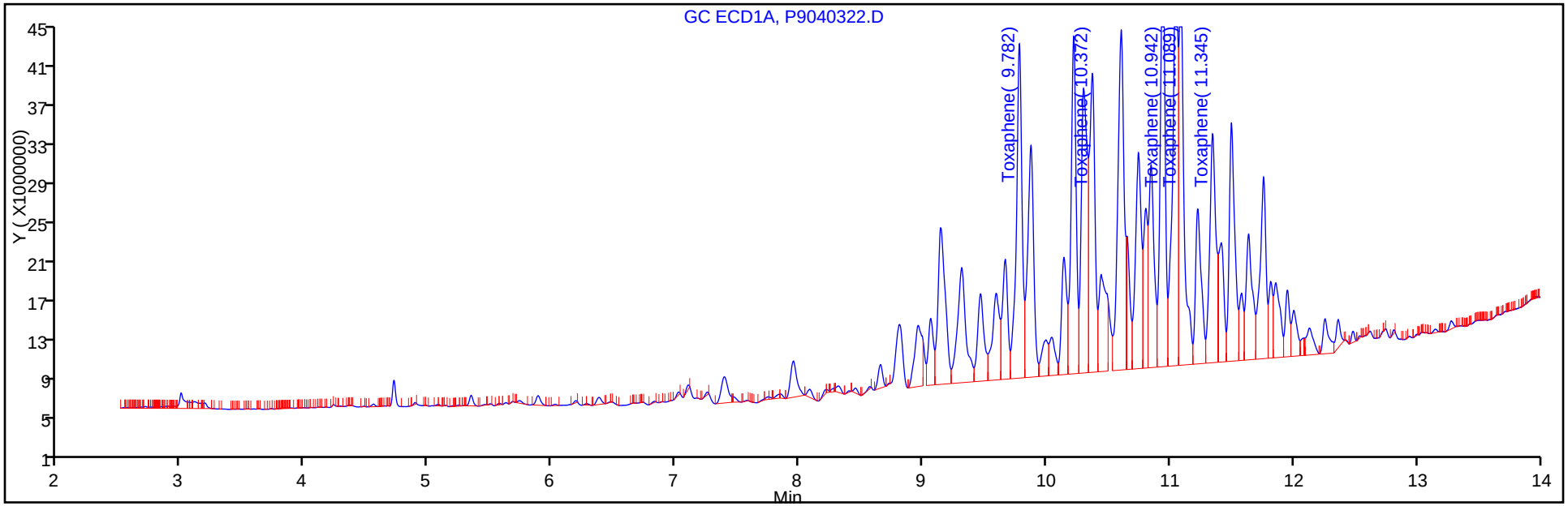
Report Date: 04-Apr-2013 15:32:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

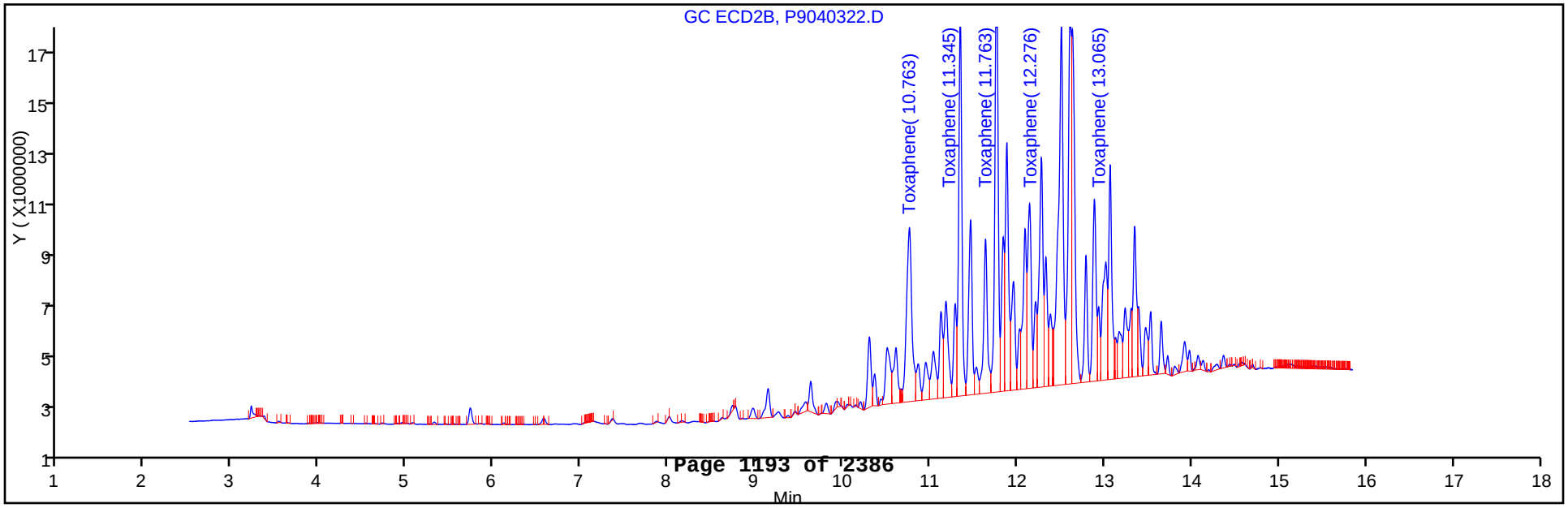
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040322.D

Injection Date:	04-Apr-2013 02:19:06	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



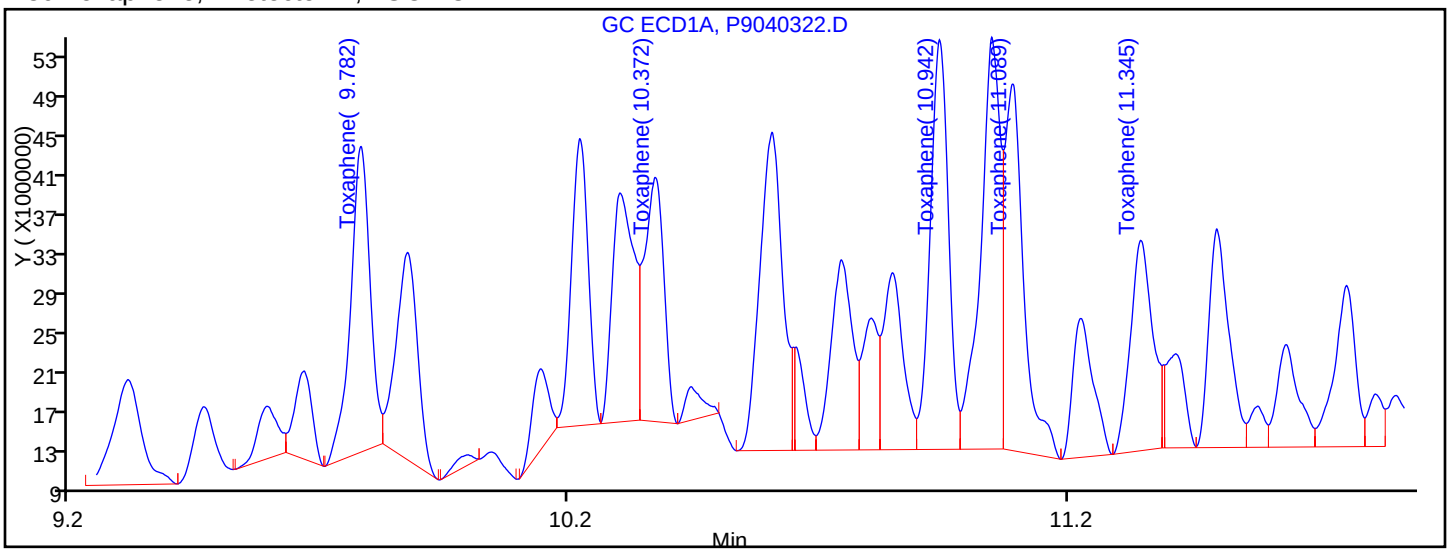
Report Date: 04-Apr-2013 15:32:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040322.D

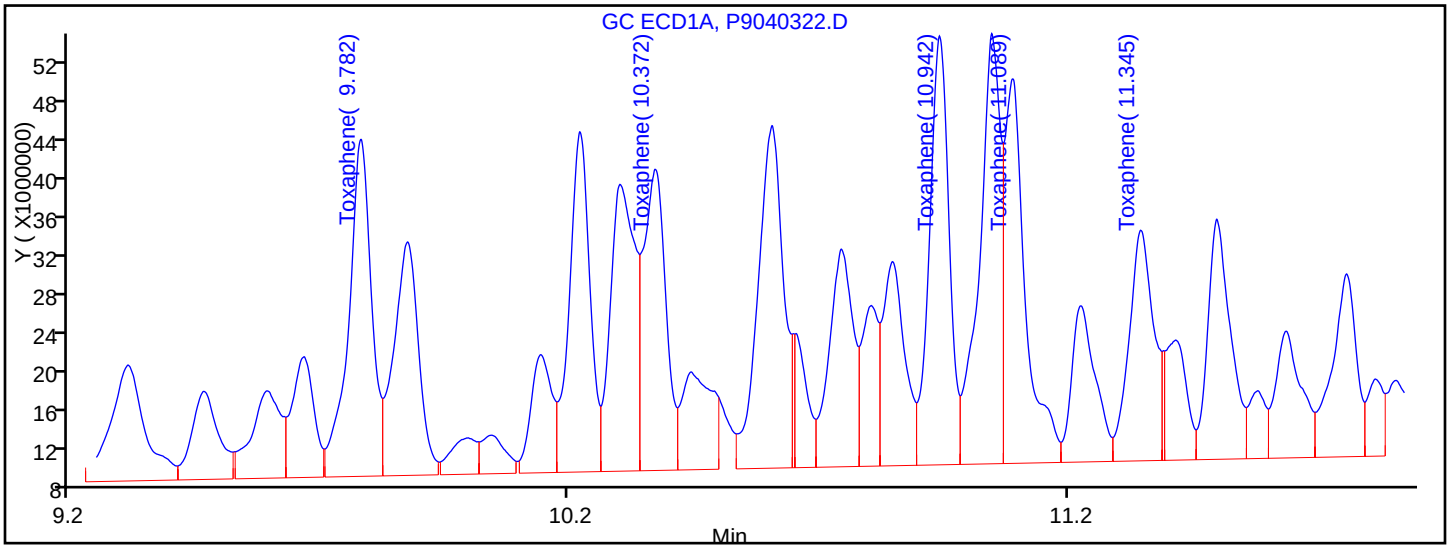
Injection Date:	04-Apr-2013 02:19:06	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 9.782	Response = 83060720	M
RT = 10.372	Response = 65456677	M
RT = 10.942	Response = 103737762	M
RT = 11.089	Response = 94864061	M
RT = 11.345	Response = 64987804	M



Manual Integration Results

RT = 9.782	Response = 110497357	M
RT = 10.372	Response = 95520288	M
RT = 10.942	Response = 121104024	M
RT = 11.089	Response = 113130417	M
RT = 11.345	Response = 81086273	M

Reviewer: shockr, 04-Apr-2013 15:27:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/22 Calibration Date: 04/04/2013 02:19

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040322.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	32688503	29830762		0.913	1.00	-8.7	20.0
Toxaphene Peak 2	Ave	39804840	39045129		0.981	1.00	-1.9	20.0
Toxaphene Peak 3	Ave	44178745	46157833		1.04	1.00	4.5	20.0
Toxaphene Peak 4	Ave	25956145	27608114		1.06	1.00	6.4	20.0
Toxaphene Peak 5	Ave	19798691	21792010		1.10	1.00	10.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/22 Calibration Date: 04/04/2013 02:19

Instrument ID: A2HP9 Calib Start Date: 03/06/2013 06:18

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/06/2013 08:10

Lab File ID: P9040322.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.76	10.73	10.79
Toxaphene Peak 2	11.35	11.32	11.38
Toxaphene Peak 3	11.76	11.73	11.79
Toxaphene Peak 4	12.28	12.25	12.31
Toxaphene Peak 5	13.07	13.04	13.10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040322.D
Lims ID: CCV TOX3 Client ID:
Inject. Date: 04-Apr-2013 02:19:06 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018512-022
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 80447 Lims Sample ID: 22
Sublist: chrom-PEST9*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:13 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 15:27:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	100	9.782	9.782	0.000	110497357	0.9671		100.0	M
1	2	10.372	10.372	0.000	95520288	1.11	55.4- 95.4	86.4	M
1	3	10.942	10.942	0.000	121104024	1.07	79.4- 119.4	109.6	M
1	4	11.089	11.089	0.000	113130417	1.11	72.8- 112.8	102.4	M
1	5	11.345	11.345	0.000	81086273	1.25	36.1- 76.1	73.4	M
			Average of Peak Amounts =			1.10			
2	100	10.763	10.763	0.000	29830762	0.9126		100.0	
2	2	11.345	11.345	0.000	39045129	0.9809	105.6- 145.6	130.9	
2	3	11.763	11.763	0.000	46157833	1.04	120.0- 160.0	154.7	
2	4	12.276	12.276	0.000	27608114	1.06	64.0- 104.0	92.5	
2	5	13.065	13.065	0.000	21792010	1.10	43.3- 83.3	73.1	
			Average of Peak Amounts =			1.02			
						RPD = 7.80			

QC Flag Legend

Review Flags
M - Manually Integrated

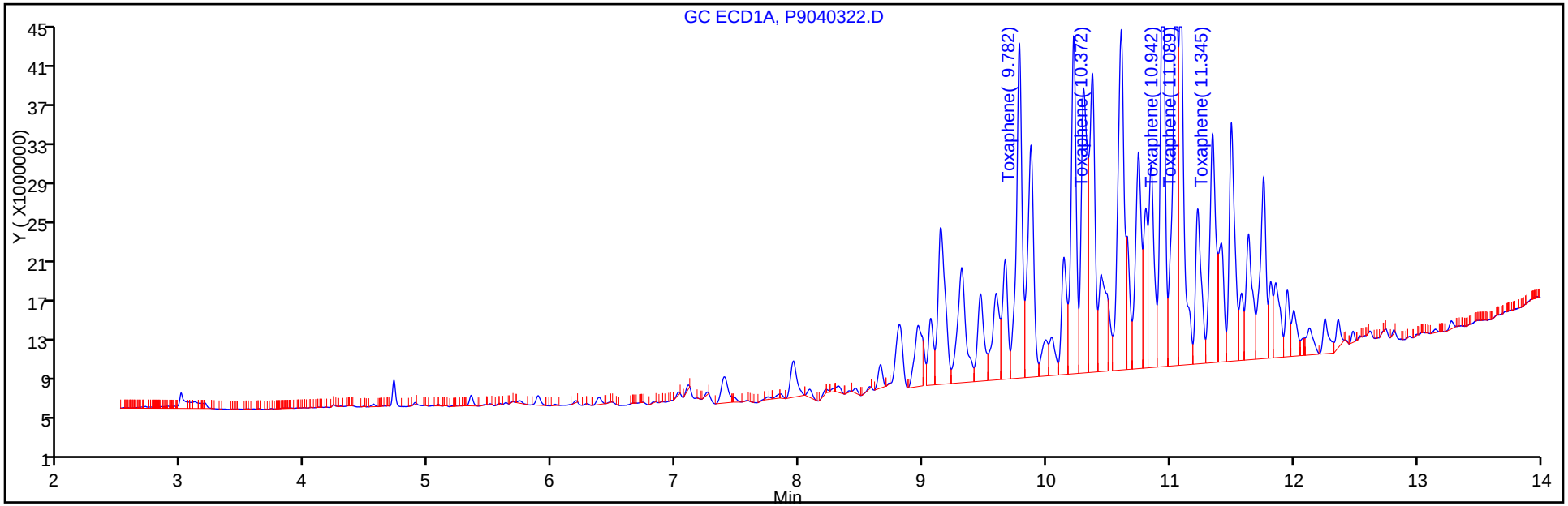
Report Date: 04-Apr-2013 15:32:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

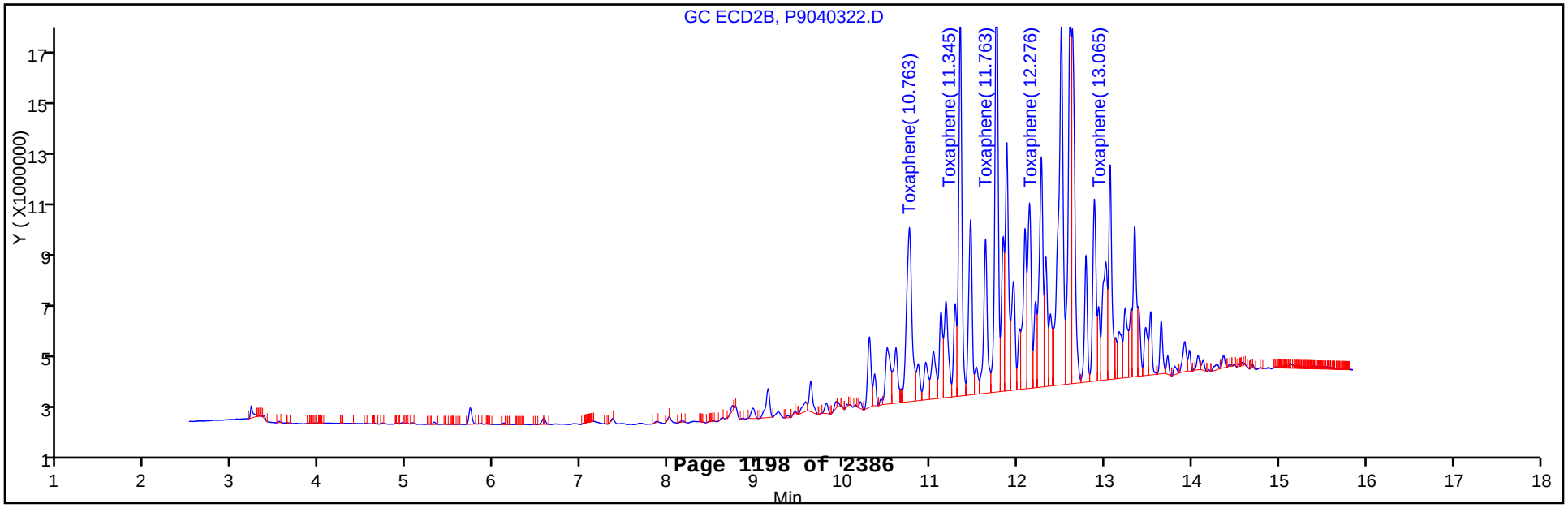
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040322.D

Injection Date:	04-Apr-2013 02:19:06	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/25 Calibration Date: 04/04/2013 03:42

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040325.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	4419355710	4645739800		0.0263	0.0250	5.1	20.0
gamma-BHC (Lindane)	Ave	3865761057	4122208480		0.0267	0.0250	6.6	20.0
beta-BHC	Ave	1561483512	1681727680		0.0269	0.0250	7.7	20.0
delta-BHC	Ave	3830712363	4116484440		0.0269	0.0250	7.5	20.0
Heptachlor	Ave	3718954058	4034236360		0.0271	0.0250	8.5	20.0
Aldrin	Ave	3914122989	4076909040		0.0260	0.0250	4.2	20.0
Heptachlor epoxide	Ave	3579252798	3769187960		0.0263	0.0250	5.3	20.0
gamma-Chlordane	Ave	3661900831	3846620280		0.0263	0.0250	5.0	20.0
alpha-Chlordane	Ave	3683670017	3862814360		0.0262	0.0250	4.9	20.0
Endosulfan I	Ave	3270427504	3461061440		0.0265	0.0250	5.8	20.0
4,4'-DDE	Ave	3443058774	3670632120		0.0267	0.0250	6.6	20.0
Dieldrin	Ave	3544234355	3686933840		0.0260	0.0250	4.0	20.0
Endrin	Ave	3230152497	3388131760		0.0262	0.0250	4.9	20.0
4,4'-DDD	Ave	1940050145	2453298240		0.0316	0.0250	26.5*	20.0
Endosulfan II	Ave	3389207825	3584703280		0.0264	0.0250	5.8	20.0
4,4'-DDT	Ave	2463030168	2799641600		0.0284	0.0250	13.7	20.0
Endrin aldehyde	Ave	2307734658	2529922160		0.0274	0.0250	9.6	20.0
Methoxychlor	Ave	1166265672	1368190600		0.0293	0.0250	17.3	20.0
Endosulfan sulfate	Ave	2775555368	2954616800		0.0266	0.0250	6.5	20.0
Endrin ketone	Ave	3065992115	3314325560		0.0270	0.0250	8.1	20.0
Tetrachloro-m-xylene	Ave	2894866331	2984304560		0.0258	0.0250	3.1	20.0
DCB Decachlorobiphenyl	Ave	2844247296	2904636320		0.0255	0.0250	2.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/25 Calibration Date: 04/04/2013 03:42

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040325.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.39	4.36	4.42
gamma-BHC (Lindane)	4.79	4.76	4.82
beta-BHC	4.94	4.91	4.97
delta-BHC	5.17	5.14	5.20
Heptachlor	5.48	5.45	5.52
Aldrin	5.99	5.96	6.02
Heptachlor epoxide	7.36	7.33	7.39
gamma-Chlordane	7.68	7.65	7.71
alpha-Chlordane	8.00	7.97	8.03
Endosulfan I	8.26	8.23	8.29
4,4'-DDE	8.35	8.32	8.38
Dieldrin	8.79	8.76	8.82
Endrin	9.23	9.20	9.26
4,4'-DDD	9.57	9.54	9.60
Endosulfan II	9.66	9.63	9.69
4,4'-DDT	10.06	10.03	10.09
Endrin aldehyde	10.42	10.39	10.45
Methoxychlor	10.98	10.95	11.01
Endosulfan sulfate	11.13	11.10	11.16
Endrin ketone	11.53	11.50	11.56
Tetrachloro-m-xylene	3.69	3.66	3.72
DCB Decachlorobiphenyl	13.11	13.08	13.14

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040325.D
Lims ID: CCV AB3 Client ID:
Inject. Date: 04-Apr-2013 03:42:53 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018512-025
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 80447 Lims Sample ID: 25
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:10 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.691	3.691	0.000	74607614	0.0258			
2	100	4.321	4.321	0.000	25191782	0.0258			
						RPD = 0.20			
5 alpha-BHC									
1	100	4.385	4.385	0.000	116143495	0.0263			
2	100	5.256	5.256	0.000	36395988	0.0263			
						RPD = 0.22			
20 gamma-BHC (Lindane)									
1	100	4.792	4.792	0.000	103055212	0.0267			
2	100	5.911	5.911	0.000	33168255	0.0271			
						RPD = 1.51			
7 beta-BHC									
1	100	4.936	4.936	0.000	42043192	0.0269			
2	100	6.119	6.119	0.000	14260743	0.0276			
						RPD = 2.59			
11 delta-BHC									
1	100	5.174	5.174	0.000	102912111	0.0269			
2	100	6.782	6.782	0.000	31461164	0.0283			
						RPD = 5.10			
22 Heptachlor									
1	100	5.484	5.484	0.000	100855909	0.0271			
2	100	6.857	6.857	0.000	33450148	0.0264			
						RPD = 2.56			
4 Aldrin									
1	100	5.987	5.987	0.000	101922726	0.0260			
2	100	7.685	7.685	0.000	32486199	0.0265			
						RPD = 1.65			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.361	7.361	0.000	94229699	0.0263			
2	100	9.070	9.070	0.000	28851484	0.0265			
						RPD = 0.67			
21 gamma-Chlordane									
1	100	7.681	7.681	0.000	96165507	0.0263			
2	100	9.456	9.456	0.000	28870064	0.0266			
						RPD = 1.34			
6 alpha-Chlordane									
1	100	8.003	8.003	0.000	96570359	0.0262			
2	100	9.751	9.751	0.000	29043343	0.0265			
						RPD = 0.99			
14 Endosulfan I									
1	100	8.263	8.263	0.000	86526536	0.0265			
2	100	9.819	9.819	0.000	26793293	0.0262			
						RPD = 1.13			
2 4,4'-DDE									
1	100	8.353	8.353	0.000	91765803	0.0267			
2	100	10.172	10.172	0.000	27861223	0.0272			
						RPD = 2.00			
13 Dieldrin									
1	100	8.791	8.791	0.000	92173346	0.0260			
2	100	10.328	10.328	0.000	29374168	0.0257			
						RPD = 1.02			
17 Endrin									
1	100	9.226	9.226	0.000	84703294	0.0262			
2	100	10.841	10.841	0.000	27018278	0.0262			
						RPD = 0.08			
1 4,4'-DDD									
1	100	9.565	9.565	0.000	61332456	0.0316			
2	100	11.156	11.156	0.000	17309350	0.0318			
						RPD = 0.71			
15 Endosulfan II									
1	100	9.657	9.657	0.000	89617582	0.0264			
2	100	11.204	11.204	0.000	27939359	0.0255			
						RPD = 3.76			
3 4,4'-DDT									
1	100	10.061	10.061	0.000	69991040	0.0284			
2	100	11.633	11.633	0.000	19966656	0.0274			
						RPD = 3.56			
18 Endrin aldehyde									
1	100	10.424	10.424	0.000	63248054	0.0274			
2	100	11.758	11.758	0.000	20349404	0.0266			
						RPD = 3.11			
27 Methoxychlor									
1	100	10.981	10.981	0.000	34204765	0.0293			
2	100	12.701	12.701	0.000	10645855	0.0273			
						RPD = 7.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.131	0.000	73865420	0.0266			
2	100	12.174	12.174	0.000	22787006	0.0269			
						RPD = 1.01			
19 Endrin ketone									
1	100	11.529	11.529	0.000	82858139	0.0270			
2	100	12.927	12.927	0.000	26410489	0.0271			
						RPD = 0.13			
$ 10 DCB Decachlorobiphenyl									
1	100	13.108	13.108	0.000	72615908	0.0255			
2	100	14.651	14.651	0.000	26823079	0.0257			
						RPD = 0.78			

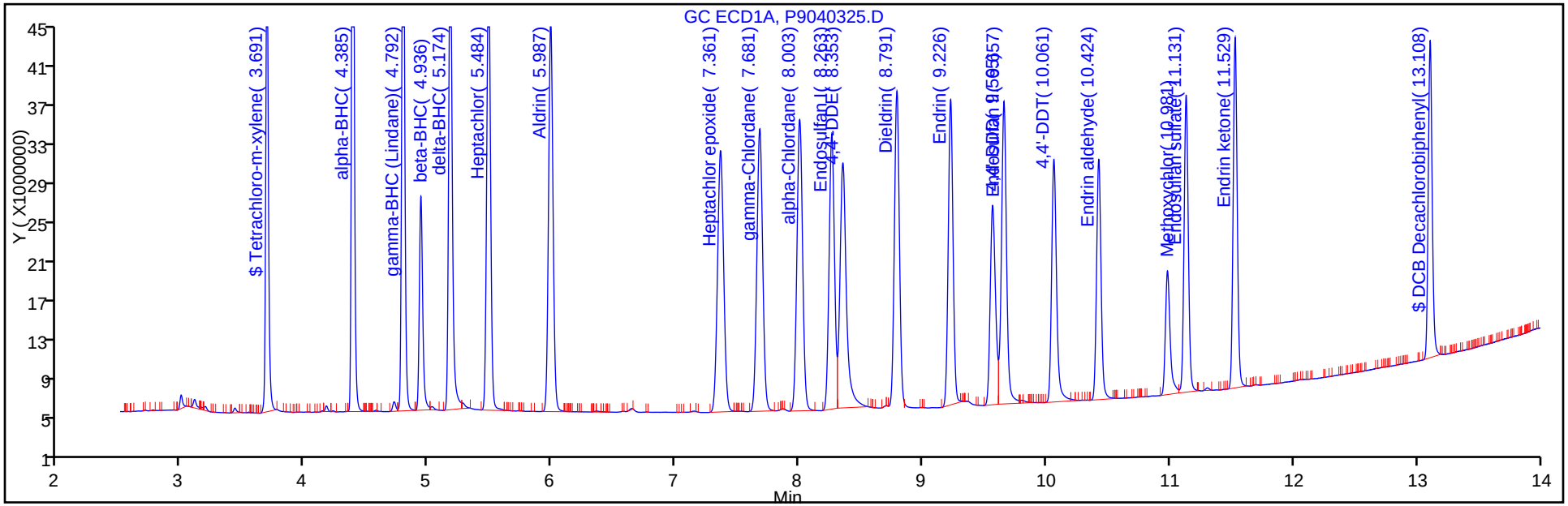
Report Date: 04-Apr-2013 15:32:10 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

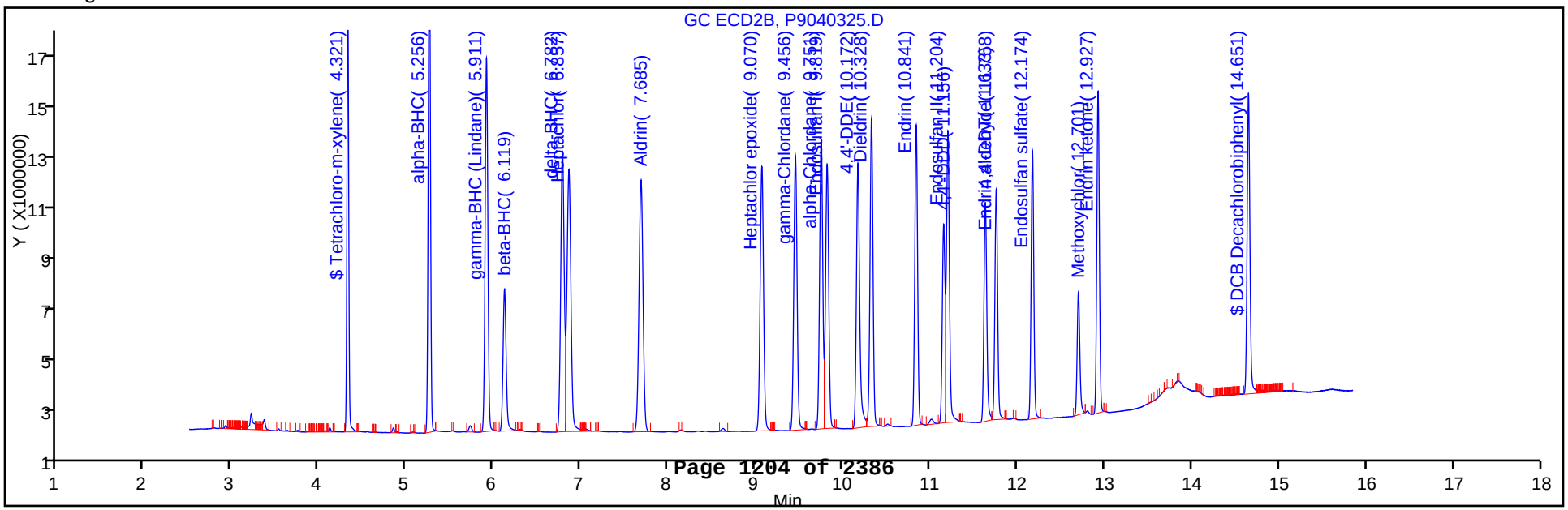
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040325.D

Injection Date:	04-Apr-2013 03:42:53	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	25
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/25 Calibration Date: 04/04/2013 03:42

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040325.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1381869578	1455839520		0.0263	0.0250	5.4	20.0
gamma-BHC (Lindane)	Ave	1225569017	1326730200		0.0271	0.0250	8.3	20.0
beta-BHC	Ave	516111884	570429720		0.0276	0.0250	10.5	20.0
delta-BHC	Ave	1112828049	1258446560		0.0283	0.0250	13.1	20.0
Heptachlor	Ave	1265474988	1338005920		0.0264	0.0250	5.7	20.0
Aldrin	Ave	1227147278	1299447960		0.0265	0.0250	5.9	20.0
Heptachlor epoxide	Ave	1088533610	1154059360		0.0265	0.0250	6.0	20.0
gamma-Chlordane	Ave	1084671103	1154802560		0.0266	0.0250	6.5	20.0
alpha-Chlordane	Ave	1096991737	1161733720		0.0265	0.0250	5.9	20.0
Endosulfan I	Ave	1024198478	1071731720		0.0262	0.0250	4.6	20.0
4,4'-DDE	Ave	1024648603	1114448920		0.0272	0.0250	8.8	20.0
Dieldrin	Ave	1141058345	1174966720		0.0257	0.0250	3.0	20.0
Endrin	Ave	1029509495	1080731120		0.0262	0.0250	5.0	20.0
4,4'-DDD	Ave	543667333	692374000		0.0318	0.0250	27.4*	20.0
Endosulfan II	Ave	1097142917	1117574360		0.0255	0.0250	1.9	20.0
4,4'-DDT	Ave	728110051	798666240		0.0274	0.0250	9.7	20.0
Endrin aldehyde	Ave	765943473	813976160		0.0266	0.0250	6.3	20.0
Endosulfan sulfate	Ave	847667072	911480240		0.0269	0.0250	7.5	20.0
Methoxychlor	Ave	389379548	425834200		0.0273	0.0250	9.4	20.0
Endrin ketone	Ave	976040682	1056419560		0.0271	0.0250	8.2	20.0
Tetrachloro-m-xylene	Ave	975472154	1007671280		0.0258	0.0250	3.3	20.0
DCB Decachlorobiphenyl	Ave	1042440781	1072923160		0.0257	0.0250	2.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80447/25 Calibration Date: 04/04/2013 03:42

Instrument ID: A2HP9 Calib Start Date: 04/03/2013 18:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/03/2013 20:44

Lab File ID: P9040325.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.26	5.23	5.29
gamma-BHC (Lindane)	5.91	5.88	5.94
beta-BHC	6.12	6.09	6.15
delta-BHC	6.78	6.75	6.81
Heptachlor	6.86	6.82	6.89
Aldrin	7.69	7.66	7.72
Heptachlor epoxide	9.07	9.04	9.10
gamma-Chlordane	9.46	9.43	9.49
alpha-Chlordane	9.75	9.72	9.78
Endosulfan I	9.82	9.79	9.85
4,4'-DDE	10.17	10.14	10.20
Dieldrin	10.33	10.30	10.36
Endrin	10.84	10.81	10.87
4,4'-DDD	11.16	11.13	11.19
Endosulfan II	11.20	11.17	11.23
4,4'-DDT	11.63	11.60	11.66
Endrin aldehyde	11.76	11.73	11.79
Endosulfan sulfate	12.17	12.14	12.20
Methoxychlor	12.70	12.67	12.73
Endrin ketone	12.93	12.90	12.96
Tetrachloro-m-xylene	4.32	4.29	4.35
DCB Decachlorobiphenyl	14.65	14.62	14.68

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040325.D
Lims ID: CCV AB3 Client ID:
Inject. Date: 04-Apr-2013 03:42:53 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018512-025
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 80447 Lims Sample ID: 25
Sublist: chrom-PEST9*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:10 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.691	3.691	0.000	74607614	0.0258			
2	100	4.321	4.321	0.000	25191782	0.0258			
						RPD = 0.20			
5 alpha-BHC									
1	100	4.385	4.385	0.000	116143495	0.0263			
2	100	5.256	5.256	0.000	36395988	0.0263			
						RPD = 0.22			
20 gamma-BHC (Lindane)									
1	100	4.792	4.792	0.000	103055212	0.0267			
2	100	5.911	5.911	0.000	33168255	0.0271			
						RPD = 1.51			
7 beta-BHC									
1	100	4.936	4.936	0.000	42043192	0.0269			
2	100	6.119	6.119	0.000	14260743	0.0276			
						RPD = 2.59			
11 delta-BHC									
1	100	5.174	5.174	0.000	102912111	0.0269			
2	100	6.782	6.782	0.000	31461164	0.0283			
						RPD = 5.10			
22 Heptachlor									
1	100	5.484	5.484	0.000	100855909	0.0271			
2	100	6.857	6.857	0.000	33450148	0.0264			
						RPD = 2.56			
4 Aldrin									
1	100	5.987	5.987	0.000	101922726	0.0260			
2	100	7.685	7.685	0.000	32486199	0.0265			
						RPD = 1.65			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.361	7.361	0.000	94229699	0.0263			
2	100	9.070	9.070	0.000	28851484	0.0265			
						RPD = 0.67			
21 gamma-Chlordane									
1	100	7.681	7.681	0.000	96165507	0.0263			
2	100	9.456	9.456	0.000	28870064	0.0266			
						RPD = 1.34			
6 alpha-Chlordane									
1	100	8.003	8.003	0.000	96570359	0.0262			
2	100	9.751	9.751	0.000	29043343	0.0265			
						RPD = 0.99			
14 Endosulfan I									
1	100	8.263	8.263	0.000	86526536	0.0265			
2	100	9.819	9.819	0.000	26793293	0.0262			
						RPD = 1.13			
2 4,4'-DDE									
1	100	8.353	8.353	0.000	91765803	0.0267			
2	100	10.172	10.172	0.000	27861223	0.0272			
						RPD = 2.00			
13 Dieldrin									
1	100	8.791	8.791	0.000	92173346	0.0260			
2	100	10.328	10.328	0.000	29374168	0.0257			
						RPD = 1.02			
17 Endrin									
1	100	9.226	9.226	0.000	84703294	0.0262			
2	100	10.841	10.841	0.000	27018278	0.0262			
						RPD = 0.08			
1 4,4'-DDD									
1	100	9.565	9.565	0.000	61332456	0.0316			
2	100	11.156	11.156	0.000	17309350	0.0318			
						RPD = 0.71			
15 Endosulfan II									
1	100	9.657	9.657	0.000	89617582	0.0264			
2	100	11.204	11.204	0.000	27939359	0.0255			
						RPD = 3.76			
3 4,4'-DDT									
1	100	10.061	10.061	0.000	69991040	0.0284			
2	100	11.633	11.633	0.000	19966656	0.0274			
						RPD = 3.56			
18 Endrin aldehyde									
1	100	10.424	10.424	0.000	63248054	0.0274			
2	100	11.758	11.758	0.000	20349404	0.0266			
						RPD = 3.11			
27 Methoxychlor									
1	100	10.981	10.981	0.000	34204765	0.0293			
2	100	12.701	12.701	0.000	10645855	0.0273			
						RPD = 7.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.131	0.000	73865420	0.0266			
2	100	12.174	12.174	0.000	22787006	0.0269			
						RPD = 1.01			
19 Endrin ketone									
1	100	11.529	11.529	0.000	82858139	0.0270			
2	100	12.927	12.927	0.000	26410489	0.0271			
						RPD = 0.13			
$ 10 DCB Decachlorobiphenyl									
1	100	13.108	13.108	0.000	72615908	0.0255			
2	100	14.651	14.651	0.000	26823079	0.0257			
						RPD = 0.78			

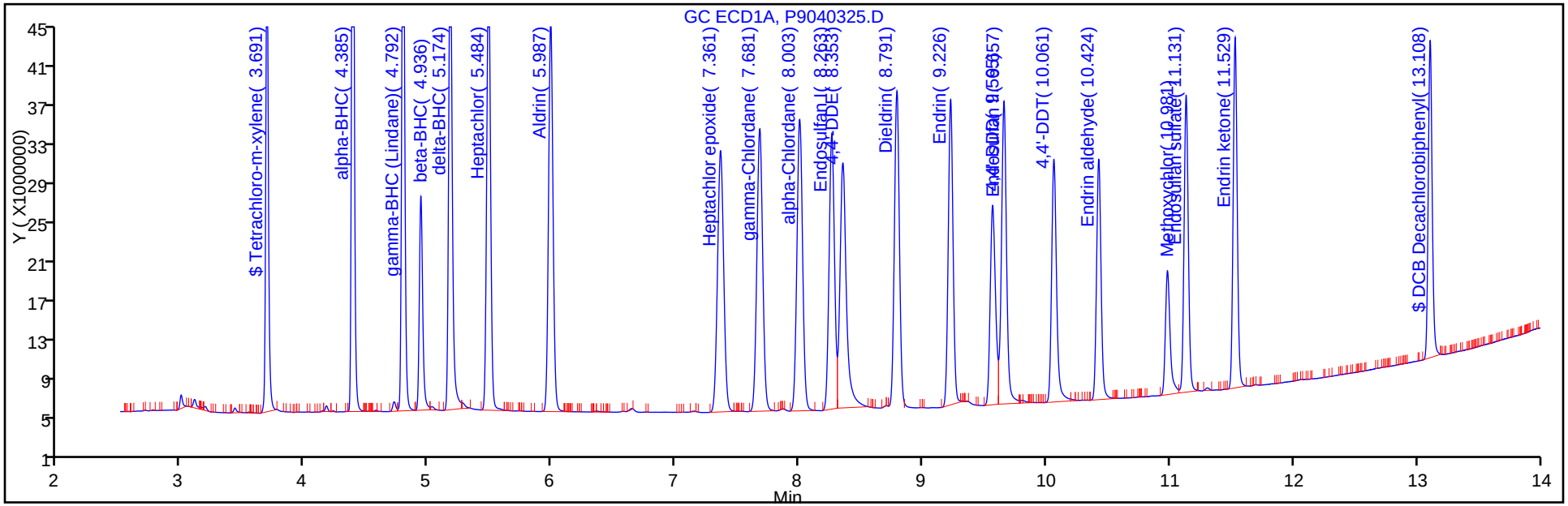
Report Date: 04-Apr-2013 15:32:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

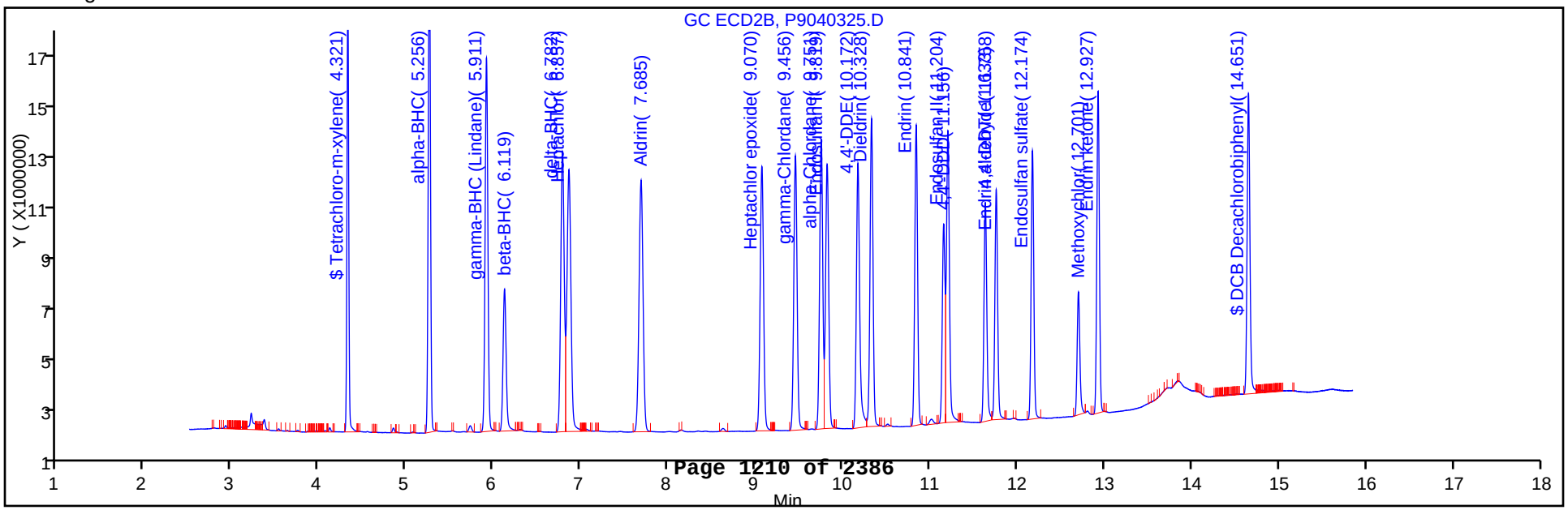
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040325.D

Injection Date:	04-Apr-2013 03:42:53	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	25
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-80060/15-A

Matrix: Solid | Lab File ID: P9040320.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/01/2013 10:09

Sample wt/vol: 30.00(g) | Date Analyzed: 04/04/2013 01:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.67	U	2.0	0.67	0.62
72-55-9	4,4'-DDE	0.67	U	1.7	0.67	0.39
50-29-3	4,4'-DDT	0.67	U	2.0	0.67	0.63
309-00-2	Aldrin	1.3	U	4.0	1.3	1.2
319-84-6	alpha-BHC	1.3	U	2.5	1.3	0.73
5103-71-9	alpha-Chlordane	1.3	U	3.0	1.3	0.94
319-85-7	beta-BHC	1.3	U	3.5	1.3	1.1
319-86-8	delta-BHC	1.3	U	4.0	1.3	1.2
60-57-1	Dieldrin	0.67	U	1.7	0.67	0.47
959-98-8	Endosulfan I	0.67	U	1.7	0.67	0.52
33213-65-9	Endosulfan II	1.3	U	2.5	1.3	0.82
1031-07-8	Endosulfan sulfate	1.3	U	3.0	1.3	0.87
72-20-8	Endrin	0.67	U	1.7	0.67	0.50
7421-93-4	Endrin aldehyde	1.3	U	3.0	1.3	1.0
53494-70-5	Endrin ketone	0.67	U	2.0	0.67	0.63
58-89-9	gamma-BHC (Lindane)	1.3	U	2.5	1.3	0.74
5103-74-2	gamma-Chlordane	0.67	U	1.7	0.67	0.42
76-44-8	Heptachlor	1.3	U	3.5	1.3	1.1
1024-57-3	Heptachlor epoxide	1.3	U	2.5	1.3	0.80
72-43-5	Methoxychlor	3.3	U	5.0	3.3	1.5
8001-35-2	Toxaphene	20	U	67	20	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	88		55-130
877-09-8	Tetrachloro-m-xylene	106		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040320.D
Lims ID: MB 240-80060/15-A Client ID:
Inject. Date: 04-Apr-2013 01:23:31 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018512-020
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 80447 Lims Sample ID: 20
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 05-Apr-2013 12:00:28 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: shockr Date: 04-Apr-2013 12:36:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	61340070	0.0212			
2	100	4.320	4.320	0.000	39034015	0.0400			
						RPD = 61.52			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100		4.384						
2	100		5.254						
20 gamma-BHC (Lindane)									
1	100		4.790						
2	100		5.909						
7 beta-BHC									
1	100	4.940	4.935	0.005	1121288	0.000718			
2	100	6.109	6.117	-0.008	662517	0.001284			
						RPD = 56.51			
11 delta-BHC									
1	100		5.173						
2	100		6.780						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									
1	100		5.482						
2	100		6.854						
4 Aldrin									
1	100		5.984						
2	100		7.683						
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100		7.359						
2	100		9.069						
21 gamma-Chlordane									1
1	100		7.677						
2	100		9.453						
6 alpha-Chlordane									
1	100		7.999						
2	100		9.748						
14 Endosulfan I									1
1	100		8.260						
2	100		9.817						
2 4,4'-DDE									
1	100		8.353						
2	100		10.173						
13 Dieldrin									
1	100		8.787						
2	100		10.326						
17 Endrin									
1	100		9.222						
2	100		10.838						
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									1
1	100		9.570						
2	100		11.159						
15 Endosulfan II									
1	100		9.655						
2	100		11.202						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
9 Chlorobenzilate									
1	100	9.685	9.686	-0.001	8516	0			
2	100	11.055	11.035	0.020	25504	0			
						RPD = 0.00			
30 Toxaphene									1
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100		10.062						
2	100		11.633						
18 Endrin aldehyde									
1	100		10.422						
2	100		11.757						
28 Mirex									
1	100	10.454	10.476	-0.022	5704292	0			
2	100	12.368	12.377	-0.009	135119	0			
						RPD = 0.00			
27 Methoxychlor									
1	100		10.984						
2	100		12.702						
16 Endosulfan sulfate									
1	100		11.130						
2	100		12.173						
19 Endrin ketone									
1	100		11.527						
2	100		12.925						
$ 10 DCB Decachlorobiphenyl									
1	100	13.104	13.106	-0.002	49787329	0.0175			
2	100	14.650	14.650	0.000	19016995	0.0182			
						RPD = 4.13			

QC Flag Legend

Processing Flags
1 - Missing Peaks

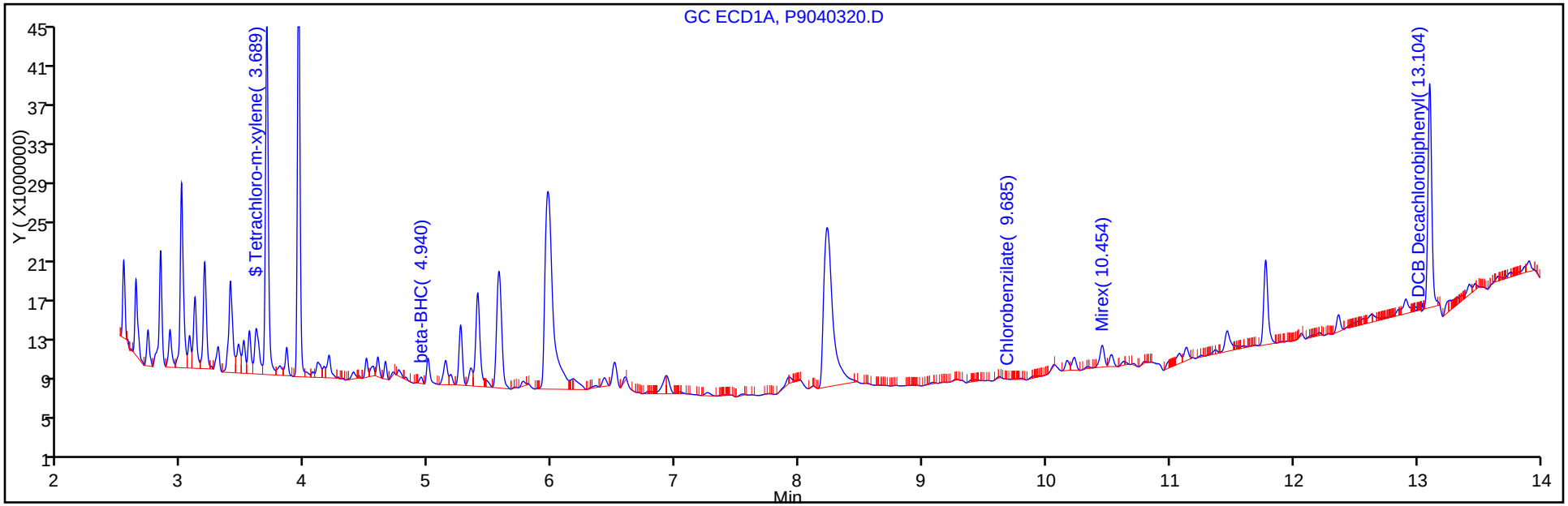
Report Date: 08-Apr-2013 15:15:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

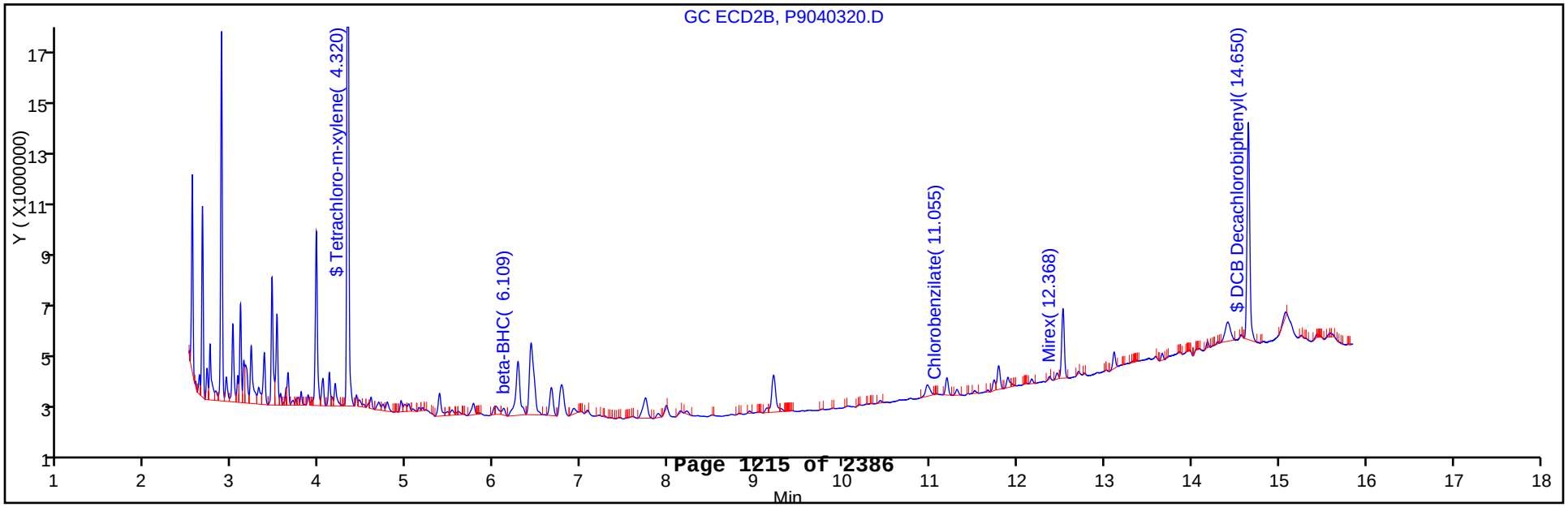
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040320.D

Injection Date:	04-Apr-2013 01:23:31	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	20
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-80060/15-A

Matrix: Solid Lab File ID: P9040320.D

Analysis Method: 8081/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/01/2013 10:09

Sample wt/vol: 30.00(g) Date Analyzed: 04/04/2013 01:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		55-130
877-09-8	Tetrachloro-m-xylene	200	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040320.D
Lims ID: MB 240-80060/15-A Client ID:
Inject. Date: 04-Apr-2013 01:23:31 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018512-020
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 80447 Lims Sample ID: 20
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 05-Apr-2013 12:00:28 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: shockr Date: 04-Apr-2013 12:36:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	61340070	0.0212			
2	100	4.320	4.320	0.000	39034015	0.0400			
						RPD = 61.52			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100		4.384						
2	100		5.254						
20 gamma-BHC (Lindane)									
1	100		4.790						
2	100		5.909						
7 beta-BHC									
1	100	4.940	4.935	0.005	1121288	0.000718			
2	100	6.109	6.117	-0.008	662517	0.001284			
						RPD = 56.51			
11 delta-BHC									
1	100		5.173						
2	100		6.780						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									
1	100		5.482						
2	100		6.854						
4 Aldrin									
1	100		5.984						
2	100		7.683						
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100		7.359						
2	100		9.069						
21 gamma-Chlordane									1
1	100		7.677						
2	100		9.453						
6 alpha-Chlordane									
1	100		7.999						
2	100		9.748						
14 Endosulfan I									1
1	100		8.260						
2	100		9.817						
2 4,4'-DDE									
1	100		8.353						
2	100		10.173						
13 Dieldrin									
1	100		8.787						
2	100		10.326						
17 Endrin									
1	100		9.222						
2	100		10.838						
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									1
1	100		9.570						
2	100		11.159						
15 Endosulfan II									
1	100		9.655						
2	100		11.202						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
9 Chlorobenzilate									
1	100	9.685	9.686	-0.001	8516	0			
2	100	11.055	11.035	0.020	25504	0			
						RPD = 0.00			
30 Toxaphene									1
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100		10.062						
2	100		11.633						
18 Endrin aldehyde									
1	100		10.422						
2	100		11.757						
28 Mirex									
1	100	10.454	10.476	-0.022	5704292	0			
2	100	12.368	12.377	-0.009	135119	0			
						RPD = 0.00			
27 Methoxychlor									
1	100		10.984						
2	100		12.702						
16 Endosulfan sulfate									
1	100		11.130						
2	100		12.173						
19 Endrin ketone									
1	100		11.527						
2	100		12.925						
$ 10 DCB Decachlorobiphenyl									
1	100	13.104	13.106	-0.002	49787329	0.0175			
2	100	14.650	14.650	0.000	19016995	0.0182			
						RPD = 4.13			

QC Flag Legend

Processing Flags
1 - Missing Peaks

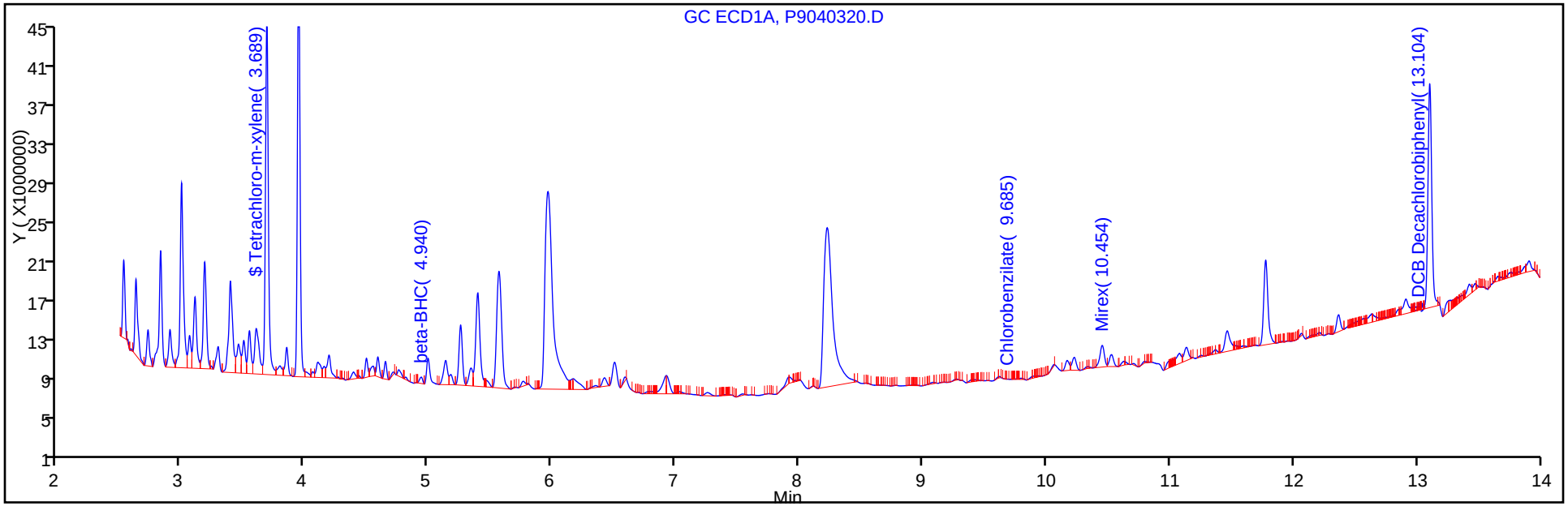
Report Date: 08-Apr-2013 15:15:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

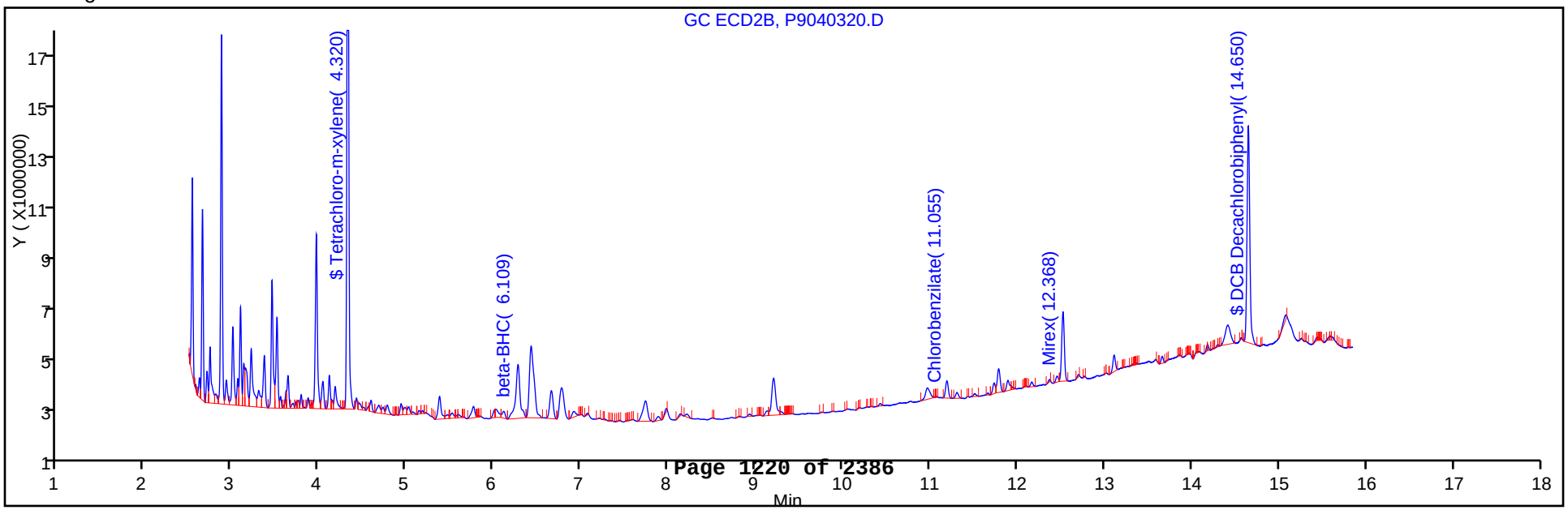
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040320.D

Injection Date:	04-Apr-2013 01:23:31	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	20
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-80060/16-A

Matrix: Solid | Lab File ID: P9040321.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/01/2013 10:09

Sample wt/vol: 30.00(g) | Date Analyzed: 04/04/2013 01:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	35.7		2.0	0.67	0.62
72-55-9	4,4'-DDE	27.5		1.7	0.67	0.39
50-29-3	4,4'-DDT	25.2		2.0	0.67	0.63
309-00-2	Aldrin	29.0		4.0	1.3	1.2
319-84-6	alpha-BHC	28.3		2.5	1.3	0.73
5103-71-9	alpha-Chlordane	24.5		3.0	1.3	0.94
319-85-7	beta-BHC	26.6		3.5	1.3	1.1
319-86-8	delta-BHC	30.7		4.0	1.3	1.2
60-57-1	Dieldrin	28.1		1.7	0.67	0.47
959-98-8	Endosulfan I	25.7		1.7	0.67	0.52
33213-65-9	Endosulfan II	21.6		2.5	1.3	0.82
1031-07-8	Endosulfan sulfate	26.9		3.0	1.3	0.87
72-20-8	Endrin	24.6		1.7	0.67	0.50
7421-93-4	Endrin aldehyde	27.7		3.0	1.3	1.0
53494-70-5	Endrin ketone	24.8		2.0	0.67	0.63
58-89-9	gamma-BHC (Lindane)	25.8		2.5	1.3	0.74
5103-74-2	gamma-Chlordane	27.7		1.7	0.67	0.42
76-44-8	Heptachlor	21.7		3.5	1.3	1.1
1024-57-3	Heptachlor epoxide	28.3		2.5	1.3	0.80
72-43-5	Methoxychlor	27.7		5.0	3.3	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	98		55-130
877-09-8	Tetrachloro-m-xylene	90		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040321.D
Lims ID: LCS 240-80060/16-A Client ID:
Inject. Date: 04-Apr-2013 01:51:14 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018512-021
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 80447 Lims Sample ID: 21
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:13 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.693	3.689	0.004	52011658	0.0180			
2	100	4.323	4.320	0.003	41953786	0.0430			
						RPD = 82.14			
5 alpha-BHC									
1	100	4.388	4.384	0.004	375251676	0.0849			
2	100	5.259	5.254	0.005	138020987	0.0999			
						RPD = 16.20			
20 gamma-BHC (Lindane)									
1	100	4.794	4.790	0.004	298901251	0.0773			
2	100	5.914	5.909	0.005	103060608	0.0841			
						RPD = 8.39			
7 beta-BHC									
1	100	4.938	4.935	0.003	124673886	0.0798			
2	100	6.120	6.117	0.003	47317837	0.0917			
						RPD = 13.80			
11 delta-BHC									
1	100	5.174	5.173	0.001	352356962	0.0920			
2	100	6.784	6.780	0.004	107326617	0.0964			
						RPD = 4.74			
22 Heptachlor									
1	100	5.485	5.482	0.003	242145292	0.0651			
2	100	6.860	6.854	0.006	80034848	0.0632			
						RPD = 2.91			
4 Aldrin									
1	100	5.989	5.984	0.005	340557873	0.0870			
2	100	7.688	7.683	0.005	123950806	0.1010			
						RPD = 14.89			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.363	7.359	0.004	304153759	0.0850			
2	100	9.072	9.069	0.003	98718775	0.0907			
						RPD = 6.50			
21 gamma-Chlordane									
1	100	7.681	7.677	0.004	304411709	0.0831			
2	100	9.456	9.453	0.003	96922038	0.0894			
						RPD = 7.22			
6 alpha-Chlordane									
1	100	8.003	7.999	0.004	271136800	0.0736			
2	100	9.751	9.748	0.003	100471169	0.0916			
						RPD = 21.77			
14 Endosulfan I									
1	100	8.263	8.260	0.003	252536168	0.0772			
2	100	9.820	9.817	0.003	79270508	0.0774			
						RPD = 0.23			
2 4,4'-DDE									
1	100	8.346	8.353	-0.007	283538475	0.0824			
2	100	10.170	10.173	-0.003	101290389	0.0989			
						RPD = 18.21			
13 Dieldrin									
1	100	8.790	8.787	0.003	298332310	0.0842			
2	100	10.328	10.326	0.002	102706443	0.0900			
						RPD = 6.70			
17 Endrin									
1	100	9.226	9.222	0.004	238823392	0.0739			
2	100	10.842	10.838	0.004	82019635	0.0797			
						RPD = 7.46			
1 4,4'-DDD									
1	100	9.555	9.570	-0.015	207594764	0.1070			
2	100	11.152	11.159	-0.007	66999075	0.1232			
						RPD = 14.10			
15 Endosulfan II									
1	100	9.656	9.655	0.001	219654372	0.0648			
2	100	11.204	11.202	0.002	75148503	0.0685			
						RPD = 5.53			
3 4,4'-DDT									
1	100	10.057	10.062	-0.005	186235219	0.0756			
2	100	11.631	11.633	-0.002	57335550	0.0787			
						RPD = 4.06			
18 Endrin aldehyde									
1	100	10.423	10.422	0.001	191637123	0.0830			
2	100	11.758	11.757	0.001	65161865	0.0851			
						RPD = 2.42			
27 Methoxychlor									
1	100	10.974	10.984	-0.010	97032198	0.0832			
2	100	12.699	12.702	-0.003	33732194	0.0866			
						RPD = 4.04			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.130	0.001	223772599	0.0806			
2	100	12.174	12.173	0.001	75805999	0.0894			
						RPD = 10.36			
19 Endrin ketone									
1	100	11.528	11.527	0.001	228250608	0.0744			
2	100	12.928	12.925	0.003	77635338	0.0795			
						RPD = 6.62			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	55477583	0.0195			
2	100	14.652	14.650	0.002	18946277	0.0182			
						RPD = 7.06			

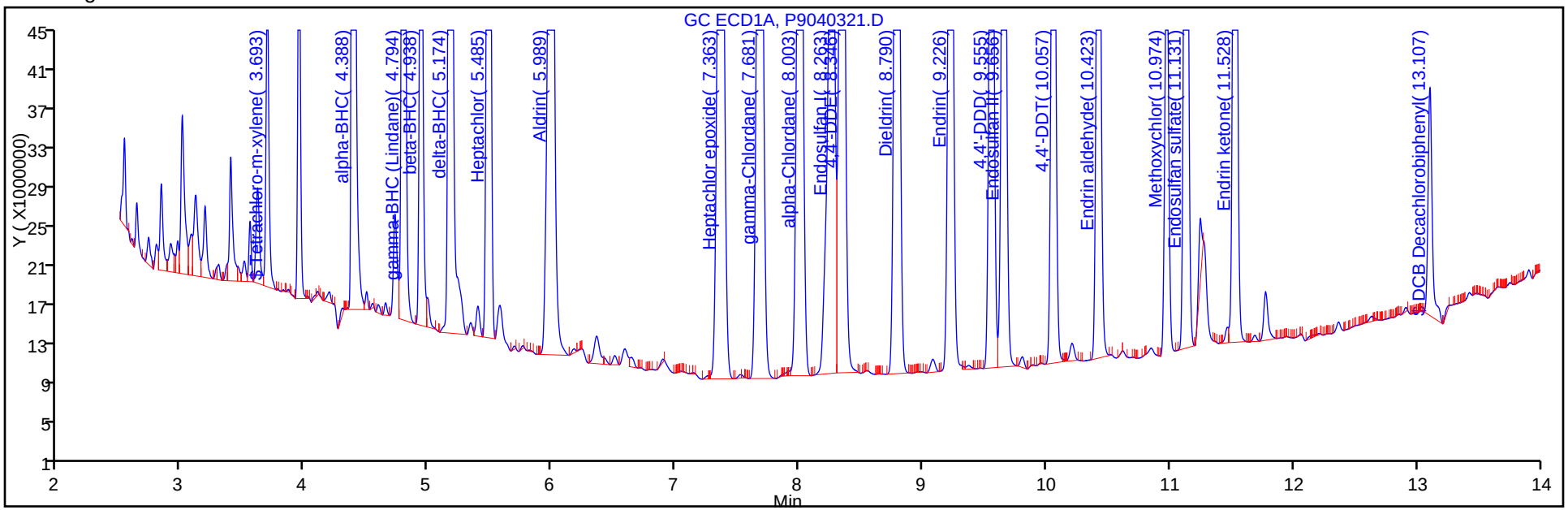
Report Date: 04-Apr-2013 15:32:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

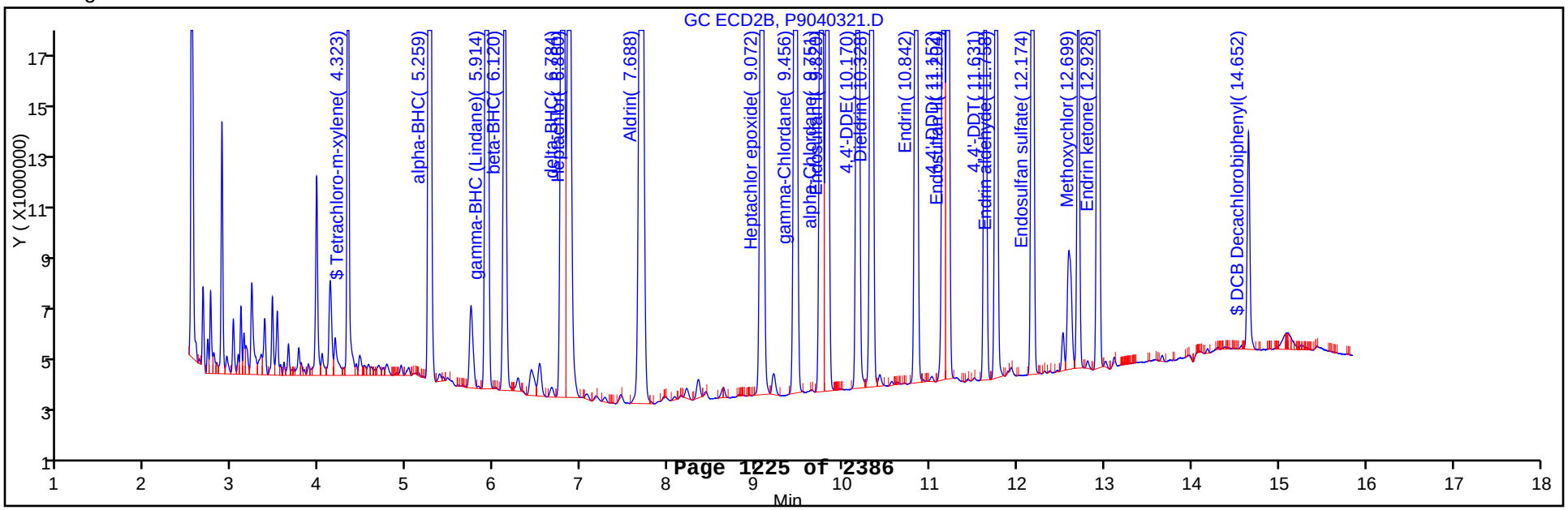
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040321.D

Injection Date:	04-Apr-2013 01:51:14	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	21
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-80060/16-A

Matrix: Solid | Lab File ID: P9040321.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/01/2013 10:09

Sample wt/vol: 30.00(g) | Date Analyzed: 04/04/2013 01:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		55-130
877-09-8	Tetrachloro-m-xylene	215	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040321.D		
Lims ID:	LCS 240-80060/16-A	Client ID:	
Inject. Date:	04-Apr-2013 01:51:14	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	240-0018512-021		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP9
Injection Vol:	1.0 ul	ALS Bottle#:	21
Lims Batch ID:	80447	Lims Sample ID:	21
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m		
Last Update:	04-Apr-2013 15:32:13	Calib Date:	03-Apr-2013 20:44:27
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.693	3.689	0.004	52011658	0.0180			
2	100	4.323	4.320	0.003	41953786	0.0430			
						RPD = 82.14			
5 alpha-BHC									
1	100	4.388	4.384	0.004	375251676	0.0849			
2	100	5.259	5.254	0.005	138020987	0.0999			
						RPD = 16.20			
20 gamma-BHC (Lindane)									
1	100	4.794	4.790	0.004	298901251	0.0773			
2	100	5.914	5.909	0.005	103060608	0.0841			
						RPD = 8.39			
7 beta-BHC									
1	100	4.938	4.935	0.003	124673886	0.0798			
2	100	6.120	6.117	0.003	47317837	0.0917			
						RPD = 13.80			
11 delta-BHC									
1	100	5.174	5.173	0.001	352356962	0.0920			
2	100	6.784	6.780	0.004	107326617	0.0964			
						RPD = 4.74			
22 Heptachlor									
1	100	5.485	5.482	0.003	242145292	0.0651			
2	100	6.860	6.854	0.006	80034848	0.0632			
						RPD = 2.91			
4 Aldrin									
1	100	5.989	5.984	0.005	340557873	0.0870			
2	100	7.688	7.683	0.005	123950806	0.1010			
						RPD = 14.89			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.363	7.359	0.004	304153759	0.0850			
2	100	9.072	9.069	0.003	98718775	0.0907			
						RPD = 6.50			
21 gamma-Chlordane									
1	100	7.681	7.677	0.004	304411709	0.0831			
2	100	9.456	9.453	0.003	96922038	0.0894			
						RPD = 7.22			
6 alpha-Chlordane									
1	100	8.003	7.999	0.004	271136800	0.0736			
2	100	9.751	9.748	0.003	100471169	0.0916			
						RPD = 21.77			
14 Endosulfan I									
1	100	8.263	8.260	0.003	252536168	0.0772			
2	100	9.820	9.817	0.003	79270508	0.0774			
						RPD = 0.23			
2 4,4'-DDE									
1	100	8.346	8.353	-0.007	283538475	0.0824			
2	100	10.170	10.173	-0.003	101290389	0.0989			
						RPD = 18.21			
13 Dieldrin									
1	100	8.790	8.787	0.003	298332310	0.0842			
2	100	10.328	10.326	0.002	102706443	0.0900			
						RPD = 6.70			
17 Endrin									
1	100	9.226	9.222	0.004	238823392	0.0739			
2	100	10.842	10.838	0.004	82019635	0.0797			
						RPD = 7.46			
1 4,4'-DDD									
1	100	9.555	9.570	-0.015	207594764	0.1070			
2	100	11.152	11.159	-0.007	66999075	0.1232			
						RPD = 14.10			
15 Endosulfan II									
1	100	9.656	9.655	0.001	219654372	0.0648			
2	100	11.204	11.202	0.002	75148503	0.0685			
						RPD = 5.53			
3 4,4'-DDT									
1	100	10.057	10.062	-0.005	186235219	0.0756			
2	100	11.631	11.633	-0.002	57335550	0.0787			
						RPD = 4.06			
18 Endrin aldehyde									
1	100	10.423	10.422	0.001	191637123	0.0830			
2	100	11.758	11.757	0.001	65161865	0.0851			
						RPD = 2.42			
27 Methoxychlor									
1	100	10.974	10.984	-0.010	97032198	0.0832			
2	100	12.699	12.702	-0.003	33732194	0.0866			
						RPD = 4.04			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	11.131	11.130	0.001	223772599	0.0806			
2	100	12.174	12.173	0.001	75805999	0.0894			
						RPD = 10.36			
19 Endrin ketone									
1	100	11.528	11.527	0.001	228250608	0.0744			
2	100	12.928	12.925	0.003	77635338	0.0795			
						RPD = 6.62			
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.106	0.001	55477583	0.0195			
2	100	14.652	14.650	0.002	18946277	0.0182			
						RPD = 7.06			

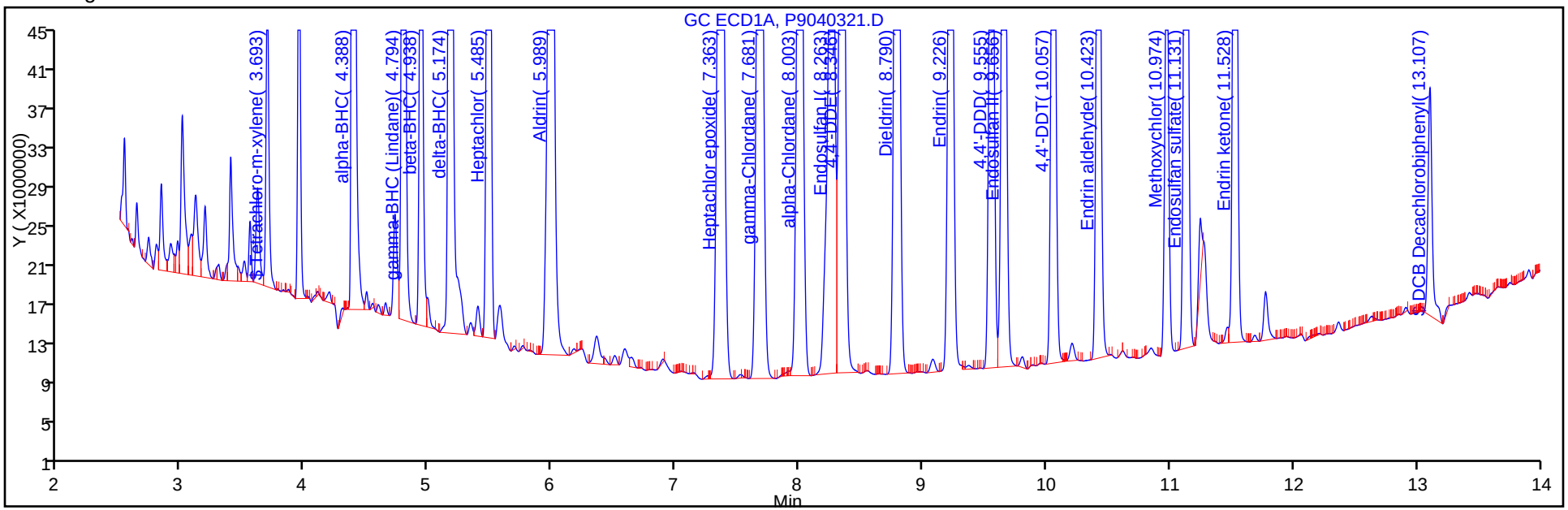
Report Date: 04-Apr-2013 15:32:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

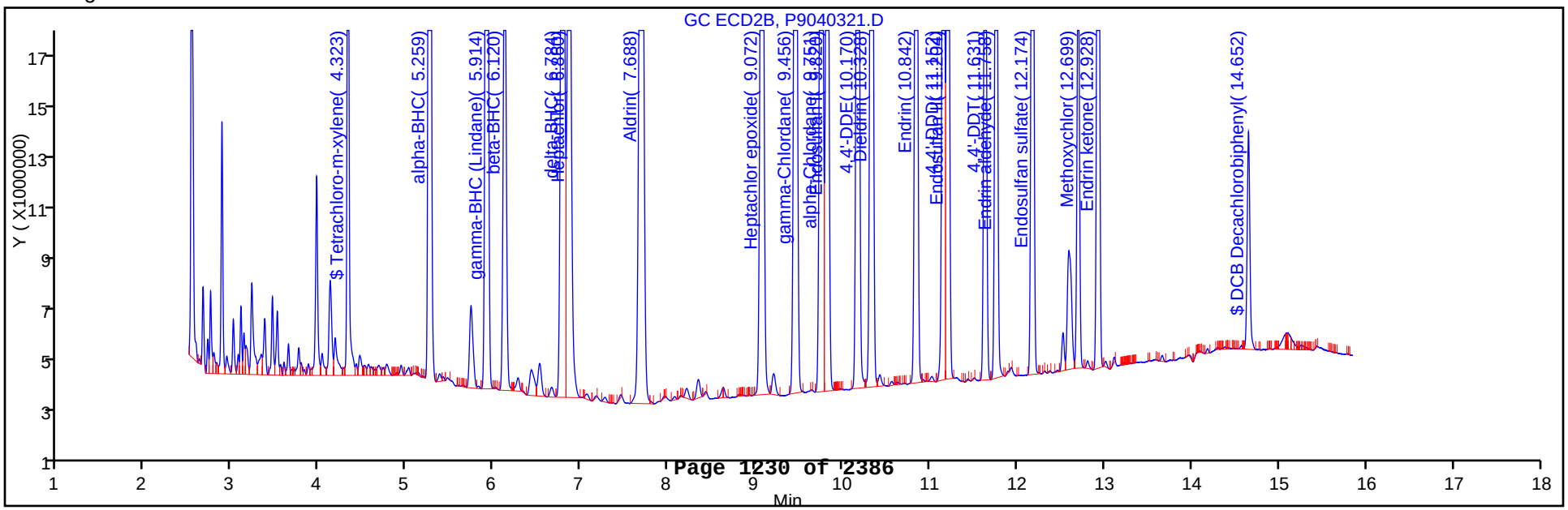
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040321.D

Injection Date:	04-Apr-2013 01:51:14	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	21
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80447/15

Matrix: Solid | Lab File ID: P9040315.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/03/2013 23:03

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00382	J	0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00438	J	0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00453	J	0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00500		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00485	J	0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00498	J	0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00509		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00439	J	0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00489	J	0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00513		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00552		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00509		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00495	J	0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00497	J	0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00521		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00491	J	0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00486	J	0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00506		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00504		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00494	J	0.010	0.0030	0.0032
8001-35-2	Toxaphene	0.050	U	0.20	0.050	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	107		50-150
877-09-8	Tetrachloro-m-xylene	104		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040315.D
Lims ID: MRL Client ID:
Inject. Date: 03-Apr-2013 23:03:43 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018512-015
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 80447 Lims Sample ID: 15
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:50 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	15006558	0.005184			
2	100	4.321	4.320	0.001	5078005	0.005206			
						RPD = 0.42			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100	4.384	4.384	0.000	21424490	0.004848			
2	100	5.256	5.254	0.002	6340305	0.004588			
						RPD = 5.50			
20 gamma-BHC (Lindane)									
1	100	4.791	4.790	0.001	18973405	0.004908			
2	100	5.911	5.909	0.002	5805961	0.004737			
						RPD = 3.54			
7 beta-BHC									
1	100	4.935	4.935	0.000	7950924	0.005092			
2	100	6.119	6.117	0.002	2644387	0.005124			
						RPD = 0.62			
11 delta-BHC									
1	100	5.174	5.173	0.001	16835056	0.004395			
2	100	6.784	6.780	0.004	4852959	0.004361			
						RPD = 0.77			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	5.360	5.356	0.004	8860	0.000054		100.0	
1	2	6.337	6.309	0.028	17962	0.000120	74.9- 114.9	202.7	
1	3	7.679	7.679	0.000	17794232	0.0385	270.3- 310.3	200837.8	
1	4	8.003	7.999	0.004	18345294	0.0249	445.3- 485.3	207057.5	
			Average of Peak Amounts =			0.0159			
2	100	0.0	6.510	-6.510	0	0		100.0	
2	2	8.146	8.157	-0.011	87246	0.001784	75.1- 115.1		
2	3	9.456	9.452	0.004	5237617	0.0384	248.0- 288.0		
2	4	9.751	9.747	0.004	5376378	0.0395	250.7- 290.7		
			Average of Peak Amounts =			0.0265			
						RPD = 50.20			
22 Heptachlor									
1	100	5.483	5.482	0.001	18814248	0.005059			
2	100	6.859	6.854	0.005	6047650	0.004779			
						RPD = 5.69			
4 Aldrin									
1	100	5.985	5.984	0.001	19573131	0.005001			
2	100	7.684	7.683	0.001	5838455	0.004758			
						RPD = 4.98			
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	18040699	0.005040			
2	100	9.070	9.069	0.001	5435244	0.004993			
						RPD = 0.94			
21 gamma-Chlordane									
1	100	7.679	7.677	0.002	17794232	0.004859			
2	100	9.456	9.453	0.003	5237617	0.004829			
						RPD = 0.63			
6 alpha-Chlordane									
1	100	8.003	7.999	0.004	18345294	0.004980			
2	100	9.751	9.748	0.003	5376378	0.004901			
						RPD = 1.60			
14 Endosulfan I									
1	100	8.261	8.260	0.001	16772673	0.005129			
2	100	9.819	9.817	0.002	5176219	0.005054			
						RPD = 1.47			
2 4,4'-DDE									
1	100	8.360	8.353	0.007	15090082	0.004383			
2	100	10.176	10.173	0.003	4790879	0.004676			
						RPD = 6.47			
13 Dieldrin									
1	100	8.788	8.787	0.001	17332521	0.004890			
2	100	10.327	10.326	0.001	5496686	0.004817			
						RPD = 1.51			
17 Endrin									
1	100	9.224	9.222	0.002	15973949	0.004945			
2	100	10.841	10.838	0.003	4923335	0.004782			
						RPD = 3.35			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100	9.580	9.570	0.010	7413838	0.003821			
2	100	11.164	11.159	0.005	1996289	0.003672			
						RPD = 3.99			
15 Endosulfan II									
1	100	9.658	9.655	0.003	18708063	0.005520			
2	100	11.204	11.202	0.002	5636653	0.005138			
						RPD = 7.17			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									1
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100	10.066	10.062	0.004	11146272	0.004525			
2	100	11.636	11.633	0.003	3451978	0.004741			
						RPD = 4.65			
18 Endrin aldehyde									
1	100	10.424	10.422	0.002	11470478	0.004970			
2	100	11.760	11.757	0.003	3933537	0.005136			
						RPD = 3.27			
28 Mirex									1
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.990	10.984	0.006	5765106	0.004943			
2	100	12.704	12.702	0.002	1923219	0.004939			
						RPD = 0.08			
16 Endosulfan sulfate									
1	100	11.133	11.130	0.003	14139923	0.005094			
2	100	12.175	12.173	0.002	4260354	0.005026			
						RPD = 1.35			
19 Endrin ketone									
1	100	11.529	11.527	0.002	15971626	0.005209			
2	100	12.928	12.925	0.003	4940950	0.005062			
						RPD = 2.86			

Report Date: 04-Apr-2013 15:35:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040315.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.109	13.106	0.003	15177866	0.005336			
2	100	14.654	14.650	0.004	6044214	0.005798			
						RPD = 8.29			

QC Flag Legend

Processing Flags
1 - Missing Peaks

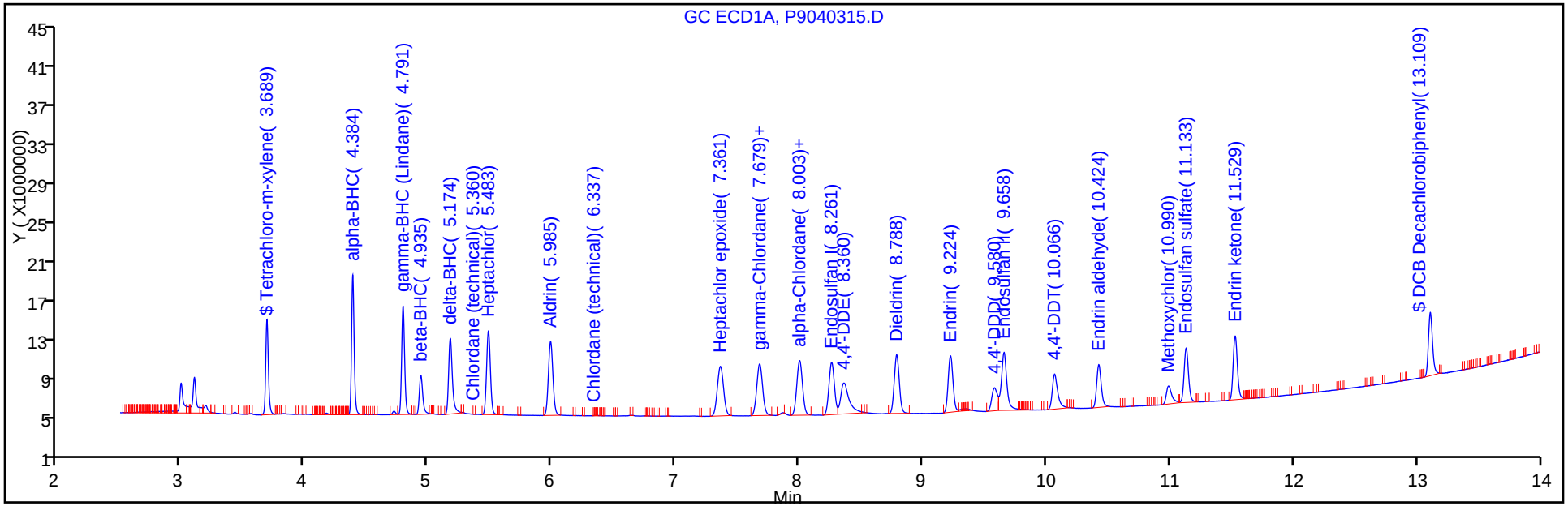
Report Date: 04-Apr-2013 15:35:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

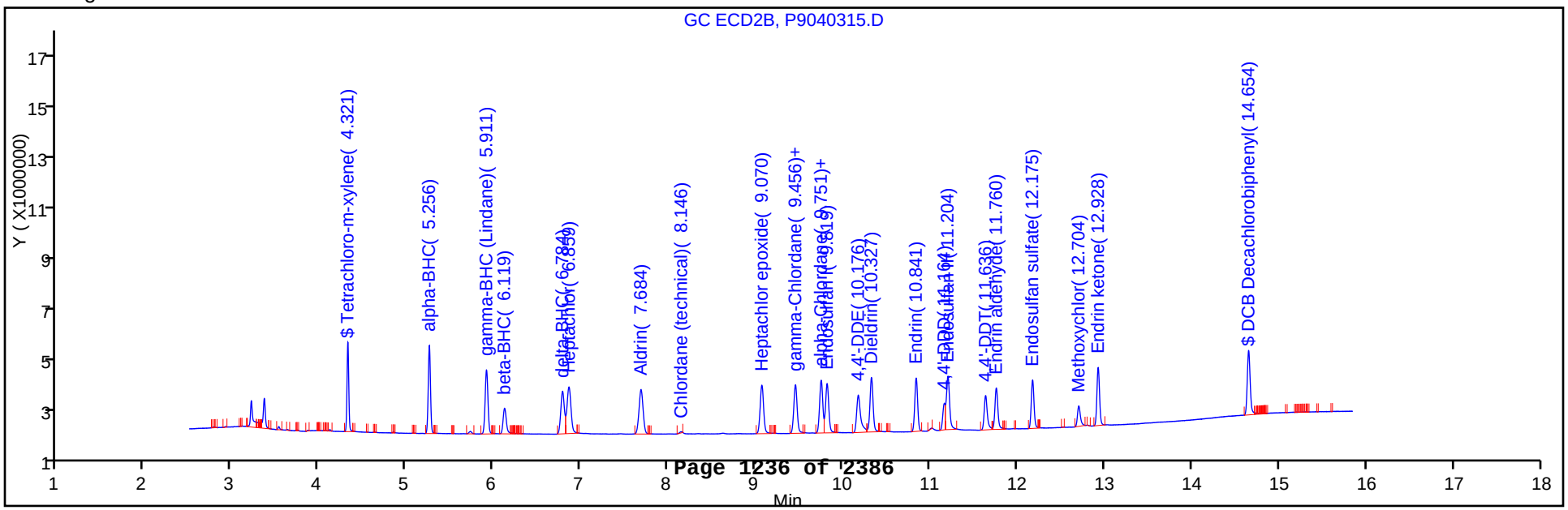
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040315.D

Injection Date:	03-Apr-2013 23:03:43	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80447/15

Matrix: Solid | Lab File ID: P9040315.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/03/2013 23:03

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00367*	*J*	*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00468*	*J*	*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00474*	*J*	*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00476*	*J*	*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00459*	*J*	*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00490*	*J*	*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00512*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00436*	*J*	*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00482*	*J*	*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00505*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00514*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00503*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00478*	*J*	*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00514*		*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00506*		*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00474*	*J*	*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00483*	*J*	*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00478*	*J*	*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00499*	*J*	*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00494*	*J*	*0.010*	0.0030	*0.0032*
8001-35-2	*Toxaphene*	*0.050*	*U*	*0.20*	0.050	*0.032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	116		50-150
877-09-8	Tetrachloro-m-xylene	104		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040315.D
Lims ID: MRL Client ID:
Inject. Date: 03-Apr-2013 23:03:43 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018512-015
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 80447 Lims Sample ID: 15
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:50 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.689	0.000	15006558	0.005184			
2	100	4.321	4.320	0.001	5078005	0.005206			
						RPD = 0.42			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100	4.384	4.384	0.000	21424490	0.004848			
2	100	5.256	5.254	0.002	6340305	0.004588			
						RPD = 5.50			
20 gamma-BHC (Lindane)									
1	100	4.791	4.790	0.001	18973405	0.004908			
2	100	5.911	5.909	0.002	5805961	0.004737			
						RPD = 3.54			
7 beta-BHC									
1	100	4.935	4.935	0.000	7950924	0.005092			
2	100	6.119	6.117	0.002	2644387	0.005124			
						RPD = 0.62			
11 delta-BHC									
1	100	5.174	5.173	0.001	16835056	0.004395			
2	100	6.784	6.780	0.004	4852959	0.004361			
						RPD = 0.77			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	5.360	5.356	0.004	8860	0.000054		100.0	
1	2	6.337	6.309	0.028	17962	0.000120	74.9- 114.9	202.7	
1	3	7.679	7.679	0.000	17794232	0.0385	270.3- 310.3	200837.8	
1	4	8.003	7.999	0.004	18345294	0.0249	445.3- 485.3	207057.5	
			Average of Peak Amounts =			0.0159			
2	100	0.0	6.510	-6.510	0	0		100.0	
2	2	8.146	8.157	-0.011	87246	0.001784	75.1- 115.1		
2	3	9.456	9.452	0.004	5237617	0.0384	248.0- 288.0		
2	4	9.751	9.747	0.004	5376378	0.0395	250.7- 290.7		
			Average of Peak Amounts =			0.0265			
						RPD = 50.20			
22 Heptachlor									
1	100	5.483	5.482	0.001	18814248	0.005059			
2	100	6.859	6.854	0.005	6047650	0.004779			
						RPD = 5.69			
4 Aldrin									
1	100	5.985	5.984	0.001	19573131	0.005001			
2	100	7.684	7.683	0.001	5838455	0.004758			
						RPD = 4.98			
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.361	7.359	0.002	18040699	0.005040			
2	100	9.070	9.069	0.001	5435244	0.004993			
						RPD = 0.94			
21 gamma-Chlordane									
1	100	7.679	7.677	0.002	17794232	0.004859			
2	100	9.456	9.453	0.003	5237617	0.004829			
						RPD = 0.63			
6 alpha-Chlordane									
1	100	8.003	7.999	0.004	18345294	0.004980			
2	100	9.751	9.748	0.003	5376378	0.004901			
						RPD = 1.60			
14 Endosulfan I									
1	100	8.261	8.260	0.001	16772673	0.005129			
2	100	9.819	9.817	0.002	5176219	0.005054			
						RPD = 1.47			
2 4,4'-DDE									
1	100	8.360	8.353	0.007	15090082	0.004383			
2	100	10.176	10.173	0.003	4790879	0.004676			
						RPD = 6.47			
13 Dieldrin									
1	100	8.788	8.787	0.001	17332521	0.004890			
2	100	10.327	10.326	0.001	5496686	0.004817			
						RPD = 1.51			
17 Endrin									
1	100	9.224	9.222	0.002	15973949	0.004945			
2	100	10.841	10.838	0.003	4923335	0.004782			
						RPD = 3.35			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100	9.580	9.570	0.010	7413838	0.003821			
2	100	11.164	11.159	0.005	1996289	0.003672			
						RPD = 3.99			
15 Endosulfan II									
1	100	9.658	9.655	0.003	18708063	0.005520			
2	100	11.204	11.202	0.002	5636653	0.005138			
						RPD = 7.17			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									1
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100	10.066	10.062	0.004	11146272	0.004525			
2	100	11.636	11.633	0.003	3451978	0.004741			
						RPD = 4.65			
18 Endrin aldehyde									
1	100	10.424	10.422	0.002	11470478	0.004970			
2	100	11.760	11.757	0.003	3933537	0.005136			
						RPD = 3.27			
28 Mirex									1
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.990	10.984	0.006	5765106	0.004943			
2	100	12.704	12.702	0.002	1923219	0.004939			
						RPD = 0.08			
16 Endosulfan sulfate									
1	100	11.133	11.130	0.003	14139923	0.005094			
2	100	12.175	12.173	0.002	4260354	0.005026			
						RPD = 1.35			
19 Endrin ketone									
1	100	11.529	11.527	0.002	15971626	0.005209			
2	100	12.928	12.925	0.003	4940950	0.005062			
						RPD = 2.86			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.109	13.106	0.003	15177866	0.005336			
2	100	14.654	14.650	0.004	6044214	0.005798			
						RPD = 8.29			

QC Flag Legend

Processing Flags
1 - Missing Peaks

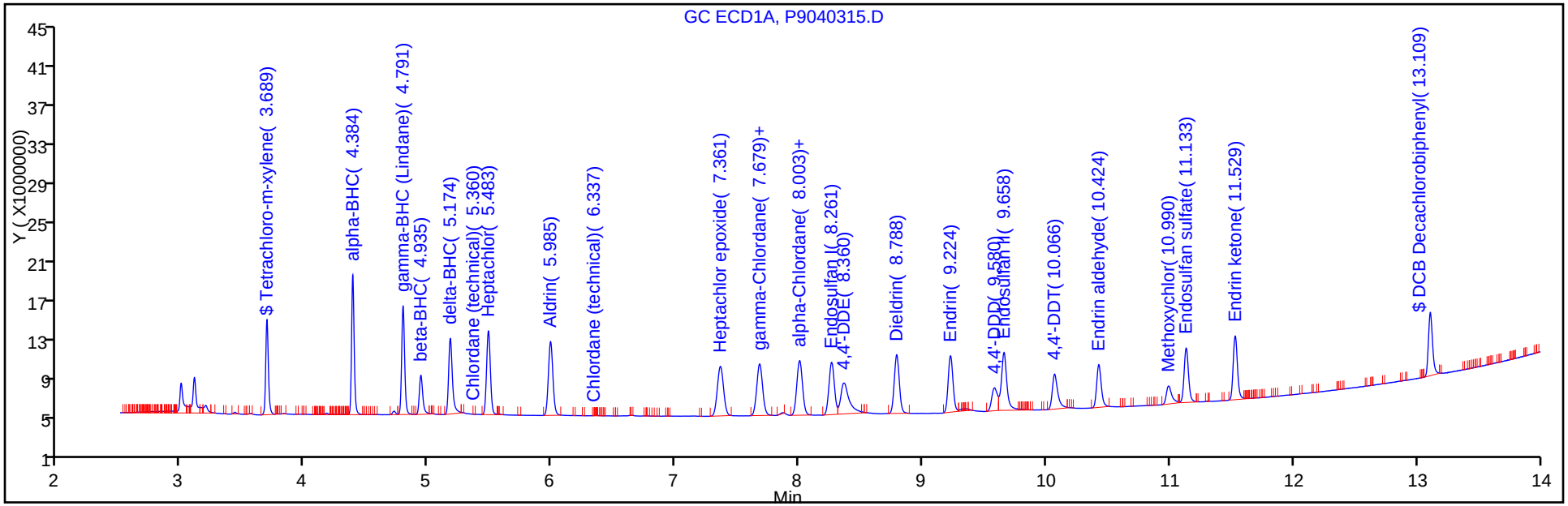
Report Date: 04-Apr-2013 15:35:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

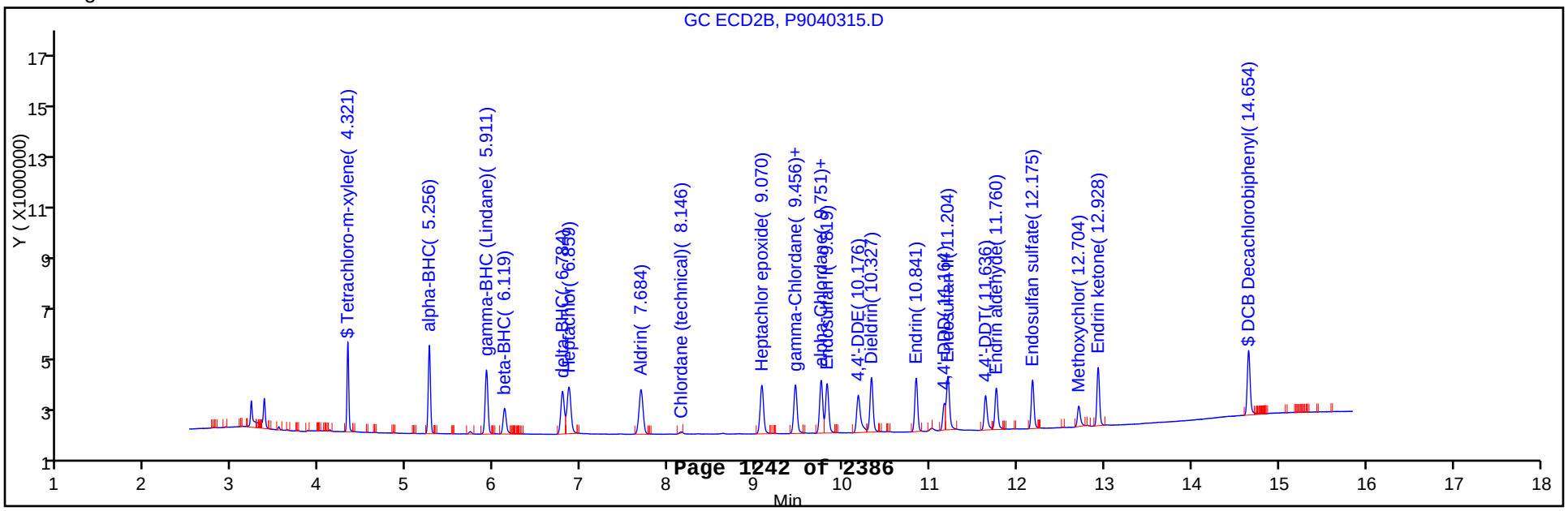
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040315.D

Injection Date:	03-Apr-2013 23:03:43	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80447/26

Matrix: Solid | Lab File ID: P9040326.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/04/2013 04:10

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00578		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00513		0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00519		0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00523		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00503		0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00528		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00548		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00507		0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00514		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00536		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00542		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00547		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00526		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00562		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00565		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00512		0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00522		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00536		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00532		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00579	J	0.010	0.0030	0.0032
8001-35-2	Toxaphene	0.050	U	0.20	0.050	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	111		50-150
877-09-8	Tetrachloro-m-xylene	111		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040326.D
Lims ID: MRL Client ID:
Inject. Date: 04-Apr-2013 04:10:39 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018512-026
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 80447 Lims Sample ID: 26
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:50 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.691	-0.002	16093582	0.005559			
2	100	4.321	4.321	0.000	5205667	0.005337			
						RPD = 4.09			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.168						
2	100		4.995						
5 alpha-BHC									
1	100	4.385	4.385	0.000	22219553	0.005028			
2	100	5.256	5.256	0.000	6764703	0.004895			
						RPD = 2.67			
20 gamma-BHC (Lindane)									
1	100	4.792	4.792	0.000	19797960	0.005121			
2	100	5.911	5.911	0.000	6268452	0.005115			
						RPD = 0.13			
7 beta-BHC									
1	100	4.936	4.936	0.000	8552150	0.005477			
2	100	6.118	6.119	-0.001	2973765	0.005762			
						RPD = 5.07			
11 delta-BHC									
1	100	5.174	5.174	0.000	19436072	0.005074			
2	100	6.781	6.782	-0.001	5671953	0.005097			
						RPD = 0.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	0.0	5.358	-5.358	0	0		100.0	
1	2	6.329	6.313	0.016	7612	0.000051	74.9- 114.9		
1	3	7.678	7.680	-0.002	19124331	0.0414	270.3- 310.3		
1	4	8.003	8.000	0.003	19466814	0.0264	445.3- 485.3		
			Average of Peak Amounts =			0.0226			
2	100	0.0	6.513	-6.513	0	0		100.0	
2	2	8.140	8.161	-0.021	30491	0.000623	75.1- 115.1		
2	3	9.453	9.455	-0.002	5633329	0.0413	248.0- 288.0		
2	4	9.750	9.751	-0.001	5754573	0.0422	250.7- 290.7		
			Average of Peak Amounts =			0.0281			
						RPD = 21.45			
22 Heptachlor									
1	100	5.483	5.484	-0.001	19925743	0.005358			
2	100	6.856	6.857	-0.001	6526693	0.005158			
						RPD = 3.81			
4 Aldrin									
1	100	5.986	5.987	-0.001	20466602	0.005229			
2	100	7.683	7.685	-0.002	6160341	0.005020			
						RPD = 4.08			
25 Isodrin									
1	100		6.641						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.361	7.361	0.000	19055552	0.005324			
2	100	9.068	9.070	-0.002	5739071	0.005272			
						RPD = 0.97			
21 gamma-Chlordane									
1	100	7.678	7.681	-0.003	19124331	0.005223			
2	100	9.453	9.456	-0.003	5633329	0.005194			
						RPD = 0.56			
6 alpha-Chlordane									
1	100	8.003	8.003	0.000	19466814	0.005285			
2	100	9.750	9.751	-0.001	5754573	0.005246			
						RPD = 0.74			
14 Endosulfan I									
1	100	8.261	8.263	-0.002	17527765	0.005359			
2	100	9.818	9.819	-0.001	5341859	0.005216			
						RPD = 2.72			
2 4,4'-DDE									
1	100	8.355	8.353	0.002	17663322	0.005130			
2	100	10.171	10.172	-0.001	5529634	0.005397			
						RPD = 5.06			
13 Dieldrin									
1	100	8.790	8.791	-0.001	18226075	0.005142			
2	100	10.327	10.328	-0.001	5724122	0.005017			
						RPD = 2.48			
17 Endrin									
1	100	9.225	9.226	-0.001	16983187	0.005258			
2	100	10.838	10.841	-0.003	5328332	0.005176			
						RPD = 1.57			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100	9.291	9.290	0.001	19871	0.1635			
2	100	11.008	10.995	0.013	73040	0.1121			
						RPD = 37.29			
1 4,4'-DDD									
1	100	9.568	9.565	0.003	11208966	0.005778			
2	100	11.156	11.156	0.000	3221038	0.005925			
						RPD = 2.51			
15 Endosulfan II									
1	100	9.658	9.657	0.001	18376835	0.005422			
2	100	11.204	11.204	0.000	5838977	0.005322			
						RPD = 1.86			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									1
1	100		9.782						
1	2		10.372						
1	3		10.942						
1	4		11.089						
1	5		11.345						
2	100		10.763						
2	2		11.345						
2	3		11.763						
2	4		12.276						
2	5		13.065						
3 4,4'-DDT									
1	100	10.065	10.061	0.004	12791494	0.005193			
2	100	11.633	11.633	0.000	3940408	0.005412			
						RPD = 4.12			
18 Endrin aldehyde									
1	100	10.424	10.424	0.000	12977951	0.005624			
2	100	11.756	11.758	-0.002	4138159	0.005403			
						RPD = 4.01			
28 Mirex									1
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.982	10.981	0.001	6757049	0.005794			
2	100	12.700	12.701	-0.001	2307124	0.005925			
						RPD = 2.24			
16 Endosulfan sulfate									
1	100	11.132	11.131	0.001	15182396	0.005470			
2	100	12.172	12.174	-0.002	4800131	0.005663			
						RPD = 3.46			
19 Endrin ketone									
1	100	11.529	11.529	0.000	17309759	0.005646			
2	100	12.926	12.927	-0.001	5634832	0.005773			
						RPD = 2.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.108	-0.001	15742846	0.005535			
2	100	14.651	14.651	0.000	6040068	0.005794			
						RPD = 4.58			

QC Flag Legend

Processing Flags
1 - Missing Peaks

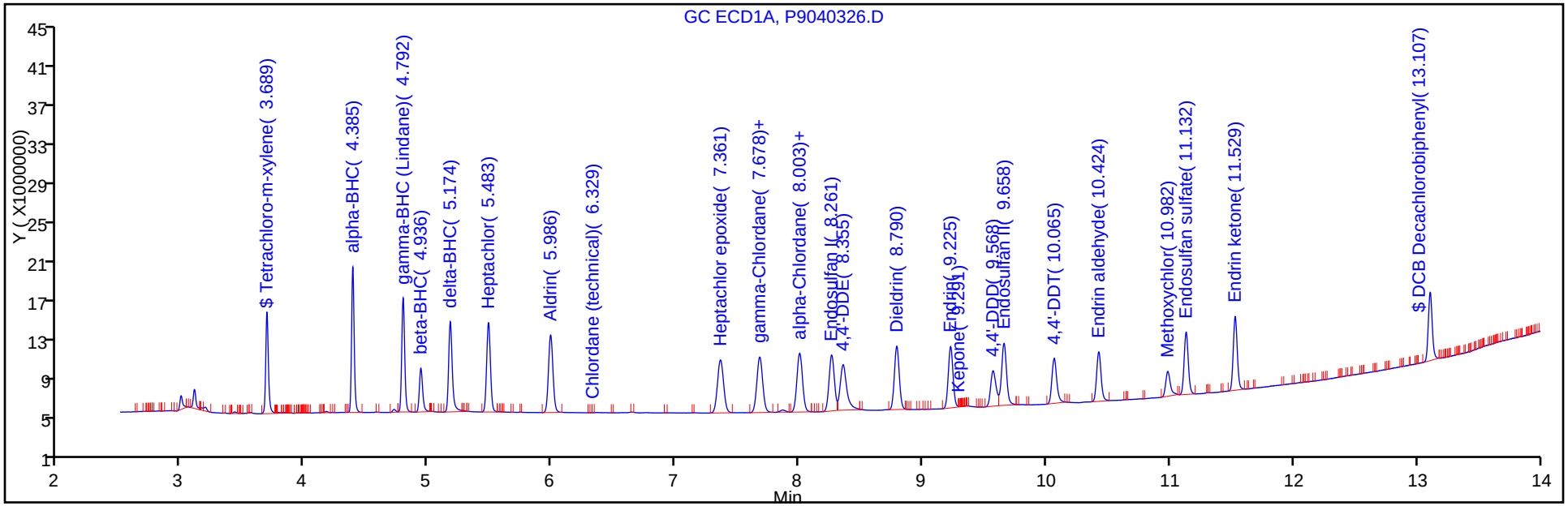
Report Date: 04-Apr-2013 15:35:51 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

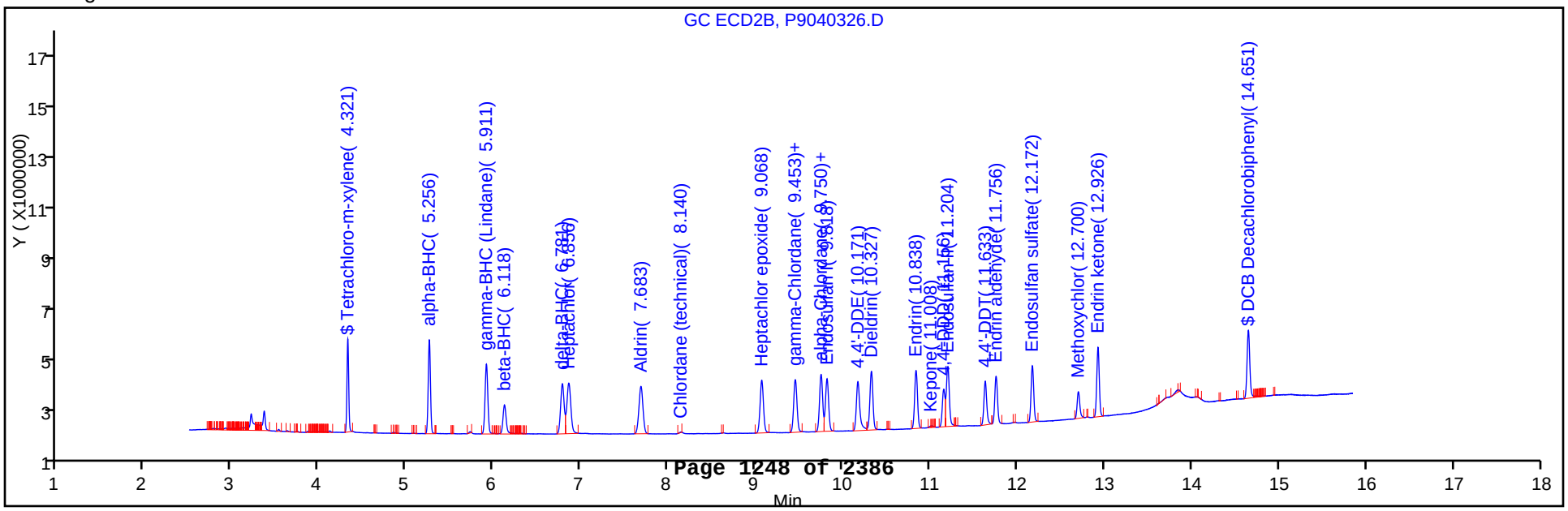
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040326.D

Injection Date:	04-Apr-2013 04:10:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	26
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80447/26

Matrix: Solid | Lab File ID: P9040326.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/04/2013 04:10

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00592*		*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00540*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00541*		*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00502*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00490*	*J*	*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00525*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00576*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00510*		*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00502*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00522*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00532*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00566*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00518*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00540*		*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00577*		*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00511*		*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00519*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00516*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00527*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00593*	*J*	*0.010*	0.0030	*0.0032*
8001-35-2	*Toxaphene*	*0.050*	*U*	*0.20*	0.050	*0.032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	116		50-150
877-09-8	Tetrachloro-m-xylene	107		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040326.D
Lims ID: MRL Client ID:
Inject. Date: 04-Apr-2013 04:10:39 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018512-026
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 80447 Lims Sample ID: 26
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:50 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.689	3.691	-0.002	16093582	0.005559			
2	100	4.321	4.321	0.000	5205667	0.005337			
						RPD = 4.09			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.168						
2	100		4.995						
5 alpha-BHC									
1	100	4.385	4.385	0.000	22219553	0.005028			
2	100	5.256	5.256	0.000	6764703	0.004895			
						RPD = 2.67			
20 gamma-BHC (Lindane)									
1	100	4.792	4.792	0.000	19797960	0.005121			
2	100	5.911	5.911	0.000	6268452	0.005115			
						RPD = 0.13			
7 beta-BHC									
1	100	4.936	4.936	0.000	8552150	0.005477			
2	100	6.118	6.119	-0.001	2973765	0.005762			
						RPD = 5.07			
11 delta-BHC									
1	100	5.174	5.174	0.000	19436072	0.005074			
2	100	6.781	6.782	-0.001	5671953	0.005097			
						RPD = 0.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	0.0	5.358	-5.358	0	0		100.0	
1	2	6.329	6.313	0.016	7612	0.000051	74.9- 114.9		
1	3	7.678	7.680	-0.002	19124331	0.0414	270.3- 310.3		
1	4	8.003	8.000	0.003	19466814	0.0264	445.3- 485.3		
			Average of Peak Amounts =			0.0226			
2	100	0.0	6.513	-6.513	0	0		100.0	
2	2	8.140	8.161	-0.021	30491	0.000623	75.1- 115.1		
2	3	9.453	9.455	-0.002	5633329	0.0413	248.0- 288.0		
2	4	9.750	9.751	-0.001	5754573	0.0422	250.7- 290.7		
			Average of Peak Amounts =			0.0281			
						RPD = 21.45			
22 Heptachlor									
1	100	5.483	5.484	-0.001	19925743	0.005358			
2	100	6.856	6.857	-0.001	6526693	0.005158			
						RPD = 3.81			
4 Aldrin									
1	100	5.986	5.987	-0.001	20466602	0.005229			
2	100	7.683	7.685	-0.002	6160341	0.005020			
						RPD = 4.08			
25 Isodrin									
1	100		6.641						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.361	7.361	0.000	19055552	0.005324			
2	100	9.068	9.070	-0.002	5739071	0.005272			
						RPD = 0.97			
21 gamma-Chlordane									
1	100	7.678	7.681	-0.003	19124331	0.005223			
2	100	9.453	9.456	-0.003	5633329	0.005194			
						RPD = 0.56			
6 alpha-Chlordane									
1	100	8.003	8.003	0.000	19466814	0.005285			
2	100	9.750	9.751	-0.001	5754573	0.005246			
						RPD = 0.74			
14 Endosulfan I									
1	100	8.261	8.263	-0.002	17527765	0.005359			
2	100	9.818	9.819	-0.001	5341859	0.005216			
						RPD = 2.72			
2 4,4'-DDE									
1	100	8.355	8.353	0.002	17663322	0.005130			
2	100	10.171	10.172	-0.001	5529634	0.005397			
						RPD = 5.06			
13 Dieldrin									
1	100	8.790	8.791	-0.001	18226075	0.005142			
2	100	10.327	10.328	-0.001	5724122	0.005017			
						RPD = 2.48			
17 Endrin									
1	100	9.225	9.226	-0.001	16983187	0.005258			
2	100	10.838	10.841	-0.003	5328332	0.005176			
						RPD = 1.57			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100	9.291	9.290	0.001	19871	0.1635			
2	100	11.008	10.995	0.013	73040	0.1121			
						RPD = 37.29			
1 4,4'-DDD									
1	100	9.568	9.565	0.003	11208966	0.005778			
2	100	11.156	11.156	0.000	3221038	0.005925			
						RPD = 2.51			
15 Endosulfan II									
1	100	9.658	9.657	0.001	18376835	0.005422			
2	100	11.204	11.204	0.000	5838977	0.005322			
						RPD = 1.86			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									1
1	100		9.782						
1	2		10.372						
1	3		10.942						
1	4		11.089						
1	5		11.345						
2	100		10.763						
2	2		11.345						
2	3		11.763						
2	4		12.276						
2	5		13.065						
3 4,4'-DDT									
1	100	10.065	10.061	0.004	12791494	0.005193			
2	100	11.633	11.633	0.000	3940408	0.005412			
						RPD = 4.12			
18 Endrin aldehyde									
1	100	10.424	10.424	0.000	12977951	0.005624			
2	100	11.756	11.758	-0.002	4138159	0.005403			
						RPD = 4.01			
28 Mirex									1
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.982	10.981	0.001	6757049	0.005794			
2	100	12.700	12.701	-0.001	2307124	0.005925			
						RPD = 2.24			
16 Endosulfan sulfate									
1	100	11.132	11.131	0.001	15182396	0.005470			
2	100	12.172	12.174	-0.002	4800131	0.005663			
						RPD = 3.46			
19 Endrin ketone									
1	100	11.529	11.529	0.000	17309759	0.005646			
2	100	12.926	12.927	-0.001	5634832	0.005773			
						RPD = 2.23			

Report Date: 04-Apr-2013 15:35:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040326.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.107	13.108	-0.001	15742846	0.005535			
2	100	14.651	14.651	0.000	6040068	0.005794			
						RPD = 4.58			

QC Flag Legend

Processing Flags
1 - Missing Peaks

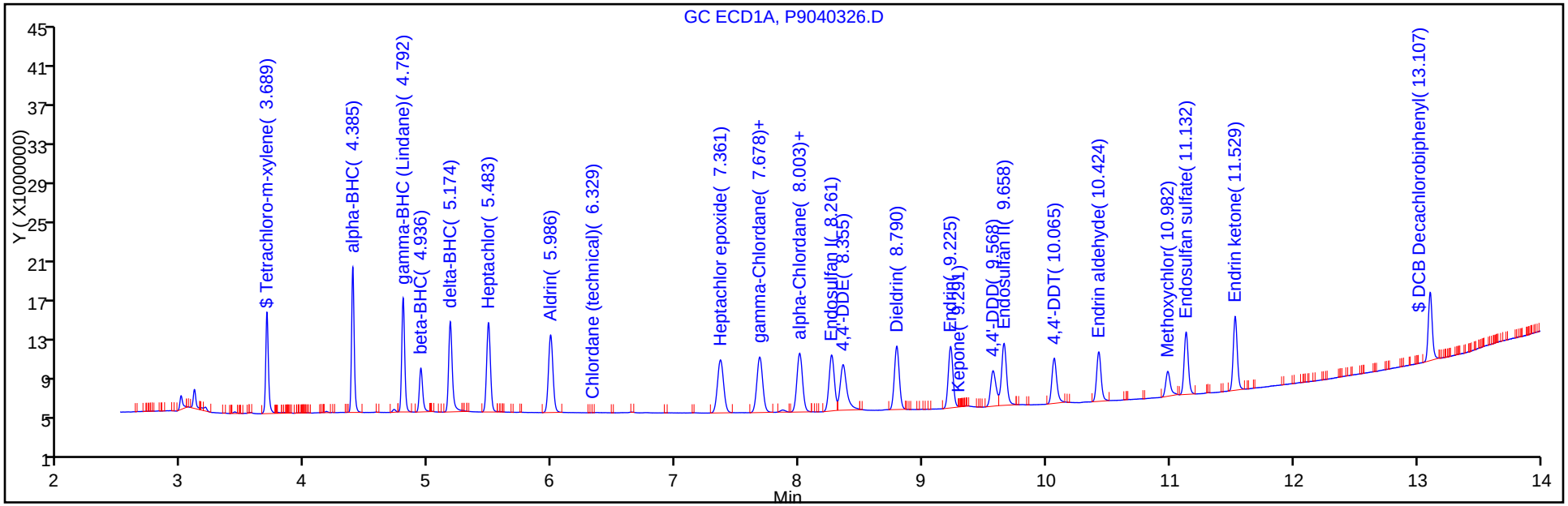
Report Date: 04-Apr-2013 15:35:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

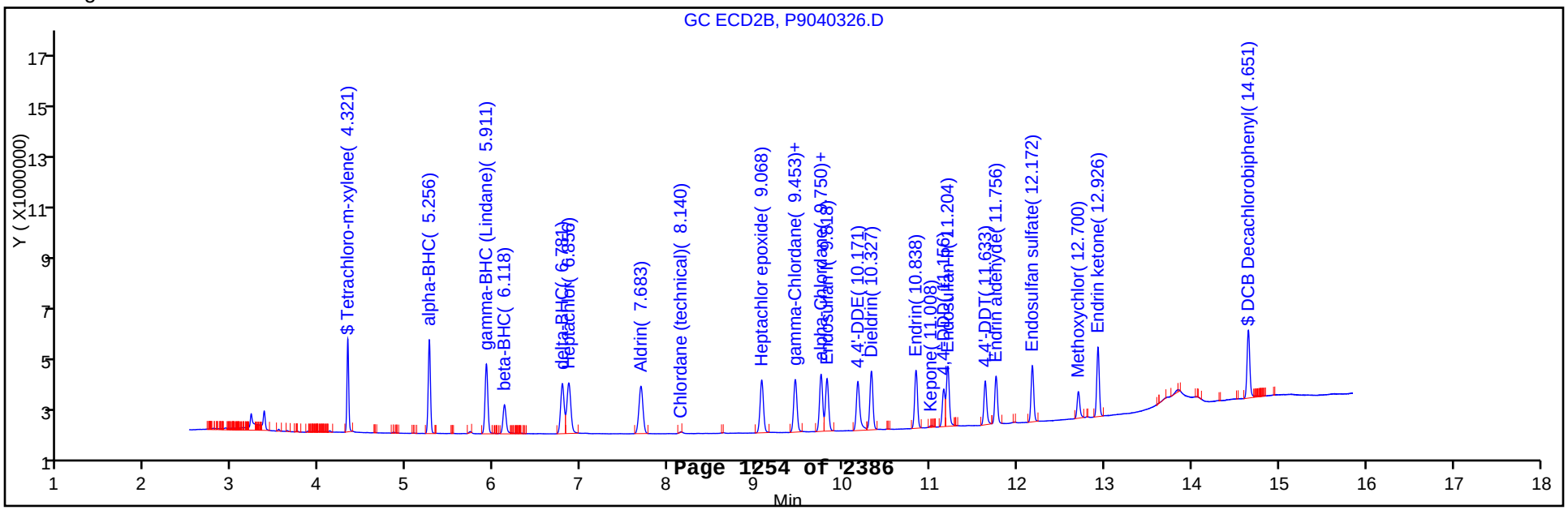
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040326.D

Injection Date:	04-Apr-2013 04:10:39	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	26
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS | Lab Sample ID: 240-22274-2 MS

Matrix: Solid | Lab File ID: P9040318.D

Analysis Method: 8081/DOD | Date Collected: 03/20/2013 11:30

Extraction Method: 3540C | Date Extracted: 04/01/2013 10:09

Sample wt/vol: 29.57(g) | Date Analyzed: 04/04/2013 00:27

Con. Extract Vol.: 10(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	64.9	J	5.5	1.8	1.7
72-55-9	4,4'-DDE	43.7		4.7	1.8	1.1
50-29-3	4,4'-DDT	47.4		5.5	1.8	1.7
309-00-2	Aldrin	41.4		11	3.7	3.3
319-84-6	alpha-BHC	40.7		6.9	3.7	2.0
5103-71-9	alpha-Chlordane	36.4		8.3	3.7	2.6
319-85-7	beta-BHC	43.7		9.6	3.7	3.0
319-86-8	delta-BHC	32.5		11	3.7	3.3
60-57-1	Dieldrin	40.5		4.7	1.8	1.3
959-98-8	Endosulfan I	37.2		4.7	1.8	1.4
33213-65-9	Endosulfan II	31.9		6.9	3.7	2.3
1031-07-8	Endosulfan sulfate	41.3		8.3	3.7	2.4
72-20-8	Endrin	37.2		4.7	1.8	1.4
7421-93-4	Endrin aldehyde	38.7		8.3	3.7	2.8
53494-70-5	Endrin ketone	41.7		5.5	1.8	1.7
58-89-9	gamma-BHC (Lindane)	36.9		6.9	3.7	2.0
5103-74-2	gamma-Chlordane	41.3		4.7	1.8	1.2
76-44-8	Heptachlor	34.8		9.6	3.7	3.0
1024-57-3	Heptachlor epoxide	40.3		6.9	3.7	2.2
72-43-5	Methoxychlor	48.4		14	9.1	4.1
8001-35-2	Toxaphene	55	U	180	55	52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	148	Q	55-130
877-09-8	Tetrachloro-m-xylene	126	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040318.D
Lims ID: 240-22274-E-2-F MS Client ID:
Inject. Date: 04-Apr-2013 00:27:41 Dil. Factor: 2.0000
Sample Type: MS
Sample ID: 240-0018512-018
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 80447 Lims Sample ID: 18
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:13 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 12:34:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	36454381	0.0126			
2	100	4.322	4.320	0.002	10346825	0.0106			
						RPD = 17.12			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100	4.385	4.384	0.001	196035398	0.0444			
2	100	5.257	5.254	0.003	71978871	0.0521			
						RPD = 16.03			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	155410046	0.0402			
2	100	5.913	5.909	0.004	55805595	0.0455			
						RPD = 12.44			
7 beta-BHC									
1	100	4.934	4.935	-0.001	74331551	0.0476			
2	100	6.119	6.117	0.002	25065871	0.0486			
						RPD = 2.00			
11 delta-BHC									
1	100	5.173	5.173	0.000	135593753	0.0354			
2	100	6.782	6.780	0.002	56222069	0.0505			
						RPD = 35.21			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									
1	100	5.482	5.482	0.000	140881116	0.0379			
2	100	6.858	6.854	0.004	48984310	0.0387			
						RPD = 2.16			
4 Aldrin									
1	100	5.986	5.984	0.002	176490984	0.0451			
2	100	7.685	7.683	0.002	62148426	0.0506			
						RPD = 11.60			
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.360	7.359	0.001	156919918	0.0438			
2	100	9.070	9.069	0.001	50947612	0.0468			
						RPD = 6.54			
21 gamma-Chlordane									
1	100	7.676	7.677	-0.001	164498724	0.0449			
2	100	9.455	9.453	0.002	52975227	0.0488			
						RPD = 8.36			
6 alpha-Chlordane									
1	100	8.000	7.999	0.001	146101775	0.0397			
2	100	9.750	9.748	0.002	51730765	0.0472			
						RPD = 17.27			
14 Endosulfan I									
1	100	8.261	8.260	0.001	132314255	0.0405			
2	100	9.819	9.817	0.002	44158524	0.0431			
						RPD = 6.36			
2 4,4'-DDE									
1	100	8.345	8.353	-0.008	163733121	0.0476			
2	100	10.170	10.173	-0.003	56503264	0.0551			
						RPD = 14.78			
13 Dieldrin									
1	100	8.789	8.787	0.002	156480468	0.0442			
2	100	10.329	10.326	0.003	52561553	0.0461			
						RPD = 4.24			
17 Endrin									
1	100	9.221	9.222	-0.001	130968767	0.0405			
2	100	10.840	10.838	0.002	50963791	0.0495			
						RPD = 19.89			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100	9.554	9.570	-0.016	137150238	0.0707			
2	100	11.151	11.159	-0.008	39048967	0.0718			
						RPD = 1.59			
15 Endosulfan II									
1	100	9.654	9.655	-0.001	117771039	0.0347			
2	100	11.205	11.202	0.003	39669483	0.0362			
						RPD = 3.97			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100	10.055	10.062	-0.007	127153009	0.0516			
2	100	11.631	11.633	-0.002	40120463	0.0551			
						RPD = 6.52			
18 Endrin aldehyde									
1	100	10.422	10.422	0.000	97370443	0.0422			
2	100	11.758	11.757	0.001	36864100	0.0481			
						RPD = 13.14			
28 Mirex									
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.973	10.984	-0.011	61514343	0.0527			
2	100	12.699	12.702	-0.003	22005654	0.0565			
						RPD = 6.90			
16 Endosulfan sulfate									
1	100	11.129	11.130	-0.001	124742515	0.0449			
2	100	12.173	12.173	0.000	43980596	0.0519			
						RPD = 14.34			
19 Endrin ketone									
1	100	11.526	11.527	-0.001	139144109	0.0454			
2	100	12.926	12.925	0.001	49178176	0.0504			
						RPD = 10.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.104	13.106	-0.002	42184922	0.0148			
2	100	14.651	14.650	0.001	10130088	0.009718			
						RPD = 41.66			

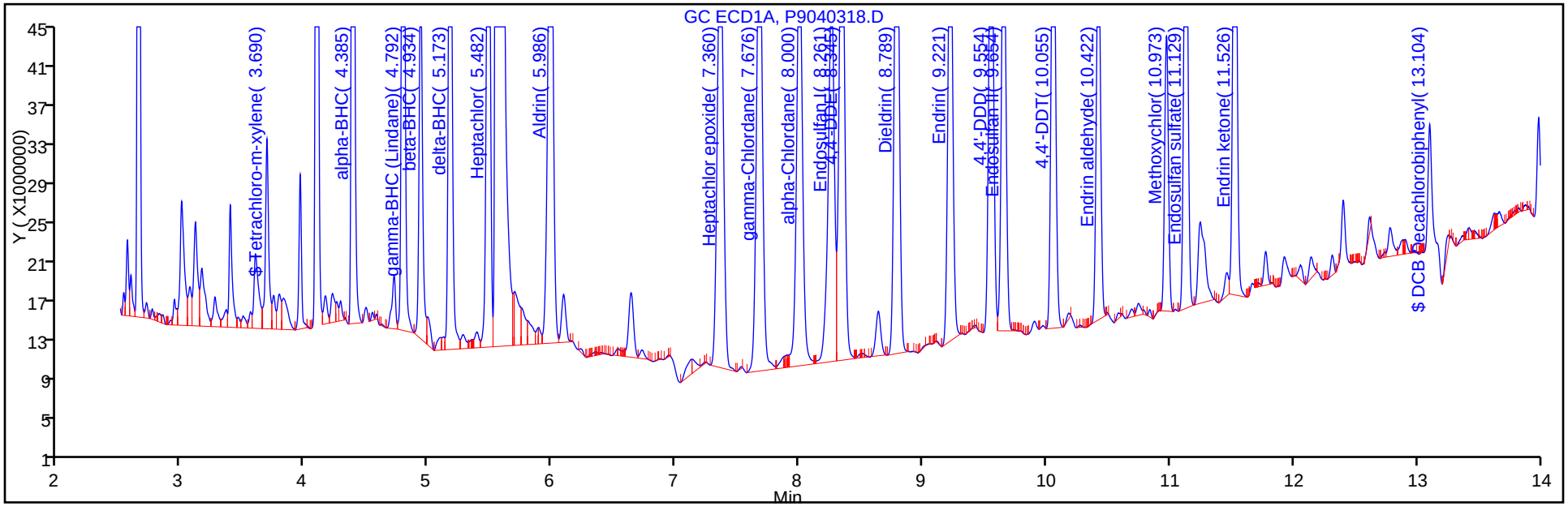
Report Date: 04-Apr-2013 15:32:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

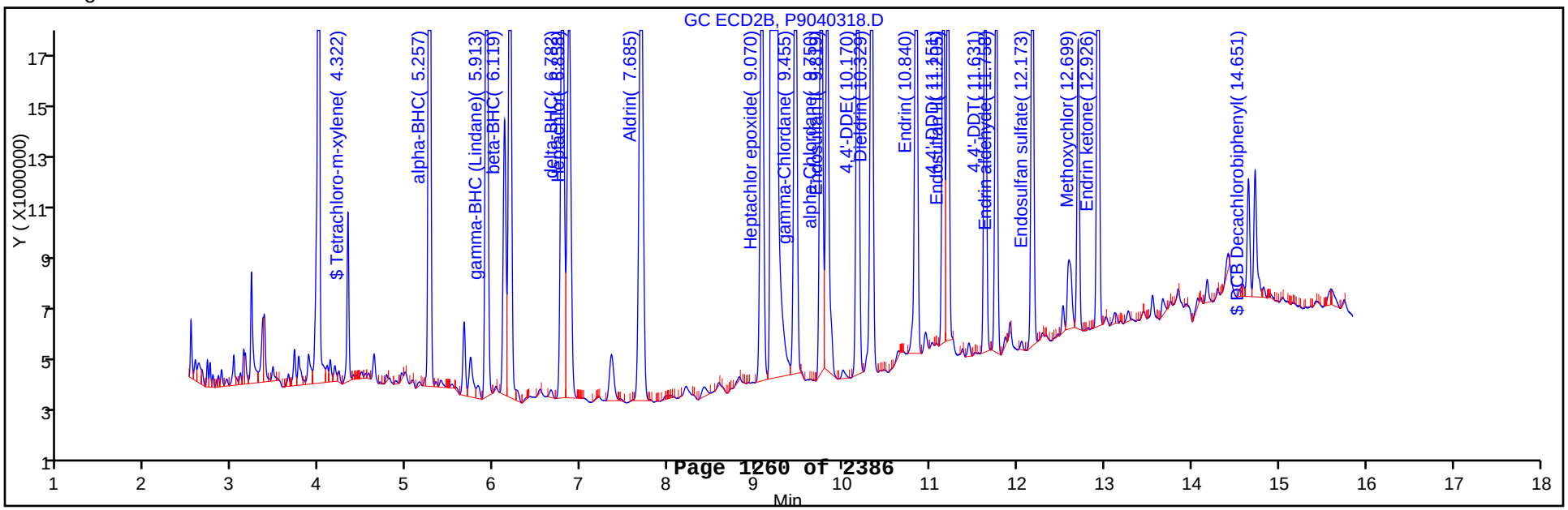
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040318.D

Injection Date:	04-Apr-2013 00:27:41	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	18
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS Lab Sample ID: 240-22274-2 MS

Matrix: Solid Lab File ID: P9040318.D

Analysis Method: 8081/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 04/01/2013 10:09

Sample wt/vol: 29.57(g) Date Analyzed: 04/04/2013 00:27

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	97		55-130
877-09-8	Tetrachloro-m-xylene	106		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040318.D
Lims ID: 240-22274-E-2-F MS Client ID:
Inject. Date: 04-Apr-2013 00:27:41 Dil. Factor: 2.0000
Sample Type: MS
Sample ID: 240-0018512-018
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 80447 Lims Sample ID: 18
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:13 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 12:34:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.690	3.689	0.001	36454381	0.0126			
2	100	4.322	4.320	0.002	10346825	0.0106			
						RPD = 17.12			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100	4.385	4.384	0.001	196035398	0.0444			
2	100	5.257	5.254	0.003	71978871	0.0521			
						RPD = 16.03			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	155410046	0.0402			
2	100	5.913	5.909	0.004	55805595	0.0455			
						RPD = 12.44			
7 beta-BHC									
1	100	4.934	4.935	-0.001	74331551	0.0476			
2	100	6.119	6.117	0.002	25065871	0.0486			
						RPD = 2.00			
11 delta-BHC									
1	100	5.173	5.173	0.000	135593753	0.0354			
2	100	6.782	6.780	0.002	56222069	0.0505			
						RPD = 35.21			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									
1	100	5.482	5.482	0.000	140881116	0.0379			
2	100	6.858	6.854	0.004	48984310	0.0387			
						RPD = 2.16			
4 Aldrin									
1	100	5.986	5.984	0.002	176490984	0.0451			
2	100	7.685	7.683	0.002	62148426	0.0506			
						RPD = 11.60			
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.360	7.359	0.001	156919918	0.0438			
2	100	9.070	9.069	0.001	50947612	0.0468			
						RPD = 6.54			
21 gamma-Chlordane									
1	100	7.676	7.677	-0.001	164498724	0.0449			
2	100	9.455	9.453	0.002	52975227	0.0488			
						RPD = 8.36			
6 alpha-Chlordane									
1	100	8.000	7.999	0.001	146101775	0.0397			
2	100	9.750	9.748	0.002	51730765	0.0472			
						RPD = 17.27			
14 Endosulfan I									
1	100	8.261	8.260	0.001	132314255	0.0405			
2	100	9.819	9.817	0.002	44158524	0.0431			
						RPD = 6.36			
2 4,4'-DDE									
1	100	8.345	8.353	-0.008	163733121	0.0476			
2	100	10.170	10.173	-0.003	56503264	0.0551			
						RPD = 14.78			
13 Dieldrin									
1	100	8.789	8.787	0.002	156480468	0.0442			
2	100	10.329	10.326	0.003	52561553	0.0461			
						RPD = 4.24			
17 Endrin									
1	100	9.221	9.222	-0.001	130968767	0.0405			
2	100	10.840	10.838	0.002	50963791	0.0495			
						RPD = 19.89			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100	9.554	9.570	-0.016	137150238	0.0707			
2	100	11.151	11.159	-0.008	39048967	0.0718			
						RPD = 1.59			
15 Endosulfan II									
1	100	9.654	9.655	-0.001	117771039	0.0347			
2	100	11.205	11.202	0.003	39669483	0.0362			
						RPD = 3.97			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100	10.055	10.062	-0.007	127153009	0.0516			
2	100	11.631	11.633	-0.002	40120463	0.0551			
						RPD = 6.52			
18 Endrin aldehyde									
1	100	10.422	10.422	0.000	97370443	0.0422			
2	100	11.758	11.757	0.001	36864100	0.0481			
						RPD = 13.14			
28 Mirex									
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.973	10.984	-0.011	61514343	0.0527			
2	100	12.699	12.702	-0.003	22005654	0.0565			
						RPD = 6.90			
16 Endosulfan sulfate									
1	100	11.129	11.130	-0.001	124742515	0.0449			
2	100	12.173	12.173	0.000	43980596	0.0519			
						RPD = 14.34			
19 Endrin ketone									
1	100	11.526	11.527	-0.001	139144109	0.0454			
2	100	12.926	12.925	0.001	49178176	0.0504			
						RPD = 10.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.104	13.106	-0.002	42184922	0.0148			
2	100	14.651	14.650	0.001	10130088	0.009718			
						RPD = 41.66			

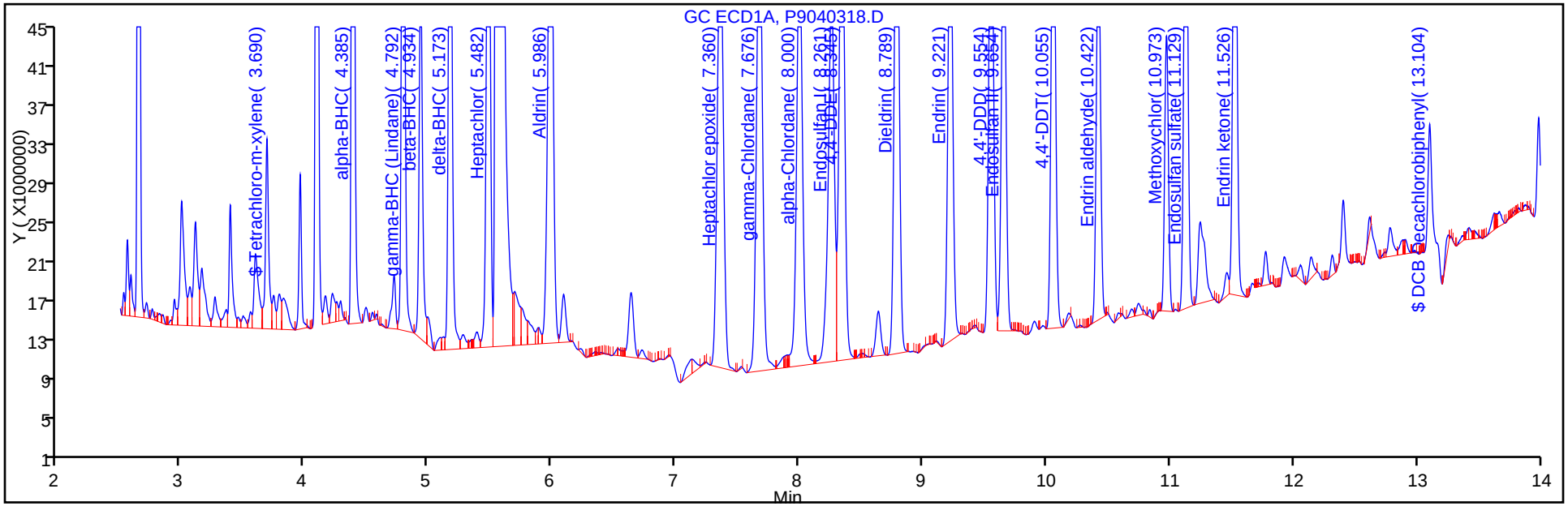
Report Date: 04-Apr-2013 15:32:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

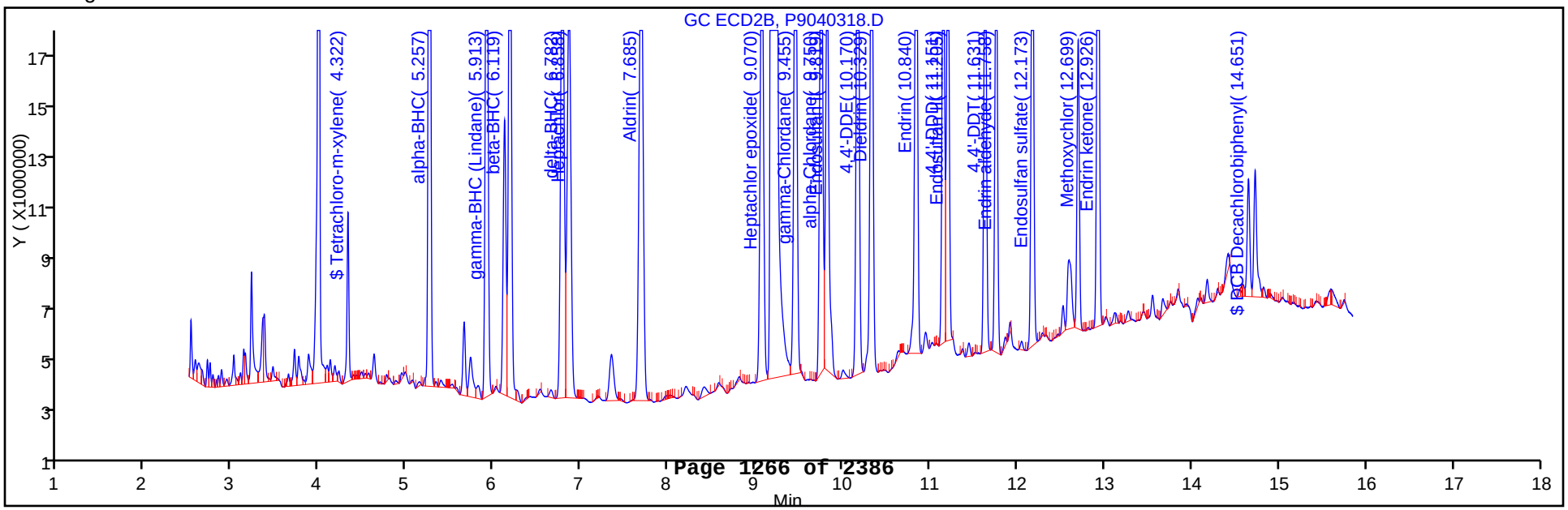
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040318.D

Injection Date:	04-Apr-2013 00:27:41	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	18
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD | Lab Sample ID: 240-22274-2 MSD

Matrix: Solid | Lab File ID: P9040319.D

Analysis Method: 8081/DOD | Date Collected: 03/20/2013 11:30

Extraction Method: 3540C | Date Extracted: 04/01/2013 10:09

Sample wt/vol: 29.80(g) | Date Analyzed: 04/04/2013 00:55

Con. Extract Vol.: 10(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-55-9	4,4'-DDE	36.9		4.6	1.8	1.1
50-29-3	4,4'-DDT	40.3		5.5	1.8	1.7
309-00-2	Aldrin	36.6		11	3.6	3.3
319-84-6	alpha-BHC	35.1		6.8	3.6	2.0
5103-71-9	alpha-Chlordane	31.3		8.2	3.6	2.6
319-85-7	beta-BHC	39.1		9.6	3.6	3.0
60-57-1	Dieldrin	35.2		4.6	1.8	1.3
959-98-8	Endosulfan I	33.4		4.6	1.8	1.4
33213-65-9	Endosulfan II	27.2		6.8	3.6	2.2
1031-07-8	Endosulfan sulfate	34.2		8.2	3.6	2.4
72-20-8	Endrin	30.0		4.6	1.8	1.4
7421-93-4	Endrin aldehyde	33.5		8.2	3.6	2.7
53494-70-5	Endrin ketone	34.7		5.5	1.8	1.7
58-89-9	gamma-BHC (Lindane)	31.8		6.8	3.6	2.0
5103-74-2	gamma-Chlordane	36.0		4.6	1.8	1.1
76-44-8	Heptachlor	32.2		9.6	3.6	3.0
1024-57-3	Heptachlor epoxide	35.4		6.8	3.6	2.2
72-43-5	Methoxychlor	40.8		14	9.0	4.1
8001-35-2	Toxaphene	55	U	180	55	52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	80		55-130
877-09-8	Tetrachloro-m-xylene	95		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040319.D
Lims ID: 240-22274-E-2-G MSD Client ID:
Inject. Date: 04-Apr-2013 00:55:27 Dil. Factor: 2.0000
Sample Type: MSD
Sample ID: 240-0018512-019
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 80447 Lims Sample ID: 19
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:13 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 12:34:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.691	3.689	0.002	27539191	0.009513			
2	100	4.322	4.320	0.002	10995666	0.0113			
						RPD = 16.93			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100	4.386	4.384	0.002	170051216	0.0385			
2	100	5.258	5.254	0.004	61511037	0.0445			
						RPD = 14.54			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	134884967	0.0349			
2	100	5.914	5.909	0.005	46554392	0.0380			
						RPD = 8.49			
7 beta-BHC									
1	100	4.935	4.935	0.000	66937611	0.0429			
2	100	6.120	6.117	0.003	21269979	0.0412			
						RPD = 3.94			
11 delta-BHC									
1	100	5.173	5.173	0.000	103450905	0.0270			
2	100	6.783	6.780	0.003	47415104	0.0426			
						RPD = 44.82			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									
1	100	5.482	5.482	0.000	131332804	0.0353			
2	100	6.860	6.854	0.006	42845797	0.0339			
						RPD = 4.21			
4 Aldrin									
1	100	5.986	5.984	0.002	157377860	0.0402			
2	100	7.687	7.683	0.004	53644220	0.0437			
						RPD = 8.36			
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.360	7.359	0.001	139061658	0.0389			
2	100	9.071	9.069	0.002	44495050	0.0409			
						RPD = 5.08			
21 gamma-Chlordane									
1	100	7.678	7.677	0.001	144756874	0.0395			
2	100	9.455	9.453	0.002	46005600	0.0424			
						RPD = 7.04			
6 alpha-Chlordane									
1	100	8.002	7.999	0.003	126350619	0.0343			
2	100	9.751	9.748	0.003	45057105	0.0411			
						RPD = 17.97			
14 Endosulfan I									
1	100	8.261	8.260	0.001	120005696	0.0367			
2	100	9.819	9.817	0.002	37613713	0.0367			
						RPD = 0.08			
2 4,4'-DDE									
1	100	8.346	8.353	-0.007	139478311	0.0405			
2	100	10.169	10.173	-0.004	47746248	0.0466			
						RPD = 13.98			
13 Dieldrin									
1	100	8.787	8.787	0.000	136979354	0.0386			
2	100	10.328	10.326	0.002	43800930	0.0384			
						RPD = 0.68			
17 Endrin									
1	100	9.221	9.222	-0.001	106430931	0.0329			
2	100	10.839	10.838	0.001	43055111	0.0418			
						RPD = 23.73			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100	9.551	9.570	-0.019	134221277	0.0692			
2	100	11.150	11.159	-0.009	33459189	0.0615			
						RPD = 11.69			
15 Endosulfan II									
1	100	9.655	9.655	0.000	101237273	0.0299			
2	100	11.204	11.202	0.002	36083915	0.0329			
						RPD = 9.62			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100	10.056	10.062	-0.006	108932271	0.0442			
2	100	11.631	11.633	-0.002	32907835	0.0452			
						RPD = 2.17			
18 Endrin aldehyde									
1	100	10.421	10.422	-0.001	84822877	0.0368			
2	100	11.758	11.757	0.001	29536750	0.0386			
						RPD = 4.80			
28 Mirex									
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.973	10.984	-0.011	52278962	0.0448			
2	100	12.699	12.702	-0.003	18357347	0.0471			
						RPD = 5.04			
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	104229415	0.0376			
2	100	12.174	12.173	0.001	36072491	0.0426			
						RPD = 12.49			
19 Endrin ketone									
1	100	11.527	11.527	0.000	116863968	0.0381			
2	100	12.926	12.925	0.001	41035075	0.0420			
						RPD = 9.80			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.105	13.106	-0.001	22795358	0.008015			
2	100	14.651	14.650	0.001	7602879	0.007293			
						RPD = 9.42			

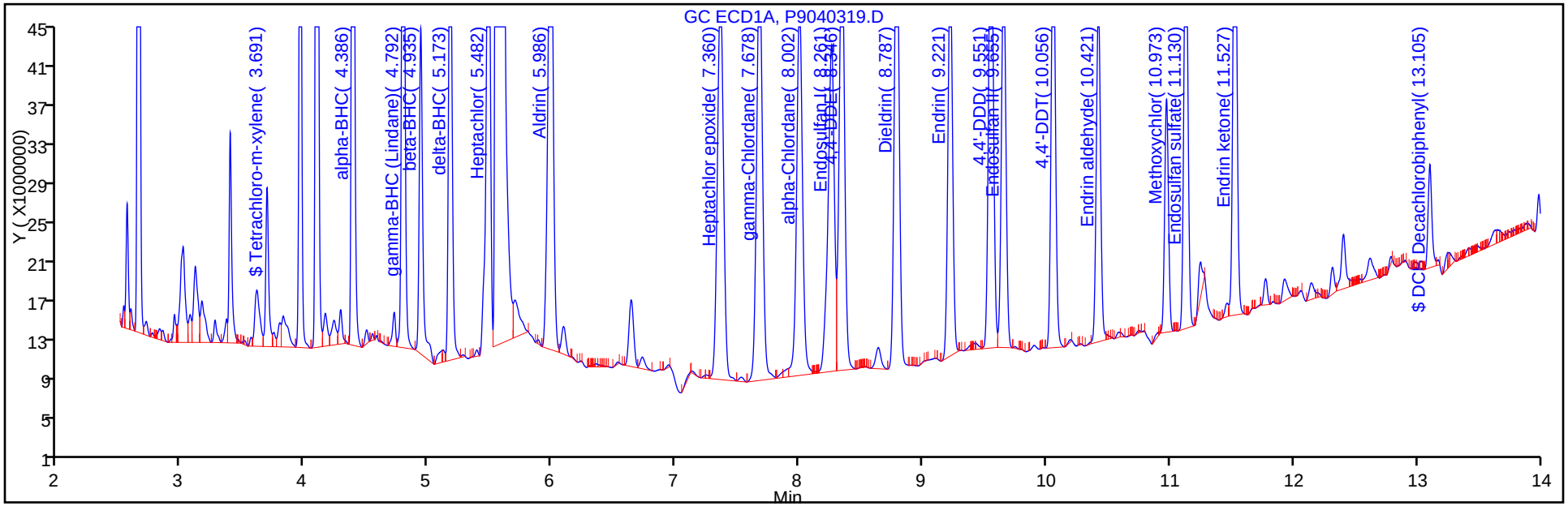
Report Date: 04-Apr-2013 15:32:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

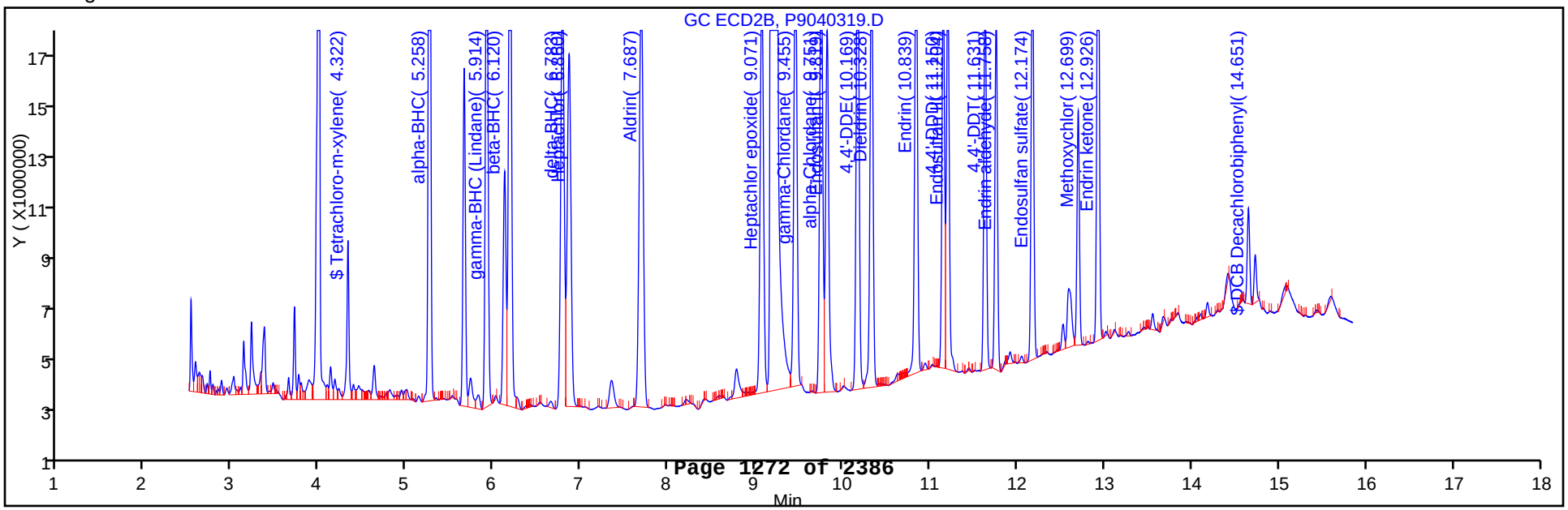
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040319.D

Injection Date:	04-Apr-2013 00:55:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	19
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD Lab Sample ID: 240-22274-2 MSD

Matrix: Solid Lab File ID: P9040319.D

Analysis Method: 8081/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 04/01/2013 10:09

Sample wt/vol: 29.80(g) Date Analyzed: 04/04/2013 00:55

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80447 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	56.1		5.5	1.8	1.7
319-86-8	delta-BHC	38.8		11	3.6	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	73		55-130
877-09-8	Tetrachloro-m-xylene	113		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040319.D
Lims ID: 240-22274-E-2-G MSD Client ID:
Inject. Date: 04-Apr-2013 00:55:27 Dil. Factor: 2.0000
Sample Type: MSD
Sample ID: 240-0018512-019
Misc. Info.:
Operator: 402582 Instrument ID: A2HP9
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 80447 Lims Sample ID: 19
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\PEST9.m
Last Update: 04-Apr-2013 15:32:13 Calib Date: 03-Apr-2013 20:44:27
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040310.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 04-Apr-2013 12:34:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.691	3.689	0.002	27539191	0.009513			
2	100	4.322	4.320	0.002	10995666	0.0113			
						RPD = 16.93			
12 Diallate									
1	100		3.947						
1	2		4.249						
2	100		4.623						
2	2		5.030						
24 Hexachlorobenzene									
1	100		4.167						
2	100		4.995						
5 alpha-BHC									
1	100	4.386	4.384	0.002	170051216	0.0385			
2	100	5.258	5.254	0.004	61511037	0.0445			
						RPD = 14.54			
20 gamma-BHC (Lindane)									
1	100	4.792	4.790	0.002	134884967	0.0349			
2	100	5.914	5.909	0.005	46554392	0.0380			
						RPD = 8.49			
7 beta-BHC									
1	100	4.935	4.935	0.000	66937611	0.0429			
2	100	6.120	6.117	0.003	21269979	0.0412			
						RPD = 3.94			
11 delta-BHC									
1	100	5.173	5.173	0.000	103450905	0.0270			
2	100	6.783	6.780	0.003	47415104	0.0426			
						RPD = 44.82			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.356						
1	2		6.309						
1	3		7.679						
1	4		7.999						
2	100		6.510						
2	2		8.157						
2	3		9.452						
2	4		9.747						
22 Heptachlor									
1	100	5.482	5.482	0.000	131332804	0.0353			
2	100	6.860	6.854	0.006	42845797	0.0339			
						RPD = 4.21			
4 Aldrin									
1	100	5.986	5.984	0.002	157377860	0.0402			
2	100	7.687	7.683	0.004	53644220	0.0437			
						RPD = 8.36			
25 Isodrin									
1	100		6.643						
2	100		8.627						
23 Heptachlor epoxide									
1	100	7.360	7.359	0.001	139061658	0.0389			
2	100	9.071	9.069	0.002	44495050	0.0409			
						RPD = 5.08			
21 gamma-Chlordane									
1	100	7.678	7.677	0.001	144756874	0.0395			
2	100	9.455	9.453	0.002	46005600	0.0424			
						RPD = 7.04			
6 alpha-Chlordane									
1	100	8.002	7.999	0.003	126350619	0.0343			
2	100	9.751	9.748	0.003	45057105	0.0411			
						RPD = 17.97			
14 Endosulfan I									
1	100	8.261	8.260	0.001	120005696	0.0367			
2	100	9.819	9.817	0.002	37613713	0.0367			
						RPD = 0.08			
2 4,4'-DDE									
1	100	8.346	8.353	-0.007	139478311	0.0405			
2	100	10.169	10.173	-0.004	47746248	0.0466			
						RPD = 13.98			
13 Dieldrin									
1	100	8.787	8.787	0.000	136979354	0.0386			
2	100	10.328	10.326	0.002	43800930	0.0384			
						RPD = 0.68			
17 Endrin									
1	100	9.221	9.222	-0.001	106430931	0.0329			
2	100	10.839	10.838	0.001	43055111	0.0418			
						RPD = 23.73			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		9.288						
2	100		10.997						
1 4,4'-DDD									
1	100	9.551	9.570	-0.019	134221277	0.0692			
2	100	11.150	11.159	-0.009	33459189	0.0615			
						RPD = 11.69			
15 Endosulfan II									
1	100	9.655	9.655	0.000	101237273	0.0299			
2	100	11.204	11.202	0.002	36083915	0.0329			
						RPD = 9.62			
9 Chlorobenzilate									
1	100		9.686						
2	100		11.035						
30 Toxaphene									
1	100		9.781						
1	2		10.371						
1	3		10.941						
1	4		11.088						
1	5		11.346						
2	100		10.761						
2	2		11.344						
2	3		11.760						
2	4		12.276						
2	5		13.062						
3 4,4'-DDT									
1	100	10.056	10.062	-0.006	108932271	0.0442			
2	100	11.631	11.633	-0.002	32907835	0.0452			
						RPD = 2.17			
18 Endrin aldehyde									
1	100	10.421	10.422	-0.001	84822877	0.0368			
2	100	11.758	11.757	0.001	29536750	0.0386			
						RPD = 4.80			
28 Mirex									
1	100		10.476						
2	100		12.377						
27 Methoxychlor									
1	100	10.973	10.984	-0.011	52278962	0.0448			
2	100	12.699	12.702	-0.003	18357347	0.0471			
						RPD = 5.04			
16 Endosulfan sulfate									
1	100	11.130	11.130	0.000	104229415	0.0376			
2	100	12.174	12.173	0.001	36072491	0.0426			
						RPD = 12.49			
19 Endrin ketone									
1	100	11.527	11.527	0.000	116863968	0.0381			
2	100	12.926	12.925	0.001	41035075	0.0420			
						RPD = 9.80			

Report Date: 04-Apr-2013 15:32:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040319.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	13.105	13.106	-0.001	22795358	0.008015			
2	100	14.651	14.650	0.001	7602879	0.007293			
						RPD = 9.42			

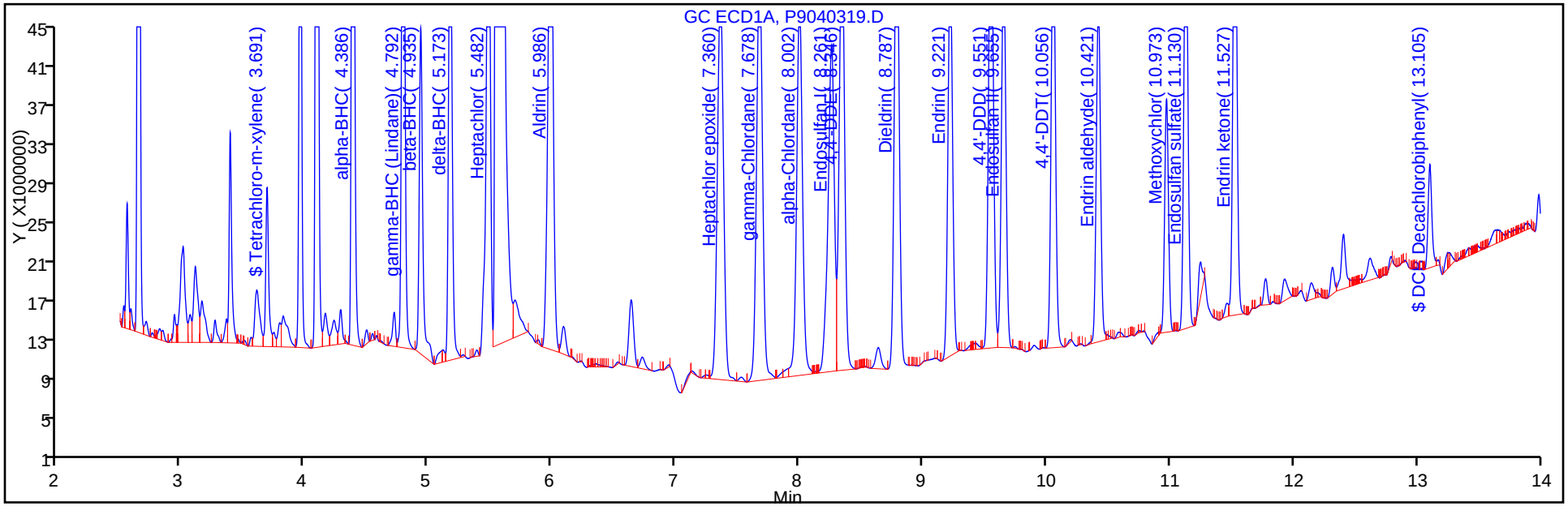
Report Date: 04-Apr-2013 15:32:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

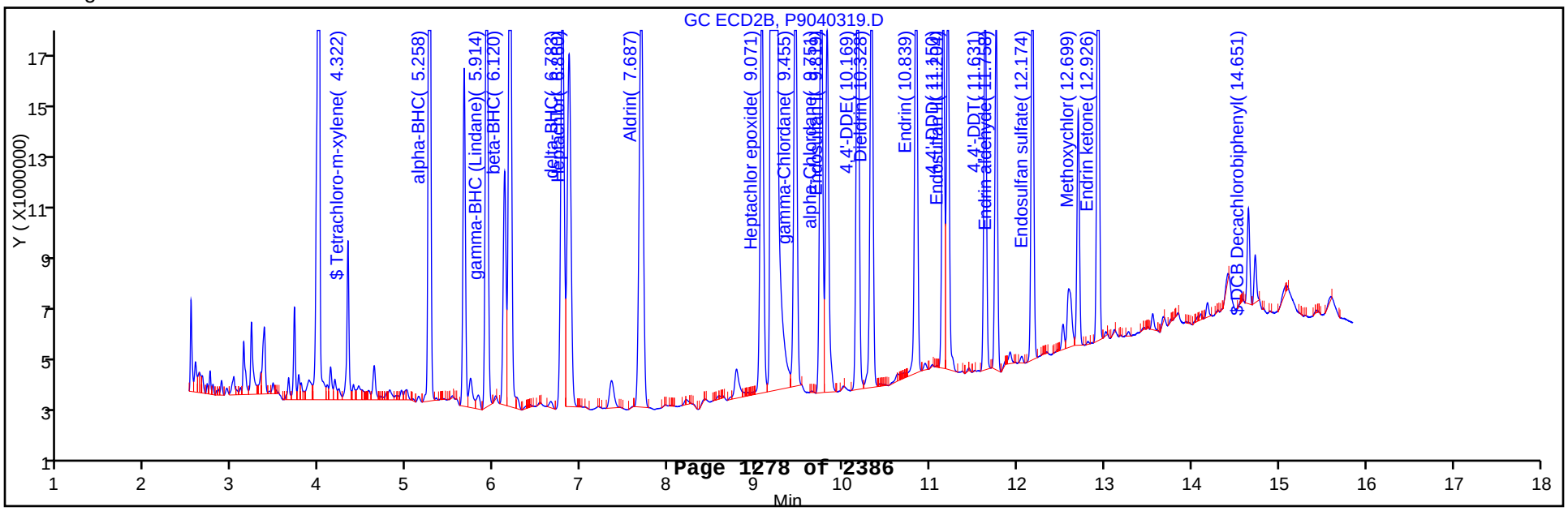
Data File: \\Ncchrom\ChromData\A2HP9\20130403-18512.b\P9040319.D

Injection Date:	04-Apr-2013 00:55:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP9
Lims Batch ID:	80447	Lims Sample ID:	19
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Start Date: 03/06/2013 02:33

Analysis Batch Number: 77220 End Date: 03/06/2013 16:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-77220/4		03/06/2013 02:33	1		CLP-1 0.53(mm)
PEM 240-77220/4		03/06/2013 02:33	1		CLP-2 0.53(mm)
STD 240-77220/5 IC		03/06/2013 03:02	1		CLP-1 0.53(mm)
STD 240-77220/5 IC		03/06/2013 03:02	1		CLP-2 0.53(mm)
STD 240-77220/6 IC		03/06/2013 03:30	1		CLP-1 0.53(mm)
STD 240-77220/6 IC		03/06/2013 03:30	1		CLP-2 0.53(mm)
STD 240-77220/7 ICRT		03/06/2013 03:58	1		CLP-1 0.53(mm)
STD 240-77220/7 ICRT		03/06/2013 03:58	1		CLP-2 0.53(mm)
STD 240-77220/8 IC		03/06/2013 04:27	1		CLP-1 0.53(mm)
STD 240-77220/8 IC		03/06/2013 04:27	1		CLP-2 0.53(mm)
STD 240-77220/9 IC		03/06/2013 04:55	1		CLP-1 0.53(mm)
STD 240-77220/9 IC		03/06/2013 04:55	1		CLP-2 0.53(mm)
STD 240-77220/10 IC		03/06/2013 05:23	1		CLP-1 0.53(mm)
STD 240-77220/10 IC		03/06/2013 05:23	1		CLP-2 0.53(mm)
ICV 240-77220/11		03/06/2013 05:50	1		CLP-1 0.53(mm)
ICV 240-77220/11		03/06/2013 05:50	1		CLP-2 0.53(mm)
STD 240-77220/12 IC		03/06/2013 06:18	1	P9030612.D	CLP-1 0.53(mm)
STD 240-77220/12 IC		03/06/2013 06:18	1	P9030612.D	CLP-2 0.53(mm)
STD 240-77220/13 IC		03/06/2013 06:46	1	P9030613.D	CLP-1 0.53(mm)
STD 240-77220/13 IC		03/06/2013 06:46	1	P9030613.D	CLP-2 0.53(mm)
STD 240-77220/14 IC		03/06/2013 07:14	1	P9030614.D	CLP-1 0.53(mm)
STD 240-77220/14 IC		03/06/2013 07:14	1	P9030614.D	CLP-2 0.53(mm)
STD 240-77220/15 IC		03/06/2013 07:42	1	P9030615.D	CLP-1 0.53(mm)
STD 240-77220/15 IC		03/06/2013 07:42	1	P9030615.D	CLP-2 0.53(mm)
STD 240-77220/16 IC		03/06/2013 08:10	1	P9030616.D	CLP-1 0.53(mm)
STD 240-77220/16 IC		03/06/2013 08:10	1	P9030616.D	CLP-2 0.53(mm)
ICV 240-77220/17		03/06/2013 08:38	1	P9030617.D	CLP-1 0.53(mm)
ICV 240-77220/17		03/06/2013 08:38	1	P9030617.D	CLP-2 0.53(mm)
STD 240-77220/18 IC		03/06/2013 09:06	1		CLP-1 0.53(mm)
STD 240-77220/18 IC		03/06/2013 09:06	1		CLP-2 0.53(mm)
STD 240-77220/19 IC		03/06/2013 09:33	1		CLP-1 0.53(mm)
STD 240-77220/19 IC		03/06/2013 09:33	1		CLP-2 0.53(mm)
STD 240-77220/20 IC		03/06/2013 10:01	1		CLP-1 0.53(mm)
STD 240-77220/20 IC		03/06/2013 10:01	1		CLP-2 0.53(mm)
STD 240-77220/21 IC		03/06/2013 10:29	1		CLP-1 0.53(mm)
STD 240-77220/21 IC		03/06/2013 10:29	1		CLP-2 0.53(mm)
STD 240-77220/22 IC		03/06/2013 10:57	1		CLP-1 0.53(mm)
STD 240-77220/22 IC		03/06/2013 10:57	1		CLP-2 0.53(mm)
ICV 240-77220/23		03/06/2013 11:25	1		CLP-1 0.53(mm)
ICV 240-77220/23		03/06/2013 11:25	1		CLP-2 0.53(mm)
PEM 240-77220/24		03/06/2013 11:53	1		CLP-1 0.53(mm)
PEM 240-77220/24		03/06/2013 11:53	1		CLP-2 0.53(mm)
ZZZZZ		03/06/2013 12:21	1		CLP-1 0.53(mm)
ZZZZZ		03/06/2013 12:21	1		CLP-2 0.53(mm)
ZZZZZ		03/06/2013 12:49	1		CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Start Date: 03/06/2013 02:33

Analysis Batch Number: 77220 End Date: 03/06/2013 16:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/06/2013 12:49	1		CLP-2 0.53(mm)
ZZZZZ		03/06/2013 13:17	1		CLP-1 0.53(mm)
ZZZZZ		03/06/2013 13:17	1		CLP-2 0.53(mm)
ZZZZZ		03/06/2013 13:46	1		CLP-1 0.53(mm)
ZZZZZ		03/06/2013 13:46	1		CLP-2 0.53(mm)
ZZZZZ		03/06/2013 14:14	5		CLP-1 0.53(mm)
ZZZZZ		03/06/2013 14:14	5		CLP-2 0.53(mm)
CCV 240-77220/30		03/06/2013 14:42	1		CLP-1 0.53(mm)
CCV 240-77220/30		03/06/2013 14:42	1		CLP-2 0.53(mm)
CCV 240-77220/31		03/06/2013 15:11	1		CLP-1 0.53(mm)
CCV 240-77220/31		03/06/2013 15:11	1		CLP-2 0.53(mm)
CCV 240-77220/32		03/06/2013 15:39	1		CLP-1 0.53(mm)
CCV 240-77220/32		03/06/2013 15:39	1		CLP-2 0.53(mm)
ZZZZZ		03/06/2013 16:07	1		CLP-1 0.53(mm)
ZZZZZ		03/06/2013 16:07	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP9 Start Date: 04/03/2013 17:56

Analysis Batch Number: 80447 End Date: 04/04/2013 04:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-80447/4		04/03/2013 17:56	1	P9040304.D	CLP-1 0.53(mm)
PEM 240-80447/4		04/03/2013 17:56	1	P9040304.D	CLP-2 0.53(mm)
STD 240-80447/5 IC		04/03/2013 18:24	1	P9040305.D	CLP-1 0.53(mm)
STD 240-80447/5 IC		04/03/2013 18:24	1	P9040305.D	CLP-2 0.53(mm)
STD 240-80447/6 IC		04/03/2013 18:52	1	P9040306.D	CLP-1 0.53(mm)
STD 240-80447/6 IC		04/03/2013 18:52	1	P9040306.D	CLP-2 0.53(mm)
STD 240-80447/7 ICRT		04/03/2013 19:20	1	P9040307.D	CLP-1 0.53(mm)
STD 240-80447/7 ICRT		04/03/2013 19:20	1	P9040307.D	CLP-2 0.53(mm)
STD 240-80447/8 IC		04/03/2013 19:48	1	P9040308.D	CLP-1 0.53(mm)
STD 240-80447/8 IC		04/03/2013 19:48	1	P9040308.D	CLP-2 0.53(mm)
STD 240-80447/9 IC		04/03/2013 20:16	1	P9040309.D	CLP-1 0.53(mm)
STD 240-80447/9 IC		04/03/2013 20:16	1	P9040309.D	CLP-2 0.53(mm)
STD 240-80447/10 IC		04/03/2013 20:44	1	P9040310.D	CLP-1 0.53(mm)
STD 240-80447/10 IC		04/03/2013 20:44	1	P9040310.D	CLP-2 0.53(mm)
ICV 240-80447/11		04/03/2013 21:12	1	P9040311.D	CLP-1 0.53(mm)
ICV 240-80447/11		04/03/2013 21:12	1	P9040311.D	CLP-2 0.53(mm)
CCV 240-80447/12		04/03/2013 21:39	1	P9040312.D	CLP-1 0.53(mm)
CCV 240-80447/12		04/03/2013 21:39	1	P9040312.D	CLP-2 0.53(mm)
MRL 240-80447/15		04/03/2013 23:03	1	P9040315.D	CLP-1 0.53(mm)
MRL 240-80447/15		04/03/2013 23:03	1	P9040315.D	CLP-2 0.53(mm)
240-22274-2	079SD-0309-0001-SD	04/03/2013 23:59	2	P9040317.D	CLP-1 0.53(mm)
240-22274-2	079SD-0309-0001-SD	04/03/2013 23:59	2	P9040317.D	CLP-2 0.53(mm)
240-22274-2 MS	079SD-0309-0001-SD MS	04/04/2013 00:27	2	P9040318.D	CLP-1 0.53(mm)
240-22274-2 MS	079SD-0309-0001-SD MS	04/04/2013 00:27	2	P9040318.D	CLP-2 0.53(mm)
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/04/2013 00:55	2	P9040319.D	CLP-1 0.53(mm)
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/04/2013 00:55	2	P9040319.D	CLP-2 0.53(mm)
MB 240-80060/15-A		04/04/2013 01:23	1	P9040320.D	CLP-1 0.53(mm)
MB 240-80060/15-A		04/04/2013 01:23	1	P9040320.D	CLP-2 0.53(mm)
LCS 240-80060/16-A		04/04/2013 01:51	1	P9040321.D	CLP-1 0.53(mm)
LCS 240-80060/16-A		04/04/2013 01:51	1	P9040321.D	CLP-2 0.53(mm)
CCV 240-80447/22		04/04/2013 02:19	1	P9040322.D	CLP-1 0.53(mm)
CCV 240-80447/22		04/04/2013 02:19	1	P9040322.D	CLP-2 0.53(mm)
CCV 240-80447/25		04/04/2013 03:42	1	P9040325.D	CLP-1 0.53(mm)
CCV 240-80447/25		04/04/2013 03:42	1	P9040325.D	CLP-2 0.53(mm)
MRL 240-80447/26		04/04/2013 04:10	1	P9040326.D	CLP-1 0.53(mm)
MRL 240-80447/26		04/04/2013 04:10	1	P9040326.D	CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80060 Batch Start Date: 04/01/13 15:30 Batch Analyst: Moore, Matthew

Batch Method: 3540C Batch End Date: 04/02/13 07:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX2/.2SURRW 00022	EXPSTNPDESSPW 00012	AnalysisComment	
240-22274-E-2	079SD-0309-0001-SD	3540C, 8081/DOD	T	29.74 g	10 mL	1 mL			
240-22274-E-2 MS	079SD-0309-0001-SD	3540C, 8081/DOD	T	29.57 g	10 mL	1 mL	1 mL		
240-22274-E-2 MSD	079SD-0309-0001-SD	3540C, 8081/DOD	T	29.80 g	10 mL	1 mL	1 mL		
MB 240-80060/15		3540C, 8081/DOD		30.00 g	10 mL	1 mL		Assoc w/ 240-80101	
LCS 240-80060/16		3540C, 8081/DOD		30.00 g	10 mL	1 mL	1 mL		

Batch Notes	
Balance ID	b036
Exchange Solvent Lot #	804968
Na2SO4 Lot Number	857446
Prep Solvent Lot #	908886

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082 DOD

Polychlorinated Biphenyls (PCBs) by Gas Chromatography by Method 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079SD-0309-0001-SD	240-22274-2	80	74	62	78
	MB 240-79894/23-A	68	66	62	70
	LCS 240-79894/24-A	86	73	74	74
079SD-0309-0001-SD MS	240-22274-2 MS	78	78	66	80
079SD-0309-0001-SD MSD	240-22274-2 MSD	77	79	54 Q	66

	QC LIMITS
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	60-125

Column to be used to flag recovery values

FORM II 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-80431/4	110	113	108	111
	MRL 240-80431/11	116	118	143 Q	131 Q

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8082/DOD

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1200009.D

Lab ID: LCS 240-79894/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	333	245	73	40-140	
Aroclor-1260	333	260	78	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1200004.D

Lab ID: MRL 240-80431/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0559	112	70-130	
Aroclor-1016	0.0500	0.0549	110	70-130	
Aroclor-1260	0.0500	0.0519	104	70-130	
Aroclor-1260	0.0500	0.0495 J	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1200011.D

Lab ID: MRL 240-80431/11 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0582	116	70-130	
Aroclor-1016	0.0500	0.0555	111	70-130	
Aroclor-1260	0.0500	0.0545	109	70-130	
Aroclor-1260	0.0500	0.0510	102	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1200006.D

Lab ID: 240-22274-2 MS Client ID: 079SD-0309-0001-SD MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Aroclor-1016	450	33 U	352	78	40-140	
Aroclor-1260	450	33 U	352	78	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1200007.D

Lab ID: 240-22274-2 MSD Client ID: 079SD-0309-0001-SD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Aroclor-1016	449	336	75	5	30	40-140	
Aroclor-1260	449	299	67	16	30	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: MB 240-79894/23-A

Matrix: Solid Date Extracted: 03/29/2013 08:45

Lab File ID:(1) P1200008.D Lab File ID:(2) P1200008.D

Date Analyzed:(1) 04/03/2013 14:28 Date Analyzed:(2) 04/03/2013 14:28

Instrument ID:(1) A2HP12 Instrument ID:(2) A2HP12

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SD-0309-0001-SD	240-22274-2	04/03/2013 13:45	04/03/2013 13:45
079SD-0309-0001-SD MS	240-22274-2 MS	04/03/2013 13:59	04/03/2013 13:59
079SD-0309-0001-SD MSD	240-22274-2 MSD	04/03/2013 14:13	04/03/2013 14:13
	LCS 240-79894/24-A	04/03/2013 14:42	04/03/2013 14:42

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: CCV 240-80431/3 Date Analyzed: 04/03/2013 13:16

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1200003.D Heated Purge: (Y/N) N

Calibration ID: 14302

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.30	6.68	
UPPER LIMIT				1.40	6.78	
LOWER LIMIT				1.20	6.58	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-80431/3 CCVRT		04/03/2013 13:16	P1200003.D	1.30	6.68	
240-22274-2	079SD-0309-0001-SD	04/03/2013 13:45	P1200005.D	1.30	6.68	
240-22274-2 MS	079SD-0309-0001-SD MS	04/03/2013 13:59	P1200006.D	1.30	6.68	
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/03/2013 14:13	P1200007.D	1.30	6.69	
MB 240-79894/23-A		04/03/2013 14:28	P1200008.D	1.30	6.68	
LCS 240-79894/24-A		04/03/2013 14:42	P1200009.D	1.30	6.68	
CCV 240-80431/10		04/03/2013 14:56	P1200010.D	1.30	6.68	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Sample No.: CCV 240-80431/3 Date Analyzed: 04/03/2013 13:16

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1200003.D Heated Purge: (Y/N) N

Calibration ID: 14303

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.67	7.84	
UPPER LIMIT				1.77	7.94	
LOWER LIMIT				1.57	7.74	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-80431/3 CCVRT		04/03/2013 13:16	P1200003.D	1.67	7.84	
240-22274-2	079SD-0309-0001-SD	04/03/2013 13:45	P1200005.D	1.67	7.84	
240-22274-2 MS	079SD-0309-0001-SD MS	04/03/2013 13:59	P1200006.D	1.67	7.84	
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/03/2013 14:13	P1200007.D	1.67	7.84	
MB 240-79894/23-A		04/03/2013 14:28	P1200008.D	1.67	7.84	
LCS 240-79894/24-A		04/03/2013 14:42	P1200009.D	1.67	7.84	
CCV 240-80431/10		04/03/2013 14:56	P1200010.D	1.67	7.84	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS Lab Sample ID: 240-22274-2 MS

Instrument ID (1): A2HP12 Instrument ID (2): A2HP12

Date Analyzed (1): 04/03/2013 13:59 Date Analyzed (2): 04/03/2013 13:59

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.14	2.09	2.19	329	325	8.1
		2	2.54	2.49	2.59	348		
		3	2.99	2.94	3.04	368		
		4	3.13	3.08	3.18	298		
		5	3.62	3.57	3.67	280		
	2	1	1.58	1.53	1.63	330	352	
		2	1.87	1.82	1.92	365		
		3	2.27	2.22	2.32	371		
		4	2.39	2.34	2.44	363		
		5	2.78	2.73	2.83	331		
Aroclor-1260	1	1	4.95	4.90	5.00	340	341	3.0
		2	5.18	5.13	5.23	329		
		3	5.55	5.50	5.60	348		
		4	6.23	6.18	6.28	362		
		5	6.61	6.56	6.66	329		
	2	1	3.98	3.93	4.03	334	352	
		2	4.27	4.22	4.32	346		
		3	4.55	4.50	4.60	357		
		4	5.25	5.20	5.30	363		
		5	5.53	5.48	5.58	360		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD Lab Sample ID: 240-22274-2 MSD

Instrument ID (1): A2HP12 Instrument ID (2): A2HP12

Date Analyzed (1): 04/03/2013 14:13 Date Analyzed (2): 04/03/2013 14:13

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.14	2.09	2.19	324	324	3.6
		2	2.54	2.49	2.59	350		
		3	2.99	2.94	3.04	362		
		4	3.13	3.08	3.18	303		
		5	3.62	3.57	3.67	282		
	2	1	1.58	1.53	1.63	328	336	
		2	1.87	1.82	1.92	357		
		3	2.27	2.22	2.32	357		
		4	2.39	2.34	2.44	340		
		5	2.78	2.73	2.83	298		
Aroclor-1260	1	1	4.95	4.90	5.00	262	254	16.4
		2	5.18	5.13	5.23	257		
		3	5.55	5.50	5.60	250		
		4	6.23	6.18	6.28	261		
		5	6.61	6.56	6.66	240		
	2	1	3.98	3.93	4.03	292	299	
		2	4.27	4.22	4.32	291		
		3	4.55	4.50	4.60	300		
		4	5.25	5.20	5.30	301		
		5	5.53	5.48	5.58	312		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-79894/24-A

Instrument ID (1): A2HP12 Instrument ID (2): A2HP12

Date Analyzed (1): 04/03/2013 14:42 Date Analyzed (2): 04/03/2013 14:42

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.14	2.09	2.19	226	241	1.4
		2	2.54	2.49	2.59	256		
		3	2.99	2.94	3.04	272		
		4	3.13	3.08	3.18	225		
		5	3.62	3.57	3.67	229		
	2	1	1.58	1.53	1.63	232	245	
		2	1.87	1.82	1.92	250		
		3	2.27	2.22	2.32	261		
		4	2.39	2.34	2.44	256		
		5	2.78	2.73	2.83	225		
Aroclor-1260	1	1	4.95	4.90	5.00	270	259	0.4
		2	5.18	5.13	5.23	249		
		3	5.55	5.50	5.60	260		
		4	6.23	6.18	6.28	270		
		5	6.61	6.56	6.66	249		
	2	1	3.98	3.93	4.03	256	260	
		2	4.27	4.22	4.32	252		
		3	4.55	4.50	4.60	263		
		4	5.25	5.20	5.30	271		
		5	5.53	5.48	5.58	260		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: P1200005.D

Analysis Method: 8082/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.65(g) Date Analyzed: 04/03/2013 13:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	33	U	66	33	21
12674-11-2	Aroclor-1016	33	U	86	33	28
11141-16-5	Aroclor-1232	33	U	60	33	19
53469-21-9	Aroclor-1242	33	U	53	33	17
12672-29-6	Aroclor-1248	33	U	73	33	23
11097-69-1	Aroclor-1254	33	U	73	33	23
11096-82-5	Aroclor-1260	33	U	73	33	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		40-140
2051-24-3	DCB Decachlorobiphenyl	78		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200005.D		
Lims ID:	240-22274-E-2-B	Client ID:	079SD-0309-0001-SD
Inject. Date:	03-Apr-2013 13:45:10	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018511-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	80431	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:10:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.300	1.299	0.001	14524151	0.0148			
2	2	1.671	1.672	-0.001	42658278	0.0160			
						RPD = 7.62			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100		1.578						
1	2		1.869						
1	3		2.268						
1	4		2.392						
1	5		2.776						
2	6		2.138						
2	7		2.538						
2	8		2.993						
2	9		3.131						
2	10		3.618						
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.982						
1	2		4.271						
1	3		4.548						
1	4		5.249						
1	5		5.532						
2	6		4.948						
2	7		5.180						
2	8		5.546						
2	9		6.230						
2	10		6.608						
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.684	6.683	0.001	15943344	0.0156			
2	2	7.840	7.838	0.002	36841024	0.0125			
						RPD = 22.63			

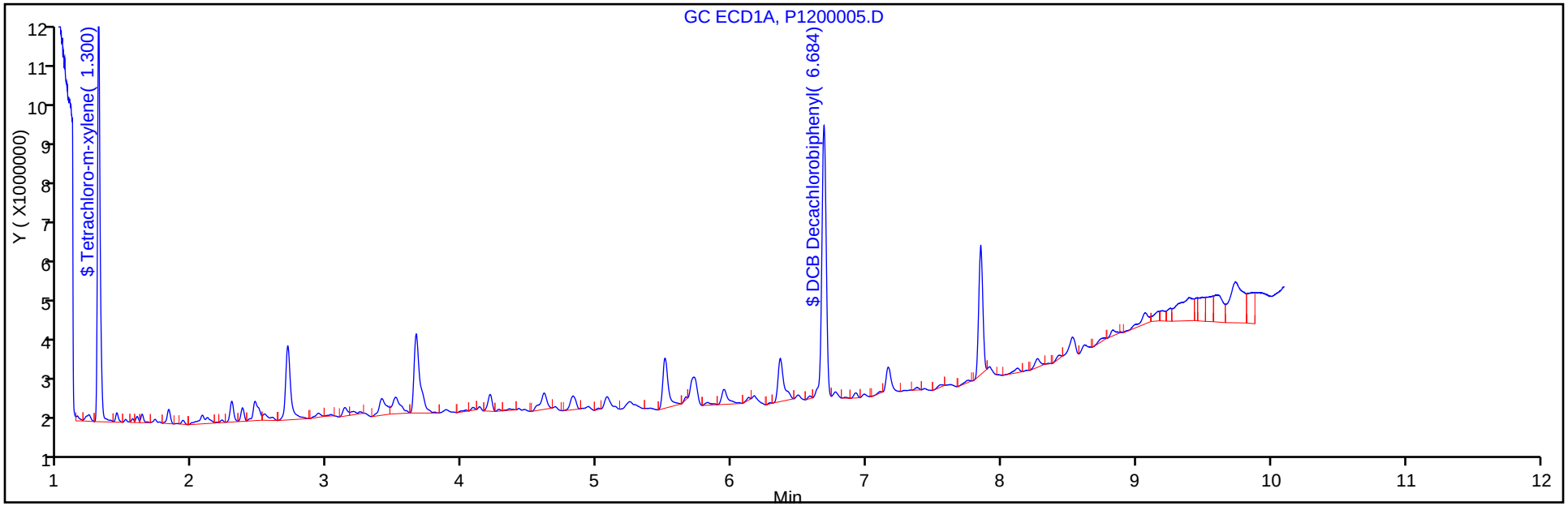
Report Date: 04-Apr-2013 07:27:50 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

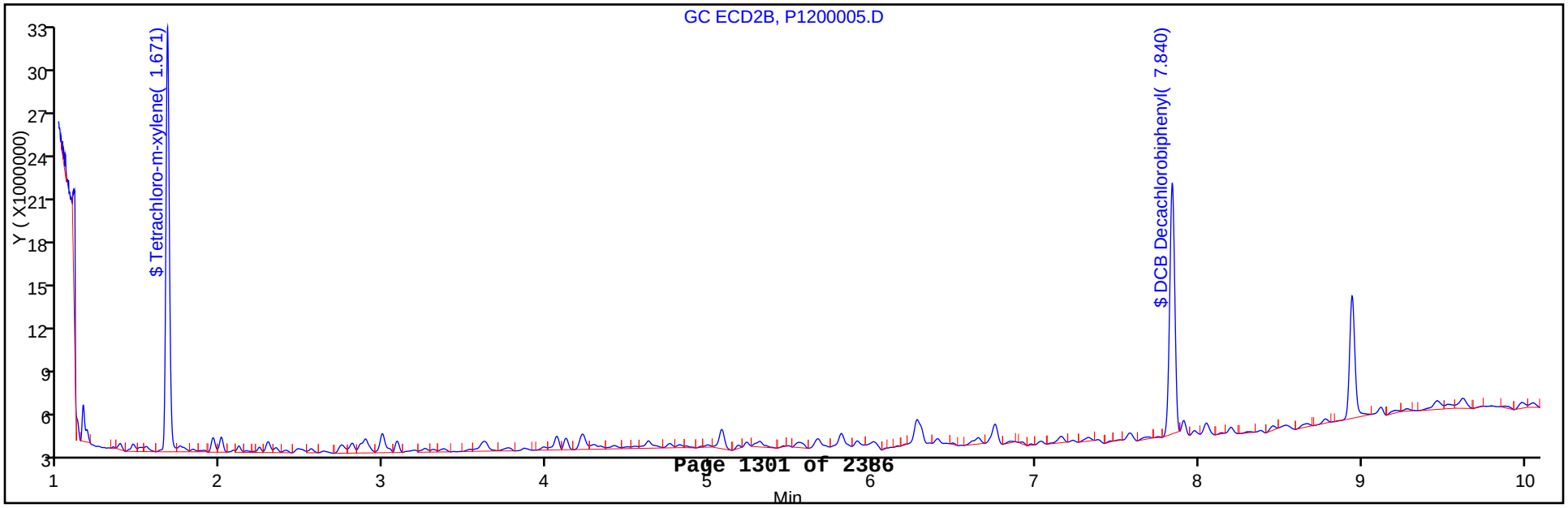
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200005.D

Injection Date:	03-Apr-2013 13:45:10	Limit Group:	GC 8082A ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: P1200005.D

Analysis Method: 8082/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.65(g) Date Analyzed: 04/03/2013 13:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		40-140
2051-24-3	DCB Decachlorobiphenyl	62		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200005.D		
Lims ID:	240-22274-E-2-B	Client ID:	079SD-0309-0001-SD
Inject. Date:	03-Apr-2013 13:45:10	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018511-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	80431	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:10:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.300	1.299	0.001	14524151	0.0148			
2	2	1.671	1.672	-0.001	42658278	0.0160			
						RPD = 7.62			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100		1.578						
1	2		1.869						
1	3		2.268						
1	4		2.392						
1	5		2.776						
2	6		2.138						
2	7		2.538						
2	8		2.993						
2	9		3.131						
2	10		3.618						
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.982						
1	2		4.271						
1	3		4.548						
1	4		5.249						
1	5		5.532						
2	6		4.948						
2	7		5.180						
2	8		5.546						
2	9		6.230						
2	10		6.608						
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.684	6.683	0.001	15943344	0.0156			
2	2	7.840	7.838	0.002	36841024	0.0125			
						RPD = 22.63			

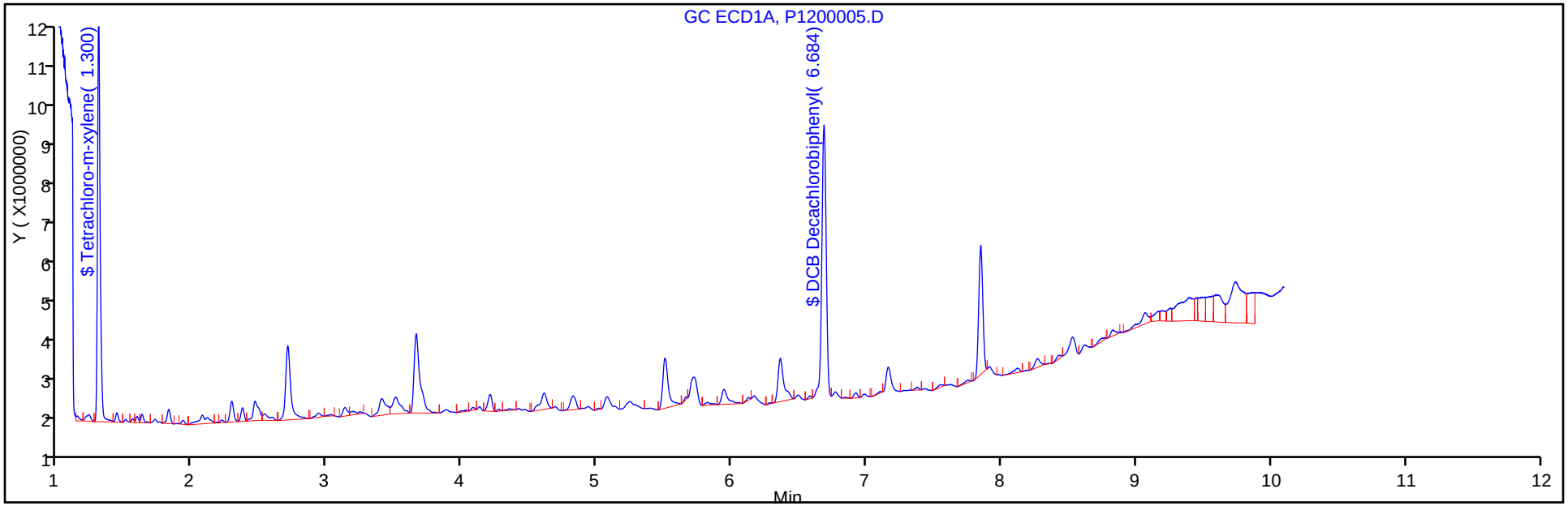
Report Date: 04-Apr-2013 07:27:50 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

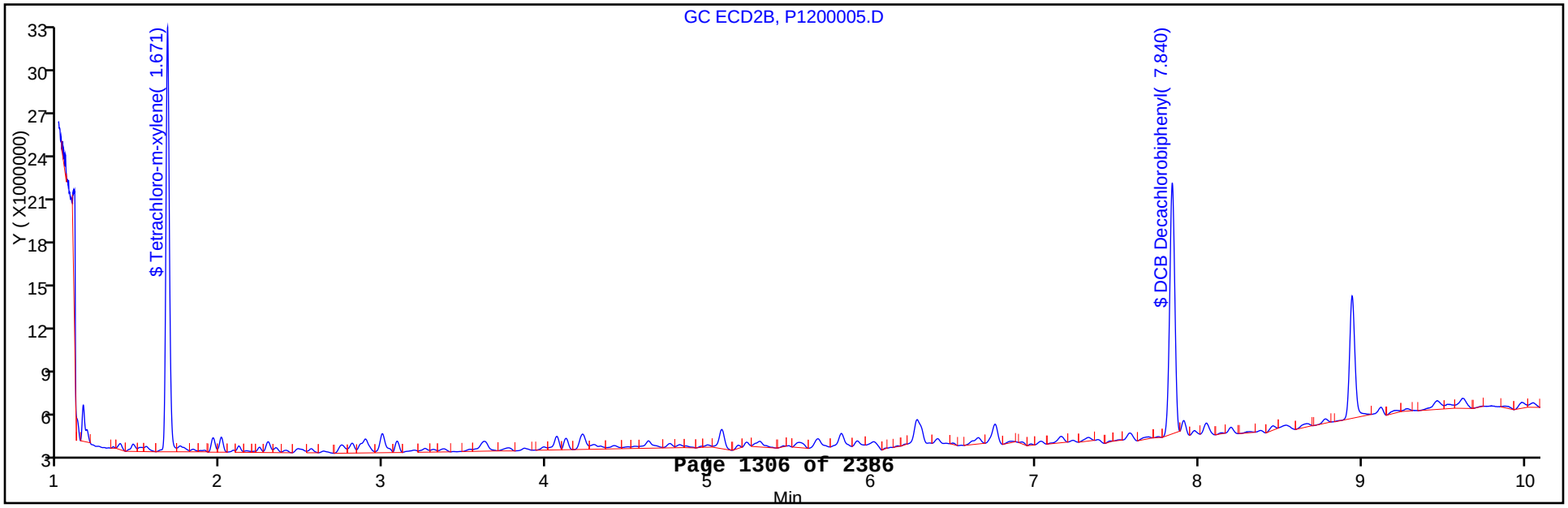
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200005.D

Injection Date:	03-Apr-2013 13:45:10	Limit Group:	GC 8082A ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 10:09 Calibration End Date: 04/01/2013 11:21 Calibration ID: 14308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/3	P1200003.D
Level 2	STD01 240-80043/4	P1200004.D
Level 3	STD02 240-80043/5	P1200005.D
Level 4	STD05 240-80043/6	P1200006.D
Level 5	STD1 240-80043/7	P1200007.D
Level 6	STD2 240-80043/8	P1200008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	1.577	1.576	1.578	1.578	1.578	1.577					1.527 - 1.627	1.577
PCB-1232 Peak 2	1.868	1.868	1.869	1.869	1.870	1.868					1.818 - 1.918	1.869
PCB-1232 Peak 3	2.270	2.270	2.271	2.270	2.271	2.271					2.220 - 2.320	2.271
PCB-1232 Peak 4	2.393	2.392	2.394	2.394	2.394	2.393					2.343 - 2.443	2.393
PCB-1232 Peak 5	2.777	2.779	2.780	2.780	2.780	2.780					2.727 - 2.827	2.779

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 10:09 Calibration End Date: 04/01/2013 11:21 Calibration ID: 14308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/3	P1200003.D
Level 2	STD01 240-80043/4	P1200004.D
Level 3	STD02 240-80043/5	P1200005.D
Level 4	STD05 240-80043/6	P1200006.D
Level 5	STD1 240-80043/7	P1200007.D
Level 6	STD2 240-80043/8	P1200008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	21348040 15651687	21218960 14171772	18831455	17838958	Ave		18176812.0				16.0		20.0			
PCB-1232 Peak 2	17141980 12741996	16702810 11451109	15466520	14382570	Ave		14647830.8				15.0		20.0			
PCB-1232 Peak 3	32978340 24609683	32588810 22665333	30816545	26984050	Ave		28440460.1				15.0		20.0			
PCB-1232 Peak 4	13384860 10641624	13644080 9706654	12849430	11777604	Ave		12000708.6				13.0		20.0			
PCB-1232 Peak 5	13594980 10356120	13349900 9264652	12444585	11202258	Ave		11702082.5				15.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 10:09 Calibration End Date: 04/01/2013 11:21 Calibration ID: 14308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/3	P1200003.D
Level 2	STD01 240-80043/4	P1200004.D
Level 3	STD02 240-80043/5	P1200005.D
Level 4	STD05 240-80043/6	P1200006.D
Level 5	STD1 240-80043/7	P1200007.D
Level 6	STD2 240-80043/8	P1200008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	1067402 28343544	2121896	3766291	8919479	15651687	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	857099 22902217	1670281	3093304	7191285	12741996	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	1648917 45330665	3258881	6163309	13492025	24609683	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	669243 19413307	1364408	2569886	5888802	10641624	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	679749 18529304	1334990	2488917	5601129	10356120	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200003.D
Lims ID: STD005 1232 Client ID:
Inject. Date: 01-Apr-2013 10:09:35 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018420-003
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 80043 Lims Sample ID: 3
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:44 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.577	1.577	0.000	1067402	0.0587		100.0	
1	2	1.868	1.868	0.000	857099	0.0585	57.1- 107.1	80.3	
1	3	2.270	2.270	0.000	1648917	0.0580	138.6- 188.6	154.5	
1	4	2.393	2.393	0.000	669243	0.0558	43.2- 93.2	62.7	
1	5	2.777	2.777	0.000	679749	0.0581	41.1- 91.1	63.7	
			Average of Peak Amounts =			0.0578			
2	6	2.138	2.138	0.000	3229116	0.0605		100.0	
2	7	2.540	2.540	0.000	2379901	0.0587	47.1- 107.1	73.7	
2	8	2.996	2.996	0.000	4414470	0.0549	119.9- 179.9	136.7	
2	9	3.136	3.136	0.000	2248623	0.0614	38.2- 98.2	69.6	
2	10	3.750	3.750	0.000	1863522	0.0604	29.2- 89.2	57.7	
			Average of Peak Amounts =			0.0592			
						RPD = 2.31			

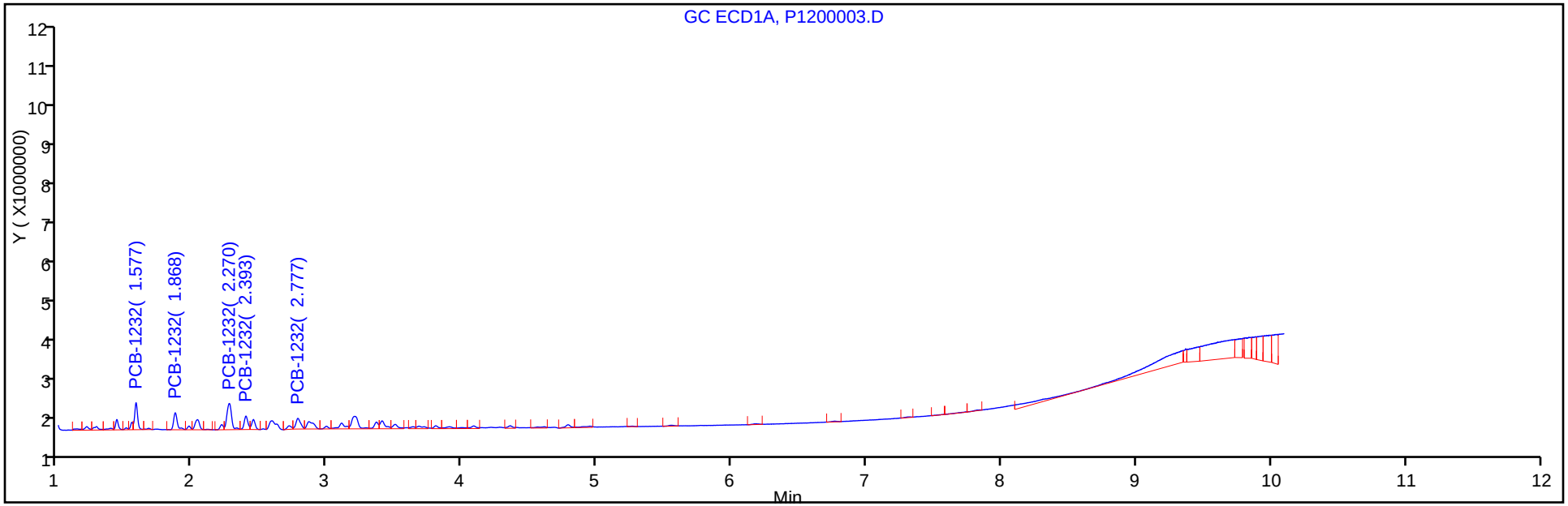
Report Date: 02-Apr-2013 07:01:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

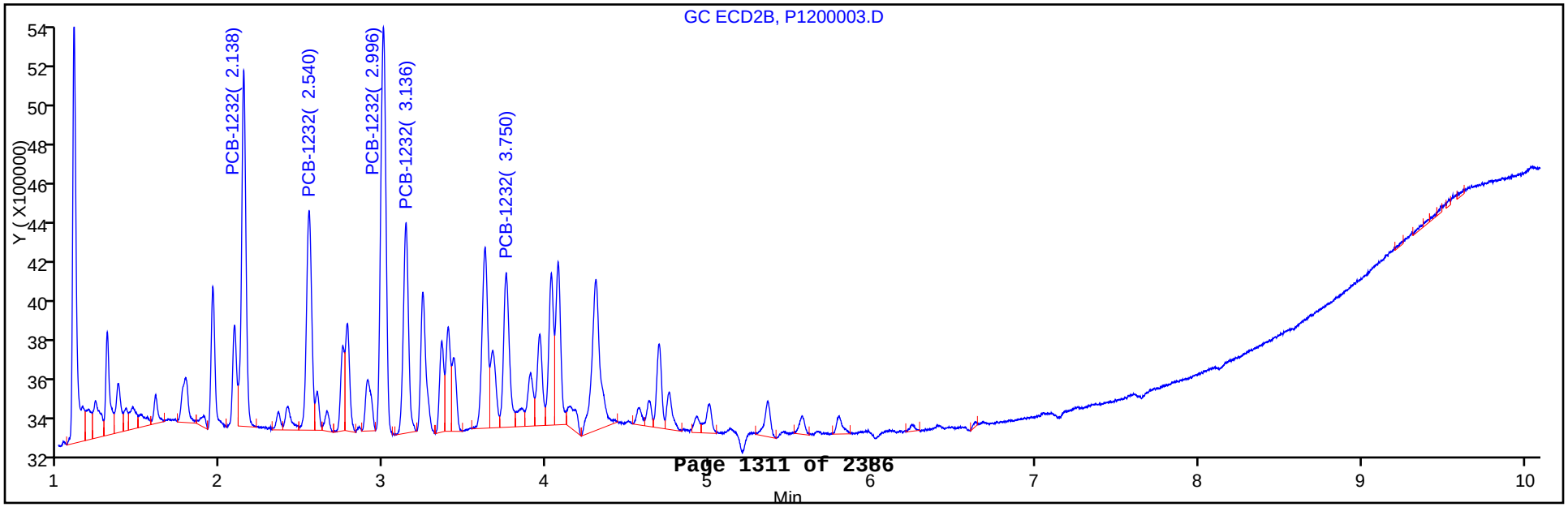
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200003.D

Injection Date:	01-Apr-2013 10:09:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200004.D
Lims ID: STD01 1232 Client ID:
Inject. Date: 01-Apr-2013 10:23:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-004
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 80043 Lims Sample ID: 4
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:46 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.576	1.577	-0.001	2121896	0.1167		100.0	
1	2	1.868	1.868	0.000	1670281	0.1140	57.1- 107.1	78.7	
1	3	2.270	2.270	0.000	3258881	0.1146	138.6- 188.6	153.6	
1	4	2.392	2.393	-0.001	1364408	0.1137	43.2- 93.2	64.3	
1	5	2.779	2.777	0.002	1334990	0.1141	41.1- 91.1	62.9	
			Average of Peak Amounts =			0.1146			
2	6	2.140	2.138	0.002	5997596	0.1124		100.0	
2	7	2.540	2.540	0.000	4603978	0.1135	47.1- 107.1	76.8	
2	8	2.996	2.996	0.000	8701790	0.1082	119.9- 179.9	145.1	
2	9	3.136	3.136	0.000	4054720	0.1107	38.2- 98.2	67.6	
2	10	3.750	3.750	0.000	3468355	0.1123	29.2- 89.2	57.8	
			Average of Peak Amounts =			0.1114			
						RPD = 2.83			

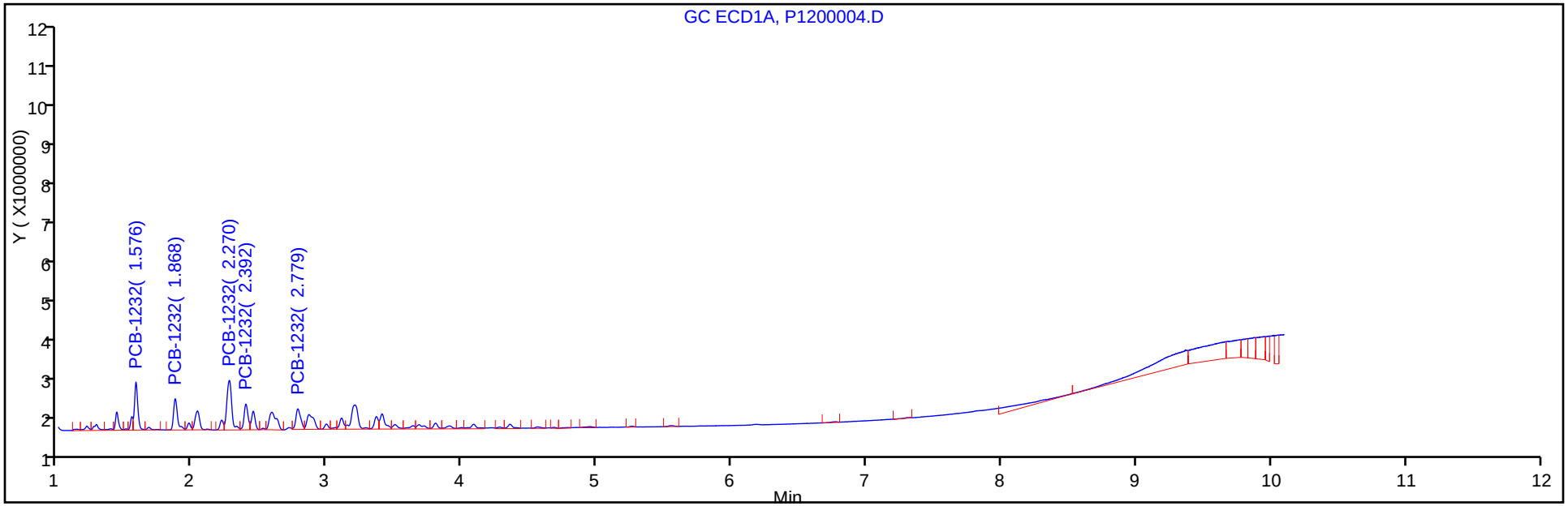
Report Date: 02-Apr-2013 07:01:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

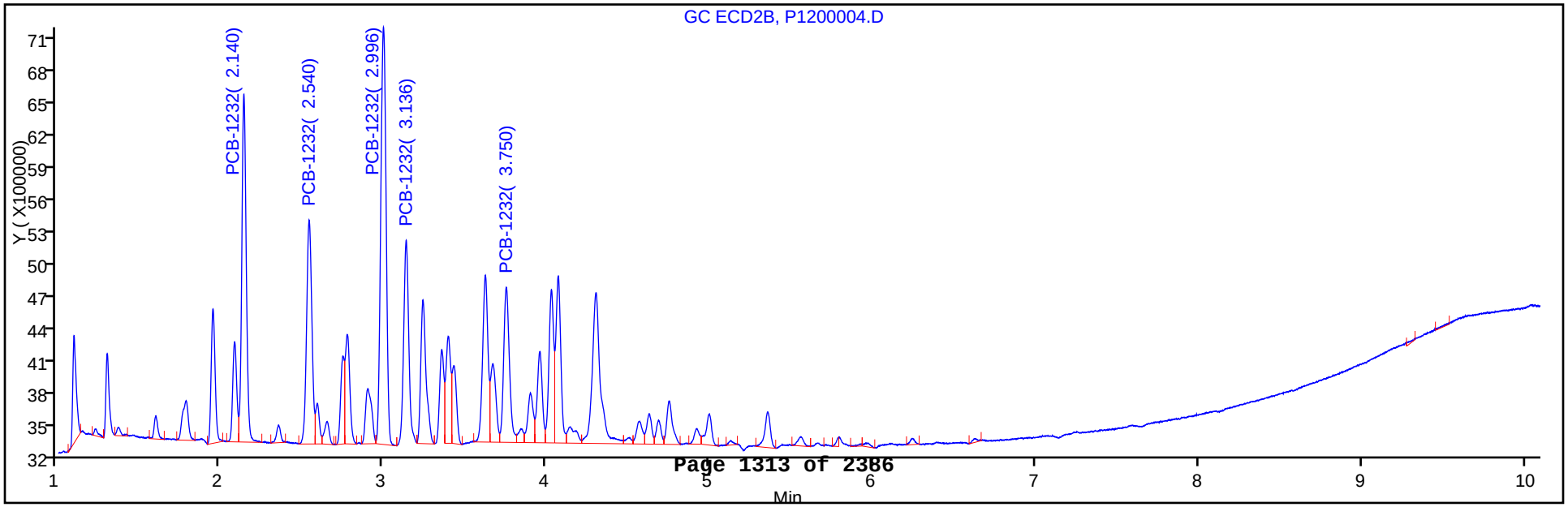
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200004.D

Injection Date:	01-Apr-2013 10:23:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200005.D
Lims ID: STD02 1232 Client ID:
Inject. Date: 01-Apr-2013 10:38:11 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-005
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 80043 Lims Sample ID: 5
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:47 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.578	1.577	0.001	3766291	0.2072		100.0	
1	2	1.869	1.868	0.001	3093304	0.2112	57.1- 107.1	82.1	
1	3	2.271	2.270	0.001	6163309	0.2167	138.6- 188.6	163.6	
1	4	2.394	2.393	0.001	2569886	0.2141	43.2- 93.2	68.2	
1	5	2.780	2.777	0.003	2488917	0.2127	41.1- 91.1	66.1	
			Average of Peak Amounts =			0.2124			
2	6	2.140	2.138	0.002	10982840	0.2058		100.0	
2	7	2.540	2.540	0.000	8462667	0.2086	47.1- 107.1	77.1	
2	8	2.996	2.996	0.000	16459114	0.2046	119.9- 179.9	149.9	
2	9	3.136	3.136	0.000	7490482	0.2046	38.2- 98.2	68.2	
2	10	3.750	3.750	0.000	6498626	0.2105	29.2- 89.2	59.2	
			Average of Peak Amounts =			0.2068			
						RPD = 2.66			

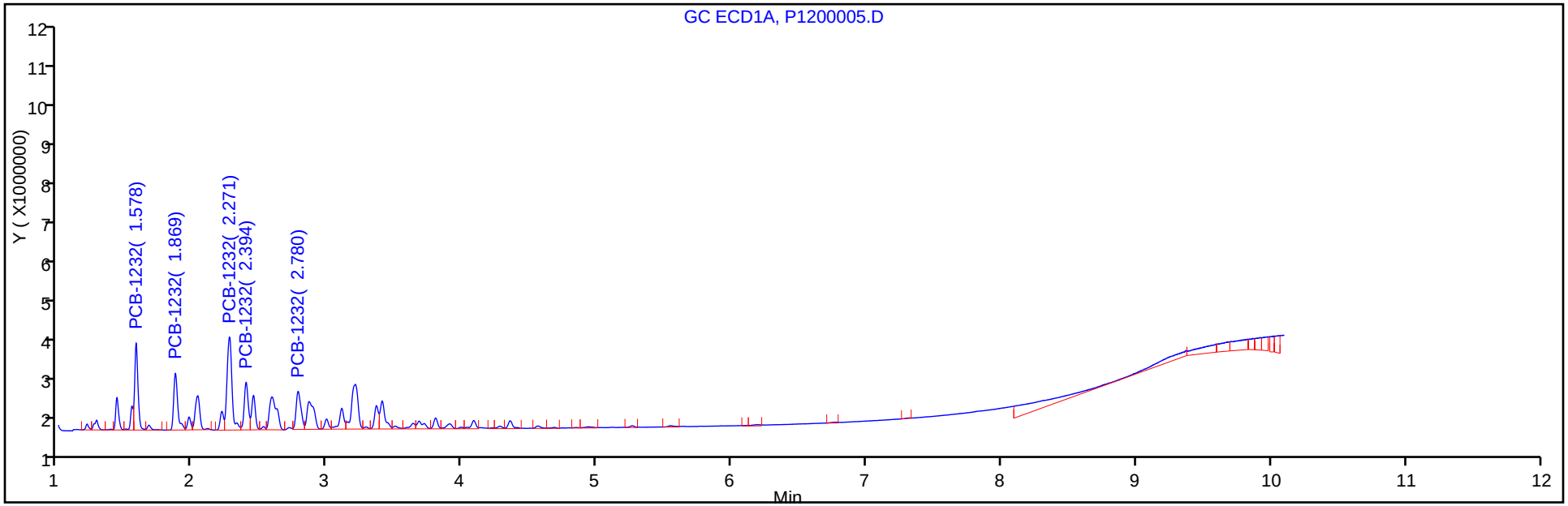
Report Date: 02-Apr-2013 07:01:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

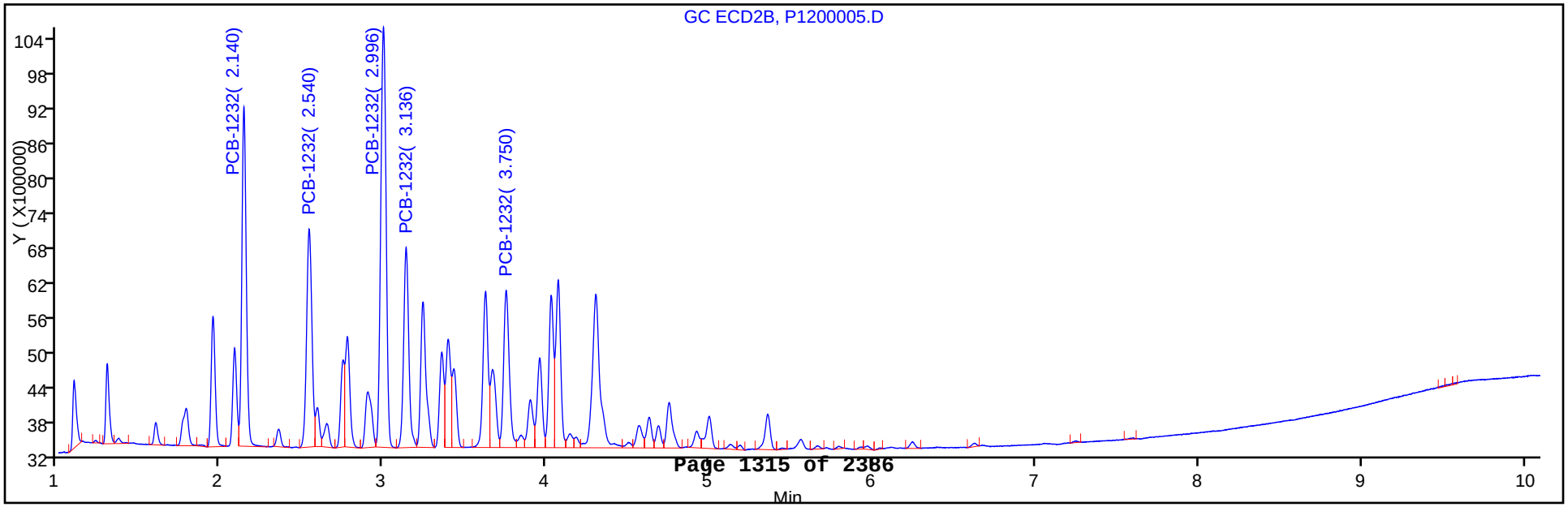
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200005.D

Injection Date:	01-Apr-2013 10:38:11	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200006.D
Lims ID: STD05 1232 Client ID:
Inject. Date: 01-Apr-2013 10:52:44 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018420-006
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 80043 Lims Sample ID: 6
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:48 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.578	1.577	0.001	8919479	0.4907		100.0	
1	2	1.869	1.868	0.001	7191285	0.4909	57.1- 107.1	80.6	
1	3	2.270	2.270	0.000	13492025	0.4744	138.6- 188.6	151.3	
1	4	2.394	2.393	0.001	5888802	0.4907	43.2- 93.2	66.0	
1	5	2.780	2.777	0.003	5601129	0.4786	41.1- 91.1	62.8	
			Average of Peak Amounts =			0.4851			
2	6	2.139	2.138	0.001	25736482	0.4823		100.0	
2	7	2.540	2.540	0.000	19661095	0.4847	47.1- 107.1	76.4	
2	8	2.997	2.996	0.001	39593508	0.4921	119.9- 179.9	153.8	
2	9	3.137	3.136	0.001	17406000	0.4754	38.2- 98.2	67.6	
2	10	3.750	3.750	0.000	14669402	0.4752	29.2- 89.2	57.0	
			Average of Peak Amounts =			0.4819			
						RPD = 0.65			

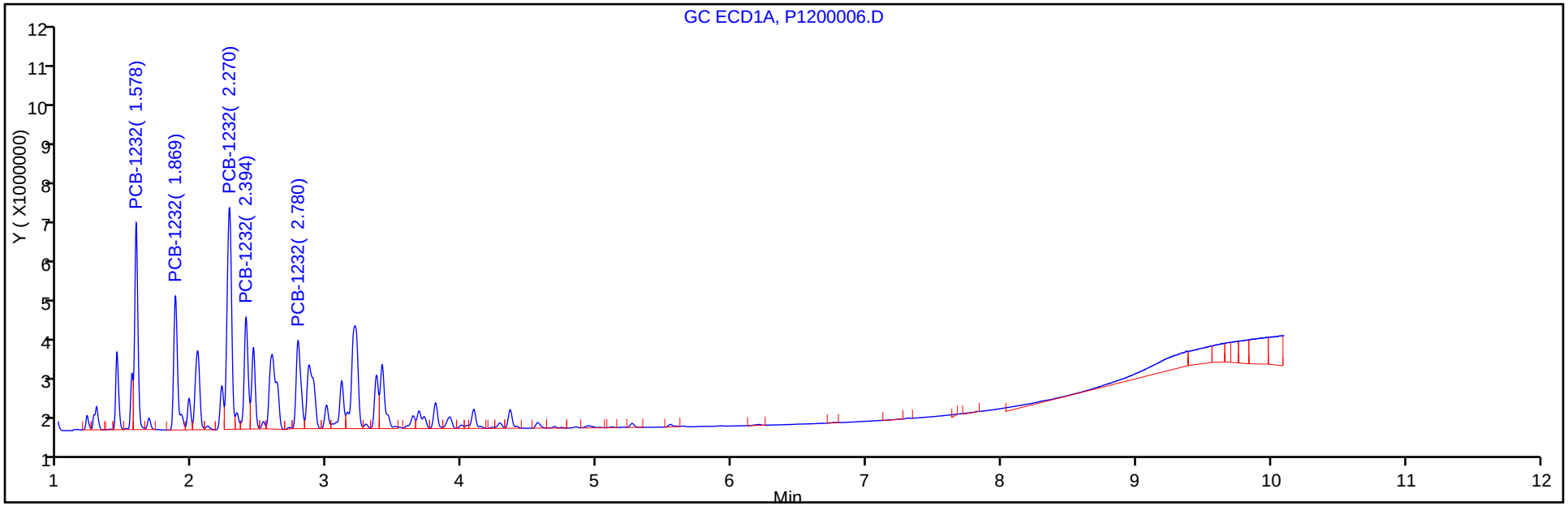
Report Date: 02-Apr-2013 07:01:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

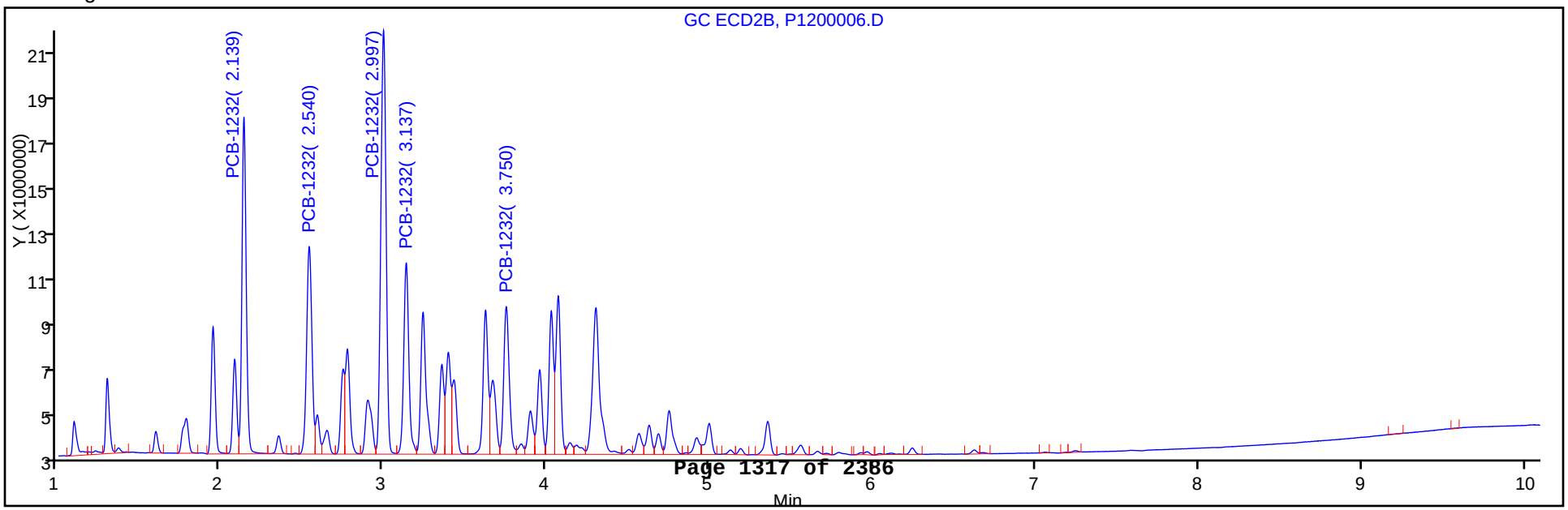
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200006.D

Injection Date:	01-Apr-2013 10:52:44	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200007.D
Lims ID: STD1 1232 Client ID:
Inject. Date: 01-Apr-2013 11:07:17 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-007
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 80043 Lims Sample ID: 7
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:49 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.578	1.577	0.001	15651687	0.8611		100.0	
1	2	1.870	1.868	0.002	12741996	0.8699	57.1- 107.1	81.4	
1	3	2.271	2.270	0.001	24609683	0.8653	138.6- 188.6	157.2	
1	4	2.394	2.393	0.001	10641624	0.8867	43.2- 93.2	68.0	
1	5	2.780	2.777	0.003	10356120	0.8850	41.1- 91.1	66.2	
			Average of Peak Amounts =			0.8736			
2	6	2.140	2.138	0.002	46505395	0.8715		100.0	
2	7	2.541	2.540	0.001	35683015	0.8796	47.1- 107.1	76.7	
2	8	2.997	2.996	0.001	74635115	0.9277	119.9- 179.9	160.5	
2	9	3.137	3.136	0.001	31814666	0.8690	38.2- 98.2	68.4	
2	10	3.750	3.750	0.000	26433892	0.8562	29.2- 89.2	56.8	
			Average of Peak Amounts =			0.8808			
						RPD = 0.82			

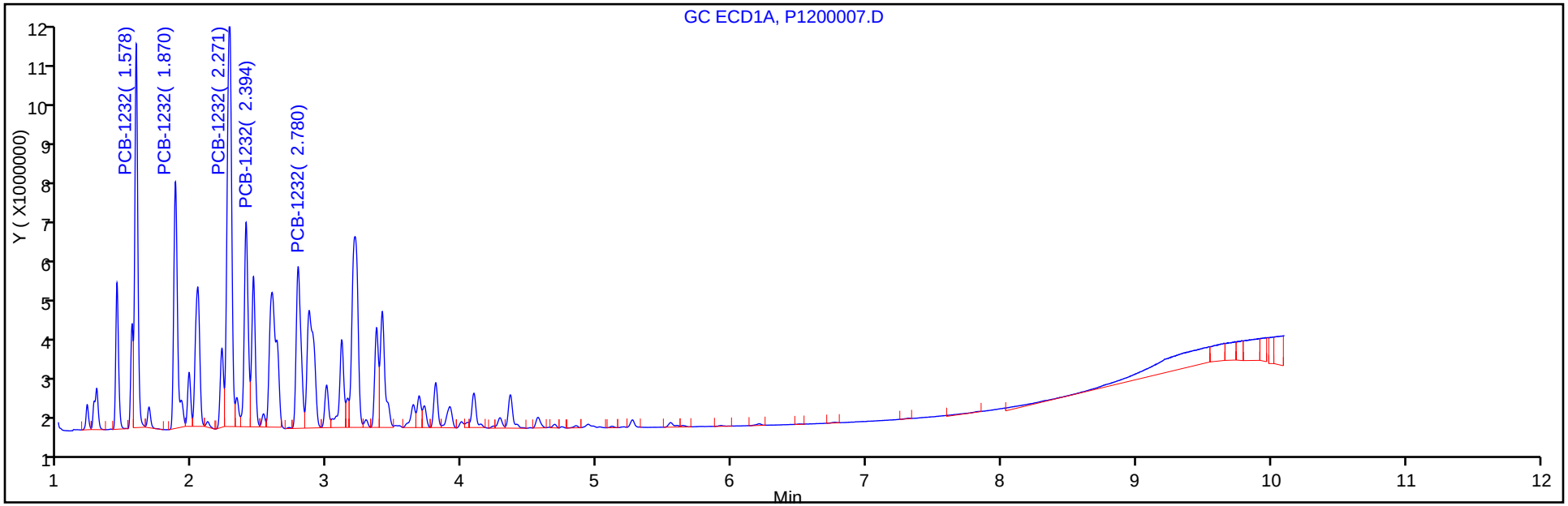
Report Date: 02-Apr-2013 07:01:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

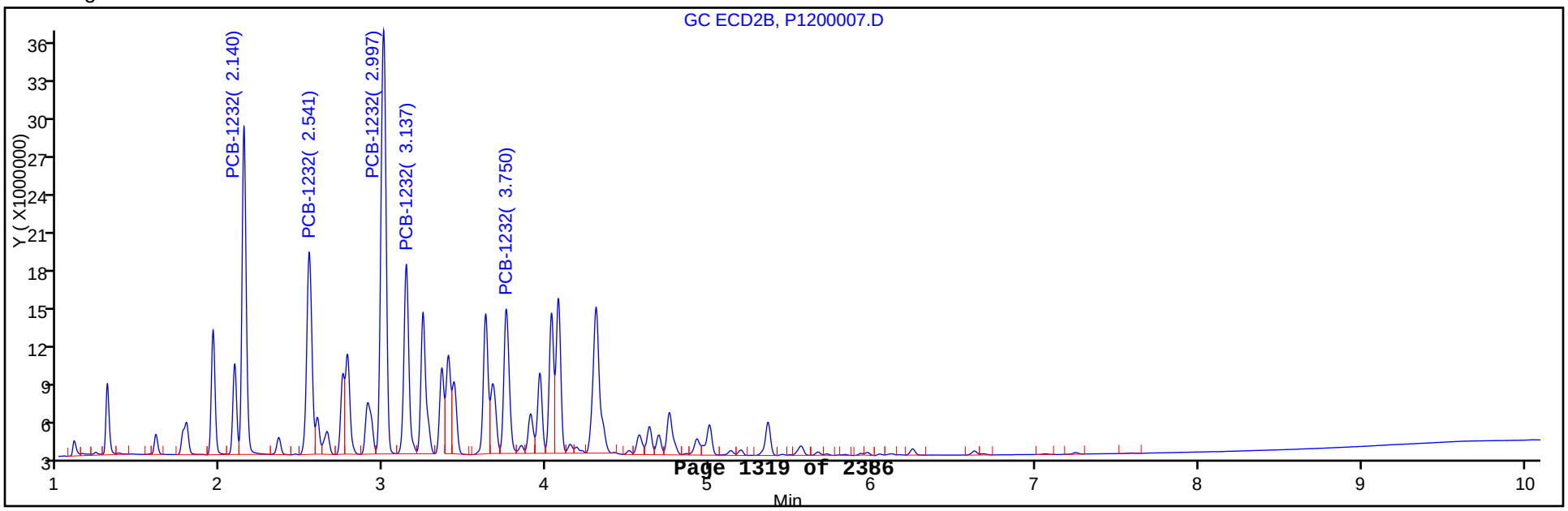
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200007.D

Injection Date:	01-Apr-2013 11:07:17	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200008.D
Lims ID: STD2 1232 Client ID:
Inject. Date: 01-Apr-2013 11:21:51 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018420-008
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 80043 Lims Sample ID: 8
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:51 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.577	1.577	0.000	28343544	1.56		100.0	
1	2	1.868	1.868	0.000	22902217	1.56	57.1- 107.1	80.8	
1	3	2.271	2.270	0.001	45330665	1.59	138.6- 188.6	159.9	
1	4	2.393	2.393	0.000	19413307	1.62	43.2- 93.2	68.5	
1	5	2.780	2.777	0.003	18529304	1.58	41.1- 91.1	65.4	
			Average of Peak Amounts =			1.58			
2	6	2.138	2.138	0.000	85474691	1.60		100.0	
2	7	2.540	2.540	0.000	64888909	1.60	47.1- 107.1	75.9	
2	8	2.997	2.996	0.001	142554635	1.77	119.9- 179.9	166.8	
2	9	3.136	3.136	0.000	60155102	1.64	38.2- 98.2	70.4	
2	10	3.749	3.750	-0.001	50031048	1.62	29.2- 89.2	58.5	
			Average of Peak Amounts =			1.65			
						RPD = 3.95			

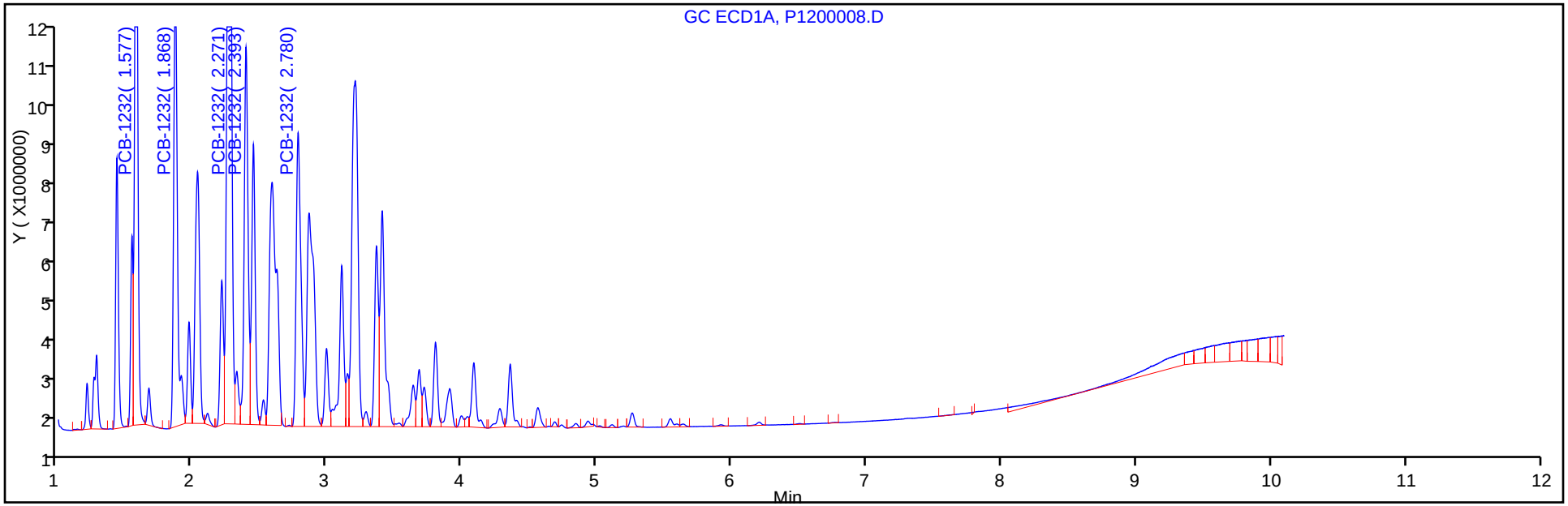
Report Date: 02-Apr-2013 07:01:51 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

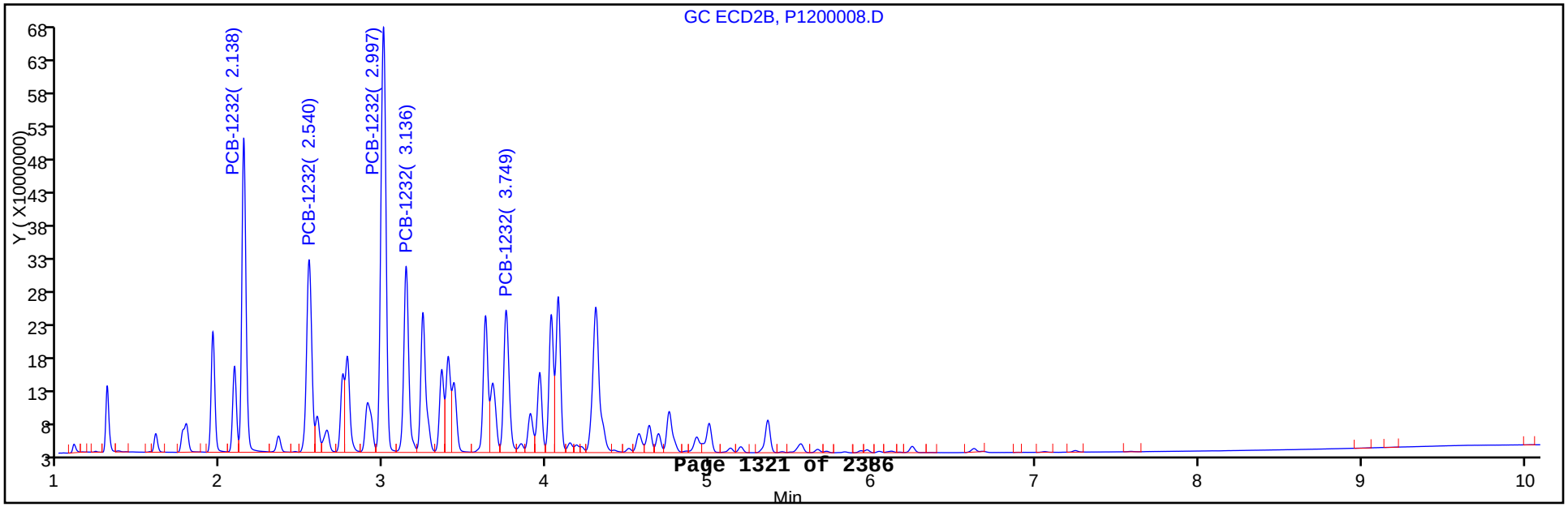
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200008.D

Injection Date:	01-Apr-2013 11:21:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 10:09 Calibration End Date: 04/01/2013 11:21 Calibration ID: 14309

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/3	P1200003.D
Level 2	STD01 240-80043/4	P1200004.D
Level 3	STD02 240-80043/5	P1200005.D
Level 4	STD05 240-80043/6	P1200006.D
Level 5	STD1 240-80043/7	P1200007.D
Level 6	STD2 240-80043/8	P1200008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	2.138	2.140	2.140	2.139	2.140	2.138					2.088 - 2.188	2.139
PCB-1232 Peak 2	2.540	2.540	2.540	2.540	2.541	2.540					2.490 - 2.590	2.540
PCB-1232 Peak 3	2.996	2.996	2.996	2.997	2.997	2.997					2.946 - 3.046	2.997
PCB-1232 Peak 4	3.136	3.136	3.136	3.137	3.137	3.136					3.086 - 3.186	3.136
PCB-1232 Peak 5	3.750	3.750	3.750	3.750	3.750	3.749					3.700 - 3.800	3.750

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 10:09 Calibration End Date: 04/01/2013 11:21 Calibration ID: 14309

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/3	P1200003.D
Level 2	STD01 240-80043/4	P1200004.D
Level 3	STD02 240-80043/5	P1200005.D
Level 4	STD05 240-80043/6	P1200006.D
Level 5	STD1 240-80043/7	P1200007.D
Level 6	STD2 240-80043/8	P1200008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	64582320 46505395	59975960 42737346	54914200	51472964	Ave		53364697.4				15.0		20.0			
PCB-1232 Peak 2	47598020 35683015	46039780 32444455	42313335	39322190	Ave		40566799.1				15.0		20.0			
PCB-1232 Peak 3	88289400 74635115	87017900 71277318	82295570	79187016	Ave		80450386.4				8.4		20.0			
PCB-1232 Peak 4	44972460 31814666	40547200 30077551	37452410	34812000	Ave		36612714.5				15.0		20.0			
PCB-1232 Peak 5	37270440 26433892	34683550 25015524	32493130	29338804	Ave		30872556.7				15.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 10:09 Calibration End Date: 04/01/2013 11:21 Calibration ID: 14309

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/3	P1200003.D
Level 2	STD01 240-80043/4	P1200004.D
Level 3	STD02 240-80043/5	P1200005.D
Level 4	STD05 240-80043/6	P1200006.D
Level 5	STD1 240-80043/7	P1200007.D
Level 6	STD2 240-80043/8	P1200008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	3229116 85474691	5997596	10982840	25736482	46505395	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	2379901 64888909	4603978	8462667	19661095	35683015	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	4414470 142554635	8701790	16459114	39593508	74635115	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	2248623 60155102	4054720	7490482	17406000	31814666	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	1863522 50031048	3468355	6498626	14669402	26433892	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200003.D
Lims ID: STD005 1232 Client ID:
Inject. Date: 01-Apr-2013 10:09:35 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018420-003
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 80043 Lims Sample ID: 3
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:44 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.577	1.577	0.000	1067402	0.0587		100.0	
1	2	1.868	1.868	0.000	857099	0.0585	57.1- 107.1	80.3	
1	3	2.270	2.270	0.000	1648917	0.0580	138.6- 188.6	154.5	
1	4	2.393	2.393	0.000	669243	0.0558	43.2- 93.2	62.7	
1	5	2.777	2.777	0.000	679749	0.0581	41.1- 91.1	63.7	
			Average of Peak Amounts =			0.0578			
2	6	2.138	2.138	0.000	3229116	0.0605		100.0	
2	7	2.540	2.540	0.000	2379901	0.0587	47.1- 107.1	73.7	
2	8	2.996	2.996	0.000	4414470	0.0549	119.9- 179.9	136.7	
2	9	3.136	3.136	0.000	2248623	0.0614	38.2- 98.2	69.6	
2	10	3.750	3.750	0.000	1863522	0.0604	29.2- 89.2	57.7	
			Average of Peak Amounts =			0.0592			
						RPD = 2.31			

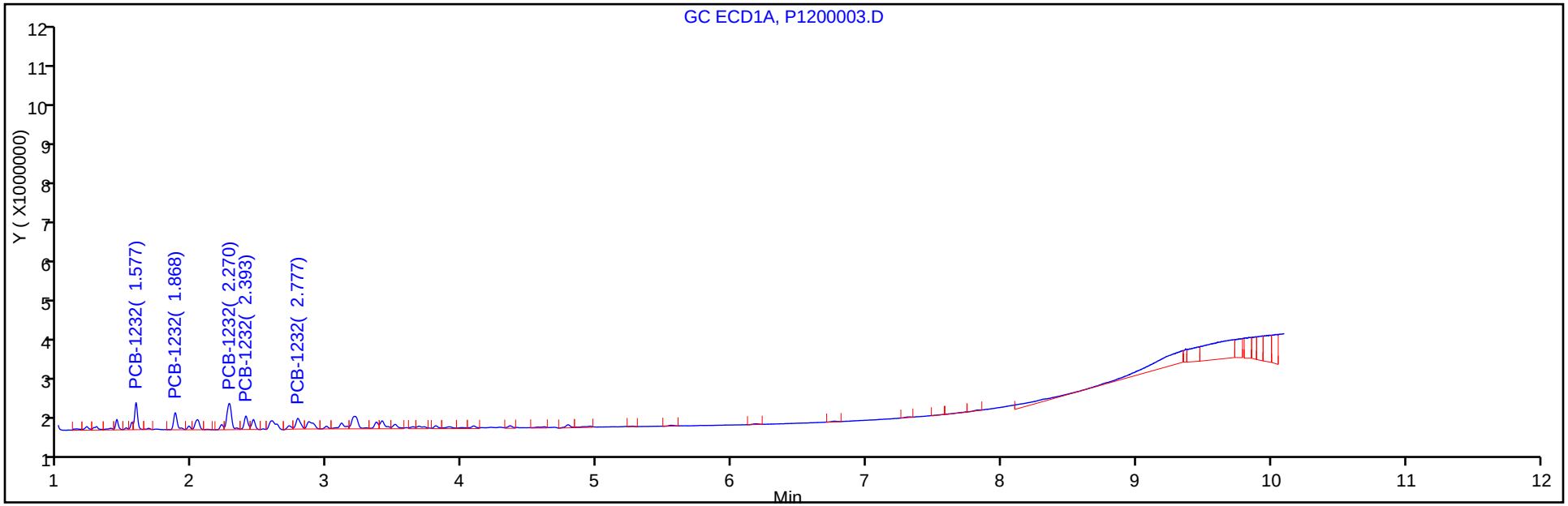
Report Date: 02-Apr-2013 07:01:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

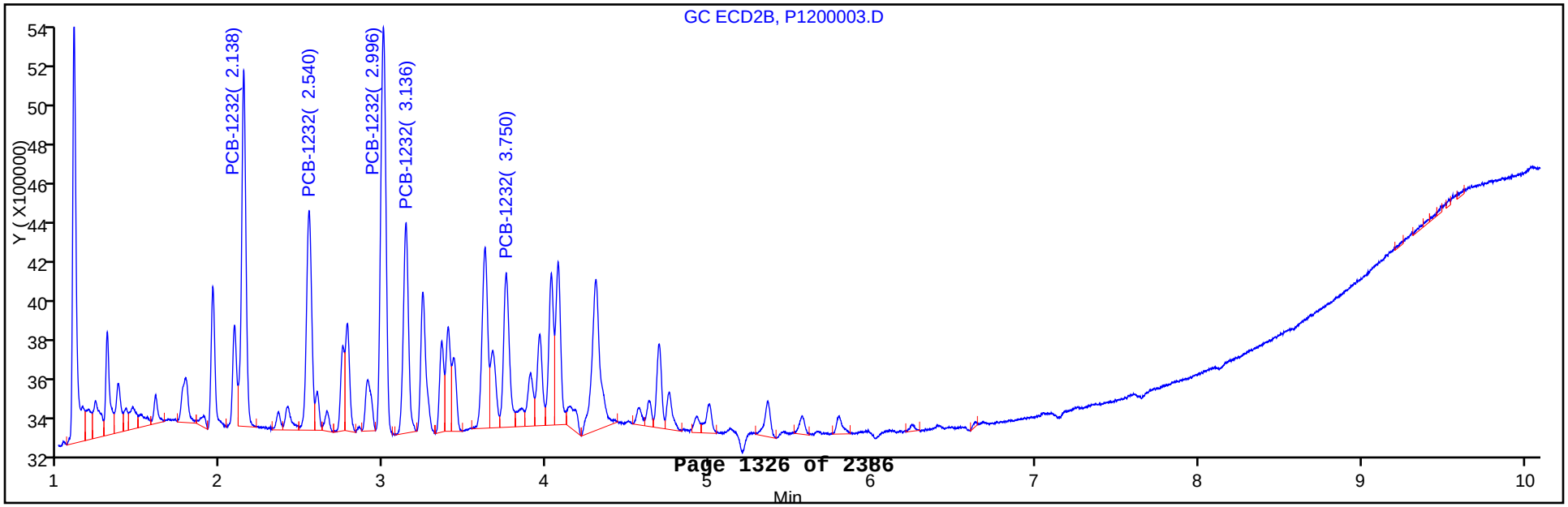
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200003.D

Injection Date:	01-Apr-2013 10:09:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200004.D
Lims ID: STD01 1232 Client ID:
Inject. Date: 01-Apr-2013 10:23:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-004
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 80043 Lims Sample ID: 4
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:46 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.576	1.577	-0.001	2121896	0.1167		100.0	
1	2	1.868	1.868	0.000	1670281	0.1140	57.1- 107.1	78.7	
1	3	2.270	2.270	0.000	3258881	0.1146	138.6- 188.6	153.6	
1	4	2.392	2.393	-0.001	1364408	0.1137	43.2- 93.2	64.3	
1	5	2.779	2.777	0.002	1334990	0.1141	41.1- 91.1	62.9	
			Average of Peak Amounts =			0.1146			
2	6	2.140	2.138	0.002	5997596	0.1124		100.0	
2	7	2.540	2.540	0.000	4603978	0.1135	47.1- 107.1	76.8	
2	8	2.996	2.996	0.000	8701790	0.1082	119.9- 179.9	145.1	
2	9	3.136	3.136	0.000	4054720	0.1107	38.2- 98.2	67.6	
2	10	3.750	3.750	0.000	3468355	0.1123	29.2- 89.2	57.8	
			Average of Peak Amounts =			0.1114			
						RPD = 2.83			

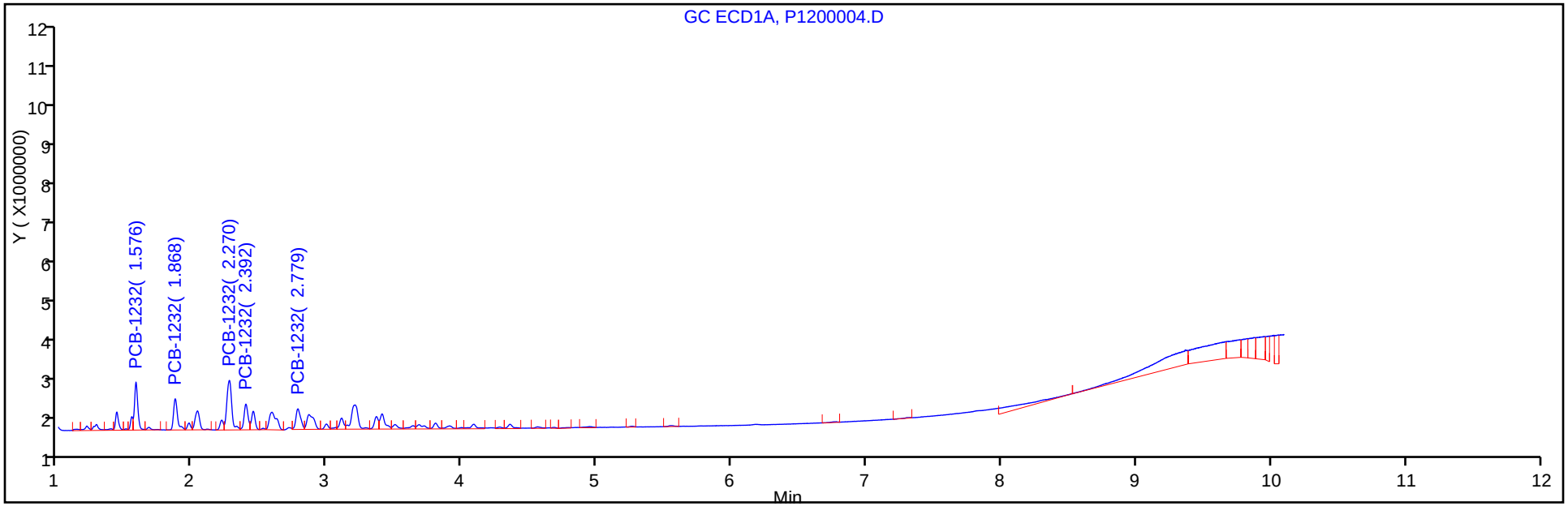
Report Date: 02-Apr-2013 07:01:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

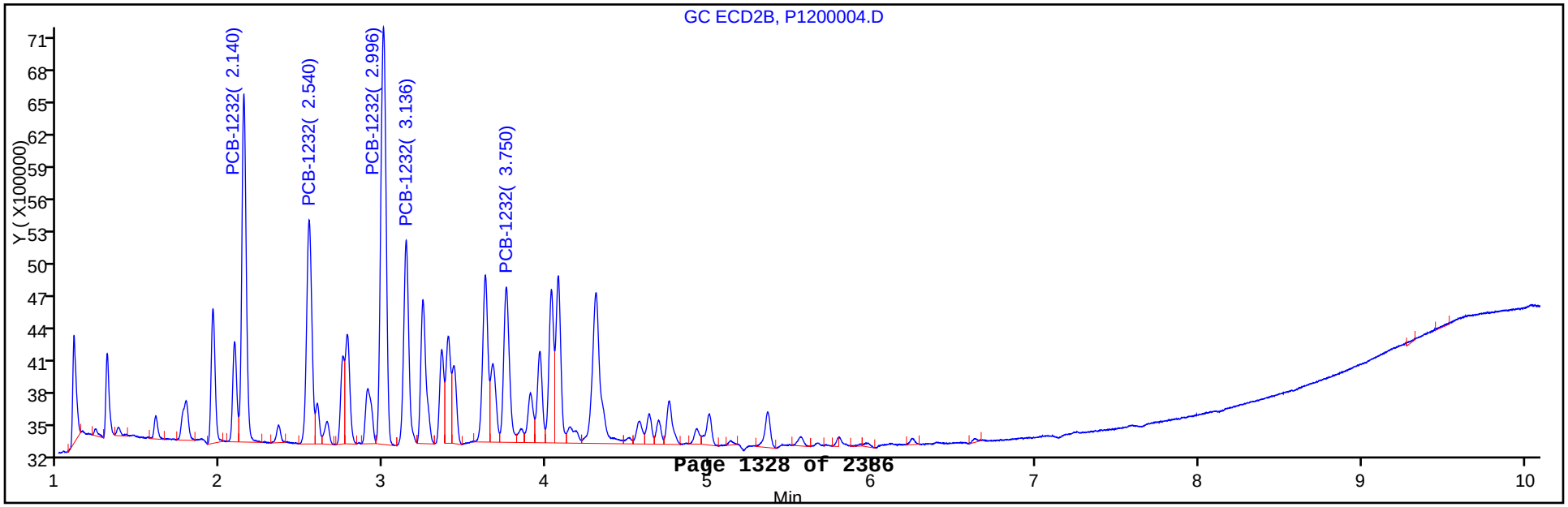
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200004.D

Injection Date:	01-Apr-2013 10:23:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200005.D
Lims ID: STD02 1232 Client ID:
Inject. Date: 01-Apr-2013 10:38:11 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-005
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 80043 Lims Sample ID: 5
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:47 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.578	1.577	0.001	3766291	0.2072		100.0	
1	2	1.869	1.868	0.001	3093304	0.2112	57.1- 107.1	82.1	
1	3	2.271	2.270	0.001	6163309	0.2167	138.6- 188.6	163.6	
1	4	2.394	2.393	0.001	2569886	0.2141	43.2- 93.2	68.2	
1	5	2.780	2.777	0.003	2488917	0.2127	41.1- 91.1	66.1	
			Average of Peak Amounts =			0.2124			
2	6	2.140	2.138	0.002	10982840	0.2058		100.0	
2	7	2.540	2.540	0.000	8462667	0.2086	47.1- 107.1	77.1	
2	8	2.996	2.996	0.000	16459114	0.2046	119.9- 179.9	149.9	
2	9	3.136	3.136	0.000	7490482	0.2046	38.2- 98.2	68.2	
2	10	3.750	3.750	0.000	6498626	0.2105	29.2- 89.2	59.2	
			Average of Peak Amounts =			0.2068			
						RPD = 2.66			

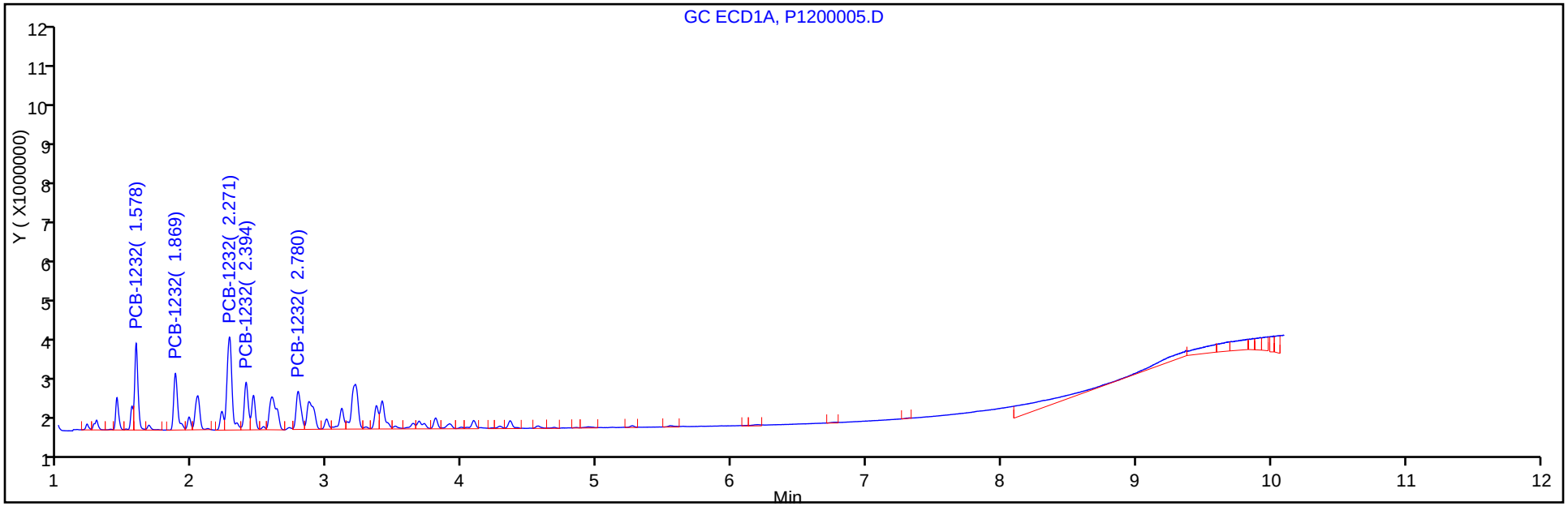
Report Date: 02-Apr-2013 07:01:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

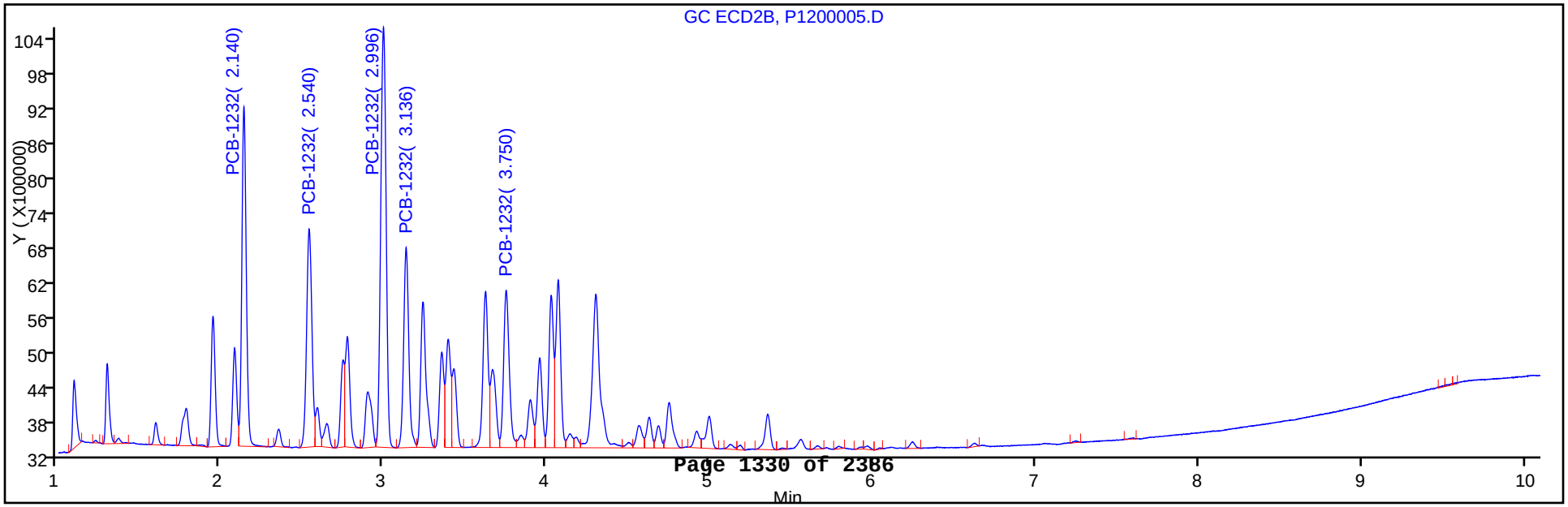
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200005.D

Injection Date:	01-Apr-2013 10:38:11	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200006.D
Lims ID: STD05 1232 Client ID:
Inject. Date: 01-Apr-2013 10:52:44 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018420-006
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 80043 Lims Sample ID: 6
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:48 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.578	1.577	0.001	8919479	0.4907		100.0	
1	2	1.869	1.868	0.001	7191285	0.4909	57.1- 107.1	80.6	
1	3	2.270	2.270	0.000	13492025	0.4744	138.6- 188.6	151.3	
1	4	2.394	2.393	0.001	5888802	0.4907	43.2- 93.2	66.0	
1	5	2.780	2.777	0.003	5601129	0.4786	41.1- 91.1	62.8	
			Average of Peak Amounts =			0.4851			
2	6	2.139	2.138	0.001	25736482	0.4823		100.0	
2	7	2.540	2.540	0.000	19661095	0.4847	47.1- 107.1	76.4	
2	8	2.997	2.996	0.001	39593508	0.4921	119.9- 179.9	153.8	
2	9	3.137	3.136	0.001	17406000	0.4754	38.2- 98.2	67.6	
2	10	3.750	3.750	0.000	14669402	0.4752	29.2- 89.2	57.0	
			Average of Peak Amounts =			0.4819			
						RPD = 0.65			

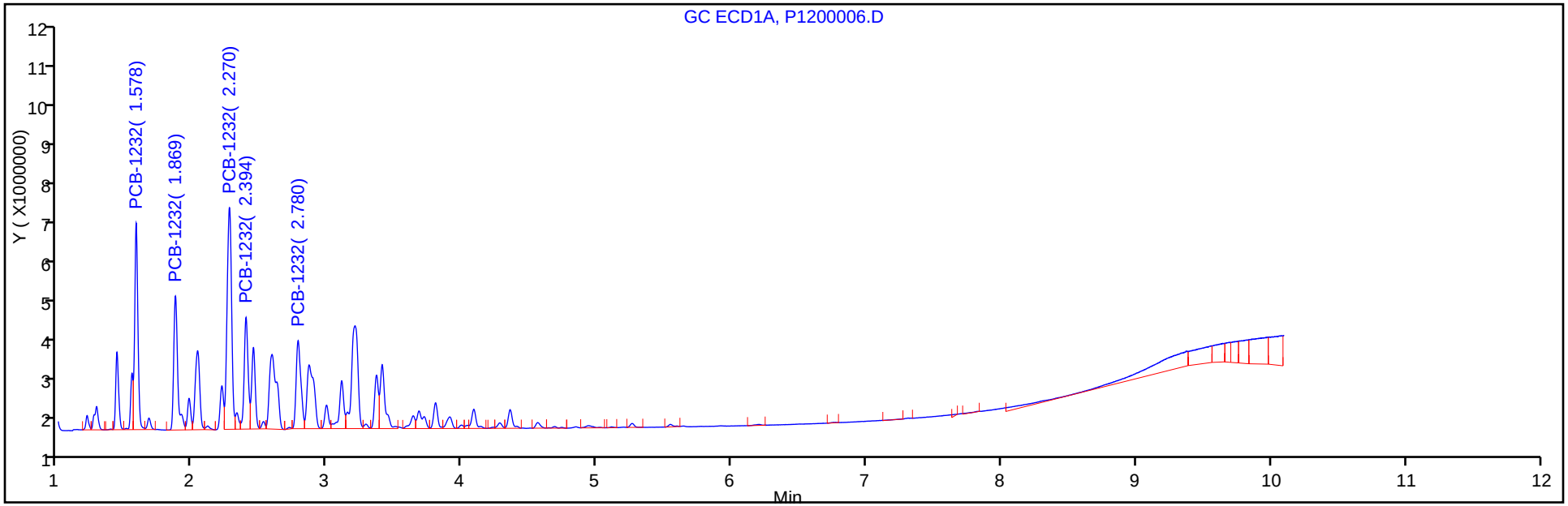
Report Date: 02-Apr-2013 07:01:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

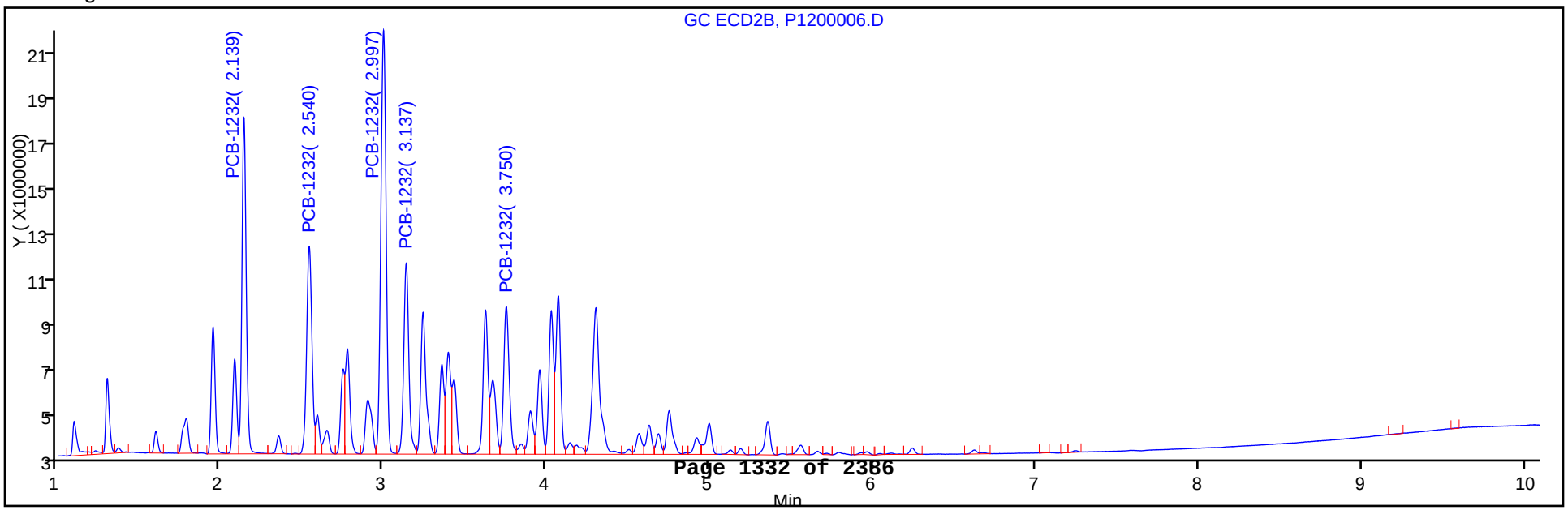
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200006.D

Injection Date:	01-Apr-2013 10:52:44	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200007.D
Lims ID: STD1 1232 Client ID:
Inject. Date: 01-Apr-2013 11:07:17 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-007
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 80043 Lims Sample ID: 7
Sublist: chrom-PCB12*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:49 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.578	1.577	0.001	15651687	0.8611		100.0	
1	2	1.870	1.868	0.002	12741996	0.8699	57.1- 107.1	81.4	
1	3	2.271	2.270	0.001	24609683	0.8653	138.6- 188.6	157.2	
1	4	2.394	2.393	0.001	10641624	0.8867	43.2- 93.2	68.0	
1	5	2.780	2.777	0.003	10356120	0.8850	41.1- 91.1	66.2	
			Average of Peak Amounts =			0.8736			
2	6	2.140	2.138	0.002	46505395	0.8715		100.0	
2	7	2.541	2.540	0.001	35683015	0.8796	47.1- 107.1	76.7	
2	8	2.997	2.996	0.001	74635115	0.9277	119.9- 179.9	160.5	
2	9	3.137	3.136	0.001	31814666	0.8690	38.2- 98.2	68.4	
2	10	3.750	3.750	0.000	26433892	0.8562	29.2- 89.2	56.8	
			Average of Peak Amounts =			0.8808			
						RPD = 0.82			

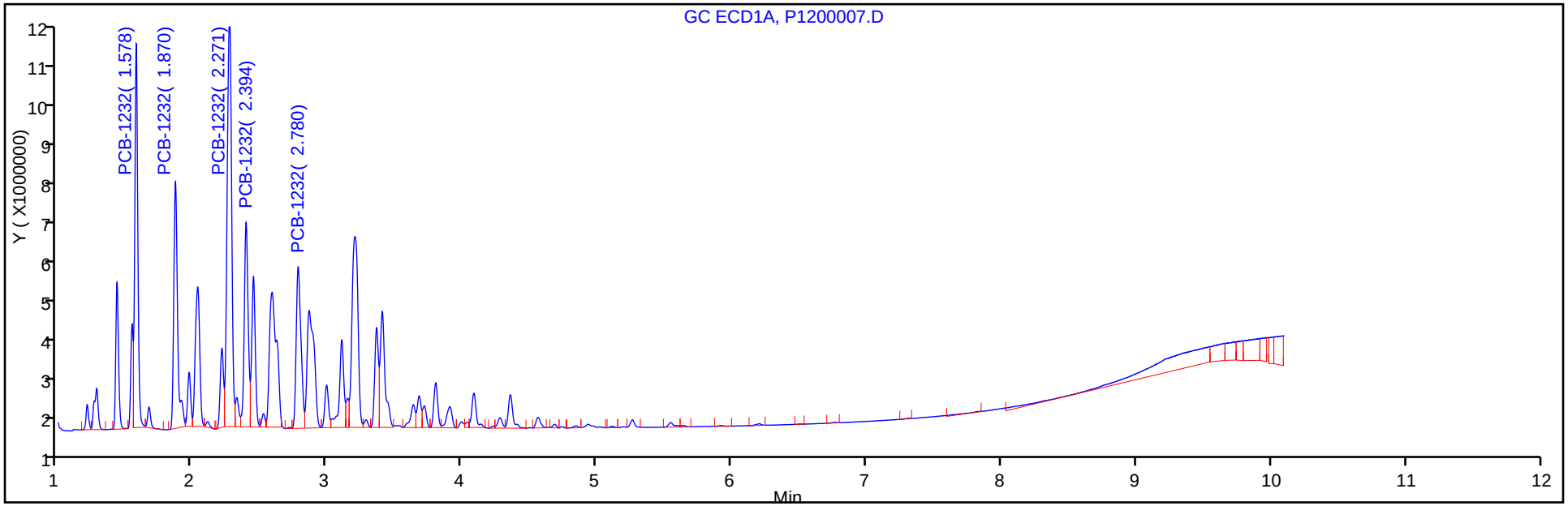
Report Date: 02-Apr-2013 07:01:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

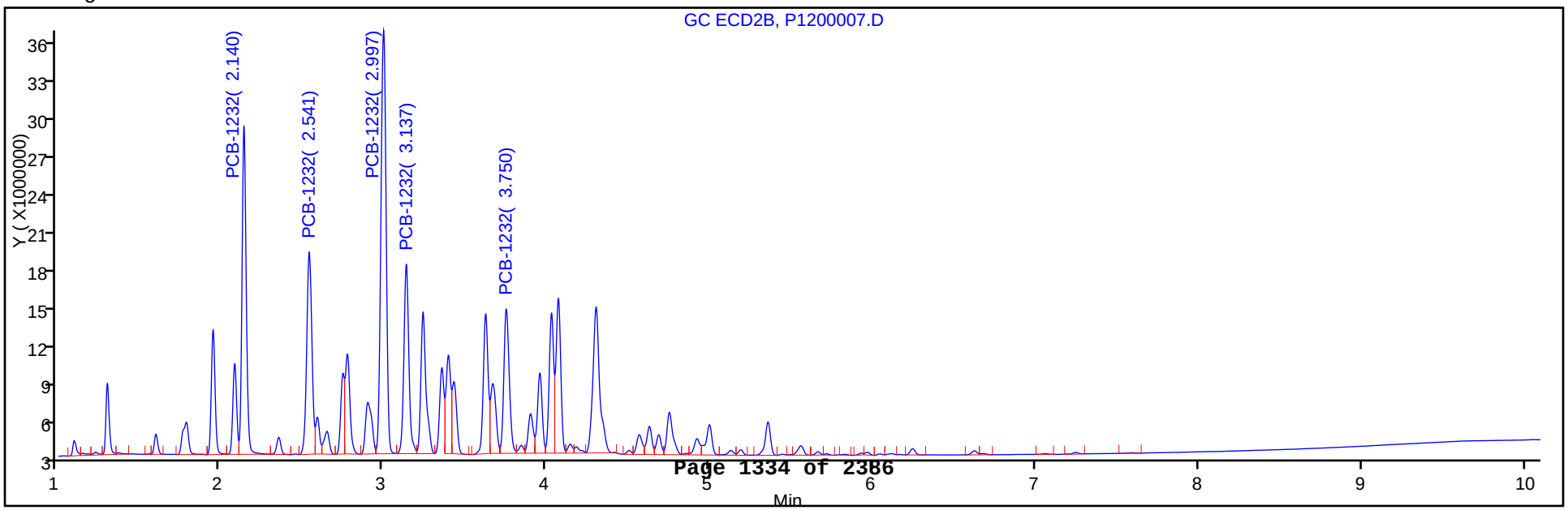
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200007.D

Injection Date:	01-Apr-2013 11:07:17	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200008.D		
Lims ID:	STD2 1232	Client ID:	
Inject. Date:	01-Apr-2013 11:21:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018420-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	80043	Lims Sample ID:	8
Sublist:	chrom-PCB12*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:51	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.577	1.577	0.000	28343544	1.56		100.0	
1	2	1.868	1.868	0.000	22902217	1.56	57.1- 107.1	80.8	
1	3	2.271	2.270	0.001	45330665	1.59	138.6- 188.6	159.9	
1	4	2.393	2.393	0.000	19413307	1.62	43.2- 93.2	68.5	
1	5	2.780	2.777	0.003	18529304	1.58	41.1- 91.1	65.4	
			Average of Peak Amounts =			1.58			
2	6	2.138	2.138	0.000	85474691	1.60		100.0	
2	7	2.540	2.540	0.000	64888909	1.60	47.1- 107.1	75.9	
2	8	2.997	2.996	0.001	142554635	1.77	119.9- 179.9	166.8	
2	9	3.136	3.136	0.000	60155102	1.64	38.2- 98.2	70.4	
2	10	3.749	3.750	-0.001	50031048	1.62	29.2- 89.2	58.5	
			Average of Peak Amounts =			1.65			
						RPD = 3.95			

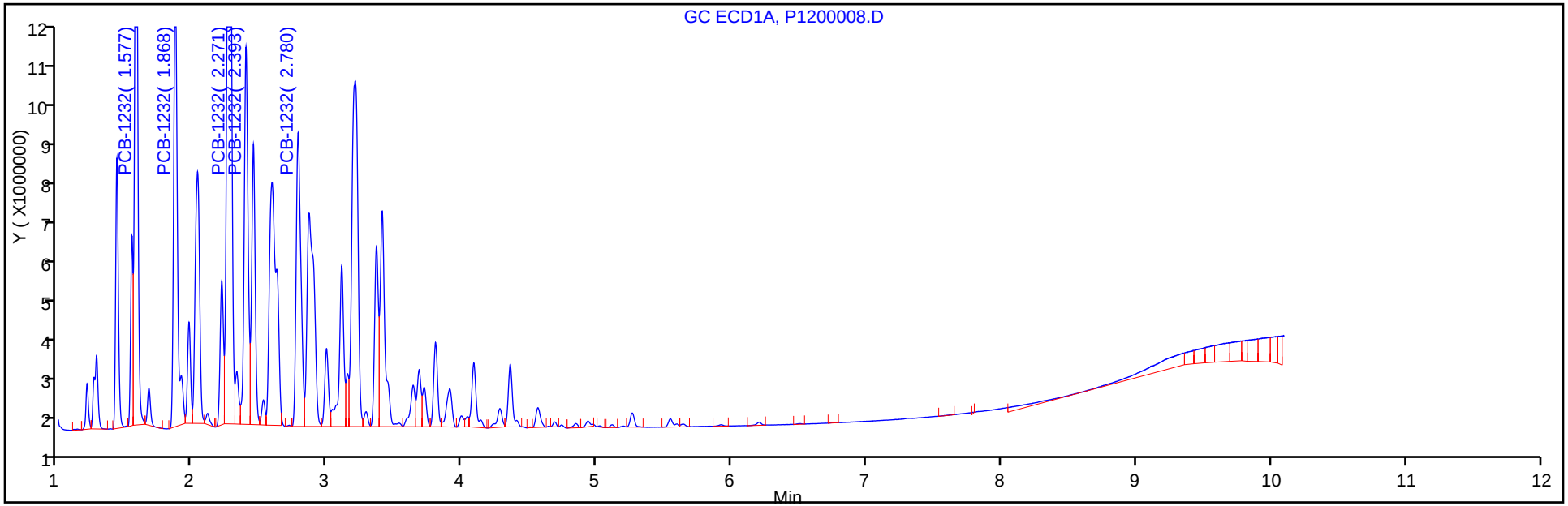
Report Date: 02-Apr-2013 07:01:52 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

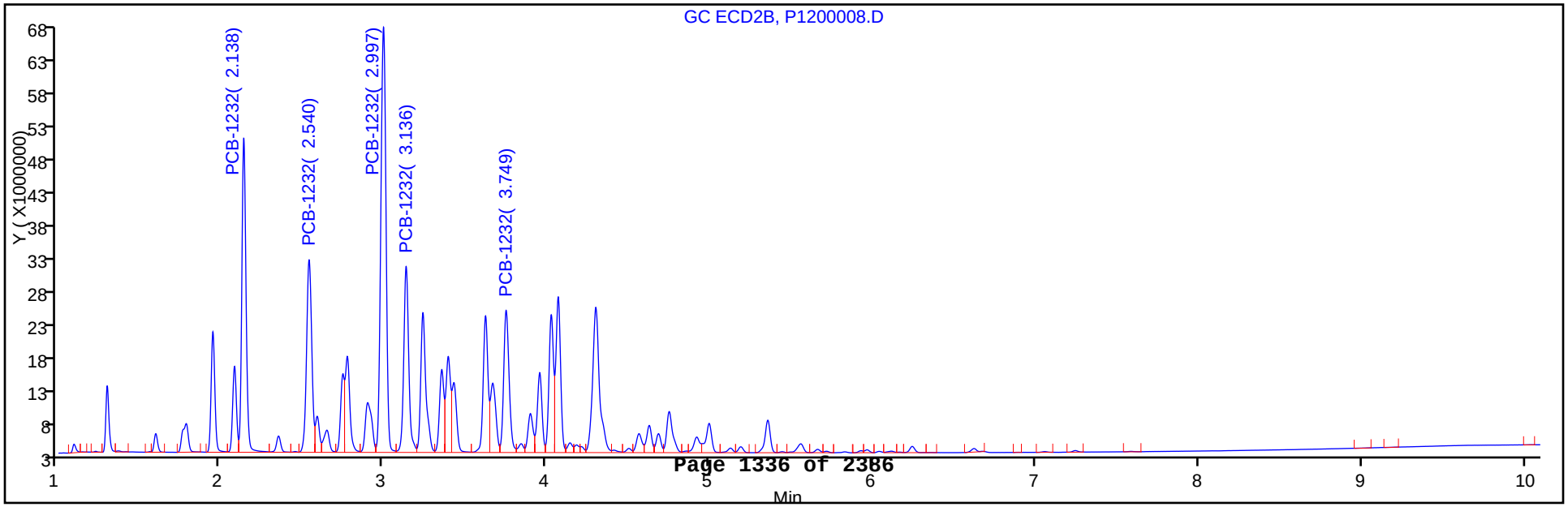
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200008.D

Injection Date:	01-Apr-2013 11:21:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 11:35 Calibration End Date: 04/01/2013 12:48 Calibration ID: 14314

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/9	P1200009.D
Level 2	STD01 240-80043/10	P1200010.D
Level 3	STD02 240-80043/11	P1200011.D
Level 4	STD05 240-80043/12	P1200012.D
Level 5	STD1 240-80043/13	P1200013.D
Level 6	STD2 240-80043/14	P1200014.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	1.575	1.577	1.576	1.577	1.575	1.575					1.525 - 1.625	1.576
PCB-1242 Peak 2	1.865	1.867	1.866	1.869	1.865	1.865					1.815 - 1.915	1.866
PCB-1242 Peak 3	2.265	2.267	2.266	2.268	2.266	2.265					2.215 - 2.315	2.266
PCB-1242 Peak 4	2.388	2.389	2.390	2.391	2.388	2.387					2.338 - 2.438	2.389
PCB-1242 Peak 5	2.775	2.774	2.774	2.776	2.774	2.772					2.725 - 2.825	2.774

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 11:35 Calibration End Date: 04/01/2013 12:48 Calibration ID: 14314

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/9	P1200009.D
Level 2	STD01 240-80043/10	P1200010.D
Level 3	STD02 240-80043/11	P1200011.D
Level 4	STD05 240-80043/12	P1200012.D
Level 5	STD1 240-80043/13	P1200013.D
Level 6	STD2 240-80043/14	P1200014.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	15004320 11367362	14469500 9829978	14244905	12072192	Ave		12831376.1				16.0		20.0			
PCB-1242 Peak 2	29138640 22025518	27926670 20023881	26871100	22716678	Ave		24783747.8				15.0		20.0			
PCB-1242 Peak 3	59522140 48859756	58919450 43061175	52990220	46168508	Ave		51586874.8				13.0		20.0			
PCB-1242 Peak 4	24894700 19950619	24818490 18443819	23729915	20362120	Ave		22033277.2				13.0		20.0			
PCB-1242 Peak 5	27215220 21039397	26720000 19399697	24988185	21505094	Ave		23477932.1				14.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 11:35 Calibration End Date: 04/01/2013 12:48 Calibration ID: 14314

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/9	P1200009.D
Level 2	STD01 240-80043/10	P1200010.D
Level 3	STD02 240-80043/11	P1200011.D
Level 4	STD05 240-80043/12	P1200012.D
Level 5	STD1 240-80043/13	P1200013.D
Level 6	STD2 240-80043/14	P1200014.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	750216 19659955	1446950	2848981	6036096	11367362	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	1456932 40047761	2792667	5374220	11358339	22025518	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	2976107 86122350	5891945	10598044	23084254	48859756	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1244735 36887638	2481849	4745983	10181060	19950619	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Ave	1360761 38799393	2672000	4997637	10752547	21039397	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200009.D
Lims ID: STD005 1242 Client ID:
Inject. Date: 01-Apr-2013 11:35:59 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018420-009
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 80043 Lims Sample ID: 9
Sublist: chrom-PCB12*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:52 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.575	1.575	0.000	750216	0.0585		100.0	
1	2	1.865	1.865	0.000	1456932	0.0588	163.6- 213.6	194.2	
1	3	2.265	2.265	0.000	2976107	0.0577	347.0- 397.0	396.7	
1	4	2.388	2.388	0.000	1244735	0.0565	141.6- 191.6	165.9	
1	5	2.775	2.775	0.000	1360761	0.0580	150.4- 200.4	181.4	
			Average of Peak Amounts =			0.0579			
2	6	2.136	2.136	0.000	2391790	0.0627		100.0	
2	7	2.536	2.536	0.000	4246944	0.0585	162.4- 222.4	177.6	
2	8	2.991	2.991	0.000	7976503	0.0541	348.9- 408.9	333.5	
2	9	3.130	3.130	0.000	3784975	0.0584	136.6- 196.6	158.2	
2	10	3.615	3.615	0.000	3653834	0.0425	108.6- 168.6	152.8	
			Average of Peak Amounts =			0.0552			
						RPD = 4.67			

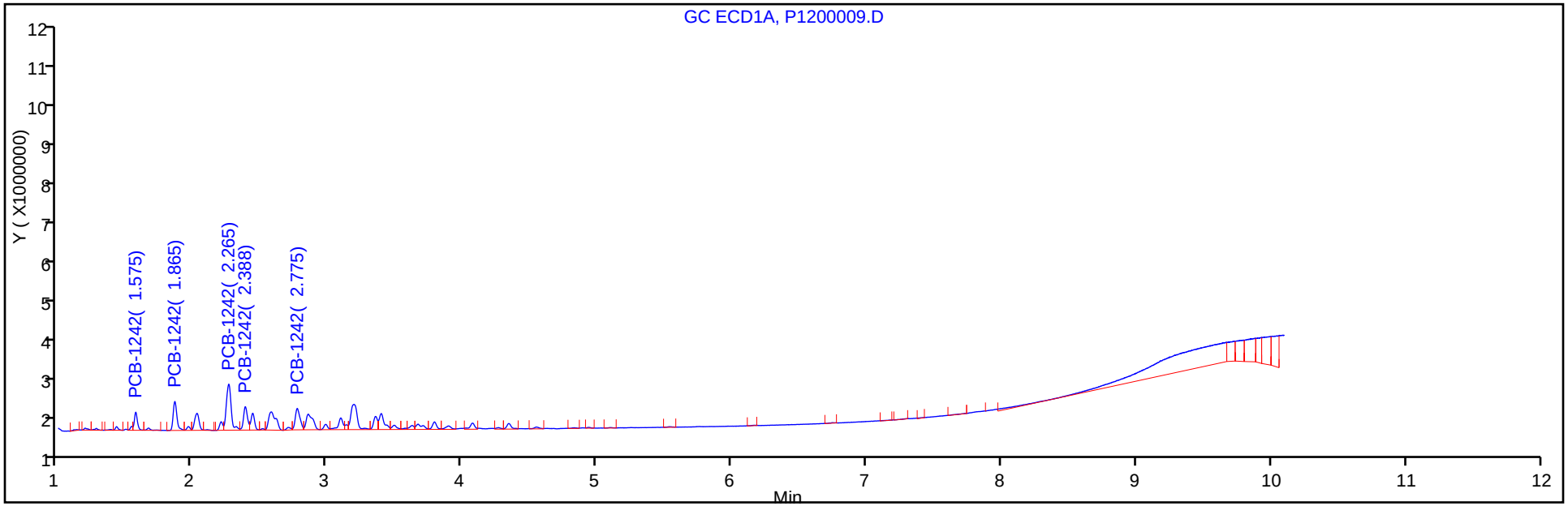
Report Date: 02-Apr-2013 07:01:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

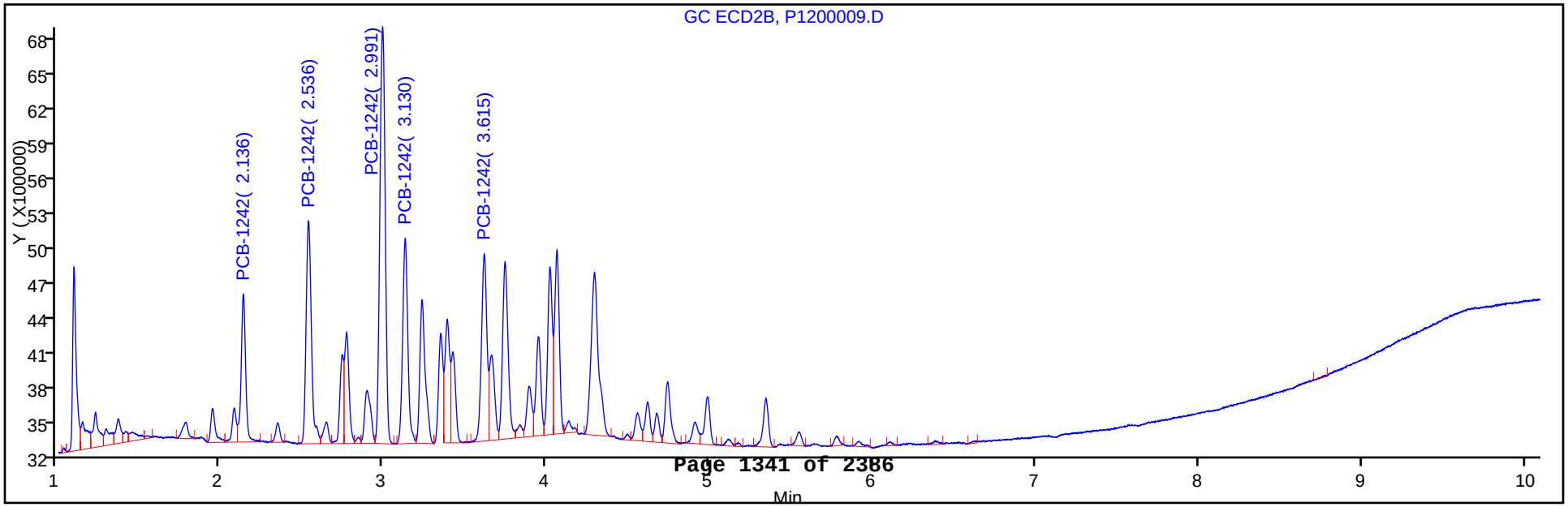
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200009.D

Injection Date:	01-Apr-2013 11:35:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200010.D
Lims ID: STD01 1242 Client ID:
Inject. Date: 01-Apr-2013 11:50:41 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-010
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 80043 Lims Sample ID: 10
Sublist: chrom-PCB12*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:53 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

First Level Reviewer: hassl Date: 02-Apr-2013 06:40:20

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.577	1.575	0.002	1446950	0.1128		100.0	
1	2	1.867	1.865	0.002	2792667	0.1127	163.6- 213.6	193.0	
1	3	2.267	2.265	0.002	5891945	0.1142	347.0- 397.0	407.2	
1	4	2.389	2.388	0.001	2481849	0.1126	141.6- 191.6	171.5	
1	5	2.774	2.775	-0.001	2672000	0.1138	150.4- 200.4	184.7	
			Average of Peak Amounts =			0.1132			
2	6	2.136	2.136	0.000	4307986	0.1130		100.0	
2	7	2.537	2.536	0.001	8176989	0.1127	162.4- 222.4	189.8	
2	8	2.991	2.991	0.000	15634863	0.1060	348.9- 408.9	362.9	
2	9	3.130	3.130	0.000	7103119	0.1096	136.6- 196.6	164.9	
2	10	3.615	3.615	0.000	6694459	0.1102	108.6- 168.6	155.4	
			Average of Peak Amounts =			0.1103			
						RPD = 2.62			

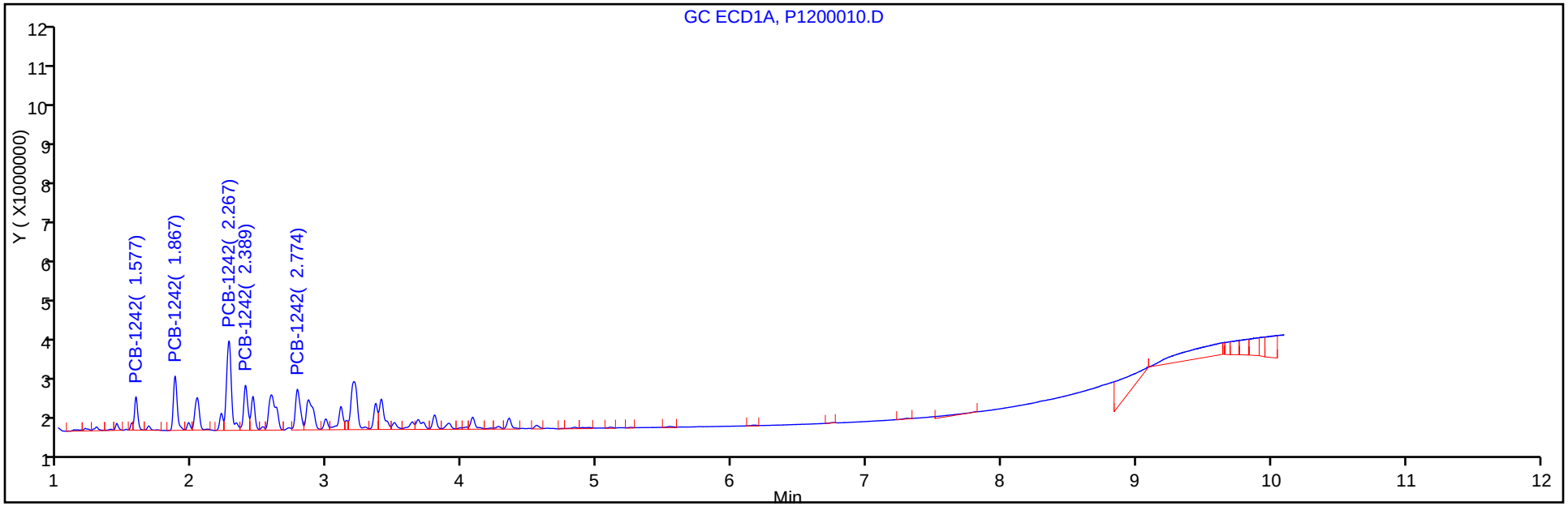
Report Date: 02-Apr-2013 07:01:54 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

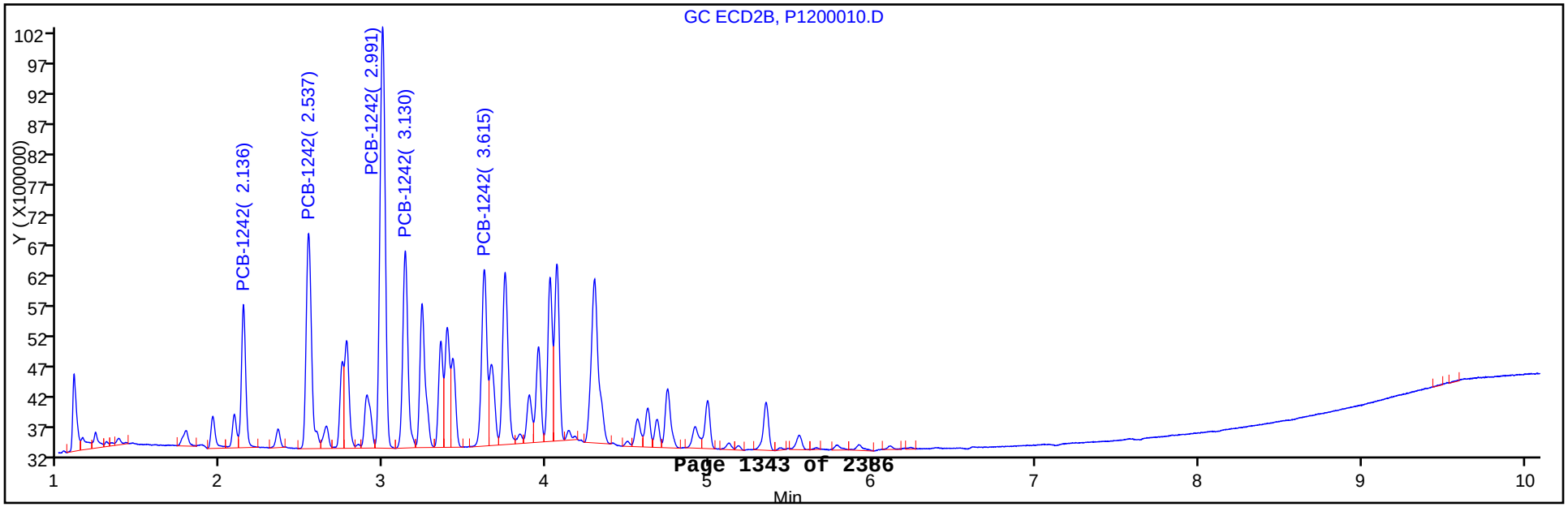
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200010.D

Injection Date:	01-Apr-2013 11:50:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200011.D		
Lims ID:	STD02 1242	Client ID:	
Inject. Date:	01-Apr-2013 12:05:17	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018420-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	80043	Lims Sample ID:	11
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:54	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:39:07

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.576	1.575	0.001	2848981	0.2220		100.0	
1	2	1.866	1.865	0.001	5374220	0.2168	163.6- 213.6	188.6	
1	3	2.266	2.265	0.001	10598044	0.2054	347.0- 397.0	372.0	
1	4	2.390	2.388	0.002	4745983	0.2154	141.6- 191.6	166.6	
1	5	2.774	2.775	-0.001	4997637	0.2129	150.4- 200.4	175.4	
			Average of Peak Amounts =			0.2145			
2	6	2.137	2.136	0.001	8036317	0.2108		100.0	
2	7	2.536	2.536	0.000	15460475	0.2131	162.4- 222.4	192.4	
2	8	2.992	2.991	0.001	30449231	0.2064	348.9- 408.9	378.9	
2	9	3.130	3.130	0.000	13387463	0.2066	136.6- 196.6	166.6	
2	10	3.617	3.615	0.002	11134618	0.2092	108.6- 168.6	138.6	
			Average of Peak Amounts =			0.2092			
						RPD = 2.51			

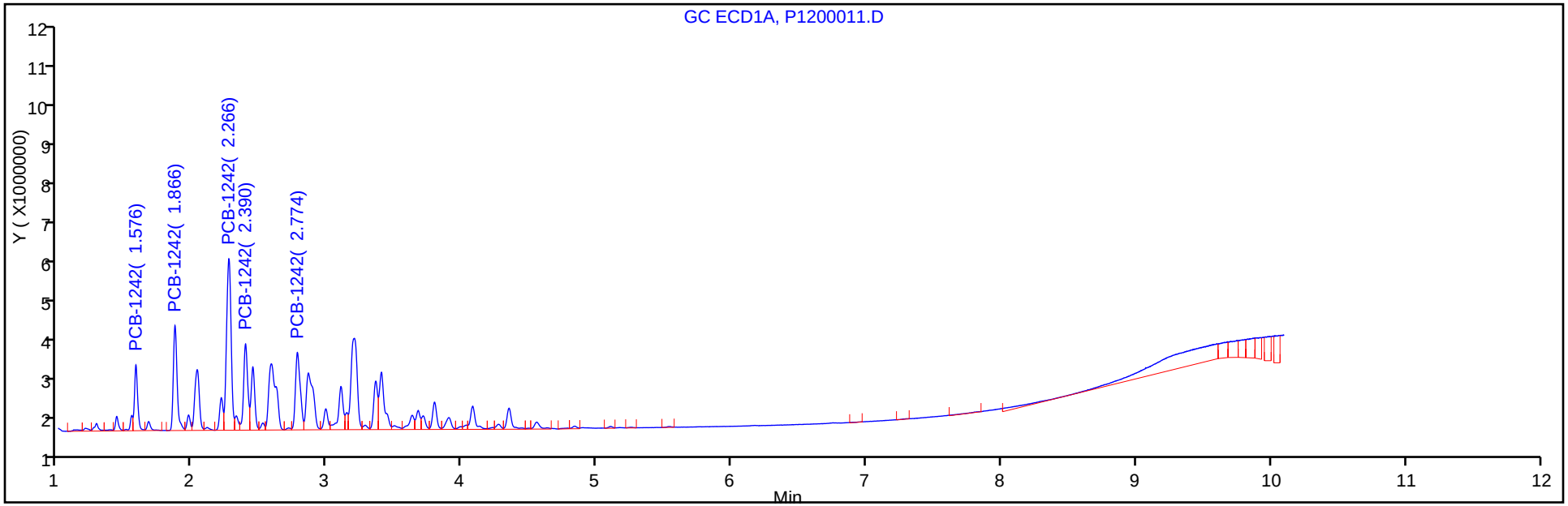
Report Date: 02-Apr-2013 07:01:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

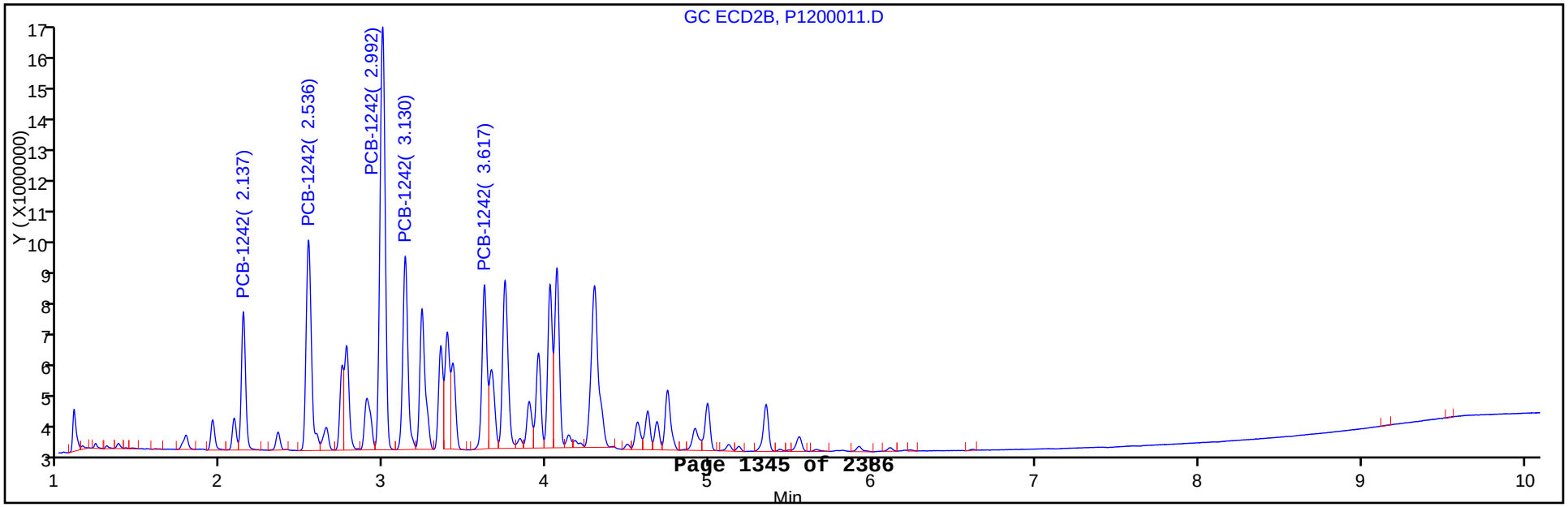
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200011.D

Injection Date:	01-Apr-2013 12:05:17	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200012.D		
Lims ID:	STD05 1242	Client ID:	
Inject. Date:	01-Apr-2013 12:19:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018420-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	80043	Lims Sample ID:	12
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:56	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:42:13

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.577	1.575	0.002	6036096	0.4704		100.0	M
1	2	1.869	1.865	0.004	11358339	0.4583	163.6- 213.6	188.2	
1	3	2.268	2.265	0.003	23084254	0.4475	347.0- 397.0	382.4	
1	4	2.391	2.388	0.003	10181060	0.4621	141.6- 191.6	168.7	
1	5	2.776	2.775	0.001	10752547	0.4580	150.4- 200.4	178.1	
			Average of Peak Amounts =			0.4593			
2	6	2.138	2.136	0.002	16894463	0.4432		100.0	
2	7	2.537	2.536	0.001	32912429	0.4536	162.4- 222.4	194.8	
2	8	2.992	2.991	0.001	68830972	0.4665	348.9- 408.9	407.4	
2	9	3.131	3.130	0.001	29713497	0.4584	136.6- 196.6	175.9	
2	10	3.618	3.615	0.003	24007561	0.4960	108.6- 168.6	142.1	
			Average of Peak Amounts =			0.4635			
						RPD = 0.93			

QC Flag Legend

Review Flags
M - Manually Integrated

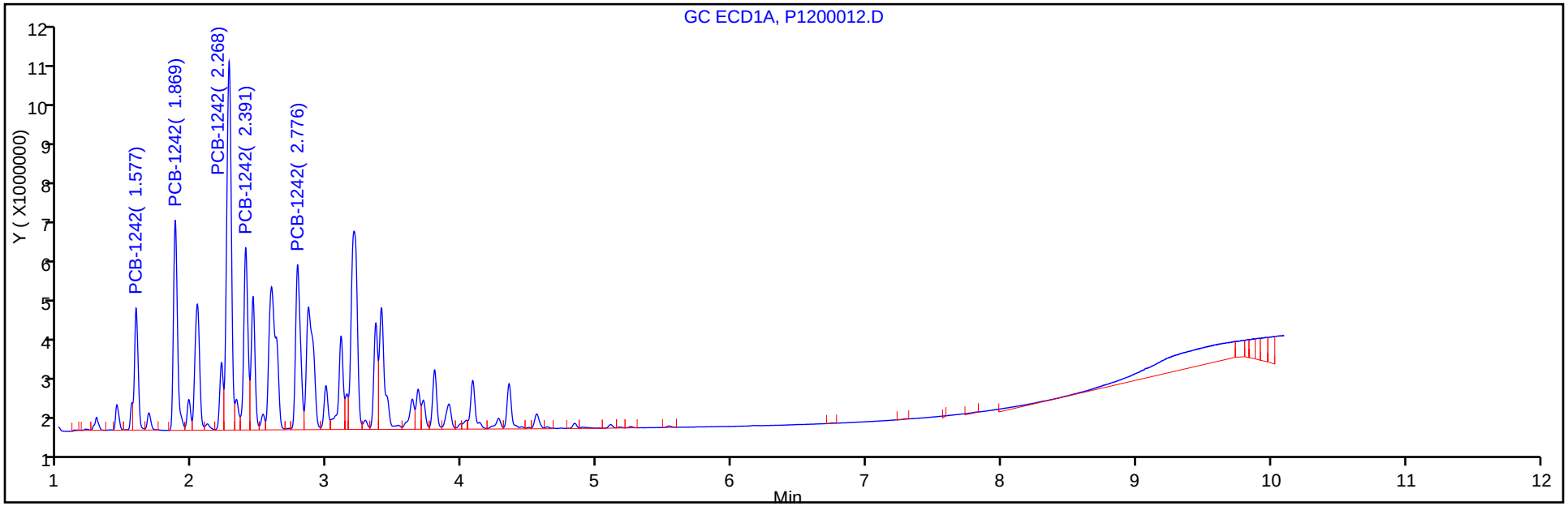
Report Date: 02-Apr-2013 07:01:56 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

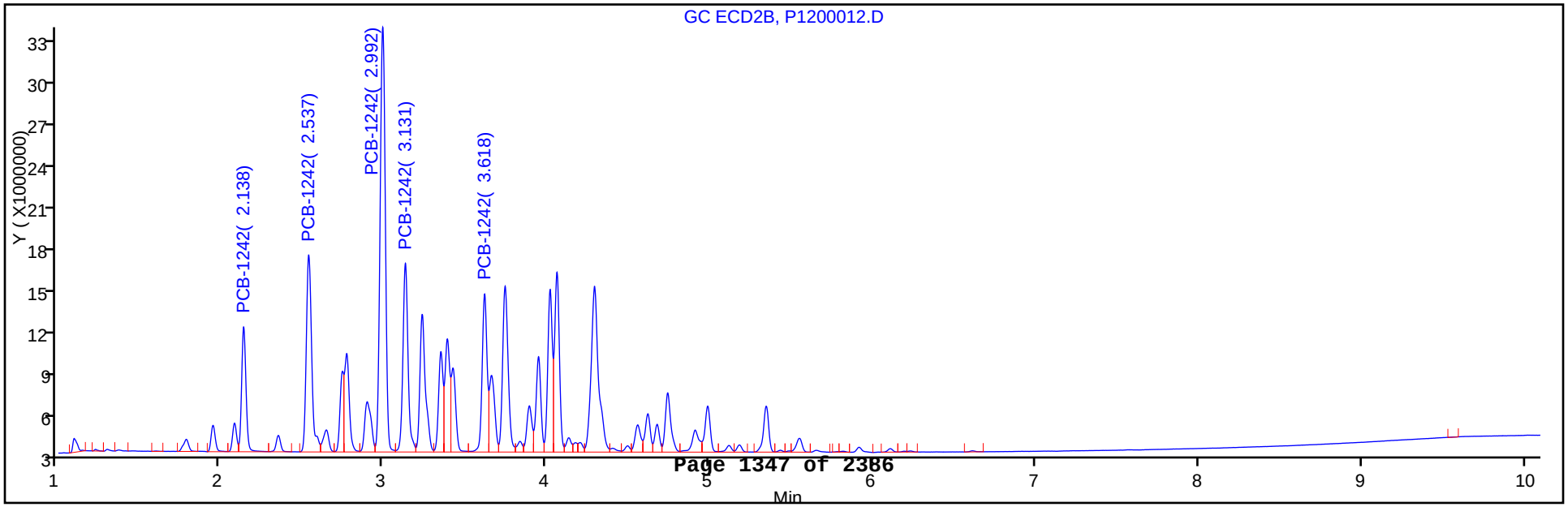
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200012.D

Injection Date:	01-Apr-2013 12:19:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



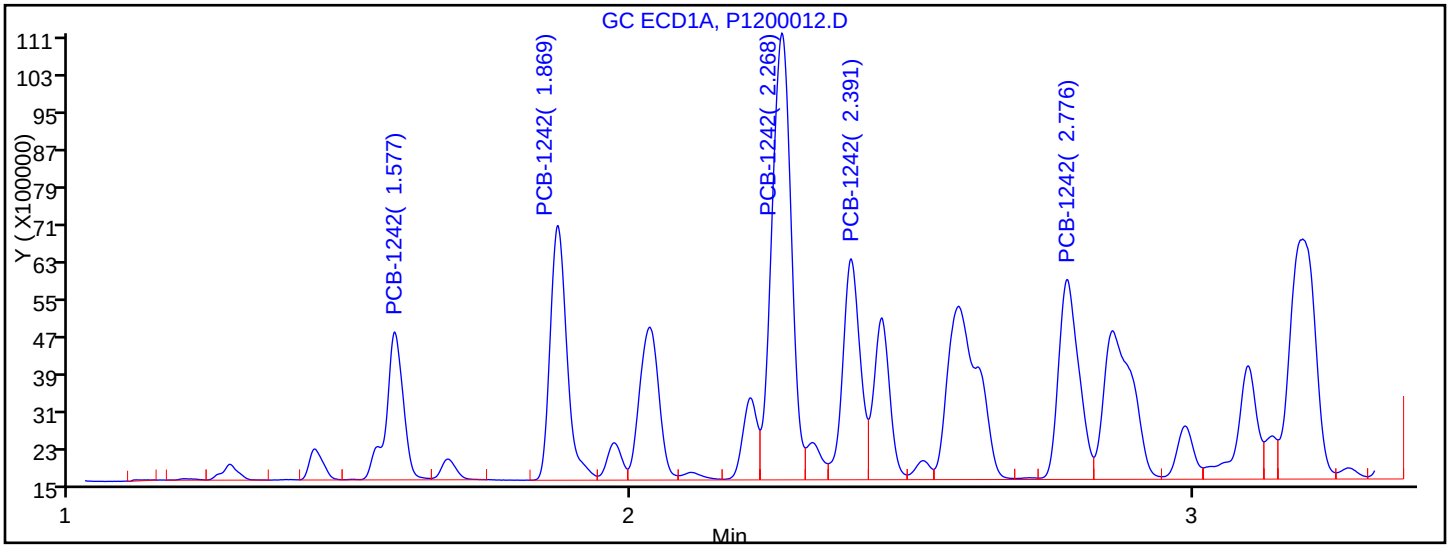
Report Date: 02-Apr-2013 07:01:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200012.D

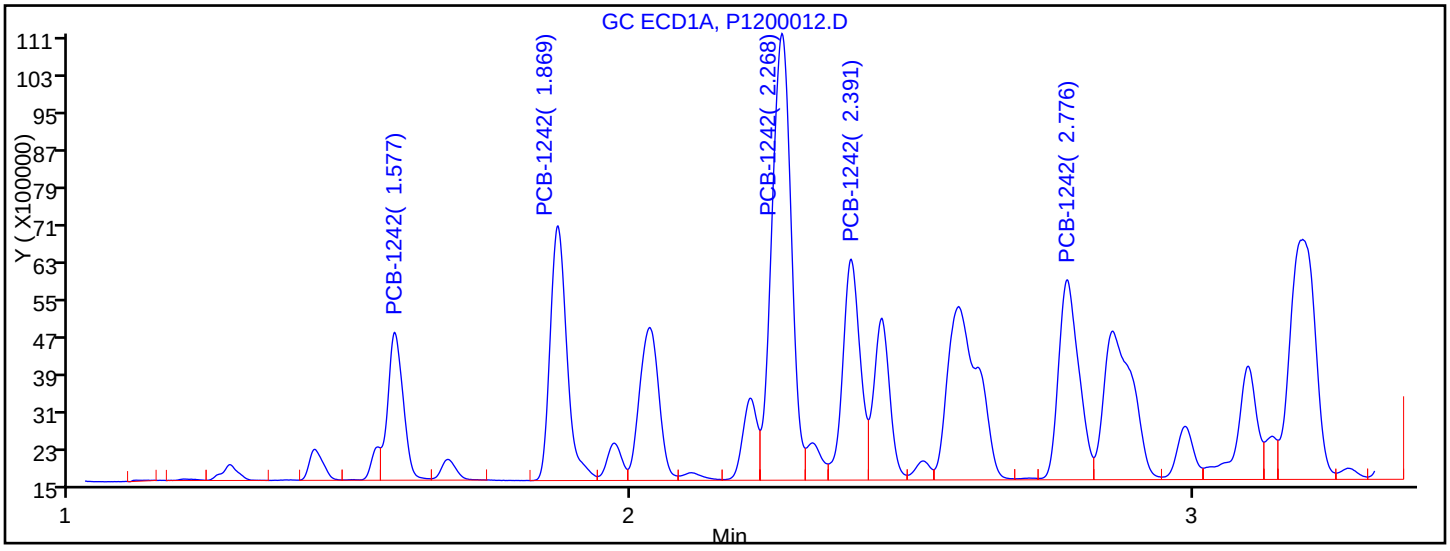
Injection Date:	01-Apr-2013 12:19:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 PCB-1242, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.577	Response = 6804663	M
RT = 1.869	Response = 11358339	
RT = 2.268	Response = 23084254	
RT = 2.391	Response = 10181060	
RT = 2.776	Response = 10752547	



Manual Integration Results

RT = 1.577	Response = 6036096	M
RT = 1.869	Response = 11358339	
RT = 2.268	Response = 23084254	
RT = 2.391	Response = 10181060	
RT = 2.776	Response = 10752547	

Reviewer: hassl, 02-Apr-2013 06:44:57

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200013.D
Lims ID: STD1 1242 Client ID:
Inject. Date: 01-Apr-2013 12:33:59 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-013
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 80043 Lims Sample ID: 13
Sublist: chrom-PCB12*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:57 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.575	1.575	0.000	11367362	0.8859		100.0	
1	2	1.865	1.865	0.000	22025518	0.8887	163.6- 213.6	193.8	
1	3	2.266	2.265	0.001	48859756	0.9471	347.0- 397.0	429.8	
1	4	2.388	2.388	0.000	19950619	0.9055	141.6- 191.6	175.5	
1	5	2.774	2.775	-0.001	21039397	0.8961	150.4- 200.4	185.1	
			Average of Peak Amounts =			0.9047			
2	6	2.136	2.136	0.000	33160800	0.8699		100.0	
2	7	2.537	2.536	0.001	65463911	0.9022	162.4- 222.4	197.4	
2	8	2.992	2.991	0.001	143305385	0.9713	348.9- 408.9	432.2	
2	9	3.131	3.130	0.001	60290356	0.9302	136.6- 196.6	181.8	
2	10	3.617	3.615	0.002	47957714	1.03	108.6- 168.6	144.6	
			Average of Peak Amounts =			0.9406			
						RPD = 3.90			

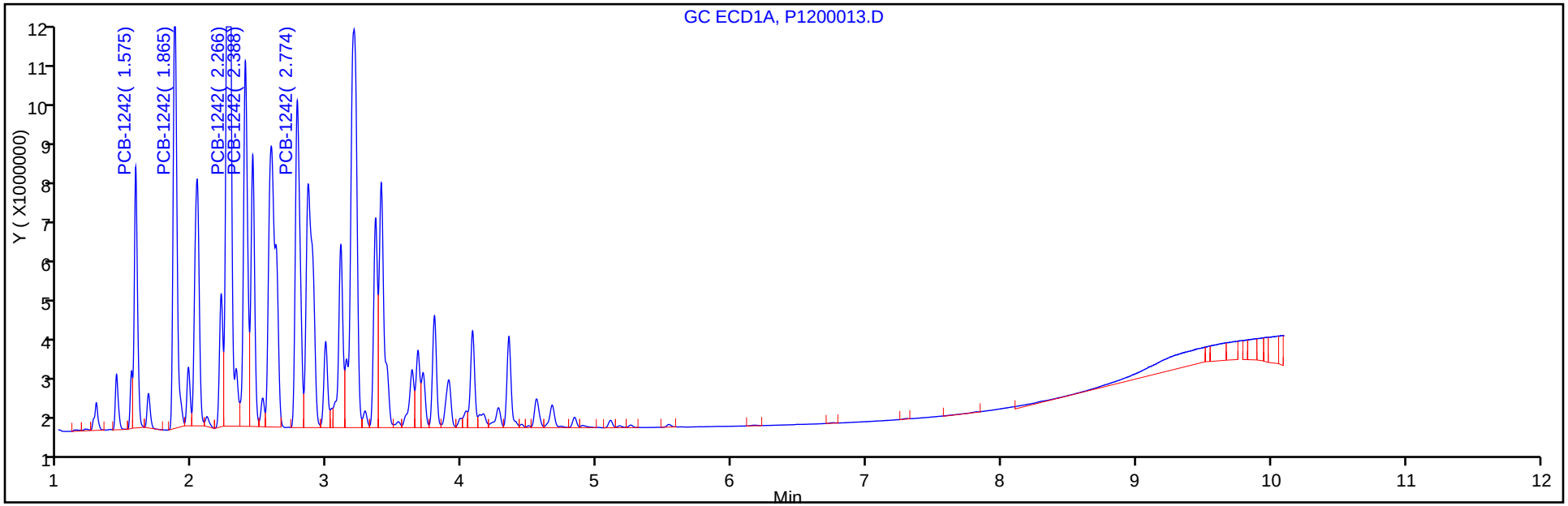
Report Date: 02-Apr-2013 07:01:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

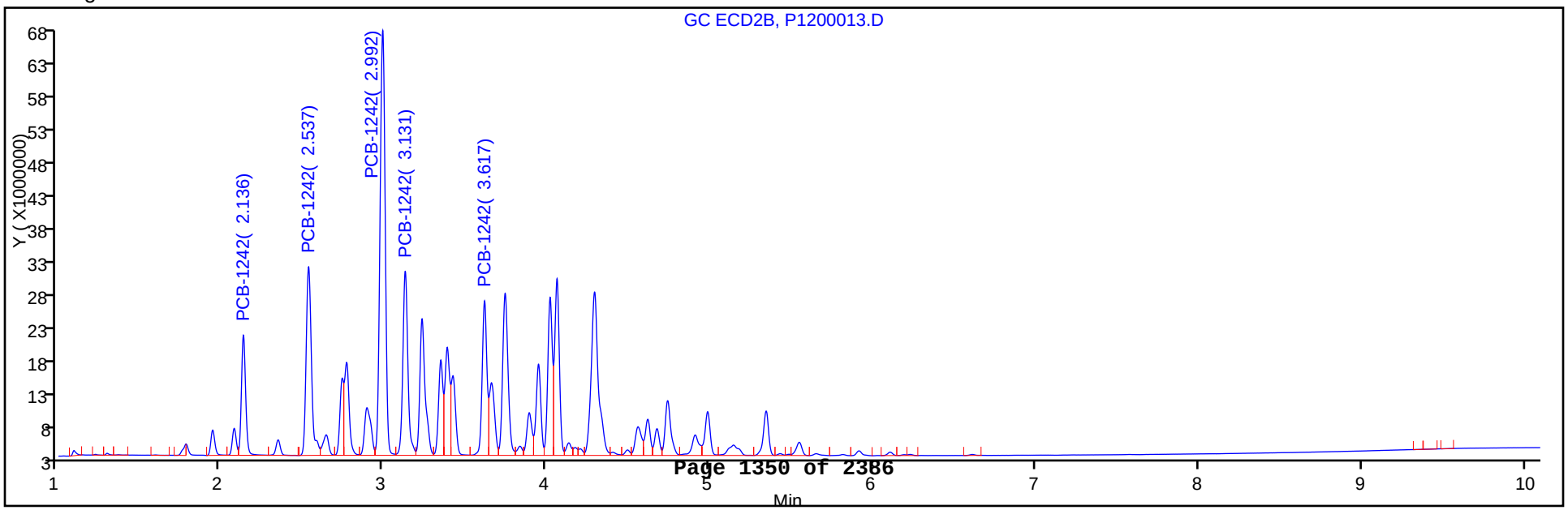
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200013.D

Injection Date:	01-Apr-2013 12:33:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200014.D		
Lims ID:	STD2 1242	Client ID:	
Inject. Date:	01-Apr-2013 12:48:08	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018420-014		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	14
Lims Batch ID:	80043	Lims Sample ID:	14
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:58	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:44:07

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.575	1.575	0.000	19659955	1.53		100.0	
1	2	1.865	1.865	0.000	40047761	1.62	163.6- 213.6	203.7	
1	3	2.265	2.265	0.000	86122350	1.67	347.0- 397.0	438.1	
1	4	2.387	2.388	-0.001	36887638	1.67	141.6- 191.6	187.6	
1	5	2.772	2.775	-0.003	38799393	1.65	150.4- 200.4	197.4	
			Average of Peak Amounts =			1.63			
2	6	2.136	2.136	0.000	61374294	1.61		100.0	
2	7	2.536	2.536	0.000	120148888	1.66	162.4- 222.4	195.8	
2	8	2.991	2.991	0.000	272378981	1.85	348.9- 408.9	443.8	
2	9	3.131	3.130	0.001	110987094	1.71	136.6- 196.6	180.8	
2	10	3.617	3.615	0.002	89815049	1.96	108.6- 168.6	146.3	
			Average of Peak Amounts =			1.76			
						RPD = 7.59			

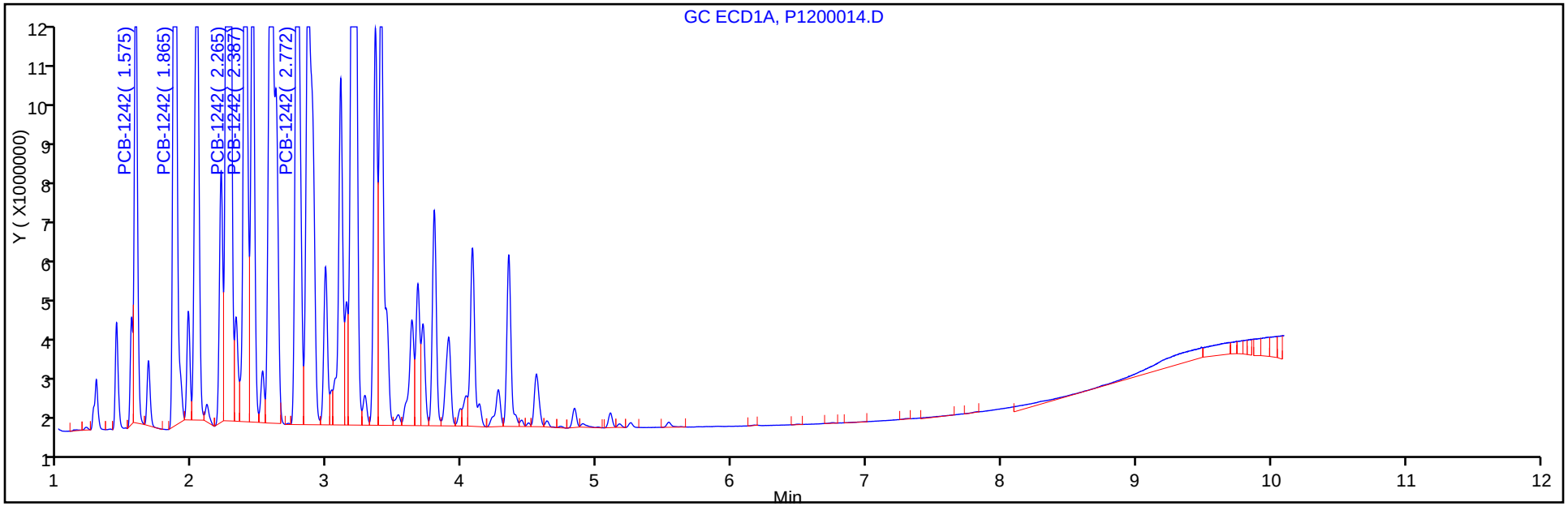
Report Date: 02-Apr-2013 07:01:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

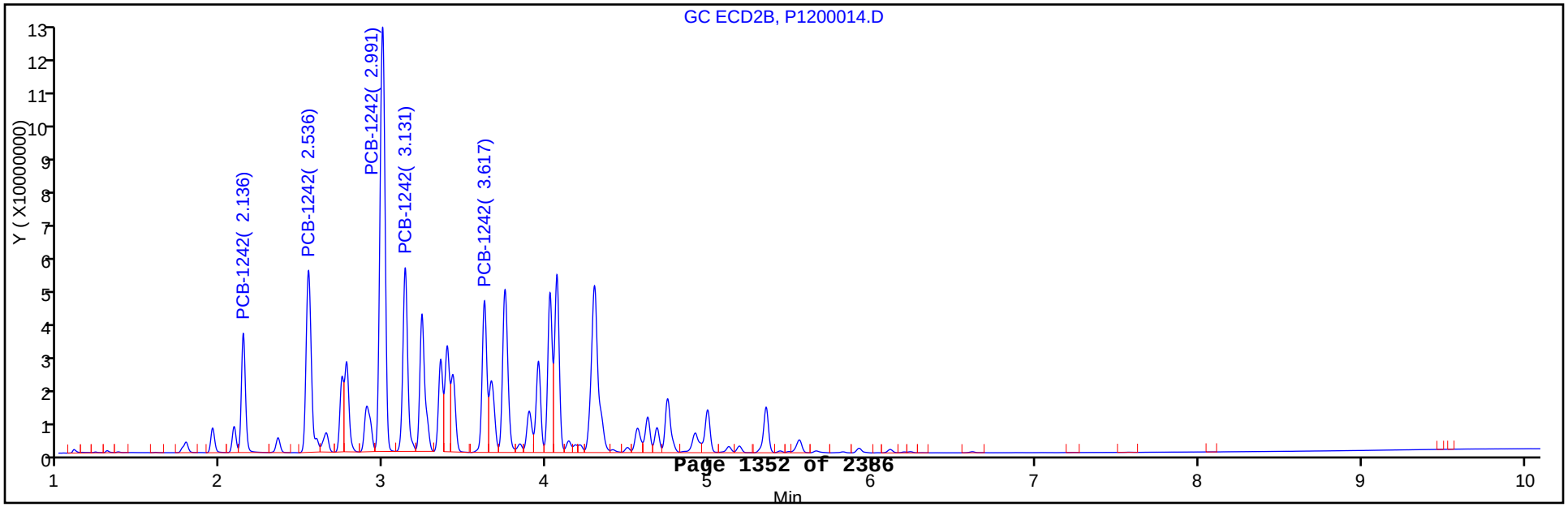
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200014.D

Injection Date:	01-Apr-2013 12:48:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 11:35 Calibration End Date: 04/01/2013 12:48 Calibration ID: 14315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/9	P1200009.D
Level 2	STD01 240-80043/10	P1200010.D
Level 3	STD02 240-80043/11	P1200011.D
Level 4	STD05 240-80043/12	P1200012.D
Level 5	STD1 240-80043/13	P1200013.D
Level 6	STD2 240-80043/14	P1200014.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	2.136	2.136	2.137	2.138	2.136	2.136					2.086 - 2.186	2.137
PCB-1242 Peak 2	2.536	2.537	2.536	2.537	2.537	2.536					2.486 - 2.586	2.537
PCB-1242 Peak 3	2.991	2.991	2.992	2.992	2.992	2.991					2.941 - 3.041	2.992
PCB-1242 Peak 4	3.130	3.130	3.130	3.131	3.131	3.131					3.080 - 3.180	3.131
PCB-1242 Peak 5	3.615	3.615	3.617	3.618	3.617	3.617					3.565 - 3.665	3.617

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 11:35 Calibration End Date: 04/01/2013 12:48 Calibration ID: 14315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/9	P1200009.D
Level 2	STD01 240-80043/10	P1200010.D
Level 3	STD02 240-80043/11	P1200011.D
Level 4	STD05 240-80043/12	P1200012.D
Level 5	STD1 240-80043/13	P1200013.D
Level 6	STD2 240-80043/14	P1200014.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	47835800 33160800	43079860 30687147	40181585	33788926	Ave		38122353.0				17.0		20.0			
PCB-1242 Peak 2	84938880 65463911	81769890 60074444	77302375	65824858	Ave		72562393.0				14.0		20.0			
PCB-1242 Peak 3	159530060 143305385	156348630 136189491	152246155	137661944	Ave		147546944				6.7		20.0			
PCB-1242 Peak 4	75699500 60290356	71031190 55493547	66937315	59426994	Ave		64813150.3				12.0		20.0			
PCB-1242 Peak 5	73076680 47957714	66944590 44907525	55673090	48015122	Lin1	1748569.96	44875796.2							0.9990		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 11:35 Calibration End Date: 04/01/2013 12:48 Calibration ID: 14315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/9	P1200009.D
Level 2	STD01 240-80043/10	P1200010.D
Level 3	STD02 240-80043/11	P1200011.D
Level 4	STD05 240-80043/12	P1200012.D
Level 5	STD1 240-80043/13	P1200013.D
Level 6	STD2 240-80043/14	P1200014.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	2391790 61374294	4307986	8036317	16894463	33160800	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	4246944 120148888	8176989	15460475	32912429	65463911	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	7976503 272378981	15634863	30449231	68830972	143305385	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	3784975 110987094	7103119	13387463	29713497	60290356	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Lin1	3653834 89815049	6694459	11134618	24007561	47957714	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200009.D
Lims ID: STD005 1242 Client ID:
Inject. Date: 01-Apr-2013 11:35:59 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018420-009
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 80043 Lims Sample ID: 9
Sublist: chrom-PCB12*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:52 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.575	1.575	0.000	750216	0.0585		100.0	
1	2	1.865	1.865	0.000	1456932	0.0588	163.6- 213.6	194.2	
1	3	2.265	2.265	0.000	2976107	0.0577	347.0- 397.0	396.7	
1	4	2.388	2.388	0.000	1244735	0.0565	141.6- 191.6	165.9	
1	5	2.775	2.775	0.000	1360761	0.0580	150.4- 200.4	181.4	
			Average of Peak Amounts =			0.0579			
2	6	2.136	2.136	0.000	2391790	0.0627		100.0	
2	7	2.536	2.536	0.000	4246944	0.0585	162.4- 222.4	177.6	
2	8	2.991	2.991	0.000	7976503	0.0541	348.9- 408.9	333.5	
2	9	3.130	3.130	0.000	3784975	0.0584	136.6- 196.6	158.2	
2	10	3.615	3.615	0.000	3653834	0.0425	108.6- 168.6	152.8	
			Average of Peak Amounts =			0.0552			
						RPD = 4.67			

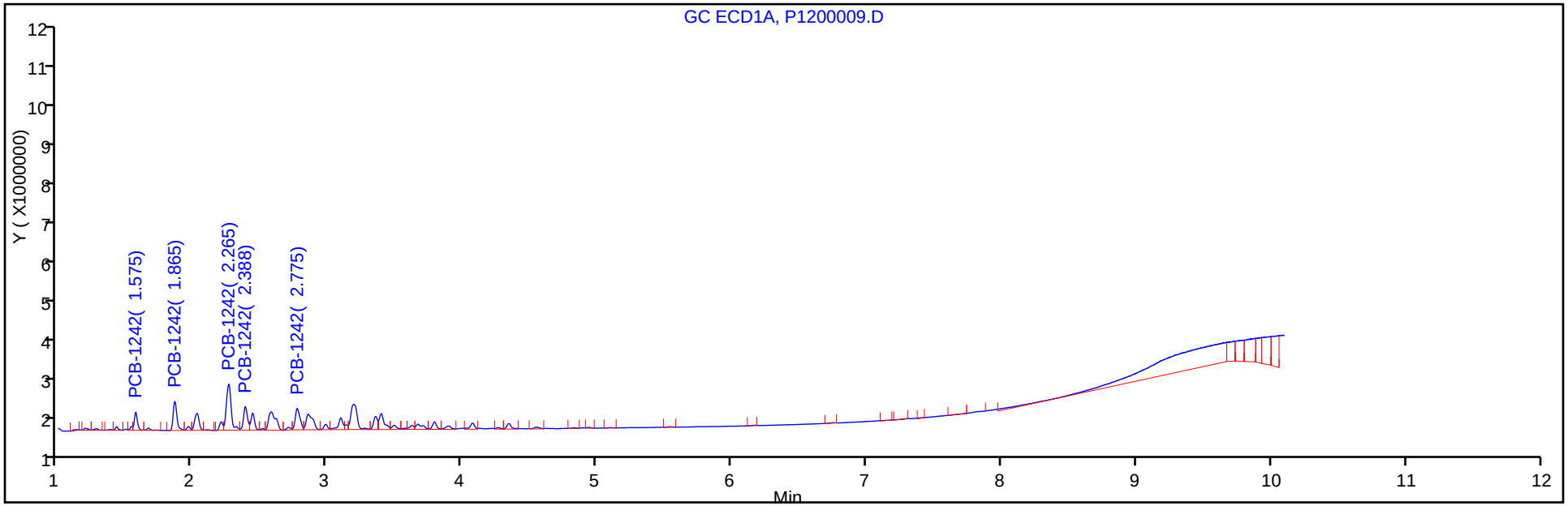
Report Date: 02-Apr-2013 07:01:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

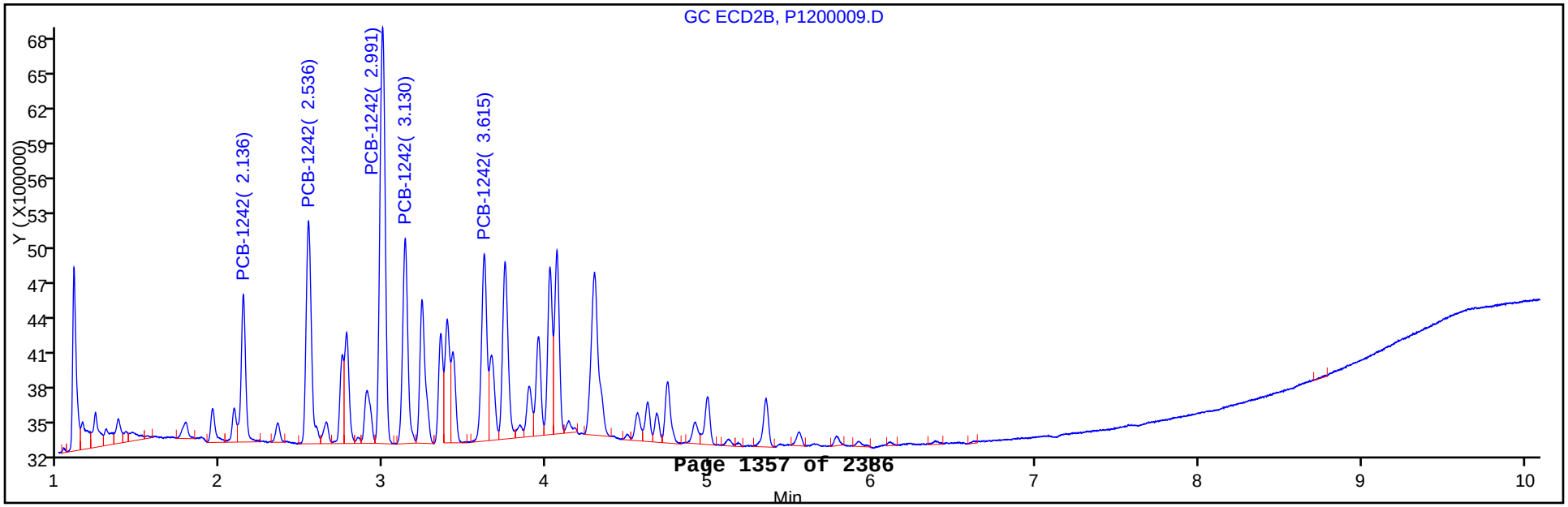
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200009.D

Injection Date:	01-Apr-2013 11:35:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200010.D		
Lims ID:	STD01 1242	Client ID:	
Inject. Date:	01-Apr-2013 11:50:41	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018420-010		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	80043	Lims Sample ID:	10
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:53	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:40:20

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.577	1.575	0.002	1446950	0.1128		100.0	
1	2	1.867	1.865	0.002	2792667	0.1127	163.6- 213.6	193.0	
1	3	2.267	2.265	0.002	5891945	0.1142	347.0- 397.0	407.2	
1	4	2.389	2.388	0.001	2481849	0.1126	141.6- 191.6	171.5	
1	5	2.774	2.775	-0.001	2672000	0.1138	150.4- 200.4	184.7	
			Average of Peak Amounts =			0.1132			
2	6	2.136	2.136	0.000	4307986	0.1130		100.0	
2	7	2.537	2.536	0.001	8176989	0.1127	162.4- 222.4	189.8	
2	8	2.991	2.991	0.000	15634863	0.1060	348.9- 408.9	362.9	
2	9	3.130	3.130	0.000	7103119	0.1096	136.6- 196.6	164.9	
2	10	3.615	3.615	0.000	6694459	0.1102	108.6- 168.6	155.4	
			Average of Peak Amounts =			0.1103			
						RPD = 2.62			

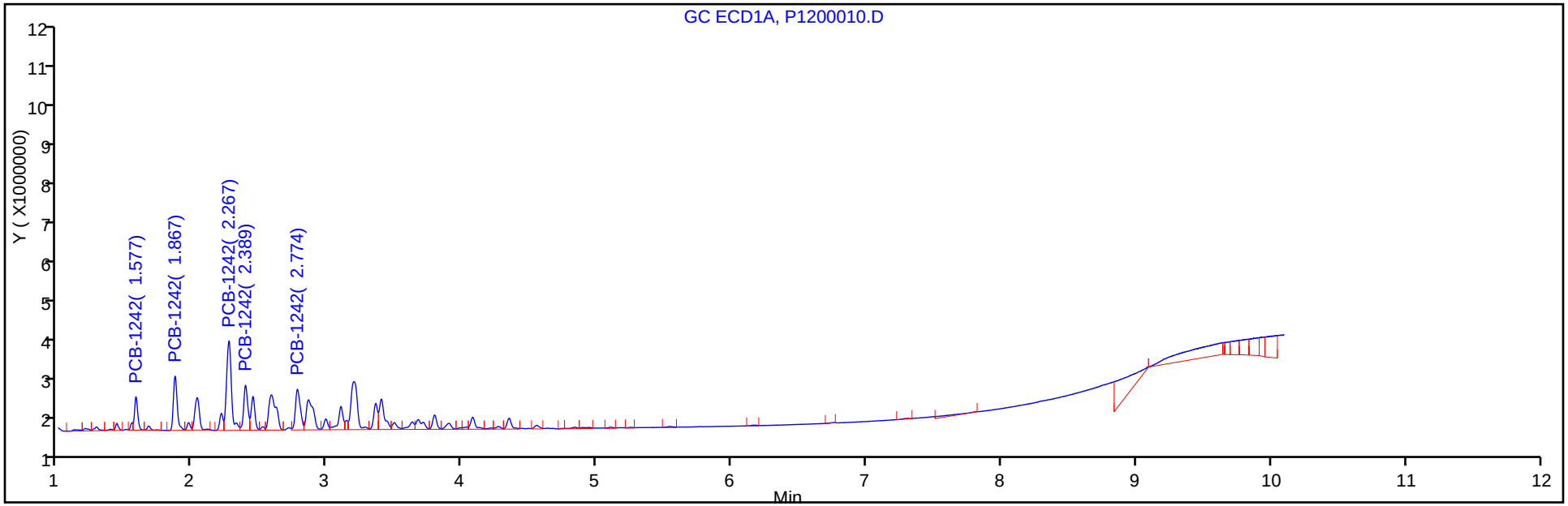
Report Date: 02-Apr-2013 07:01:54 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

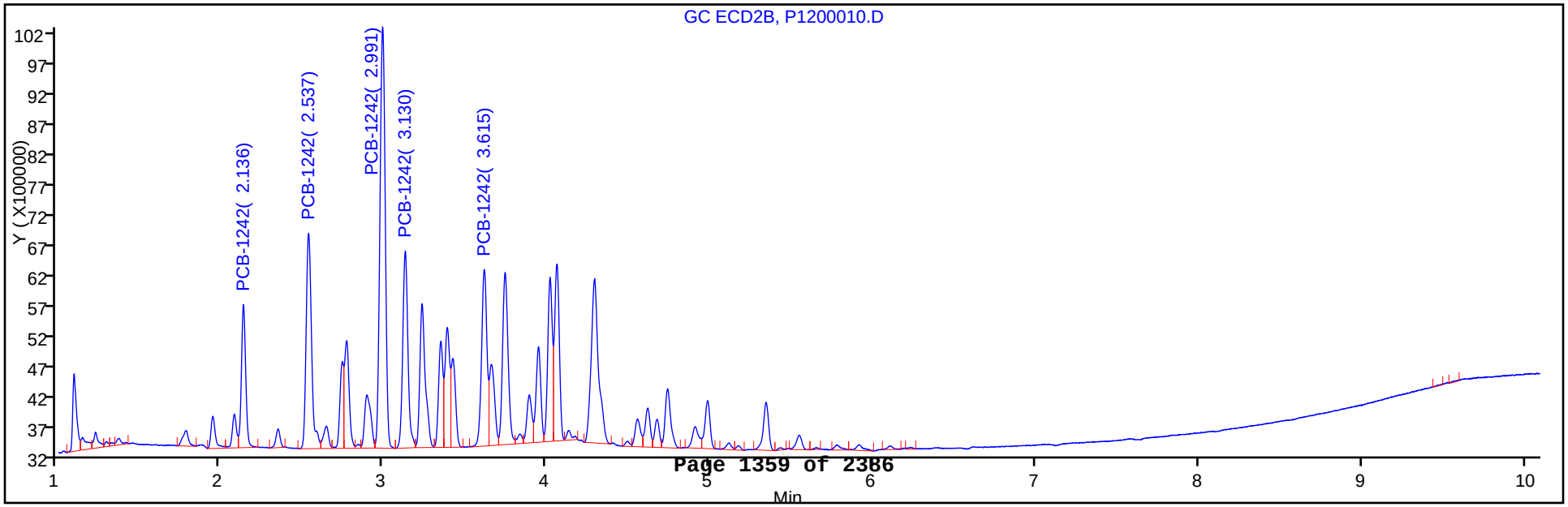
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200010.D

Injection Date:	01-Apr-2013 11:50:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200011.D		
Lims ID:	STD02 1242	Client ID:	
Inject. Date:	01-Apr-2013 12:05:17	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018420-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	80043	Lims Sample ID:	11
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:54	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:39:07

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.576	1.575	0.001	2848981	0.2220		100.0	
1	2	1.866	1.865	0.001	5374220	0.2168	163.6- 213.6	188.6	
1	3	2.266	2.265	0.001	10598044	0.2054	347.0- 397.0	372.0	
1	4	2.390	2.388	0.002	4745983	0.2154	141.6- 191.6	166.6	
1	5	2.774	2.775	-0.001	4997637	0.2129	150.4- 200.4	175.4	
			Average of Peak Amounts =			0.2145			
2	6	2.137	2.136	0.001	8036317	0.2108		100.0	
2	7	2.536	2.536	0.000	15460475	0.2131	162.4- 222.4	192.4	
2	8	2.992	2.991	0.001	30449231	0.2064	348.9- 408.9	378.9	
2	9	3.130	3.130	0.000	13387463	0.2066	136.6- 196.6	166.6	
2	10	3.617	3.615	0.002	11134618	0.2092	108.6- 168.6	138.6	
			Average of Peak Amounts =			0.2092			
						RPD = 2.51			

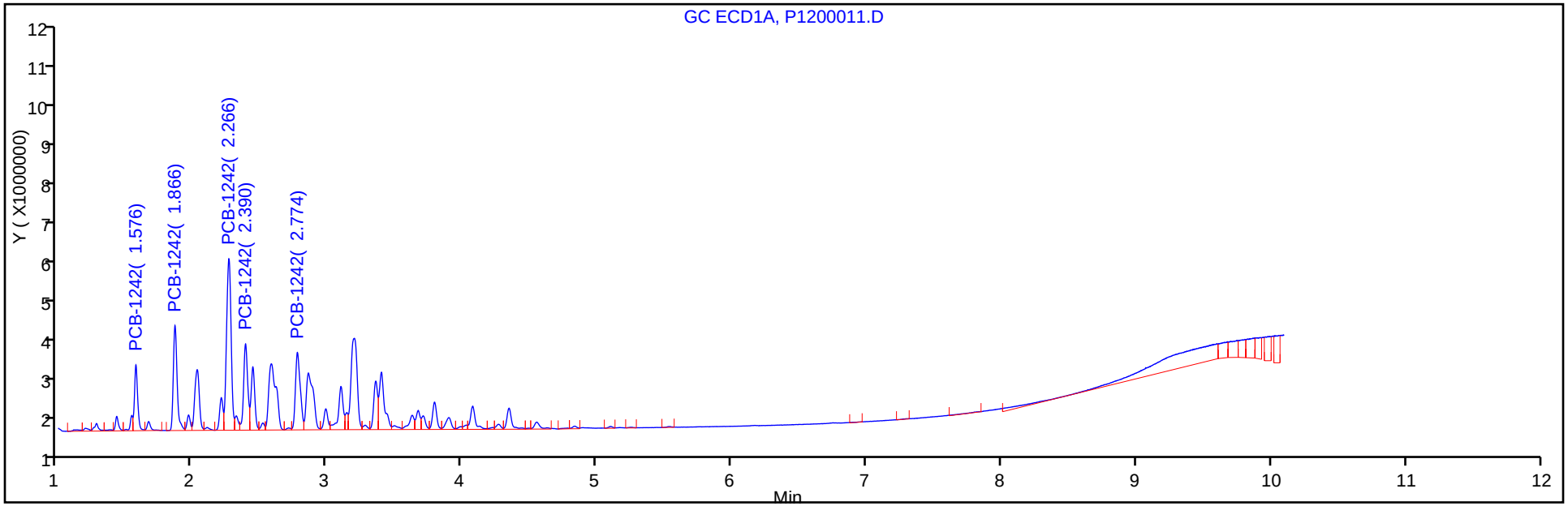
Report Date: 02-Apr-2013 07:01:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

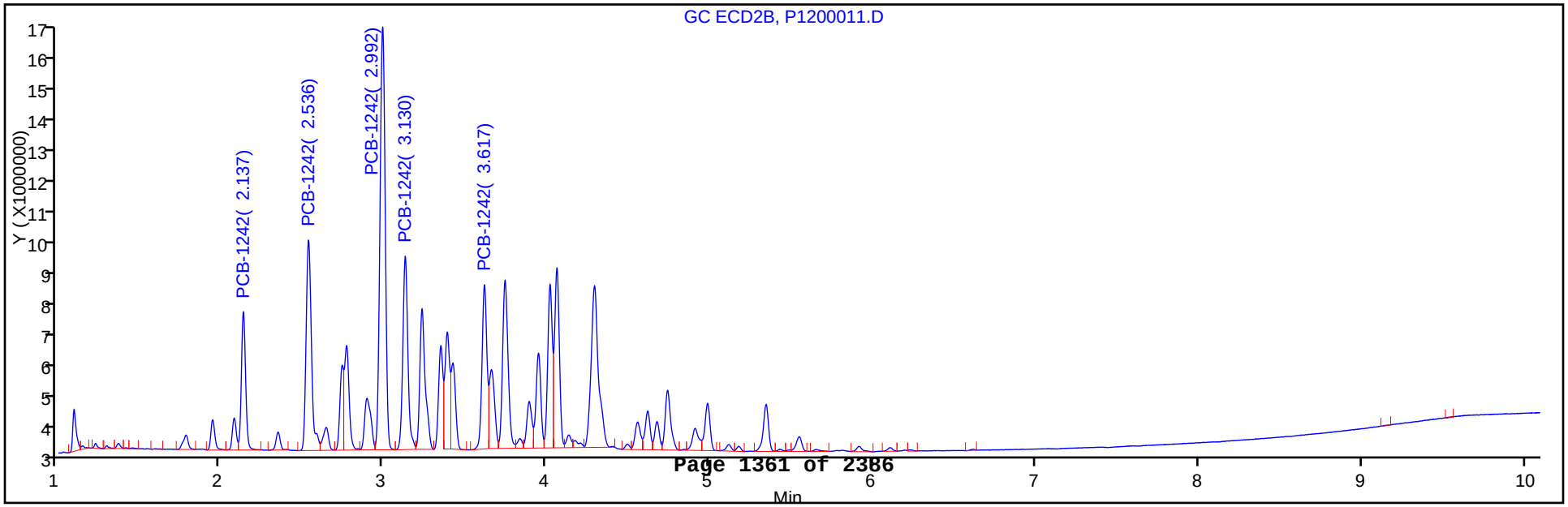
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200011.D

Injection Date:	01-Apr-2013 12:05:17	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200012.D		
Lims ID:	STD05 1242	Client ID:	
Inject. Date:	01-Apr-2013 12:19:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018420-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	80043	Lims Sample ID:	12
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:56	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:42:13

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.577	1.575	0.002	6036096	0.4704		100.0	M
1	2	1.869	1.865	0.004	11358339	0.4583	163.6- 213.6	188.2	
1	3	2.268	2.265	0.003	23084254	0.4475	347.0- 397.0	382.4	
1	4	2.391	2.388	0.003	10181060	0.4621	141.6- 191.6	168.7	
1	5	2.776	2.775	0.001	10752547	0.4580	150.4- 200.4	178.1	
			Average of Peak Amounts =			0.4593			
2	6	2.138	2.136	0.002	16894463	0.4432		100.0	
2	7	2.537	2.536	0.001	32912429	0.4536	162.4- 222.4	194.8	
2	8	2.992	2.991	0.001	68830972	0.4665	348.9- 408.9	407.4	
2	9	3.131	3.130	0.001	29713497	0.4584	136.6- 196.6	175.9	
2	10	3.618	3.615	0.003	24007561	0.4960	108.6- 168.6	142.1	
			Average of Peak Amounts =			0.4635			
						RPD = 0.93			

QC Flag Legend

Review Flags
M - Manually Integrated

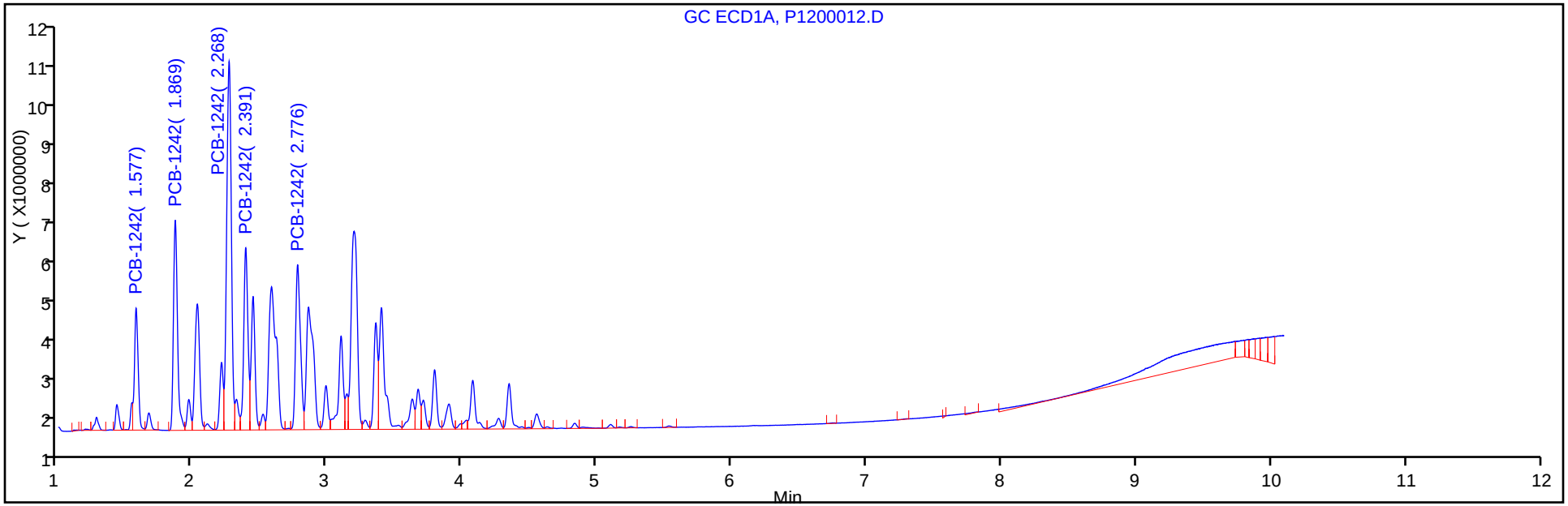
Report Date: 02-Apr-2013 07:01:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

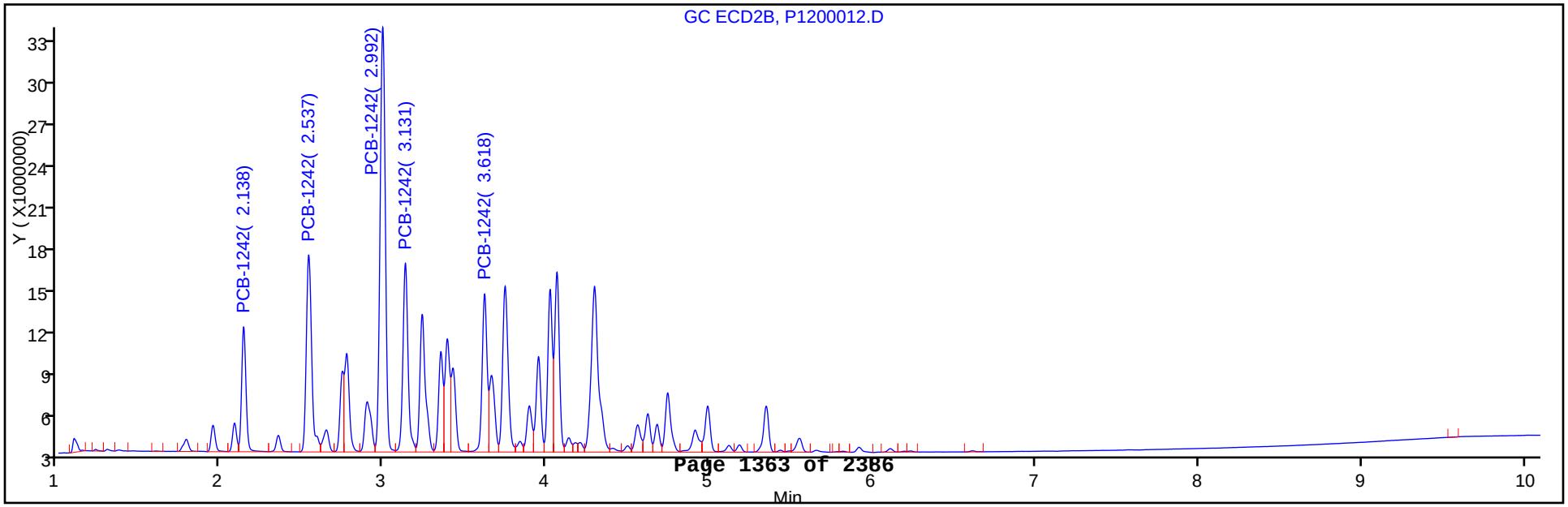
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200012.D

Injection Date:	01-Apr-2013 12:19:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200013.D
Lims ID: STD1 1242 Client ID:
Inject. Date: 01-Apr-2013 12:33:59 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-013
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 80043 Lims Sample ID: 13
Sublist: chrom-PCB12*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:57 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.575	1.575	0.000	11367362	0.8859		100.0	
1	2	1.865	1.865	0.000	22025518	0.8887	163.6- 213.6	193.8	
1	3	2.266	2.265	0.001	48859756	0.9471	347.0- 397.0	429.8	
1	4	2.388	2.388	0.000	19950619	0.9055	141.6- 191.6	175.5	
1	5	2.774	2.775	-0.001	21039397	0.8961	150.4- 200.4	185.1	
			Average of Peak Amounts =			0.9047			
2	6	2.136	2.136	0.000	33160800	0.8699		100.0	
2	7	2.537	2.536	0.001	65463911	0.9022	162.4- 222.4	197.4	
2	8	2.992	2.991	0.001	143305385	0.9713	348.9- 408.9	432.2	
2	9	3.131	3.130	0.001	60290356	0.9302	136.6- 196.6	181.8	
2	10	3.617	3.615	0.002	47957714	1.03	108.6- 168.6	144.6	
			Average of Peak Amounts =			0.9406			
						RPD = 3.90			

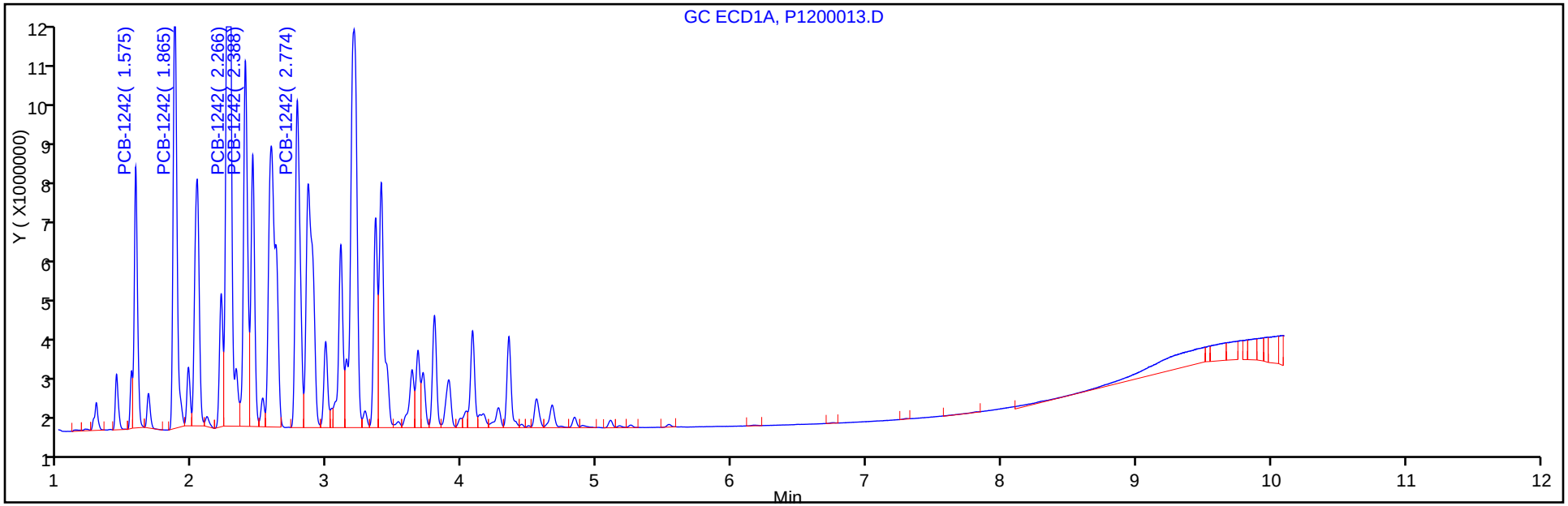
Report Date: 02-Apr-2013 07:01:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

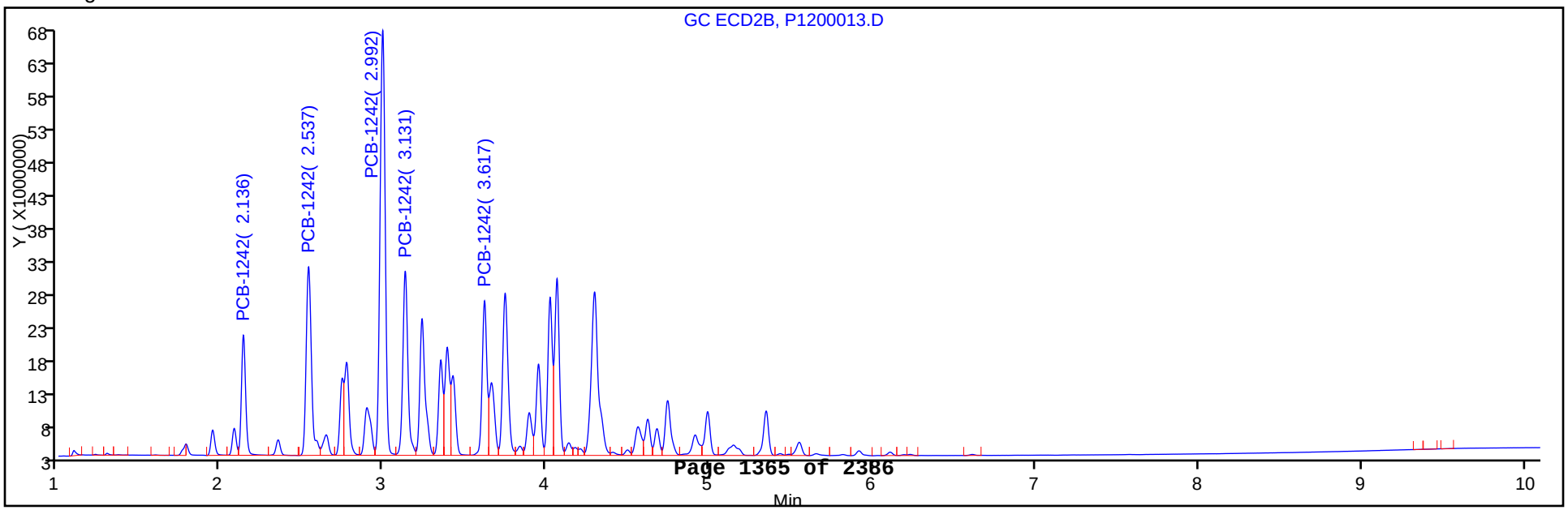
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200013.D

Injection Date:	01-Apr-2013 12:33:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200014.D		
Lims ID:	STD2 1242	Client ID:	
Inject. Date:	01-Apr-2013 12:48:08	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018420-014		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	14
Lims Batch ID:	80043	Lims Sample ID:	14
Sublist:	chrom-PCB12*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:58	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:44:07

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.575	1.575	0.000	19659955	1.53		100.0	
1	2	1.865	1.865	0.000	40047761	1.62	163.6- 213.6	203.7	
1	3	2.265	2.265	0.000	86122350	1.67	347.0- 397.0	438.1	
1	4	2.387	2.388	-0.001	36887638	1.67	141.6- 191.6	187.6	
1	5	2.772	2.775	-0.003	38799393	1.65	150.4- 200.4	197.4	
			Average of Peak Amounts =			1.63			
2	6	2.136	2.136	0.000	61374294	1.61		100.0	
2	7	2.536	2.536	0.000	120148888	1.66	162.4- 222.4	195.8	
2	8	2.991	2.991	0.000	272378981	1.85	348.9- 408.9	443.8	
2	9	3.131	3.130	0.001	110987094	1.71	136.6- 196.6	180.8	
2	10	3.617	3.615	0.002	89815049	1.96	108.6- 168.6	146.3	
			Average of Peak Amounts =			1.76			
						RPD = 7.59			

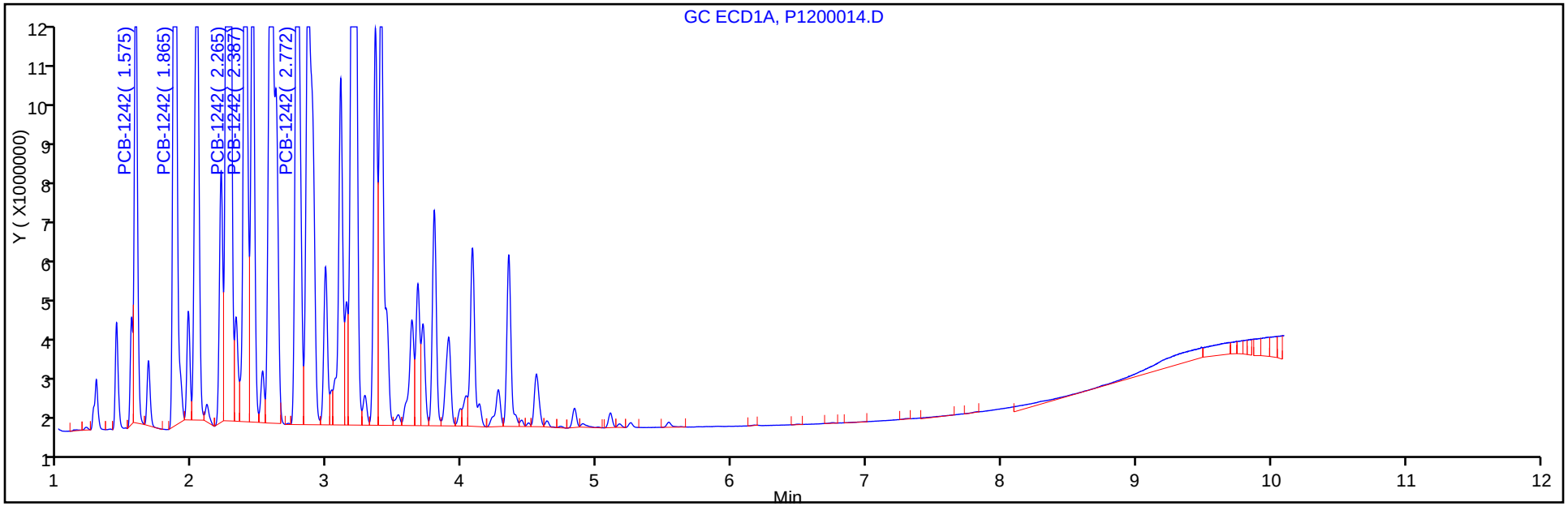
Report Date: 02-Apr-2013 07:01:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

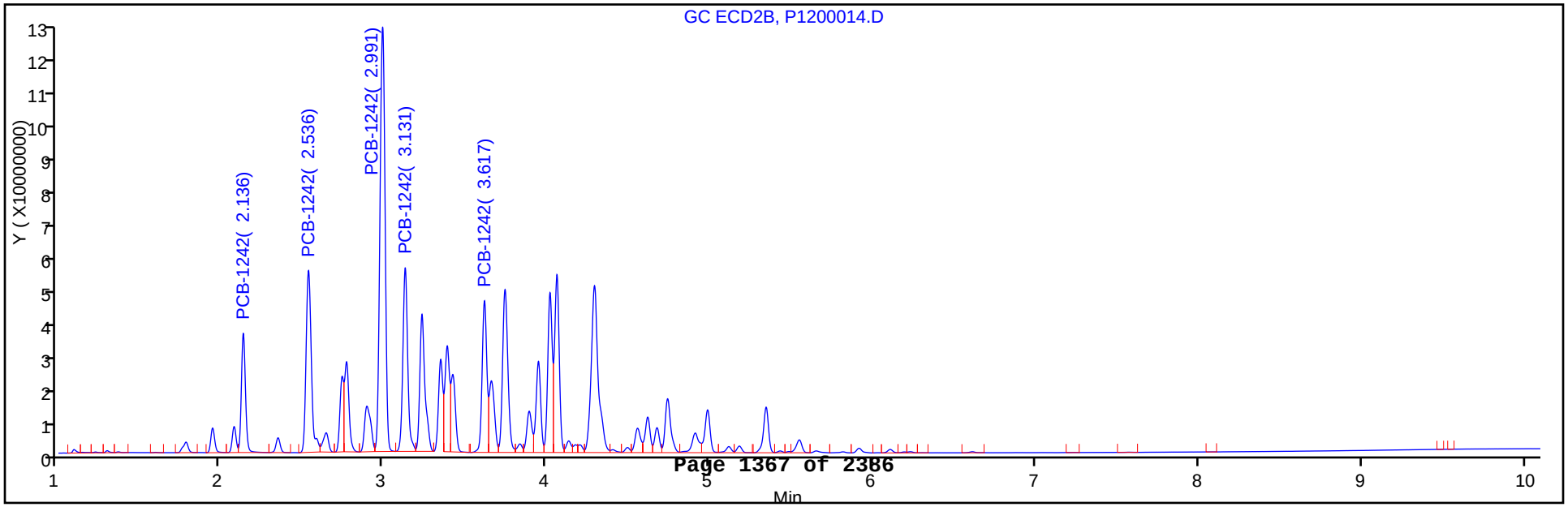
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200014.D

Injection Date:	01-Apr-2013 12:48:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 13:02 Calibration End Date: 04/01/2013 14:13 Calibration ID: 14290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/15	P1200015.D
Level 2	STD01 240-80043/16	P1200016.D
Level 3	STD02 240-80043/17	P1200017.D
Level 4	STD05 240-80043/18	P1200018.D
Level 5	STD1 240-80043/19	P1200019.D
Level 6	STD2 240-80043/20	P1200020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	1.863	1.864	1.867	1.864	1.864	1.865					1.813 - 1.913	1.865
PCB-1248 Peak 2	2.264	2.263	2.265	2.264	2.264	2.265					2.214 - 2.314	2.264
PCB-1248 Peak 3	2.773	2.772	2.776	2.773	2.774	2.774					2.723 - 2.823	2.774
PCB-1248 Peak 4	3.356	3.356	3.358	3.356	3.356	3.357					3.306 - 3.406	3.357
PCB-1248 Peak 5	3.792	3.791	3.794	3.792	3.791	3.792					3.742 - 3.842	3.792

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 13:02 Calibration End Date: 04/01/2013 14:13 Calibration ID: 14290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/15	P1200015.D
Level 2	STD01 240-80043/16	P1200016.D
Level 3	STD02 240-80043/17	P1200017.D
Level 4	STD05 240-80043/18	P1200018.D
Level 5	STD1 240-80043/19	P1200019.D
Level 6	STD2 240-80043/20	P1200020.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	15150500 11147511	13844290 9504003	12726270	11927482	Ave		12383342.7				16.0		20.0			
PCB-1248 Peak 2	38786780 29758632	35730810 25731069	33304535	31221118	Ave		32422157.3				14.0		20.0			
PCB-1248 Peak 3	45141020 32972663	40325130 28898977	37566930	34983122	Ave		36647973.7				16.0		20.0			
PCB-1248 Peak 4	25876320 18823703	23024280 16764633	21716195	19822956	Ave		21004681.2				15.0		20.0			
PCB-1248 Peak 5	22729860 17104493	20642060 15597672	19422735	18208376	Ave		18950866.0				13.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 13:02 Calibration End Date: 04/01/2013 14:13 Calibration ID: 14290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/15	P1200015.D
Level 2	STD01 240-80043/16	P1200016.D
Level 3	STD02 240-80043/17	P1200017.D
Level 4	STD05 240-80043/18	P1200018.D
Level 5	STD1 240-80043/19	P1200019.D
Level 6	STD2 240-80043/20	P1200020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	757525 19008006	1384429	2545254	5963741	11147511	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	1939339 51462138	3573081	6660907	15610559	29758632	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	2257051 57797954	4032513	7513386	17491561	32972663	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	1293816 33529266	2302428	4343239	9911478	18823703	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	1136493 31195344	2064206	3884547	9104188	17104493	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200015.D		
Lims ID:	STD005 1248	Client ID:	
Inject. Date:	01-Apr-2013 13:02:24	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018420-015		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	80043	Lims Sample ID:	15
Sublist:	chrom-PCB12*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:59	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:45:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.863	1.863	0.000	757525	0.0612		100.0	
1	2	2.264	2.264	0.000	1939339	0.0598	236.7- 286.7	256.0	
1	3	2.773	2.773	0.000	2257051	0.0616	270.2- 320.2	298.0	
1	4	3.356	3.356	0.000	1293816	0.0616	145.6- 195.6	170.8	
1	5	3.792	3.792	0.000	1136493	0.0600	127.6- 177.6	150.0	
			Average of Peak Amounts =			0.0608			
2	6	2.535	2.535	0.000	2238364	0.0630		100.0	
2	7	2.989	2.989	0.000	5550580	0.0585	235.6- 295.6	248.0	
2	8	3.617	3.617	0.000	5481888	0.0630	215.6- 275.6	244.9	
2	9	4.062	4.062	0.000	6110880	0.0586	261.1- 321.1	273.0	
2	10	4.740	4.740	0.000	3391316	0.0596	131.8- 191.8	151.5	
			Average of Peak Amounts =			0.0606			
						RPD = 0.43			

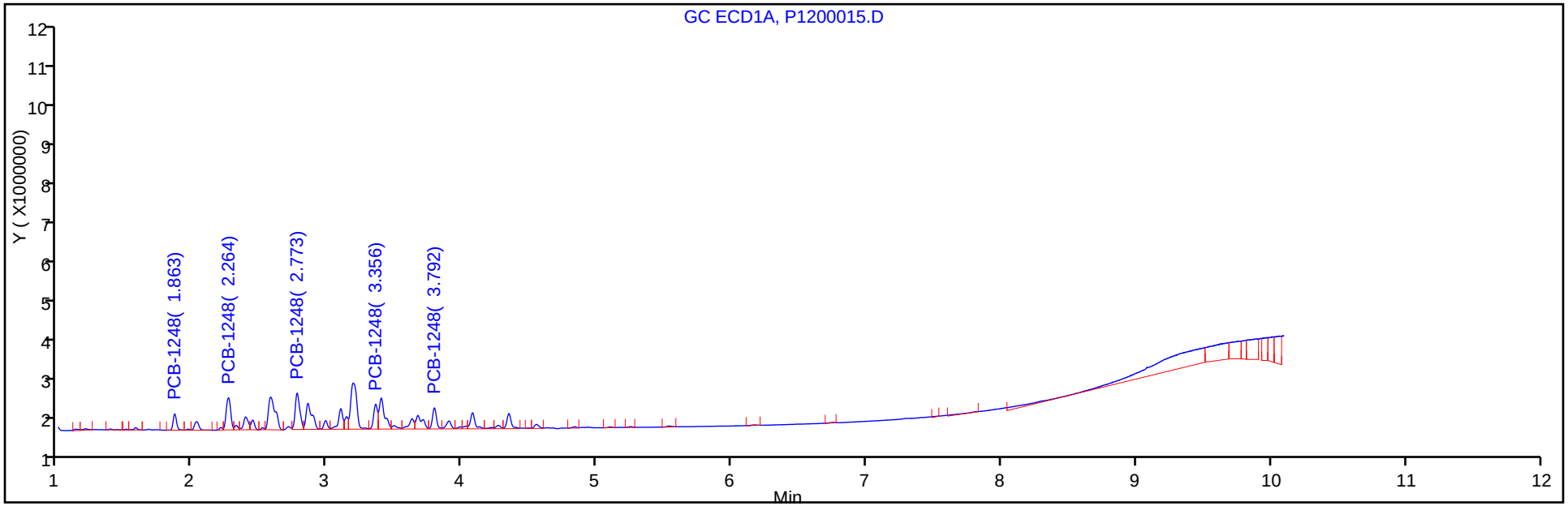
Report Date: 02-Apr-2013 07:02:00 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

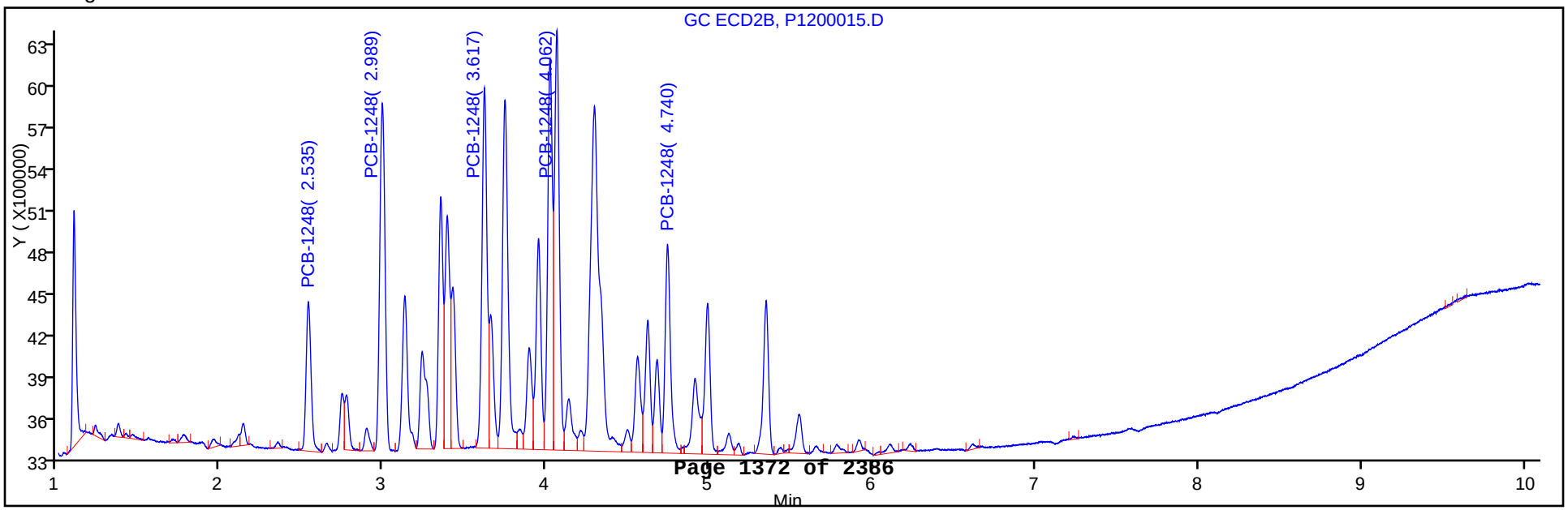
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200015.D

Injection Date:	01-Apr-2013 13:02:24	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200016.D		
Lims ID:	STD01 1248	Client ID:	
Inject. Date:	01-Apr-2013 13:16:31	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018420-016		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	80043	Lims Sample ID:	16
Sublist:	chrom-PCB12*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:02:01	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:46:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.864	1.863	0.001	1384429	0.1118		100.0	
1	2	2.263	2.264	-0.001	3573081	0.1102	236.7- 286.7	258.1	
1	3	2.772	2.773	-0.001	4032513	0.1100	270.2- 320.2	291.3	
1	4	3.356	3.356	0.000	2302428	0.1096	145.6- 195.6	166.3	
1	5	3.791	3.792	-0.001	2064206	0.1089	127.6- 177.6	149.1	
			Average of Peak Amounts =			0.1101			
2	6	2.535	2.535	0.000	3956116	0.1114		100.0	
2	7	2.989	2.989	0.000	10131151	0.1068	235.6- 295.6	256.1	
2	8	3.616	3.617	-0.001	9538458	0.1096	215.6- 275.6	241.1	
2	9	4.061	4.062	-0.001	11231207	0.1078	261.1- 321.1	283.9	
2	10	4.741	4.740	0.001	6209071	0.1092	131.8- 191.8	156.9	
			Average of Peak Amounts =			0.1090			
						RPD = 1.05			

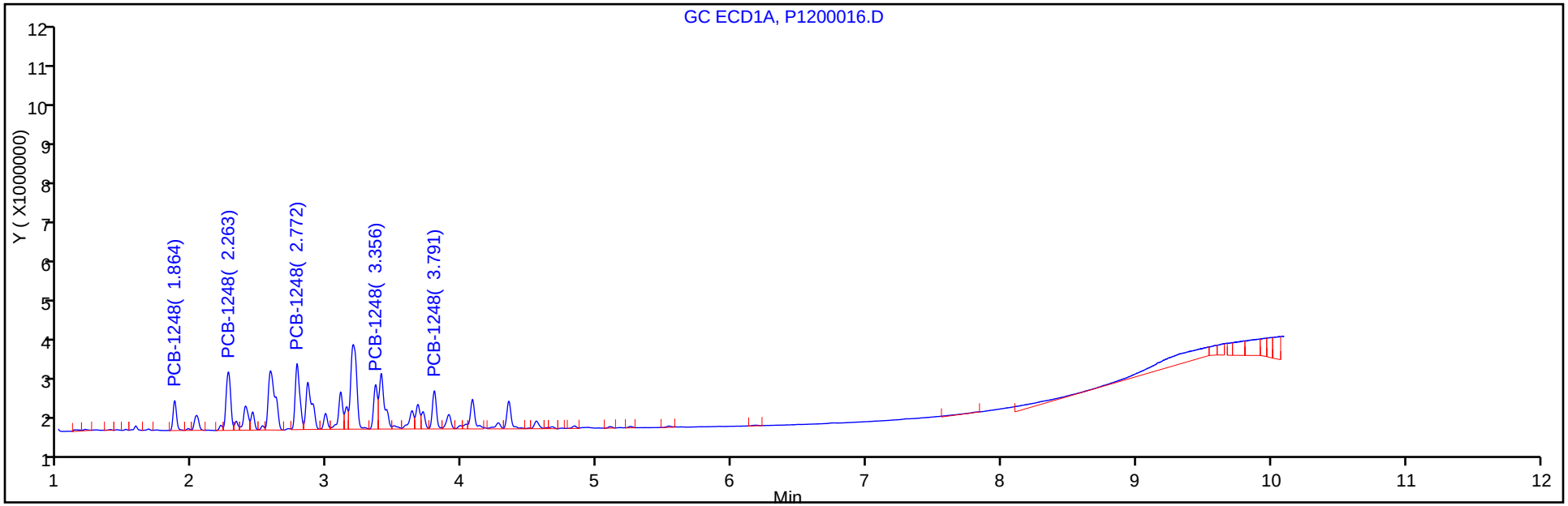
Report Date: 02-Apr-2013 07:02:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

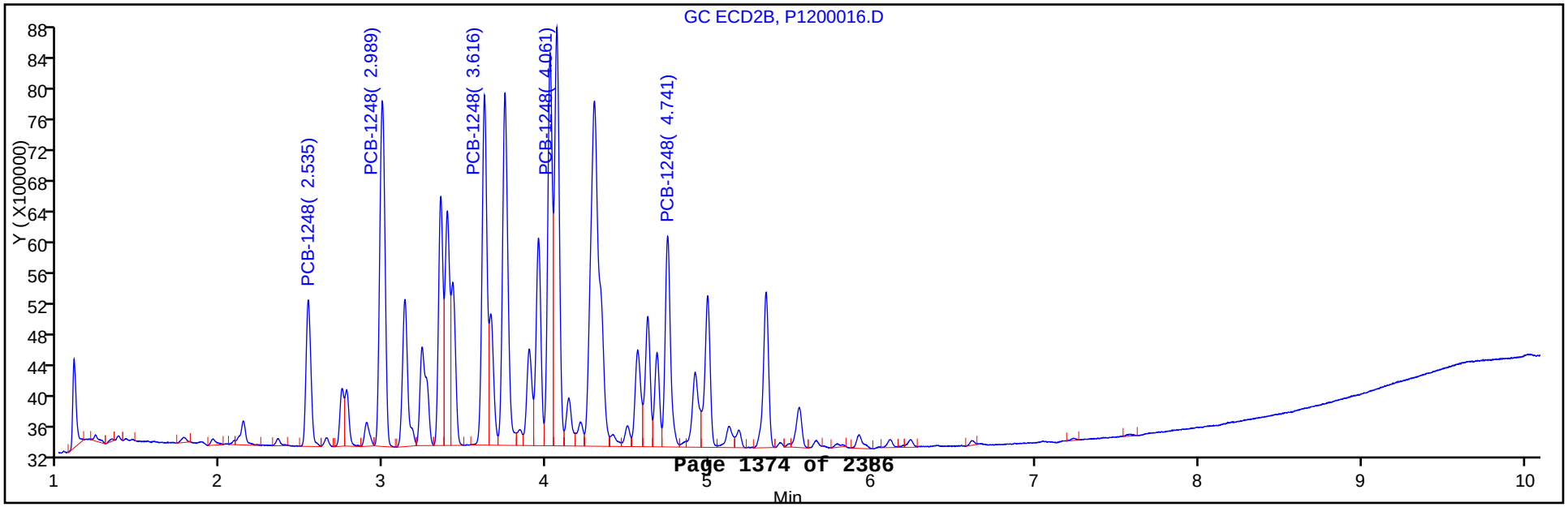
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200016.D

Injection Date:	01-Apr-2013 13:16:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200017.D
Lims ID: STD02 1248 Client ID:
Inject. Date: 01-Apr-2013 13:31:06 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-017
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 80043 Lims Sample ID: 17
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:45 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.867	1.863	0.004	2545254	0.2055		100.0	
1	2	2.265	2.264	0.001	6660907	0.2054	236.7- 286.7	261.7	
1	3	2.776	2.773	0.003	7513386	0.2050	270.2- 320.2	295.2	
1	4	3.358	3.356	0.002	4343239	0.2068	145.6- 195.6	170.6	
1	5	3.794	3.792	0.002	3884547	0.2050	127.6- 177.6	152.6	
			Average of Peak Amounts =			0.2056			
2	6	2.536	2.535	0.001	7269883	0.2048		100.0	
2	7	2.991	2.989	0.002	19309895	0.2036	235.6- 295.6	265.6	
2	8	3.618	3.617	0.001	17856240	0.2051	215.6- 275.6	245.6	
2	9	4.061	4.062	-0.001	21159566	0.2030	261.1- 321.1	291.1	
2	10	4.741	4.740	0.001	11764899	0.2069	131.8- 191.8	161.8	
			Average of Peak Amounts =			0.2047			
						RPD = 0.42			

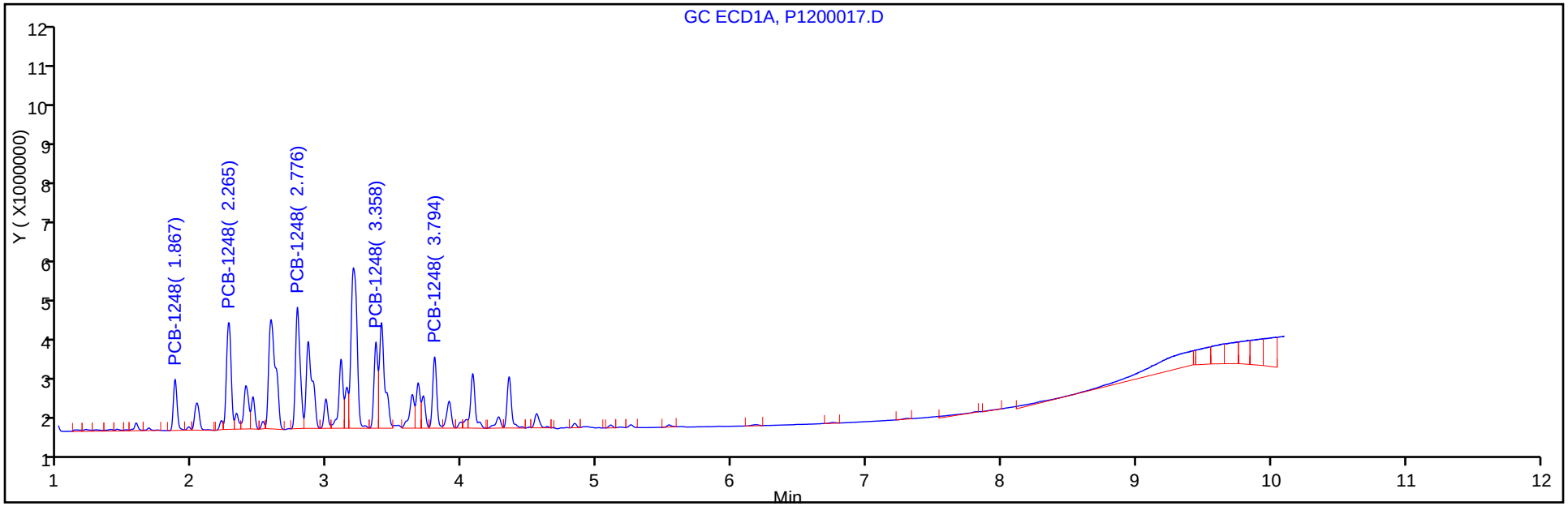
Report Date: 02-Apr-2013 07:00:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

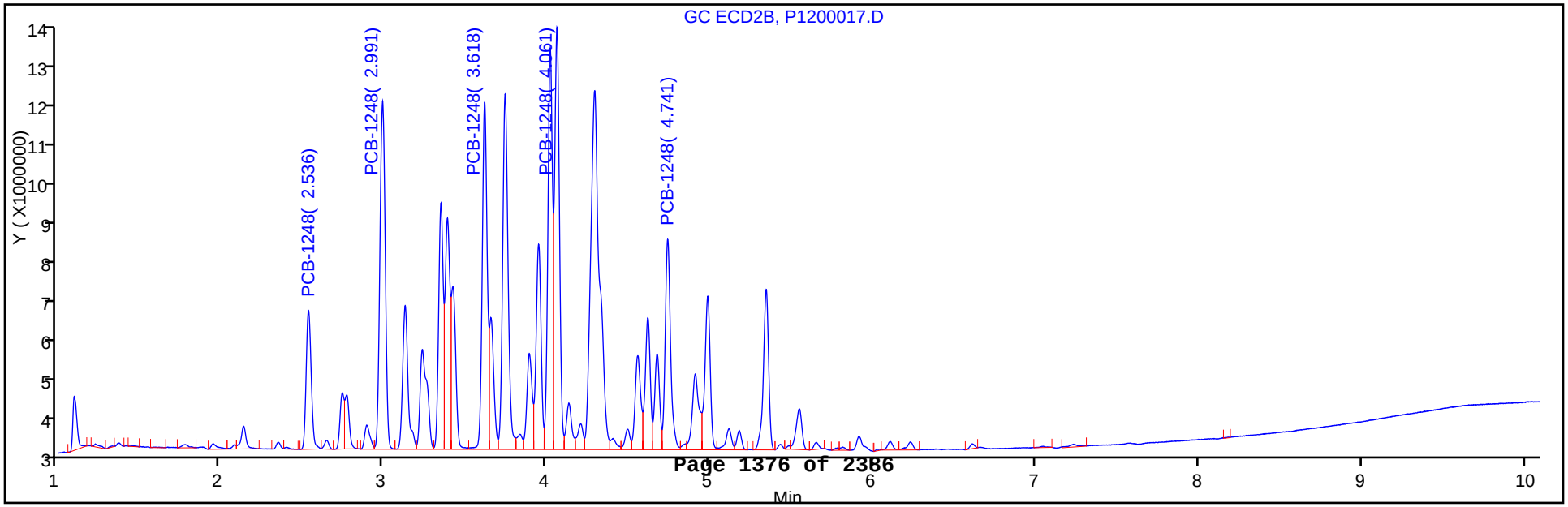
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200017.D

Injection Date:	01-Apr-2013 13:31:06	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200018.D
Lims ID: STD05 1248 Client ID:
Inject. Date: 01-Apr-2013 13:45:16 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018420-018
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 80043 Lims Sample ID: 18
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:46 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.864	1.863	0.001	5963741	0.4816		100.0	
1	2	2.264	2.264	0.000	15610559	0.4815	236.7- 286.7	261.8	
1	3	2.773	2.773	0.000	17491561	0.4773	270.2- 320.2	293.3	
1	4	3.356	3.356	0.000	9911478	0.4719	145.6- 195.6	166.2	
1	5	3.792	3.792	0.000	9104188	0.4804	127.6- 177.6	152.7	
			Average of Peak Amounts =			0.4785			
2	6	2.535	2.535	0.000	16874663	0.4753		100.0	
2	7	2.990	2.989	0.001	45475138	0.4796	235.6- 295.6	269.5	
2	8	3.617	3.617	0.000	40394810	0.4641	215.6- 275.6	239.4	
2	9	4.061	4.062	-0.001	48886360	0.4690	261.1- 321.1	289.7	
2	10	4.741	4.740	0.001	26534192	0.4666	131.8- 191.8	157.2	
			Average of Peak Amounts =			0.4709			
						RPD = 1.60			

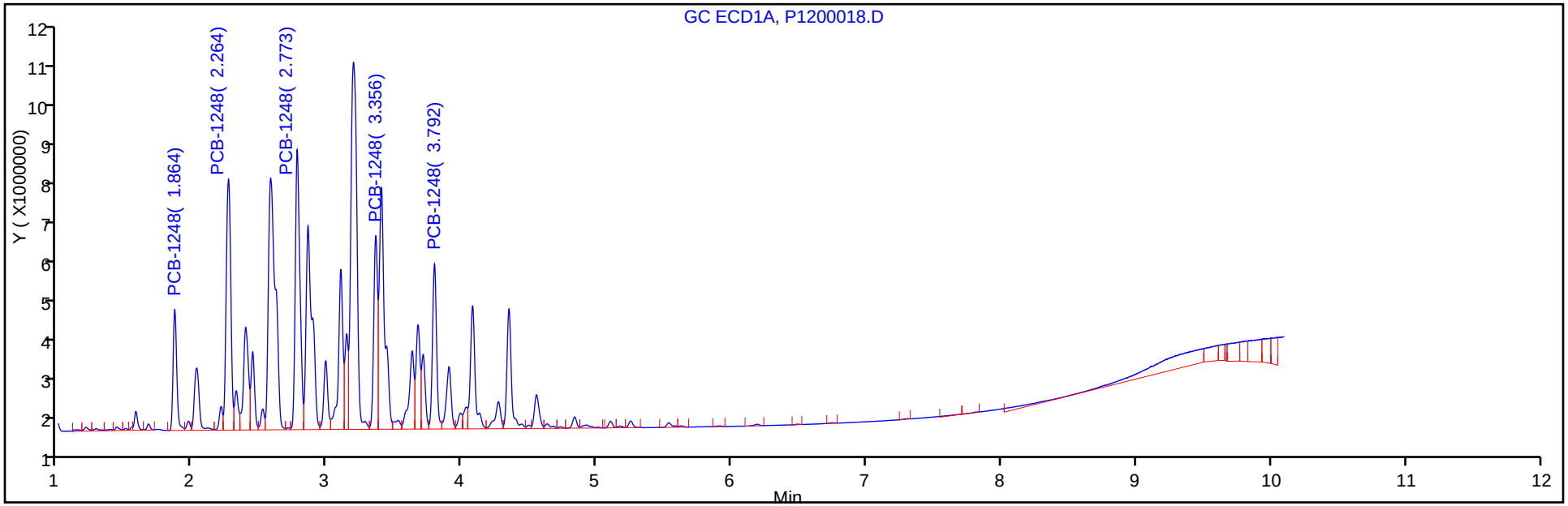
Report Date: 02-Apr-2013 07:00:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

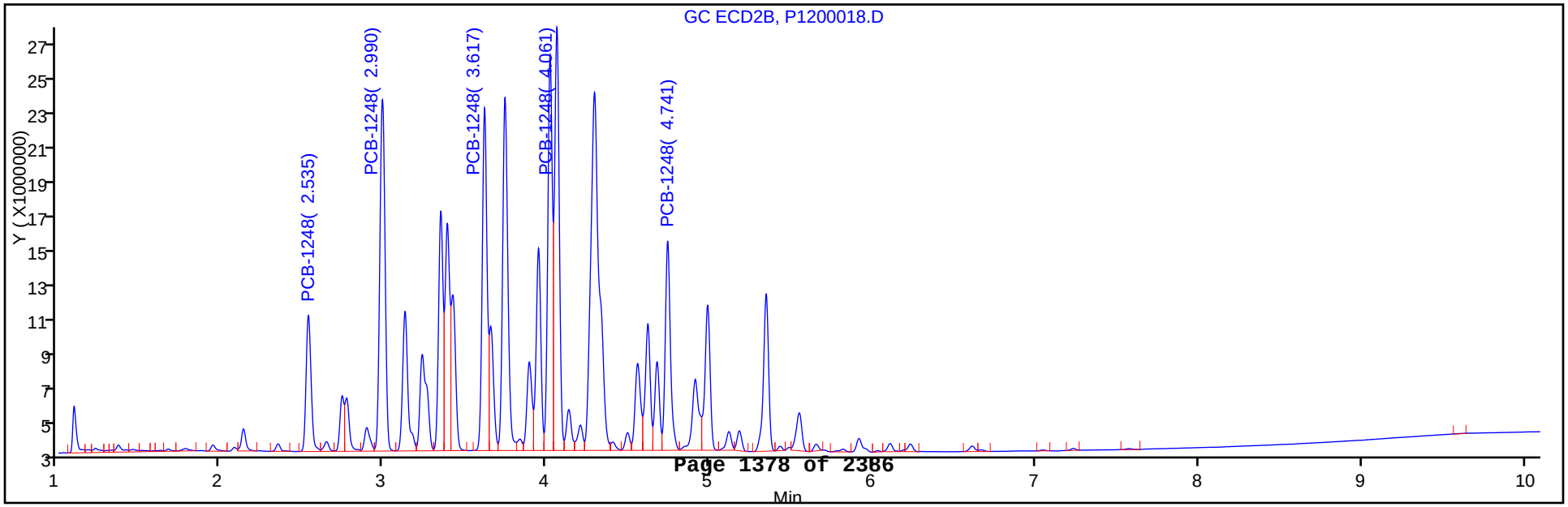
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200018.D

Injection Date:	01-Apr-2013 13:45:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200019.D
Lims ID: STD1 1248 Client ID:
Inject. Date: 01-Apr-2013 13:59:24 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-019
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 80043 Lims Sample ID: 19
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:48 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.864	1.863	0.001	11147511	0.9002		100.0	
1	2	2.264	2.264	0.000	29758632	0.9178	236.7- 286.7	267.0	
1	3	2.774	2.773	0.001	32972663	0.8997	270.2- 320.2	295.8	
1	4	3.356	3.356	0.000	18823703	0.8962	145.6- 195.6	168.9	
1	5	3.791	3.792	-0.001	17104493	0.9026	127.6- 177.6	153.4	
			Average of Peak Amounts =			0.9033			
2	6	2.536	2.535	0.001	31589085	0.8898		100.0	
2	7	2.991	2.989	0.002	89776129	0.9468	235.6- 295.6	284.2	
2	8	3.618	3.617	0.001	78048621	0.8967	215.6- 275.6	247.1	
2	9	4.061	4.062	-0.001	98585446	0.9458	261.1- 321.1	312.1	
2	10	4.741	4.740	0.001	51999203	0.9145	131.8- 191.8	164.6	
			Average of Peak Amounts =			0.9187			
						RPD = 1.69			

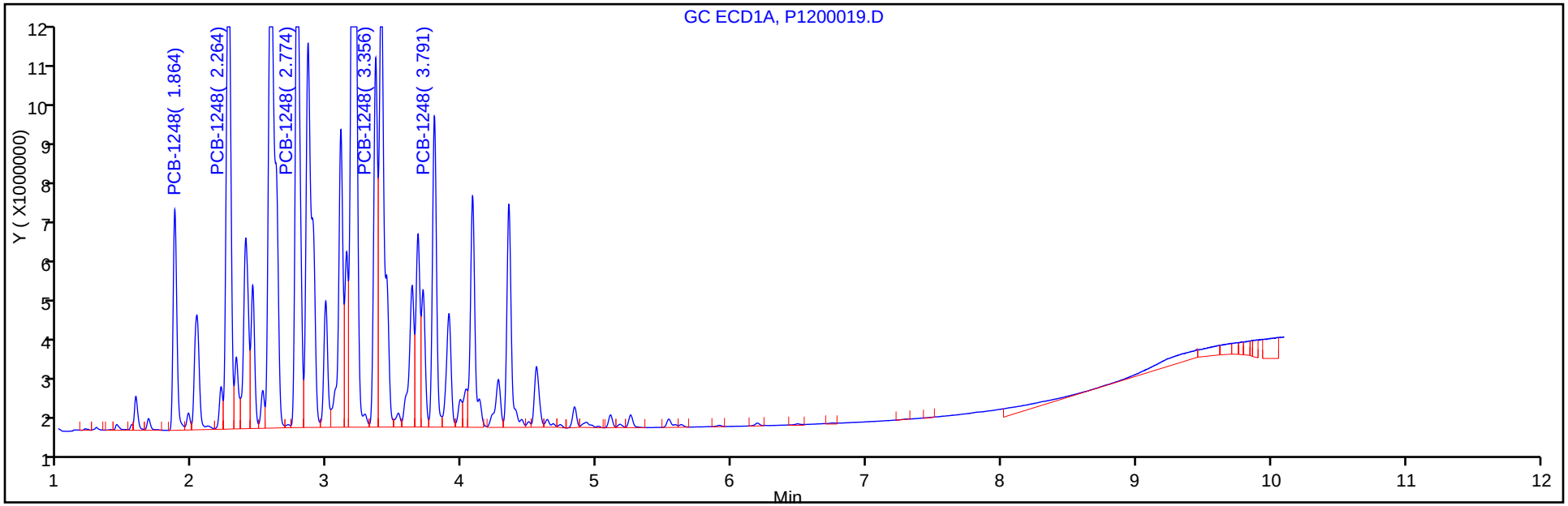
Report Date: 02-Apr-2013 07:00:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

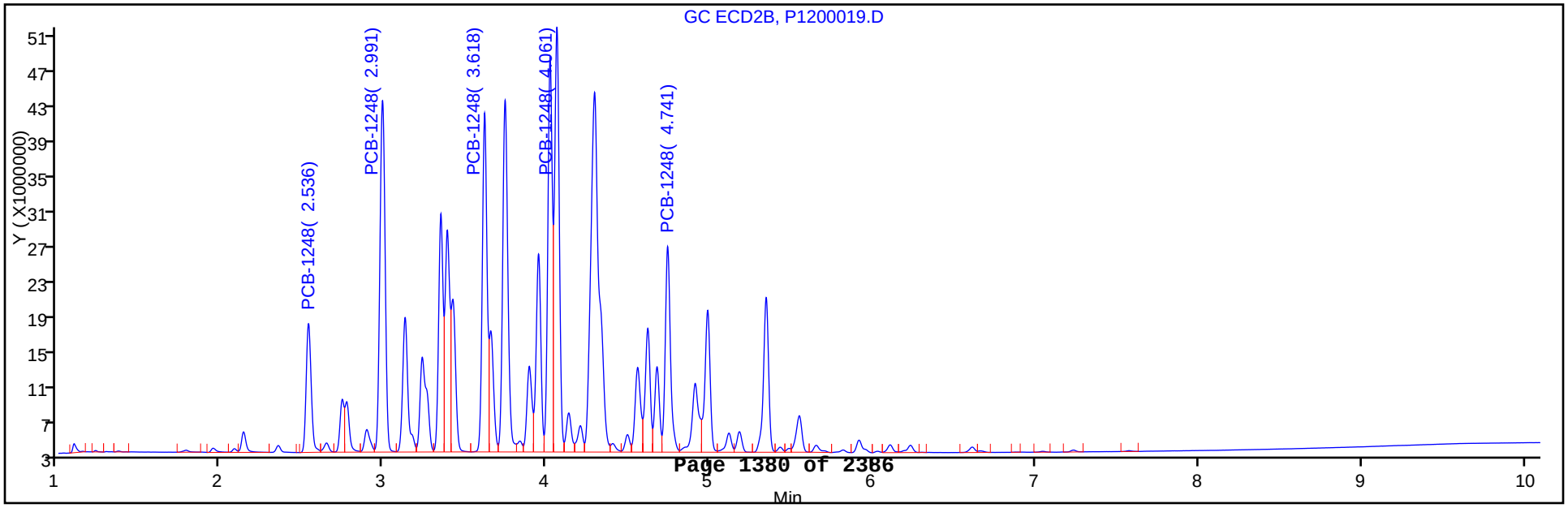
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200019.D

Injection Date:	01-Apr-2013 13:59:24	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200020.D		
Lims ID:	STD2 1248	Client ID:	
Inject. Date:	01-Apr-2013 14:13:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018420-020		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	20
Lims Batch ID:	80043	Lims Sample ID:	20
Sublist:	chrom-PCB12*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:00:49	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.865	1.863	0.002	19008006	1.53		100.0	
1	2	2.265	2.264	0.001	51462138	1.59	236.7- 286.7	270.7	
1	3	2.774	2.773	0.001	57797954	1.58	270.2- 320.2	304.1	
1	4	3.357	3.356	0.001	33529266	1.60	145.6- 195.6	176.4	
1	5	3.792	3.792	0.000	31195344	1.65	127.6- 177.6	164.1	
			Average of Peak Amounts =			1.59			
2	6	2.536	2.535	0.001	53990684	1.52		100.0	
2	7	2.991	2.989	0.002	158697336	1.67	235.6- 295.6	293.9	
2	8	3.618	3.617	0.001	138220284	1.59	215.6- 275.6	256.0	
2	9	4.062	4.062	0.000	177413921	1.70	261.1- 321.1	328.6	
2	10	4.741	4.740	0.001	94729733	1.67	131.8- 191.8	175.5	
			Average of Peak Amounts =			1.63			
						RPD = 2.59			

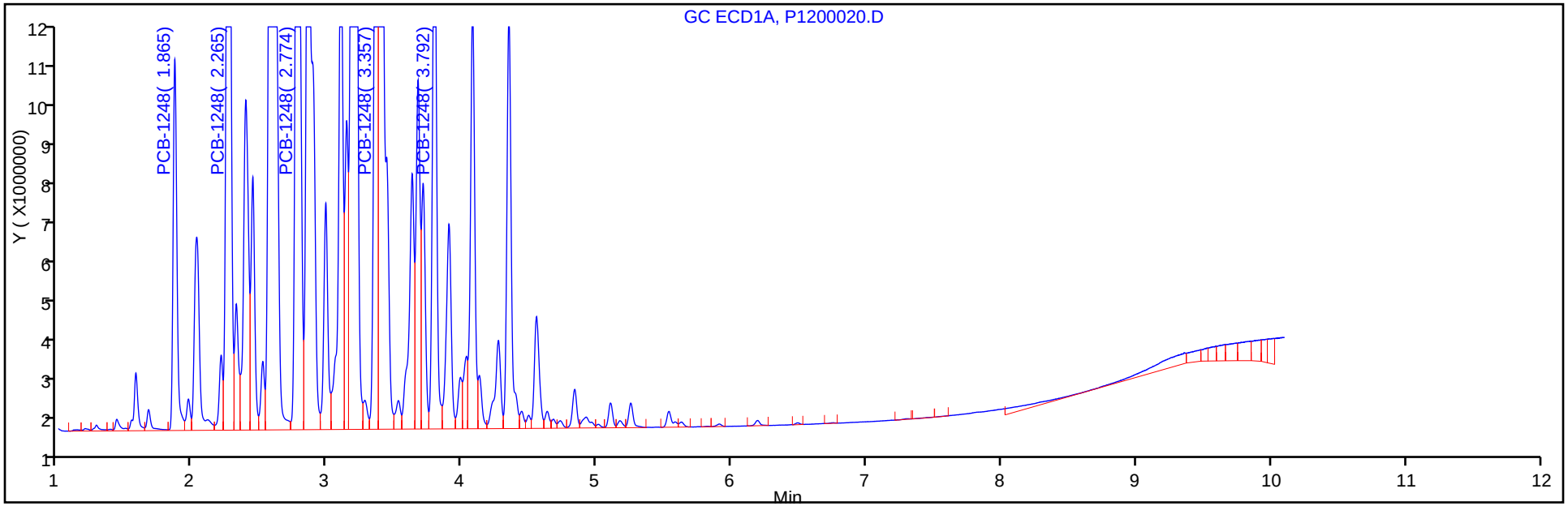
Report Date: 02-Apr-2013 07:00:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

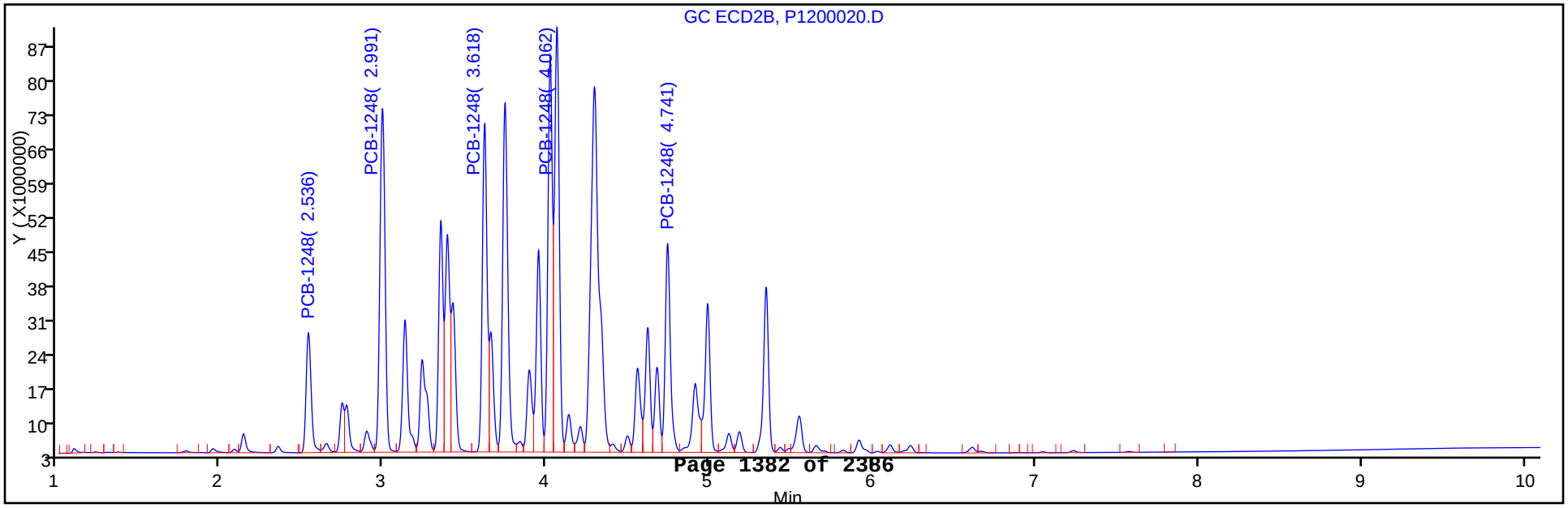
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200020.D

Injection Date:	01-Apr-2013 14:13:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 13:02 Calibration End Date: 04/01/2013 14:13 Calibration ID: 14291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/15	P1200015.D
Level 2	STD01 240-80043/16	P1200016.D
Level 3	STD02 240-80043/17	P1200017.D
Level 4	STD05 240-80043/18	P1200018.D
Level 5	STD1 240-80043/19	P1200019.D
Level 6	STD2 240-80043/20	P1200020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	2.535	2.535	2.536	2.535	2.536	2.536					2.485 - 2.585	2.536
PCB-1248 Peak 2	2.989	2.989	2.991	2.990	2.991	2.991					2.939 - 3.039	2.990
PCB-1248 Peak 3	3.617	3.616	3.618	3.617	3.618	3.618					3.567 - 3.667	3.617
PCB-1248 Peak 4	4.062	4.061	4.061	4.061	4.061	4.062					4.012 - 4.112	4.061
PCB-1248 Peak 5	4.740	4.741	4.741	4.741	4.741	4.741					4.690 - 4.790	4.741

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 13:02 Calibration End Date: 04/01/2013 14:13 Calibration ID: 14291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/15	P1200015.D
Level 2	STD01 240-80043/16	P1200016.D
Level 3	STD02 240-80043/17	P1200017.D
Level 4	STD05 240-80043/18	P1200018.D
Level 5	STD1 240-80043/19	P1200019.D
Level 6	STD2 240-80043/20	P1200020.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	44767280 31589085	39561160 26995342	36349415	33749326	Ave		35501934.7				18.0		20.0			
PCB-1248 Peak 2	111011600 89776129	101311510 79348668	96549475	90950276	Ave		94824609.7				11.0		20.0			
PCB-1248 Peak 3	109637760 78048621	95384580 69110142	89281200	80789620	Ave		87041987.2				16.0		20.0			
PCB-1248 Peak 4	122217600 98585446	112312070 88706961	105797830	97772720	Ave		104232104				11.0		20.0			
PCB-1248 Peak 5	67826320 51999203	62090710 47364867	58824495	53068384	Ave		56862329.8				13.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 13:02 Calibration End Date: 04/01/2013 14:13 Calibration ID: 14291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/15	P1200015.D
Level 2	STD01 240-80043/16	P1200016.D
Level 3	STD02 240-80043/17	P1200017.D
Level 4	STD05 240-80043/18	P1200018.D
Level 5	STD1 240-80043/19	P1200019.D
Level 6	STD2 240-80043/20	P1200020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	2238364 53990684	3956116	7269883	16874663	31589085	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	5550580 158697336	10131151	19309895	45475138	89776129	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	5481888 138220284	9538458	17856240	40394810	78048621	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	6110880 177413921	11231207	21159566	48886360	98585446	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	3391316 94729733	6209071	11764899	26534192	51999203	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200015.D		
Lims ID:	STD005 1248	Client ID:	
Inject. Date:	01-Apr-2013 13:02:24	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018420-015		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	80043	Lims Sample ID:	15
Sublist:	chrom-PCB12*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:59	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:45:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.863	1.863	0.000	757525	0.0612		100.0	
1	2	2.264	2.264	0.000	1939339	0.0598	236.7- 286.7	256.0	
1	3	2.773	2.773	0.000	2257051	0.0616	270.2- 320.2	298.0	
1	4	3.356	3.356	0.000	1293816	0.0616	145.6- 195.6	170.8	
1	5	3.792	3.792	0.000	1136493	0.0600	127.6- 177.6	150.0	
			Average of Peak Amounts =			0.0608			
2	6	2.535	2.535	0.000	2238364	0.0630		100.0	
2	7	2.989	2.989	0.000	5550580	0.0585	235.6- 295.6	248.0	
2	8	3.617	3.617	0.000	5481888	0.0630	215.6- 275.6	244.9	
2	9	4.062	4.062	0.000	6110880	0.0586	261.1- 321.1	273.0	
2	10	4.740	4.740	0.000	3391316	0.0596	131.8- 191.8	151.5	
			Average of Peak Amounts =			0.0606			
						RPD = 0.43			

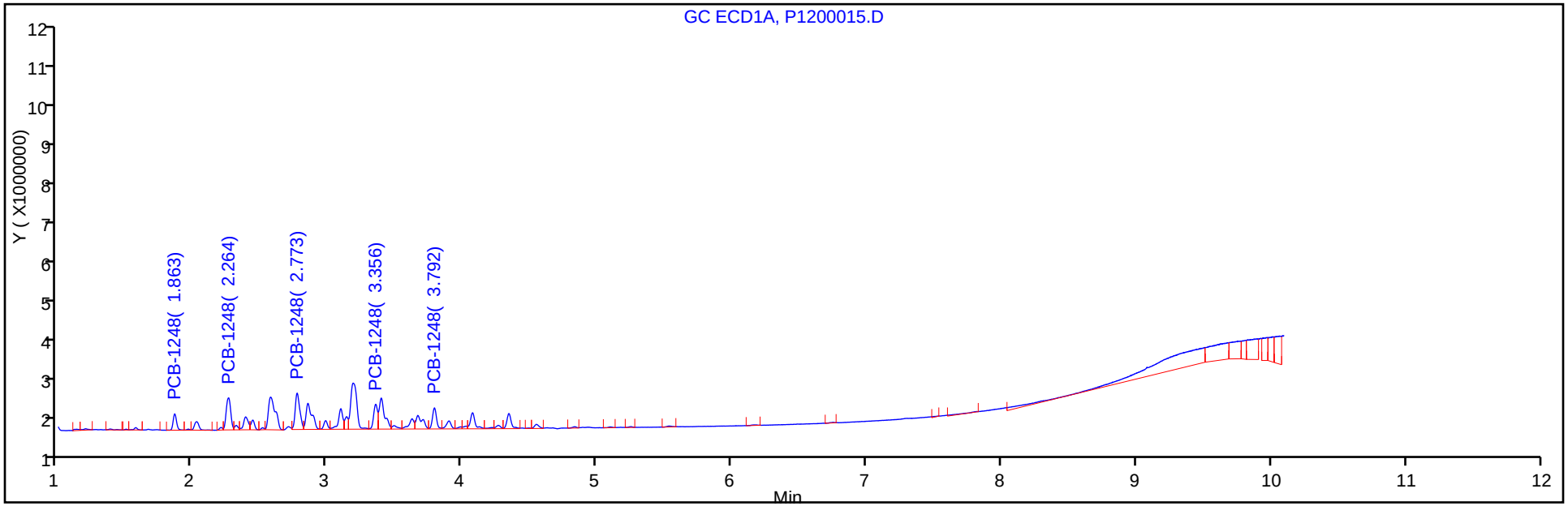
Report Date: 02-Apr-2013 07:02:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

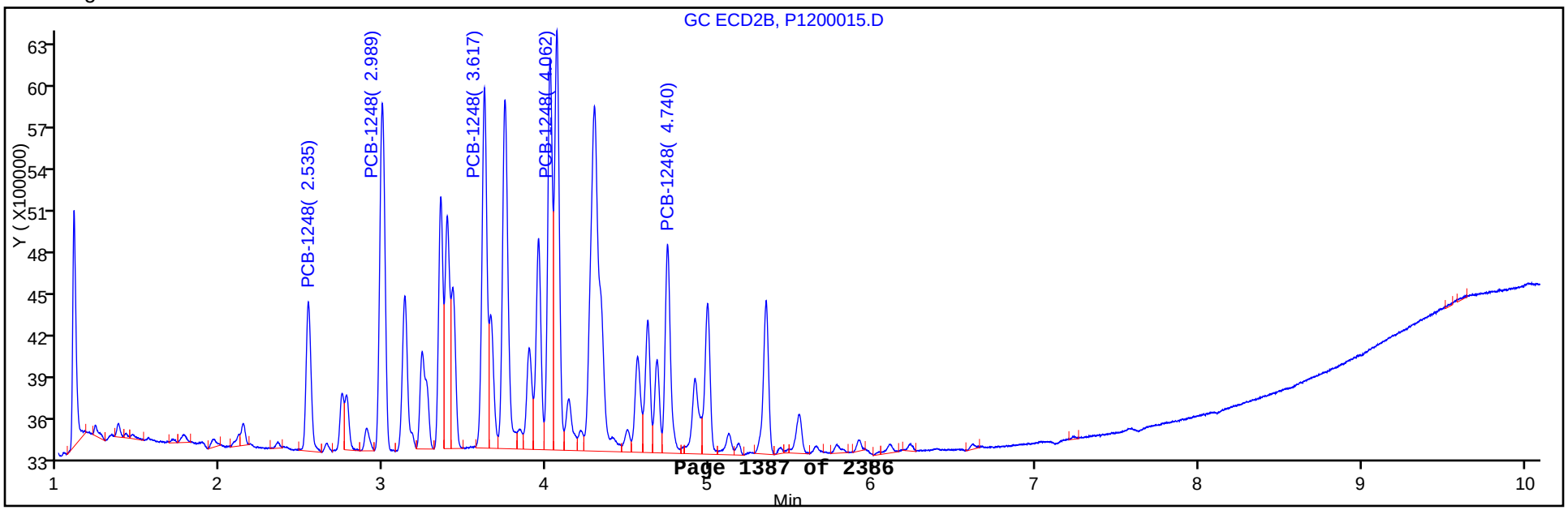
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200015.D

Injection Date:	01-Apr-2013 13:02:24	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200016.D		
Lims ID:	STD01 1248	Client ID:	
Inject. Date:	01-Apr-2013 13:16:31	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018420-016		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	80043	Lims Sample ID:	16
Sublist:	chrom-PCB12*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:02:01	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:46:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.864	1.863	0.001	1384429	0.1118		100.0	
1	2	2.263	2.264	-0.001	3573081	0.1102	236.7- 286.7	258.1	
1	3	2.772	2.773	-0.001	4032513	0.1100	270.2- 320.2	291.3	
1	4	3.356	3.356	0.000	2302428	0.1096	145.6- 195.6	166.3	
1	5	3.791	3.792	-0.001	2064206	0.1089	127.6- 177.6	149.1	
			Average of Peak Amounts =			0.1101			
2	6	2.535	2.535	0.000	3956116	0.1114		100.0	
2	7	2.989	2.989	0.000	10131151	0.1068	235.6- 295.6	256.1	
2	8	3.616	3.617	-0.001	9538458	0.1096	215.6- 275.6	241.1	
2	9	4.061	4.062	-0.001	11231207	0.1078	261.1- 321.1	283.9	
2	10	4.741	4.740	0.001	6209071	0.1092	131.8- 191.8	156.9	
			Average of Peak Amounts =			0.1090			
						RPD = 1.05			

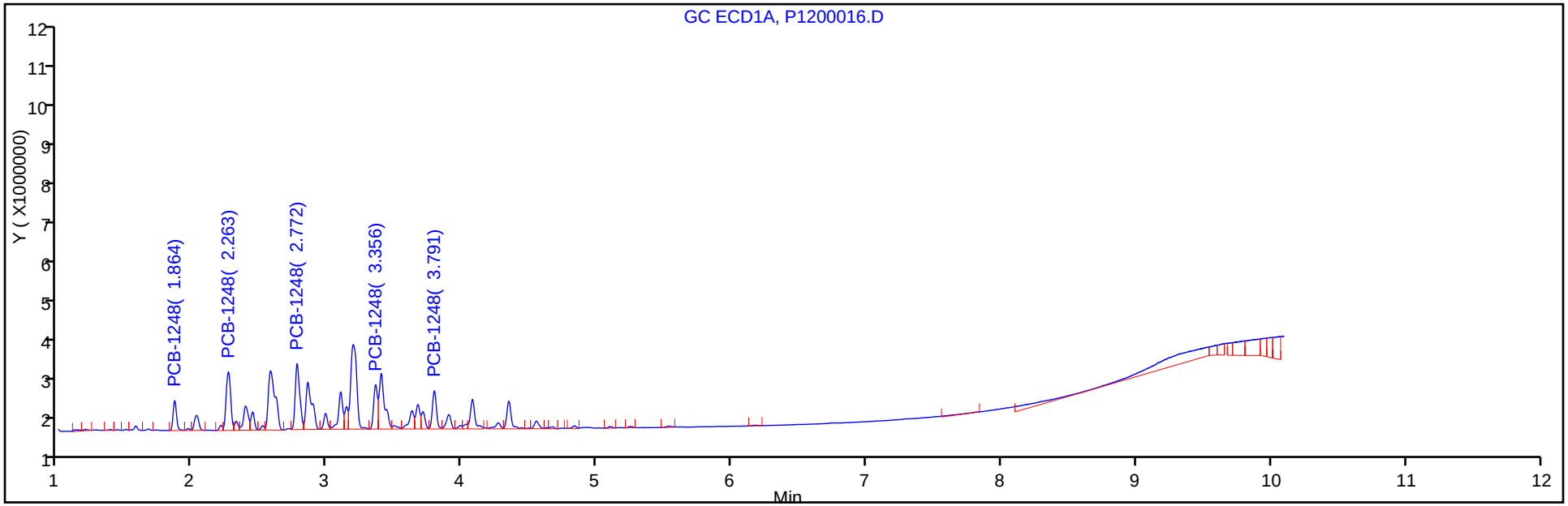
Report Date: 02-Apr-2013 07:02:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

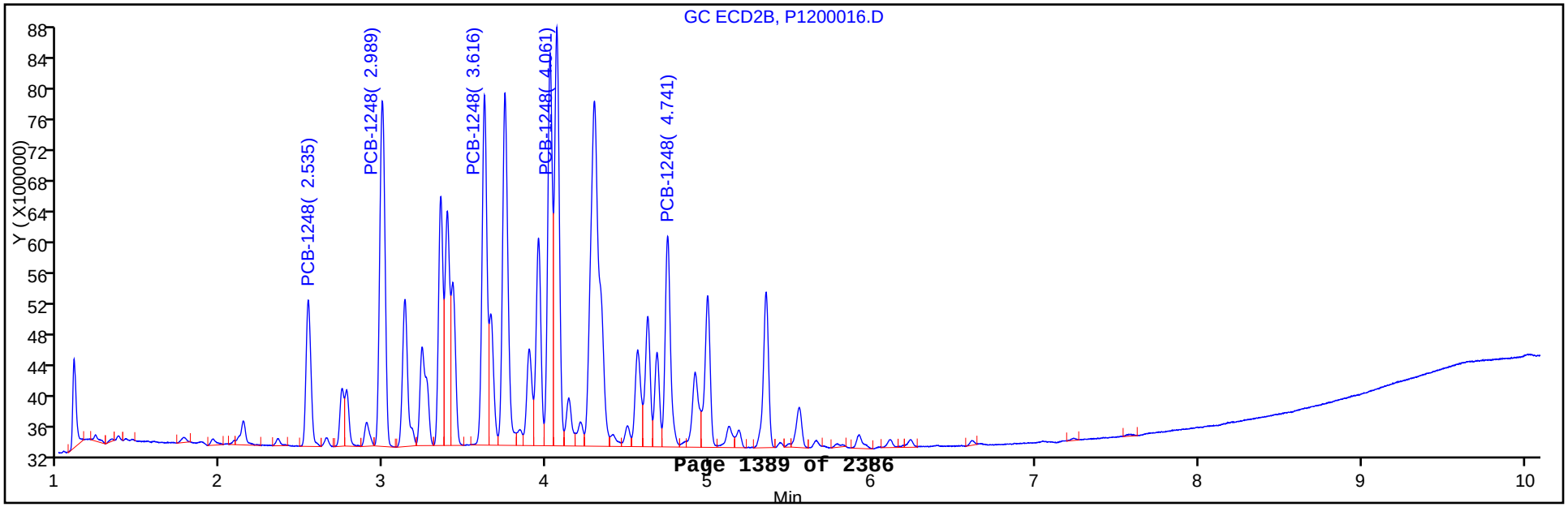
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200016.D

Injection Date:	01-Apr-2013 13:16:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200017.D
Lims ID: STD02 1248 Client ID:
Inject. Date: 01-Apr-2013 13:31:06 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-017
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 80043 Lims Sample ID: 17
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:45 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.867	1.863	0.004	2545254	0.2055		100.0	
1	2	2.265	2.264	0.001	6660907	0.2054	236.7- 286.7	261.7	
1	3	2.776	2.773	0.003	7513386	0.2050	270.2- 320.2	295.2	
1	4	3.358	3.356	0.002	4343239	0.2068	145.6- 195.6	170.6	
1	5	3.794	3.792	0.002	3884547	0.2050	127.6- 177.6	152.6	
			Average of Peak Amounts =			0.2056			
2	6	2.536	2.535	0.001	7269883	0.2048		100.0	
2	7	2.991	2.989	0.002	19309895	0.2036	235.6- 295.6	265.6	
2	8	3.618	3.617	0.001	17856240	0.2051	215.6- 275.6	245.6	
2	9	4.061	4.062	-0.001	21159566	0.2030	261.1- 321.1	291.1	
2	10	4.741	4.740	0.001	11764899	0.2069	131.8- 191.8	161.8	
			Average of Peak Amounts =			0.2047			
						RPD = 0.42			

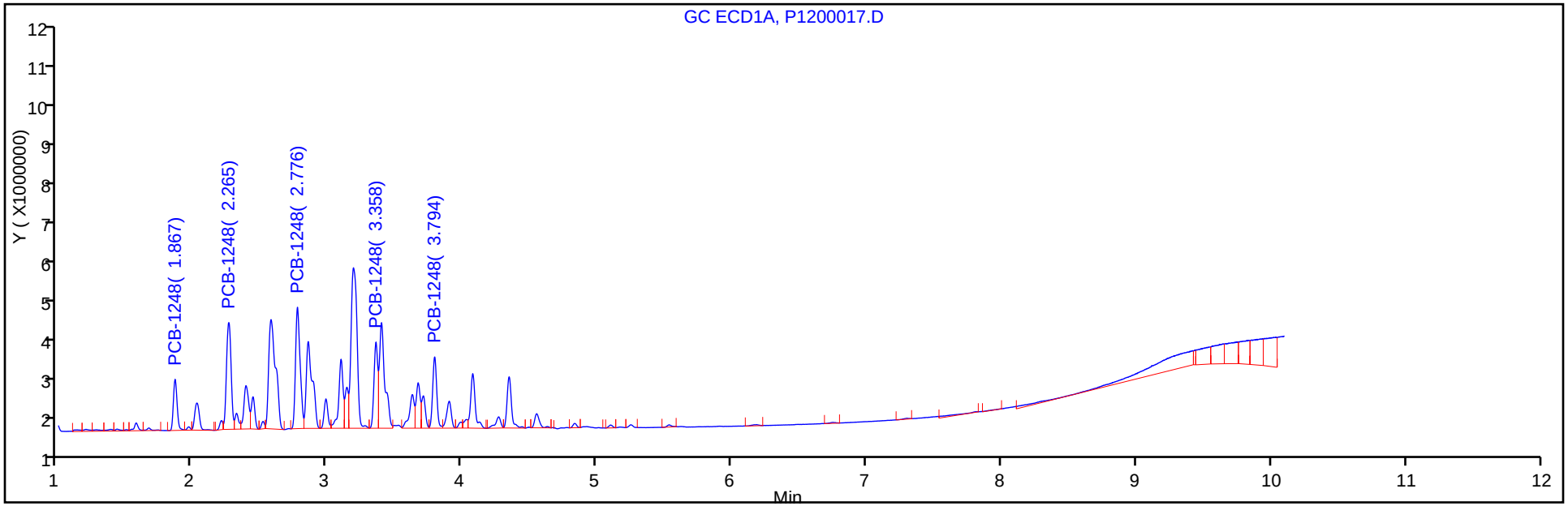
Report Date: 02-Apr-2013 07:00:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

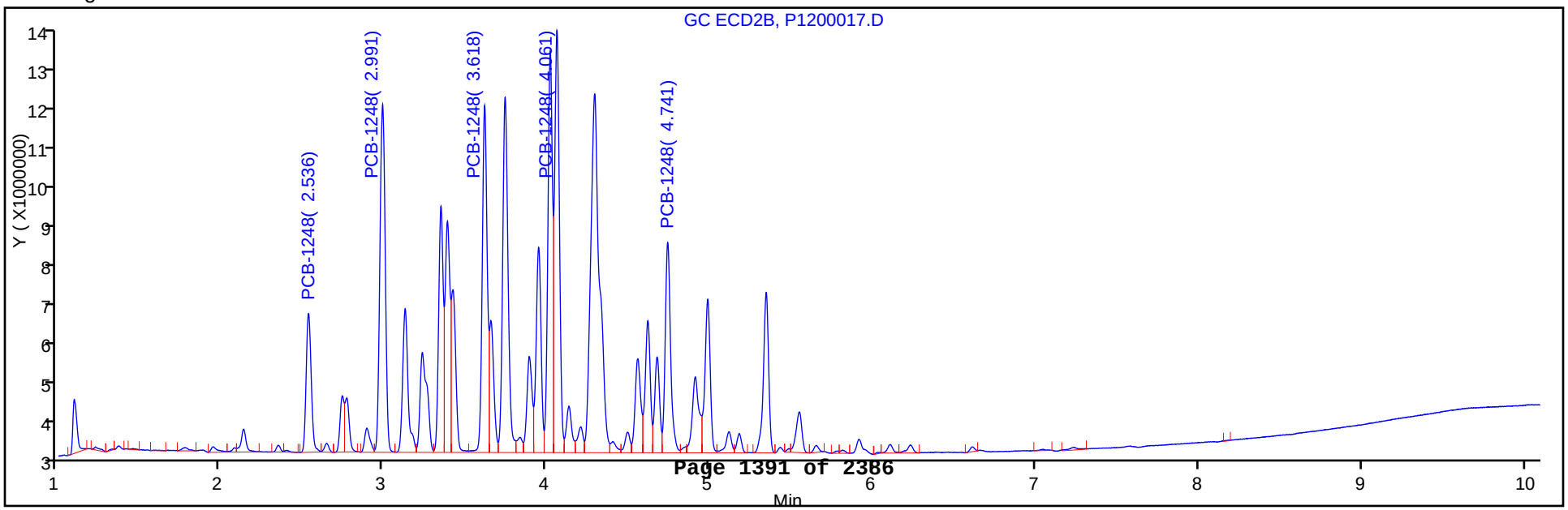
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200017.D

Injection Date:	01-Apr-2013 13:31:06	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200018.D
Lims ID: STD05 1248 Client ID:
Inject. Date: 01-Apr-2013 13:45:16 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018420-018
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 80043 Lims Sample ID: 18
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:46 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.864	1.863	0.001	5963741	0.4816		100.0	
1	2	2.264	2.264	0.000	15610559	0.4815	236.7- 286.7	261.8	
1	3	2.773	2.773	0.000	17491561	0.4773	270.2- 320.2	293.3	
1	4	3.356	3.356	0.000	9911478	0.4719	145.6- 195.6	166.2	
1	5	3.792	3.792	0.000	9104188	0.4804	127.6- 177.6	152.7	
			Average of Peak Amounts =			0.4785			
2	6	2.535	2.535	0.000	16874663	0.4753		100.0	
2	7	2.990	2.989	0.001	45475138	0.4796	235.6- 295.6	269.5	
2	8	3.617	3.617	0.000	40394810	0.4641	215.6- 275.6	239.4	
2	9	4.061	4.062	-0.001	48886360	0.4690	261.1- 321.1	289.7	
2	10	4.741	4.740	0.001	26534192	0.4666	131.8- 191.8	157.2	
			Average of Peak Amounts =			0.4709			
						RPD = 1.60			

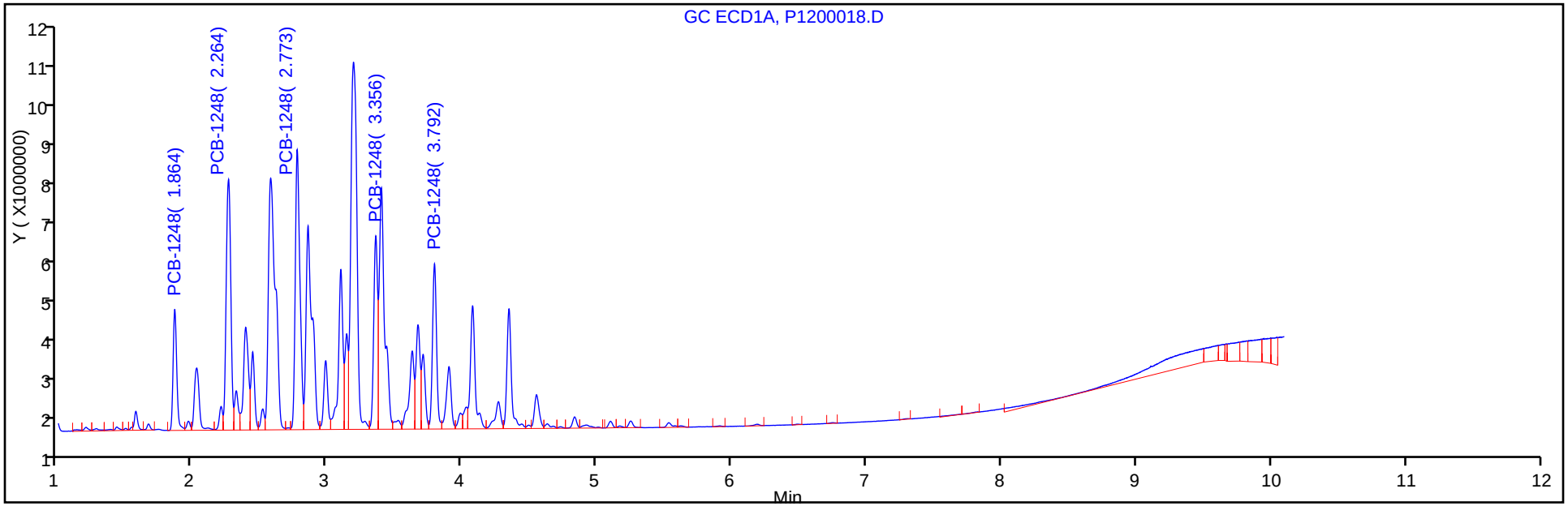
Report Date: 02-Apr-2013 07:00:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

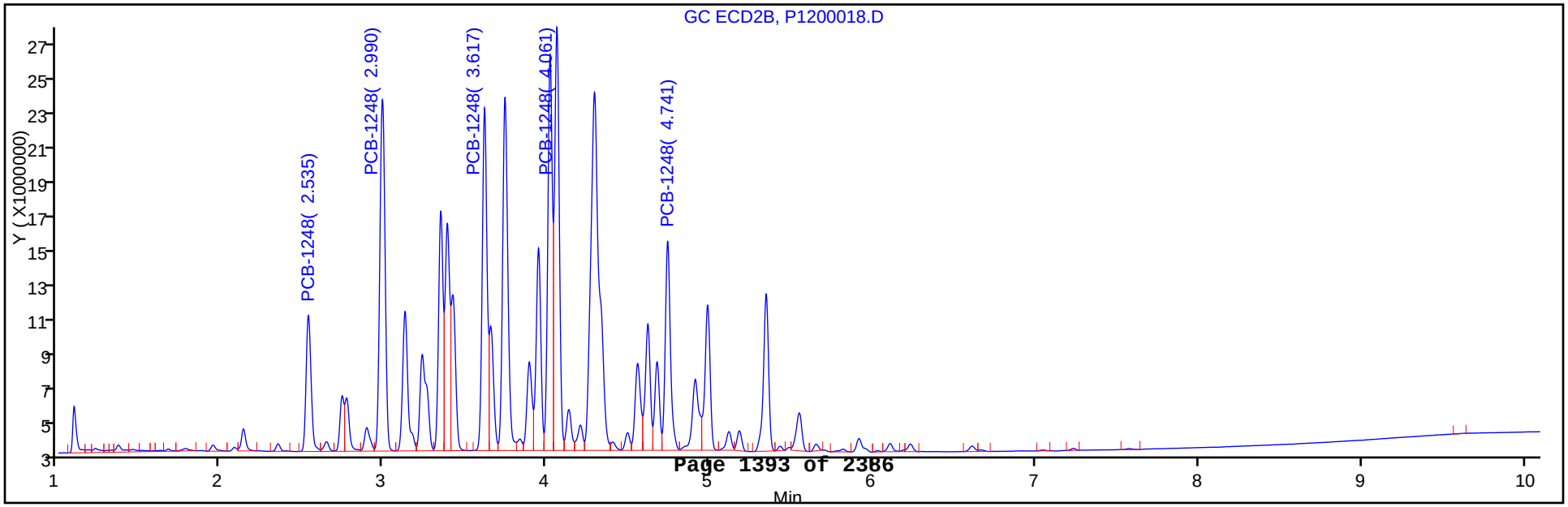
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200018.D

Injection Date:	01-Apr-2013 13:45:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200019.D
Lims ID: STD1 1248 Client ID:
Inject. Date: 01-Apr-2013 13:59:24 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-019
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 80043 Lims Sample ID: 19
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:48 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.864	1.863	0.001	11147511	0.9002		100.0	
1	2	2.264	2.264	0.000	29758632	0.9178	236.7- 286.7	267.0	
1	3	2.774	2.773	0.001	32972663	0.8997	270.2- 320.2	295.8	
1	4	3.356	3.356	0.000	18823703	0.8962	145.6- 195.6	168.9	
1	5	3.791	3.792	-0.001	17104493	0.9026	127.6- 177.6	153.4	
			Average of Peak Amounts =			0.9033			
2	6	2.536	2.535	0.001	31589085	0.8898		100.0	
2	7	2.991	2.989	0.002	89776129	0.9468	235.6- 295.6	284.2	
2	8	3.618	3.617	0.001	78048621	0.8967	215.6- 275.6	247.1	
2	9	4.061	4.062	-0.001	98585446	0.9458	261.1- 321.1	312.1	
2	10	4.741	4.740	0.001	51999203	0.9145	131.8- 191.8	164.6	
			Average of Peak Amounts =			0.9187			
						RPD = 1.69			

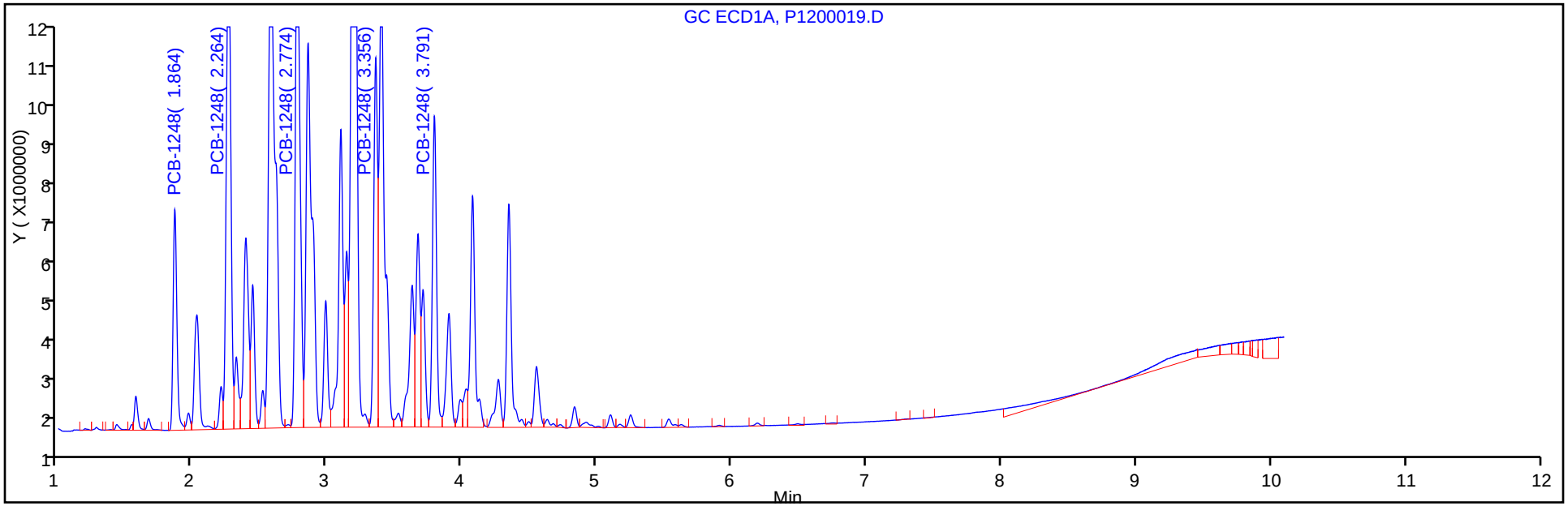
Report Date: 02-Apr-2013 07:00:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

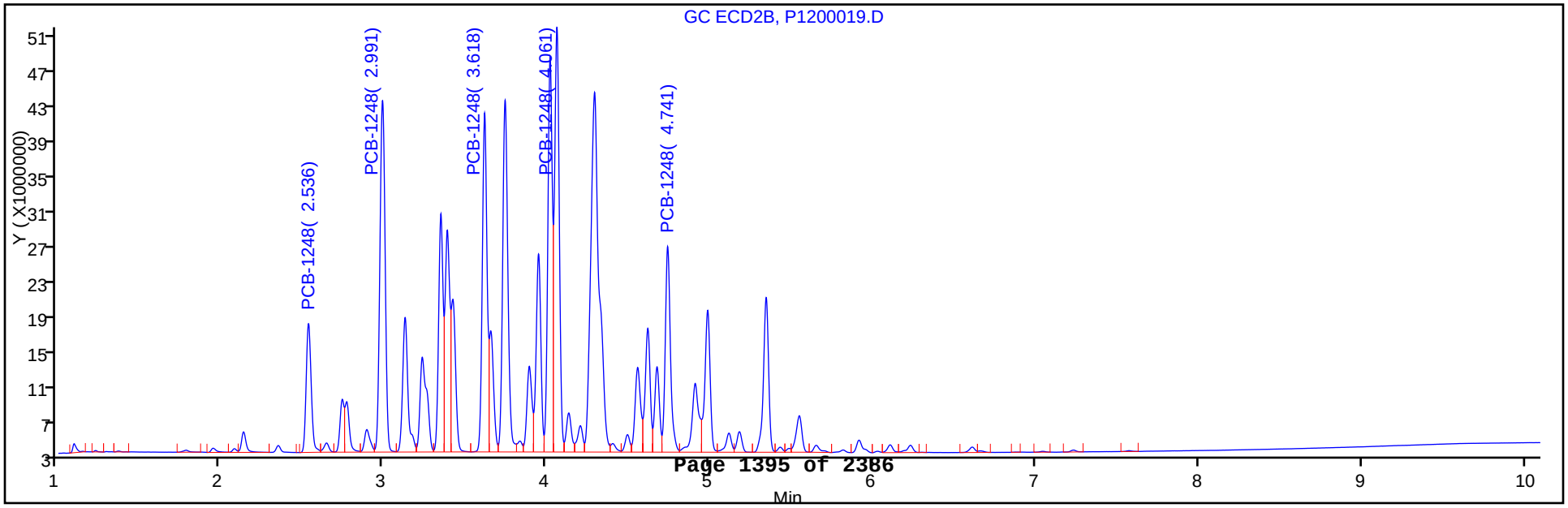
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200019.D

Injection Date:	01-Apr-2013 13:59:24	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200020.D
Lims ID: STD2 1248 Client ID:
Inject. Date: 01-Apr-2013 14:13:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018420-020
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 80043 Lims Sample ID: 20
Sublist: chrom-PCB12*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:49 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.865	1.863	0.002	19008006	1.53		100.0	
1	2	2.265	2.264	0.001	51462138	1.59	236.7- 286.7	270.7	
1	3	2.774	2.773	0.001	57797954	1.58	270.2- 320.2	304.1	
1	4	3.357	3.356	0.001	33529266	1.60	145.6- 195.6	176.4	
1	5	3.792	3.792	0.000	31195344	1.65	127.6- 177.6	164.1	
			Average of Peak Amounts =			1.59			
2	6	2.536	2.535	0.001	53990684	1.52		100.0	
2	7	2.991	2.989	0.002	158697336	1.67	235.6- 295.6	293.9	
2	8	3.618	3.617	0.001	138220284	1.59	215.6- 275.6	256.0	
2	9	4.062	4.062	0.000	177413921	1.70	261.1- 321.1	328.6	
2	10	4.741	4.740	0.001	94729733	1.67	131.8- 191.8	175.5	
			Average of Peak Amounts =			1.63			
						RPD = 2.59			

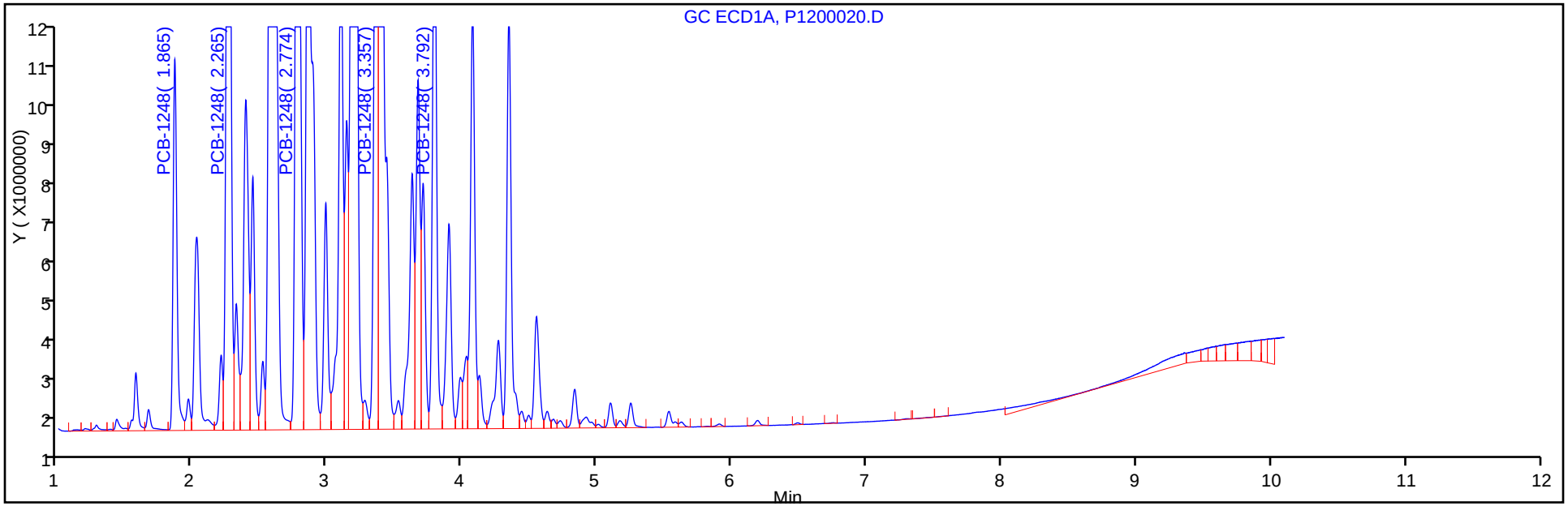
Report Date: 02-Apr-2013 07:00:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

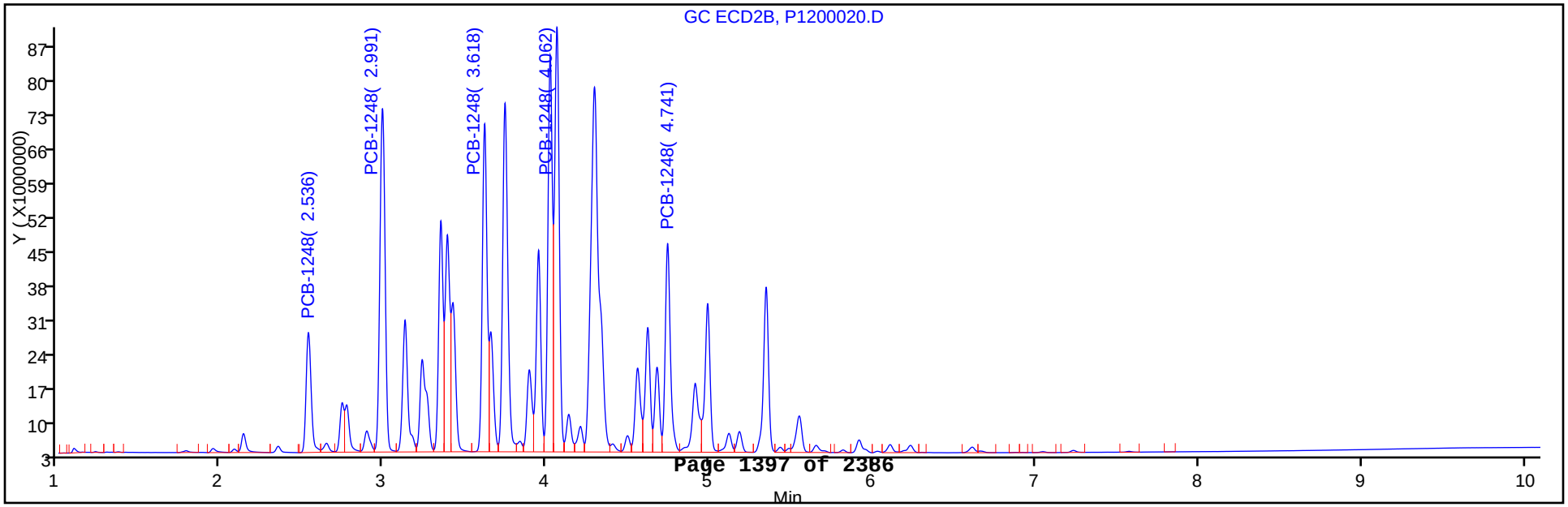
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200020.D

Injection Date:	01-Apr-2013 14:13:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 14:28 Calibration End Date: 04/01/2013 15:39 Calibration ID: 14296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/21	P1200021.D
Level 2	STD01 240-80043/22	P1200022.D
Level 3	STD02 240-80043/23	P1200023.D
Level 4	STD05 240-80043/24	P1200024.D
Level 5	STD1 240-80043/25	P1200025.D
Level 6	STD2 240-80043/26	P1200026.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.433	1.434	1.433	1.434	1.432	1.433					1.383 - 1.483	1.433
PCB-1221 Peak 2	1.544	1.545	1.544	1.546	1.544	1.546					1.494 - 1.594	1.545
PCB-1221 Peak 3	1.575	1.576	1.574	1.576	1.574	1.576					1.525 - 1.625	1.575
PCB-1254 Peak 1	3.404	3.405	3.402	3.404	3.403	3.405					3.354 - 3.454	3.404
PCB-1254 Peak 2	3.792	3.794	3.792	3.792	3.791	3.792					3.742 - 3.842	3.792
PCB-1254 Peak 3	4.075	4.077	4.074	4.074	4.074	4.076					4.025 - 4.125	4.075
PCB-1254 Peak 4	4.269	4.270	4.267	4.267	4.267	4.267					4.219 - 4.319	4.268
PCB-1254 Peak 5	4.550	4.551	4.549	4.551	4.548	4.550					4.500 - 4.600	4.550

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 14:28 Calibration End Date: 04/01/2013 15:39 Calibration ID: 14296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/21	P1200021.D
Level 2	STD01 240-80043/22	P1200022.D
Level 3	STD02 240-80043/23	P1200023.D
Level 4	STD05 240-80043/24	P1200024.D
Level 5	STD1 240-80043/25	P1200025.D
Level 6	STD2 240-80043/26	P1200026.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	11501480 8231620	10684030 7747890	9654825	8653500	Ave		9412224.08				16.0		20.0			
PCB-1221 Peak 2	6324580 4759943	5137560 3429100	5704840	4861192	Ave		5036202.50				19.0		20.0			
PCB-1221 Peak 3	27179640 19710865	26777960 19242491	23117735	21181588	Ave		22868379.8				15.0		20.0			
PCB-1254 Peak 1	73840960 50700004	64420330 49937151	58069305	53972582	Ave		58490055.3				16.0		20.0			
PCB-1254 Peak 2	73894780 51552740	68578200 55486218	57789840	54130052	Ave		60238638.3				15.0		20.0			
PCB-1254 Peak 3	56473180 44782354	55540210 45539186	51709600	47963516	Ave		50334674.3				10.0		20.0			
PCB-1254 Peak 4	51799620 38039959	47710340 38003603	43832495	40352954	Ave		43289828.4				13.0		20.0			
PCB-1254 Peak 5	72679720 55001113	67533100 55861558	62654400	58266414	Ave		61999384.1				11.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 14:28 Calibration End Date: 04/01/2013 15:39 Calibration ID: 14296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/21	P1200021.D
Level 2	STD01 240-80043/22	P1200022.D
Level 3	STD02 240-80043/23	P1200023.D
Level 4	STD05 240-80043/24	P1200024.D
Level 5	STD1 240-80043/25	P1200025.D
Level 6	STD2 240-80043/26	P1200026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	575074 15495779	1068403	1930965	4326750	8231620	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	316229 6858200	513756	1140968	2430596	4759943	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	1358982 38484981	2677796	4623547	10590794	19710865	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	3692048 99874301	6442033	11613861	26986291	50700004	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	3694739 110972435	6857820	11557968	27065026	51552740	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	2823659 91078372	5554021	10341920	23981758	44782354	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	2589981 76007205	4771034	8766499	20176477	38039959	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	3633986 111723115	6753310	12530880	29133207	55001113	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200021.D
Lims ID: STD005 AR2154 Client ID:
Inject. Date: 01-Apr-2013 14:28:13 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018420-021
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 80043 Lims Sample ID: 21
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:50 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

First Level Reviewer: hassl Date: 02-Apr-2013 06:50:26

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.433	1.433	0.000	575074	0.0611		100.0	
1	3	1.544	1.544	0.000	316229	0.0628	34.1- 84.1	55.0	
1	4	1.575	1.575	0.000	1358982	0.0594	214.4- 264.4	236.3	
			Average of Peak Amounts =			0.0611			
2	4	1.948	1.948	0.000	1650574	0.0611		100.0	
2	5	2.080	2.080	0.000	1104696	0.0607	38.7- 98.7	66.9	
2	6	2.137	2.137	0.000	3950978	0.0610	210.1- 270.1	239.4	
			Average of Peak Amounts =			0.0610			
						RPD = 0.25			
8 PCB-1254									
1	100	3.404	3.404	0.000	3692048	0.0631		100.0	
1	2	3.792	3.792	0.000	3694739	0.0613	74.5- 124.5	100.1	
1	3	4.075	4.075	0.000	2823659	0.0561	64.0- 114.0	76.5	
1	4	4.269	4.269	0.000	2589981	0.0598	50.5- 100.5	70.2	
1	5	4.550	4.550	0.000	3633986	0.0586	82.9- 132.9	98.4	
			Average of Peak Amounts =			0.0598			
2	6	4.268	4.268	0.000	6500049	0.0578		100.0	
2	7	4.741	4.741	0.000	9728442	0.0559	124.4- 184.4	149.7	
2	8	4.986	4.986	0.000	6929906	0.0564	78.3- 138.3	106.6	
2	9	5.345	5.345	0.000	7972096	0.0560	95.8- 155.8	122.6	
2	10	5.549	5.549	0.000	9344914	0.0556	119.6- 179.6	143.8	
			Average of Peak Amounts =			0.0563			
						RPD = 5.99			

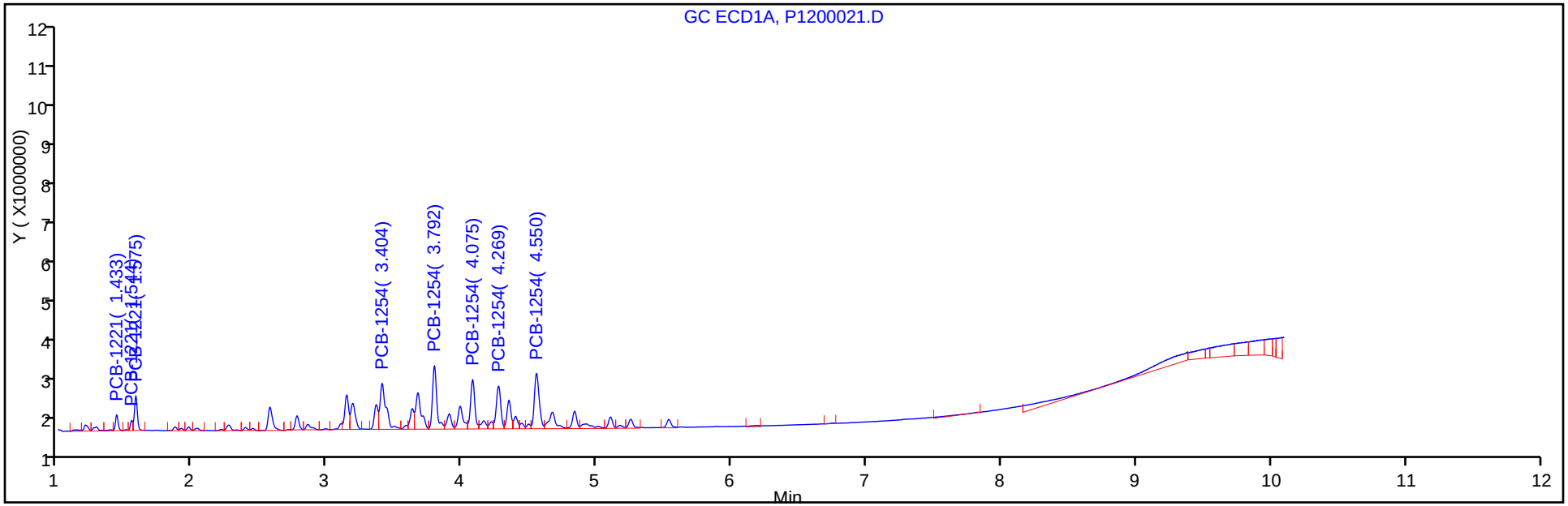
Report Date: 02-Apr-2013 07:00:51 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

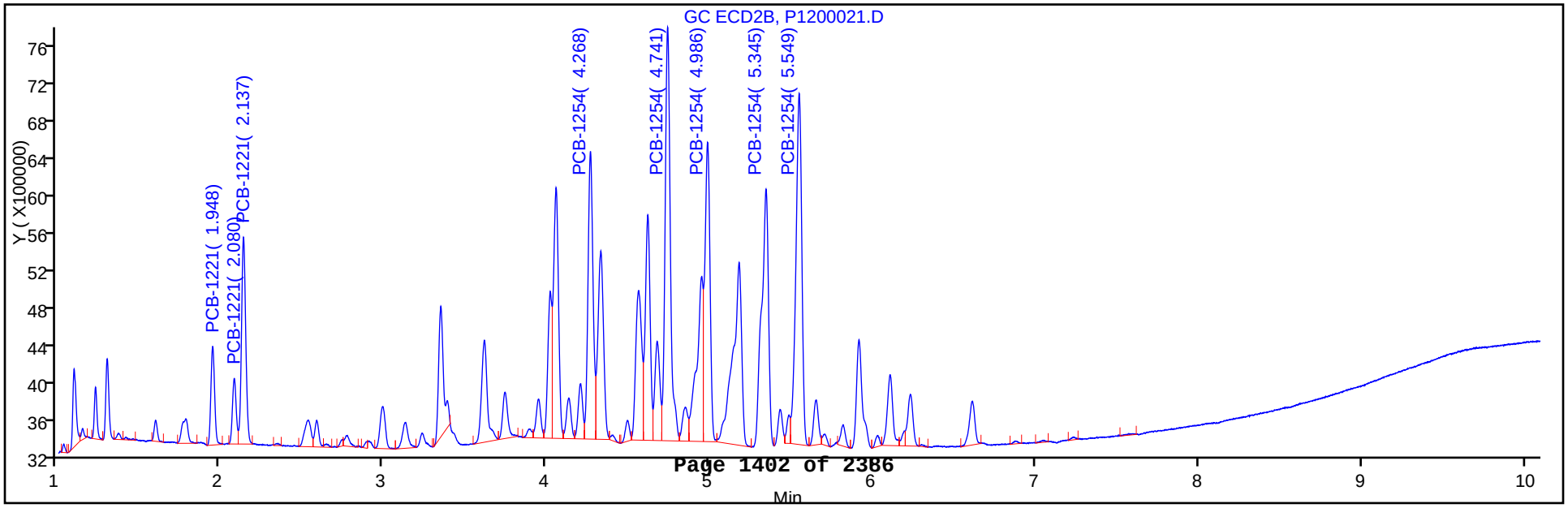
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200021.D

Injection Date:	01-Apr-2013 14:28:13	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200022.D
Lims ID: STD01 AR2154 Client ID:
Inject. Date: 01-Apr-2013 14:42:48 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-022
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 80043 Lims Sample ID: 22
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:52 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.434	1.433	0.001	1068403	0.1135		100.0	
1	3	1.545	1.544	0.001	513756	0.1020	34.1- 84.1	48.1	
1	4	1.576	1.575	0.001	2677796	0.1171	214.4- 264.4	250.6	
			Average of Peak Amounts =			0.1109			
2	4	1.949	1.948	0.001	2984288	0.1105		100.0	
2	5	2.081	2.080	0.001	2023259	0.1113	38.7- 98.7	67.8	
2	6	2.138	2.137	0.001	7035874	0.1086	210.1- 270.1	235.8	
			Average of Peak Amounts =			0.1101			
						RPD = 0.67			
8 PCB-1254									
1	100	3.405	3.404	0.001	6442033	0.1101		100.0	
1	2	3.794	3.792	0.002	6857820	0.1138	74.5- 124.5	106.5	
1	3	4.077	4.075	0.002	5554021	0.1103	64.0- 114.0	86.2	
1	4	4.270	4.269	0.001	4771034	0.1102	50.5- 100.5	74.1	
1	5	4.551	4.550	0.001	6753310	0.1089	82.9- 132.9	104.8	
			Average of Peak Amounts =			0.1107			
2	6	4.268	4.268	0.000	12010426	0.1067		100.0	
2	7	4.742	4.741	0.001	17914496	0.1029	124.4- 184.4	149.2	
2	8	4.988	4.986	0.002	12779114	0.1041	78.3- 138.3	106.4	
2	9	5.346	5.345	0.001	14885183	0.1045	95.8- 155.8	123.9	
2	10	5.550	5.549	0.001	17482957	0.1039	119.6- 179.6	145.6	
			Average of Peak Amounts =			0.1044			
						RPD = 5.82			

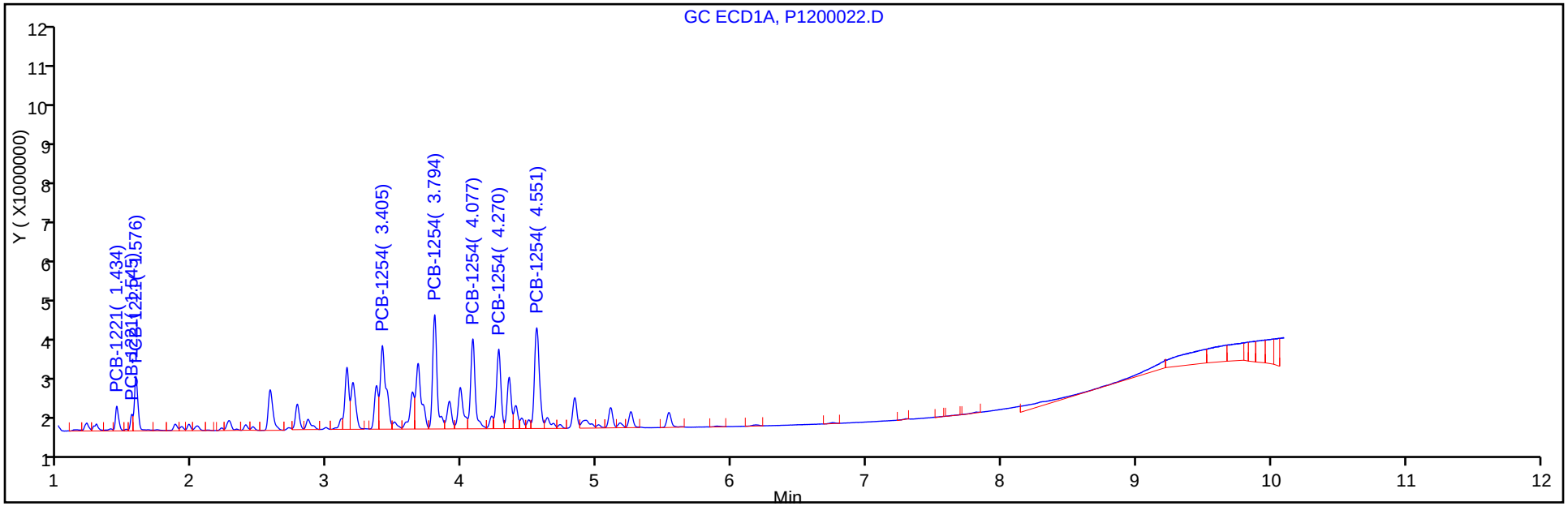
Report Date: 02-Apr-2013 07:00:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

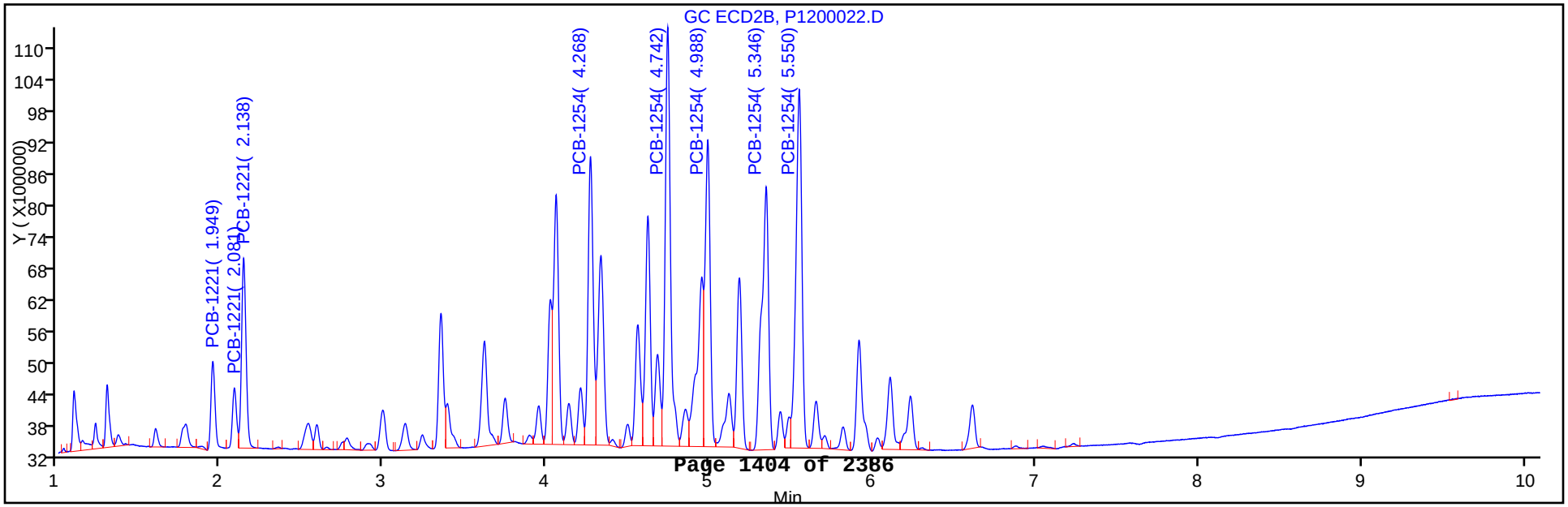
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200022.D

Injection Date:	01-Apr-2013 14:42:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200023.D
Lims ID: STD02 AR2154 Client ID:
Inject. Date: 01-Apr-2013 14:56:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-023
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 80043 Lims Sample ID: 23
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:53 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.433	1.433	0.000	1930965	0.2052		100.0	
1	3	1.544	1.544	0.000	1140968	0.2266	34.1- 84.1	59.1	
1	4	1.574	1.575	-0.001	4623547	0.2022	214.4- 264.4	239.4	
			Average of Peak Amounts =			0.2113			
2	4	1.948	1.948	0.000	5416468	0.2005		100.0	
2	5	2.079	2.080	-0.001	3719594	0.2045	38.7- 98.7	68.7	
2	6	2.136	2.137	-0.001	13006772	0.2008	210.1- 270.1	240.1	
			Average of Peak Amounts =			0.2020			
						RPD = 4.51			
8 PCB-1254									
1	100	3.402	3.404	-0.002	11613861	0.1986		100.0	
1	2	3.792	3.792	0.000	11557968	0.1919	74.5- 124.5	99.5	
1	3	4.074	4.075	-0.001	10341920	0.2055	64.0- 114.0	89.0	
1	4	4.267	4.269	-0.002	8766499	0.2025	50.5- 100.5	75.5	
1	5	4.549	4.550	-0.001	12530880	0.2021	82.9- 132.9	107.9	
			Average of Peak Amounts =			0.2001			
2	6	4.267	4.268	-0.001	22425641	0.1992		100.0	
2	7	4.741	4.741	0.000	34620654	0.1989	124.4- 184.4	154.4	
2	8	4.986	4.986	0.000	24297437	0.1979	78.3- 138.3	108.3	
2	9	5.345	5.345	0.000	28217117	0.1981	95.8- 155.8	125.8	
2	10	5.549	5.549	0.000	33547771	0.1994	119.6- 179.6	149.6	
			Average of Peak Amounts =			0.1987			
						RPD = 0.69			

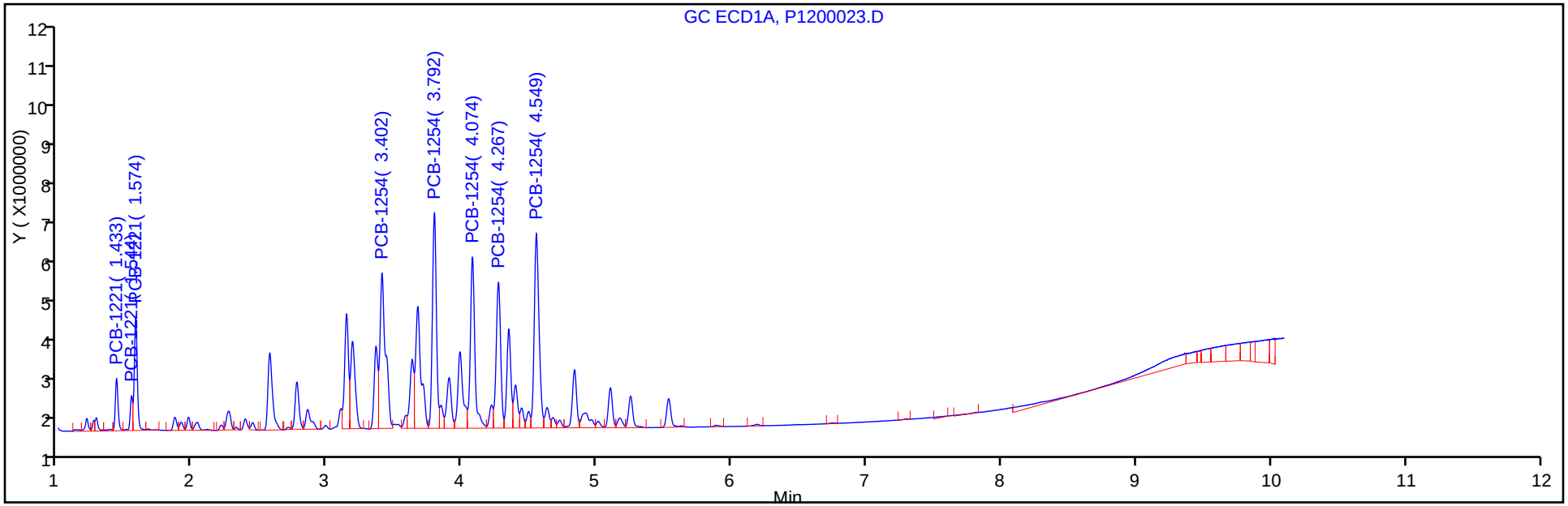
Report Date: 02-Apr-2013 07:00:54 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

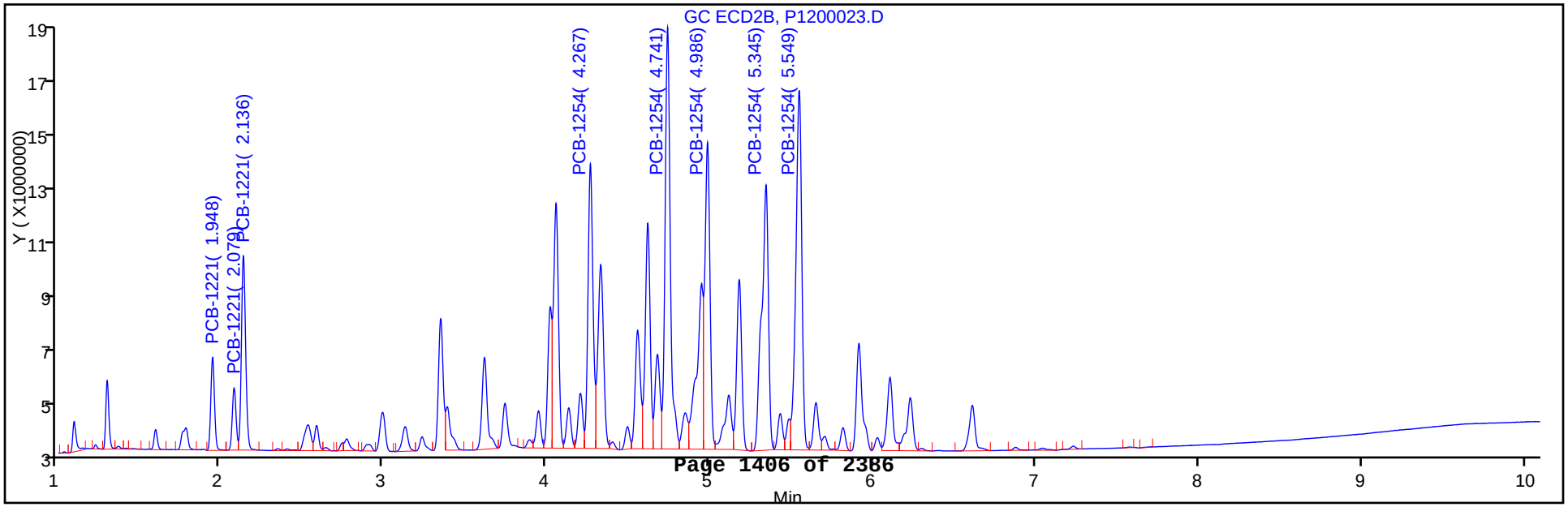
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200023.D

Injection Date:	01-Apr-2013 14:56:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200024.D
Lims ID: STD05 AR2154 Client ID:
Inject. Date: 01-Apr-2013 15:11:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018420-024
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 80043 Lims Sample ID: 24
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:54 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.434	1.433	0.001	4326750	0.4597		100.0	
1	3	1.546	1.544	0.002	2430596	0.4826	34.1- 84.1	56.2	
1	4	1.576	1.575	0.001	10590794	0.4631	214.4- 264.4	244.8	
			Average of Peak Amounts =			0.4685			
2	4	1.948	1.948	0.000	13074999	0.4841		100.0	
2	5	2.080	2.080	0.000	8874018	0.4880	38.7- 98.7	67.9	
2	6	2.137	2.137	0.000	31233968	0.4823	210.1- 270.1	238.9	
			Average of Peak Amounts =			0.4848			
						RPD = 3.42			
8 PCB-1254									
1	100	3.404	3.404	0.000	26986291	0.4614		100.0	
1	2	3.792	3.792	0.000	27065026	0.4493	74.5- 124.5	100.3	
1	3	4.074	4.075	-0.001	23981758	0.4764	64.0- 114.0	88.9	
1	4	4.267	4.269	-0.002	20176477	0.4661	50.5- 100.5	74.8	
1	5	4.551	4.550	0.001	29133207	0.4699	82.9- 132.9	108.0	
			Average of Peak Amounts =			0.4646			
2	6	4.268	4.268	0.000	52898085	0.4700		100.0	
2	7	4.741	4.741	0.000	83609361	0.4804	124.4- 184.4	158.1	
2	8	4.987	4.986	0.001	58490691	0.4764	78.3- 138.3	110.6	
2	9	5.346	5.345	0.001	67623627	0.4749	95.8- 155.8	127.8	
2	10	5.550	5.549	0.001	80419485	0.4781	119.6- 179.6	152.0	
			Average of Peak Amounts =			0.4759			
						RPD = 2.41			

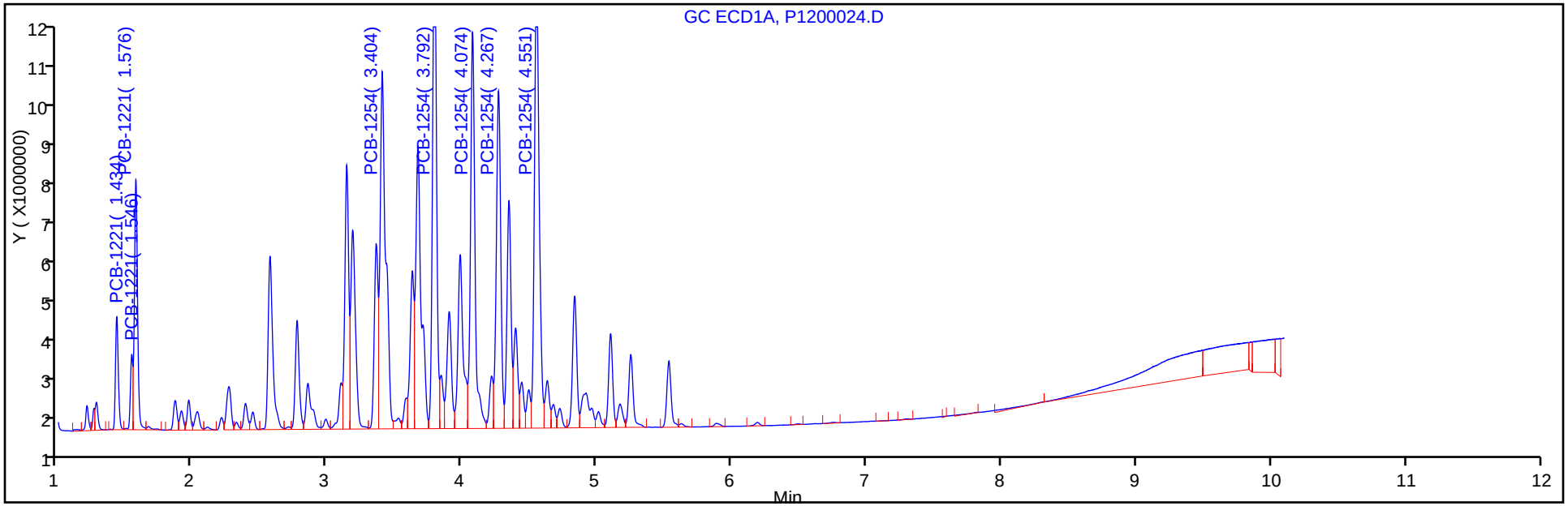
Report Date: 02-Apr-2013 07:00:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

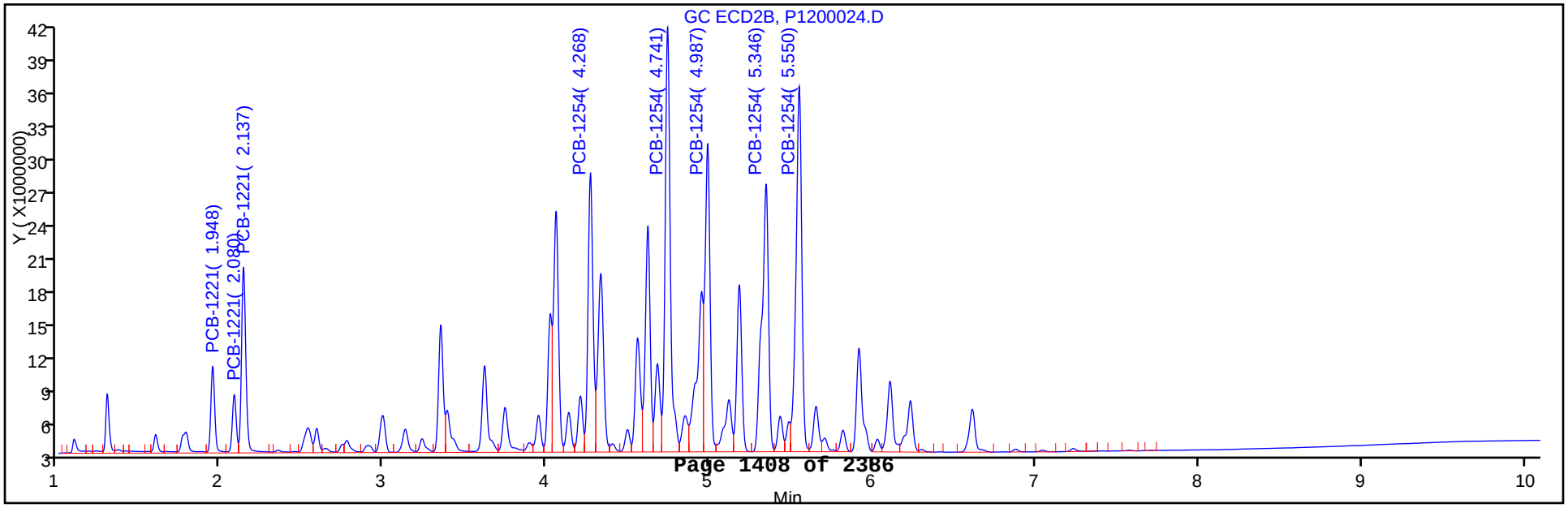
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200024.D

Injection Date:	01-Apr-2013 15:11:30	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200025.D
Lims ID: STD1 AR2154 Client ID:
Inject. Date: 01-Apr-2013 15:25:43 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-025
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 80043 Lims Sample ID: 25
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:56 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.432	1.433	-0.001	8231620	0.8746		100.0	
1	3	1.544	1.544	0.000	4759943	0.9451	34.1- 84.1	57.8	
1	4	1.574	1.575	-0.001	19710865	0.8619	214.4- 264.4	239.5	
			Average of Peak Amounts =			0.8939			
2	4	1.947	1.948	-0.001	23864828	0.8835		100.0	
2	5	2.080	2.080	0.000	15943025	0.8767	38.7- 98.7	66.8	
2	6	2.137	2.137	0.000	57806106	0.8926	210.1- 270.1	242.2	
			Average of Peak Amounts =			0.8843			
						RPD = 1.08			
8 PCB-1254									
1	100	3.403	3.404	-0.001	50700004	0.8668		100.0	
1	2	3.791	3.792	-0.001	51552740	0.8558	74.5- 124.5	101.7	
1	3	4.074	4.075	-0.001	44782354	0.8897	64.0- 114.0	88.3	
1	4	4.267	4.269	-0.002	38039959	0.8787	50.5- 100.5	75.0	
1	5	4.548	4.550	-0.002	55001113	0.8871	82.9- 132.9	108.5	
			Average of Peak Amounts =			0.8756			
2	6	4.267	4.268	-0.001	103062164	0.9157		100.0	
2	7	4.741	4.741	0.000	163996198	0.9423	124.4- 184.4	159.1	
2	8	4.987	4.986	0.001	113448835	0.9239	78.3- 138.3	110.1	
2	9	5.346	5.345	0.001	131924802	0.9264	95.8- 155.8	128.0	
2	10	5.550	5.549	0.001	156099207	0.9279	119.6- 179.6	151.5	
			Average of Peak Amounts =			0.9273			
						RPD = 5.73			

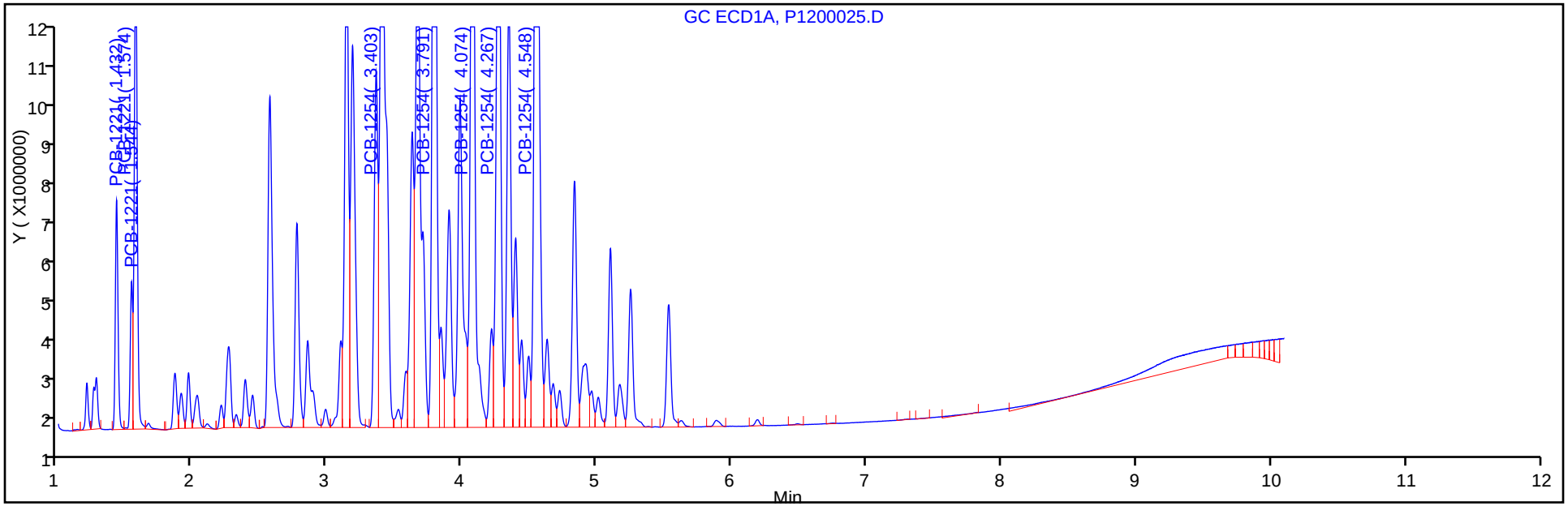
Report Date: 02-Apr-2013 07:00:56 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

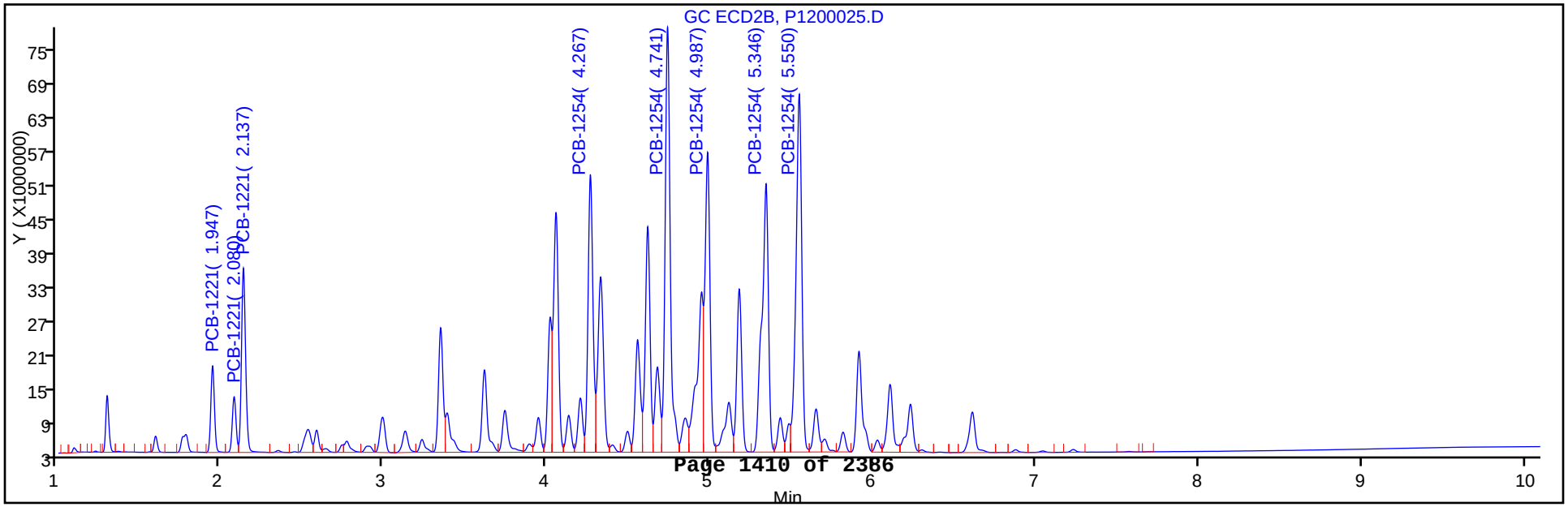
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200025.D

Injection Date:	01-Apr-2013 15:25:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200026.D
Lims ID: STD2 AR2154 Client ID:
Inject. Date: 01-Apr-2013 15:39:48 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018420-026
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 80043 Lims Sample ID: 26
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:57 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.433	1.433	0.000	15495779	1.65		100.0	
1	3	1.546	1.544	0.002	6858200	1.36	34.1- 84.1	44.3	
1	4	1.576	1.575	0.001	38484981	1.68	214.4- 264.4	248.4	
			Average of Peak Amounts =			1.56			
2	4	1.949	1.948	0.001	44229767	1.64		100.0	
2	5	2.081	2.080	0.001	28998688	1.59	38.7- 98.7	65.6	
2	6	2.138	2.137	0.001	107732032	1.66	210.1- 270.1	243.6	
			Average of Peak Amounts =			1.63			
						RPD = 4.27			
8 PCB-1254									
1	100	3.405	3.404	0.001	99874301	1.71		100.0	
1	2	3.792	3.792	0.000	110972435	1.84	74.5- 124.5	111.1	
1	3	4.076	4.075	0.001	91078372	1.81	64.0- 114.0	91.2	
1	4	4.267	4.269	-0.002	76007205	1.76	50.5- 100.5	76.1	
1	5	4.550	4.550	0.000	111723115	1.80	82.9- 132.9	111.9	
			Average of Peak Amounts =			1.78			
2	6	4.269	4.268	0.001	208439308	1.85		100.0	
2	7	4.741	4.741	0.000	332436680	1.91	124.4- 184.4	159.5	
2	8	4.988	4.986	0.002	236837156	1.93	78.3- 138.3	113.6	
2	9	5.346	5.345	0.001	275735108	1.94	95.8- 155.8	132.3	
2	10	5.551	5.549	0.002	325866112	1.94	119.6- 179.6	156.3	
			Average of Peak Amounts =			1.91			
						RPD = 7.00			

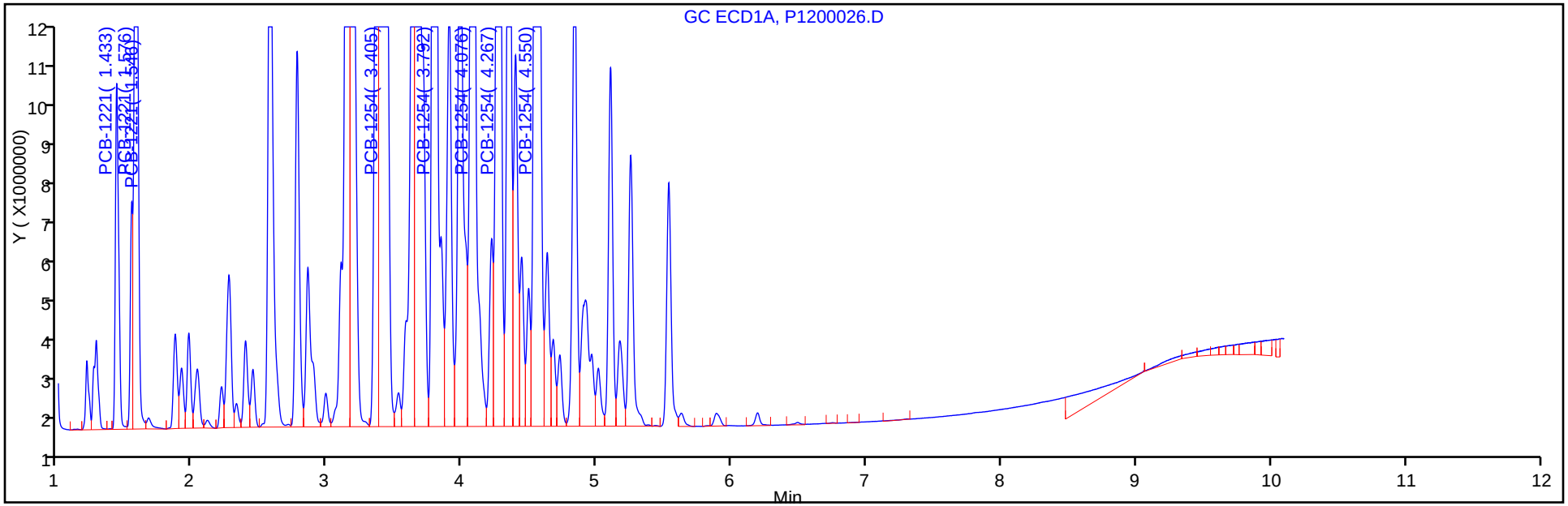
Report Date: 02-Apr-2013 07:00:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

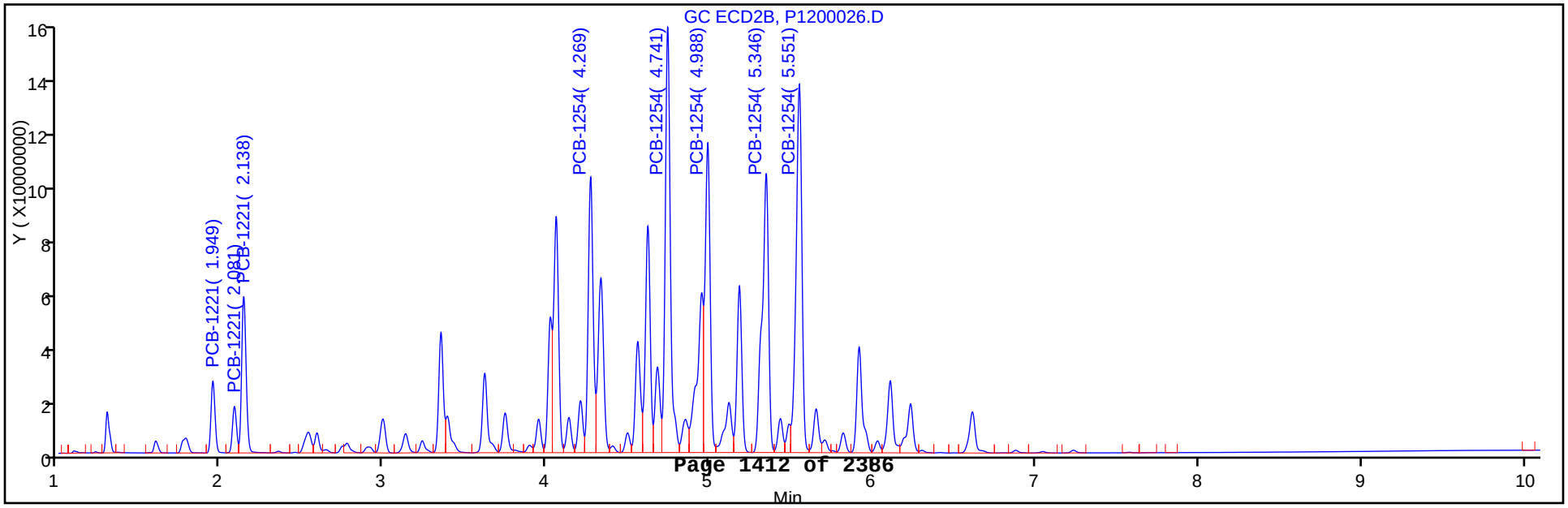
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200026.D

Injection Date:	01-Apr-2013 15:39:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 14:28 Calibration End Date: 04/01/2013 15:39 Calibration ID: 14297

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/21	P1200021.D
Level 2	STD01 240-80043/22	P1200022.D
Level 3	STD02 240-80043/23	P1200023.D
Level 4	STD05 240-80043/24	P1200024.D
Level 5	STD1 240-80043/25	P1200025.D
Level 6	STD2 240-80043/26	P1200026.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.948	1.949	1.948	1.948	1.947	1.949					1.898 - 1.998	1.948
PCB-1221 Peak 2	2.080	2.081	2.079	2.080	2.080	2.081					2.030 - 2.130	2.080
PCB-1221 Peak 3	2.137	2.138	2.136	2.137	2.137	2.138					2.087 - 2.187	2.137
PCB-1254 Peak 1	4.268	4.268	4.267	4.268	4.267	4.269					4.218 - 4.318	4.268
PCB-1254 Peak 2	4.741	4.742	4.741	4.741	4.741	4.741					4.691 - 4.791	4.741
PCB-1254 Peak 3	4.986	4.988	4.986	4.987	4.987	4.988					4.936 - 5.036	4.987
PCB-1254 Peak 4	5.345	5.346	5.345	5.346	5.346	5.346					5.295 - 5.395	5.346
PCB-1254 Peak 5	5.549	5.550	5.549	5.550	5.550	5.551					5.499 - 5.599	5.550

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 14:28 Calibration End Date: 04/01/2013 15:39 Calibration ID: 14297

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/21	P1200021.D
Level 2	STD01 240-80043/22	P1200022.D
Level 3	STD02 240-80043/23	P1200023.D
Level 4	STD05 240-80043/24	P1200024.D
Level 5	STD1 240-80043/25	P1200025.D
Level 6	STD2 240-80043/26	P1200026.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	33011480 23864828	29842880 22114884	27082340	26149998	Ave		27011068.3				15.0		20.0			
PCB-1221 Peak 2	22093920 15943025	20232590 14499344	18597970	17748036	Ave		18185814.2				15.0		20.0			
PCB-1221 Peak 3	79019560 57806106	70358740 53866016	65033860	62467936	Ave		64758703.0				14.0		20.0			
PCB-1254 Peak 1	130000980 103062164	120104260 104219654	112128205	105796170	Ave		112551906				9.5		20.0			
PCB-1254 Peak 2	194568840 163996198	179144960 166218340	173103270	167218722	Ave		174041722				6.6		20.0			
PCB-1254 Peak 3	138598120 113448835	127791140 118418578	121487185	116981382	Ave		122787540				7.4		20.0			
PCB-1254 Peak 4	159441920 131924802	148851830 137867554	141085585	135247254	Ave		142403158				7.1		20.0			
PCB-1254 Peak 5	186898280 156099207	174829570 162933056	167738855	160838970	Ave		168222990				6.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 14:28 Calibration End Date: 04/01/2013 15:39 Calibration ID: 14297

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/21	P1200021.D
Level 2	STD01 240-80043/22	P1200022.D
Level 3	STD02 240-80043/23	P1200023.D
Level 4	STD05 240-80043/24	P1200024.D
Level 5	STD1 240-80043/25	P1200025.D
Level 6	STD2 240-80043/26	P1200026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	1650574 44229767	2984288	5416468	13074999	23864828	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	1104696 28998688	2023259	3719594	8874018	15943025	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	3950978 107732032	7035874	13006772	31233968	57806106	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	6500049 208439308	12010426	22425641	52898085	103062164	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	9728442 332436680	17914496	34620654	83609361	163996198	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	6929906 236837156	12779114	24297437	58490691	113448835	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	7972096 275735108	14885183	28217117	67623627	131924802	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	9344914 325866112	17482957	33547771	80419485	156099207	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200021.D
Lims ID: STD005 AR2154 Client ID:
Inject. Date: 01-Apr-2013 14:28:13 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018420-021
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 80043 Lims Sample ID: 21
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:50 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

First Level Reviewer: hassl Date: 02-Apr-2013 06:50:26

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.433	1.433	0.000	575074	0.0611		100.0	
1	3	1.544	1.544	0.000	316229	0.0628	34.1- 84.1	55.0	
1	4	1.575	1.575	0.000	1358982	0.0594	214.4- 264.4	236.3	
			Average of Peak Amounts =			0.0611			
2	4	1.948	1.948	0.000	1650574	0.0611		100.0	
2	5	2.080	2.080	0.000	1104696	0.0607	38.7- 98.7	66.9	
2	6	2.137	2.137	0.000	3950978	0.0610	210.1- 270.1	239.4	
			Average of Peak Amounts =			0.0610			
						RPD = 0.25			
8 PCB-1254									
1	100	3.404	3.404	0.000	3692048	0.0631		100.0	
1	2	3.792	3.792	0.000	3694739	0.0613	74.5- 124.5	100.1	
1	3	4.075	4.075	0.000	2823659	0.0561	64.0- 114.0	76.5	
1	4	4.269	4.269	0.000	2589981	0.0598	50.5- 100.5	70.2	
1	5	4.550	4.550	0.000	3633986	0.0586	82.9- 132.9	98.4	
			Average of Peak Amounts =			0.0598			
2	6	4.268	4.268	0.000	6500049	0.0578		100.0	
2	7	4.741	4.741	0.000	9728442	0.0559	124.4- 184.4	149.7	
2	8	4.986	4.986	0.000	6929906	0.0564	78.3- 138.3	106.6	
2	9	5.345	5.345	0.000	7972096	0.0560	95.8- 155.8	122.6	
2	10	5.549	5.549	0.000	9344914	0.0556	119.6- 179.6	143.8	
			Average of Peak Amounts =			0.0563			
						RPD = 5.99			

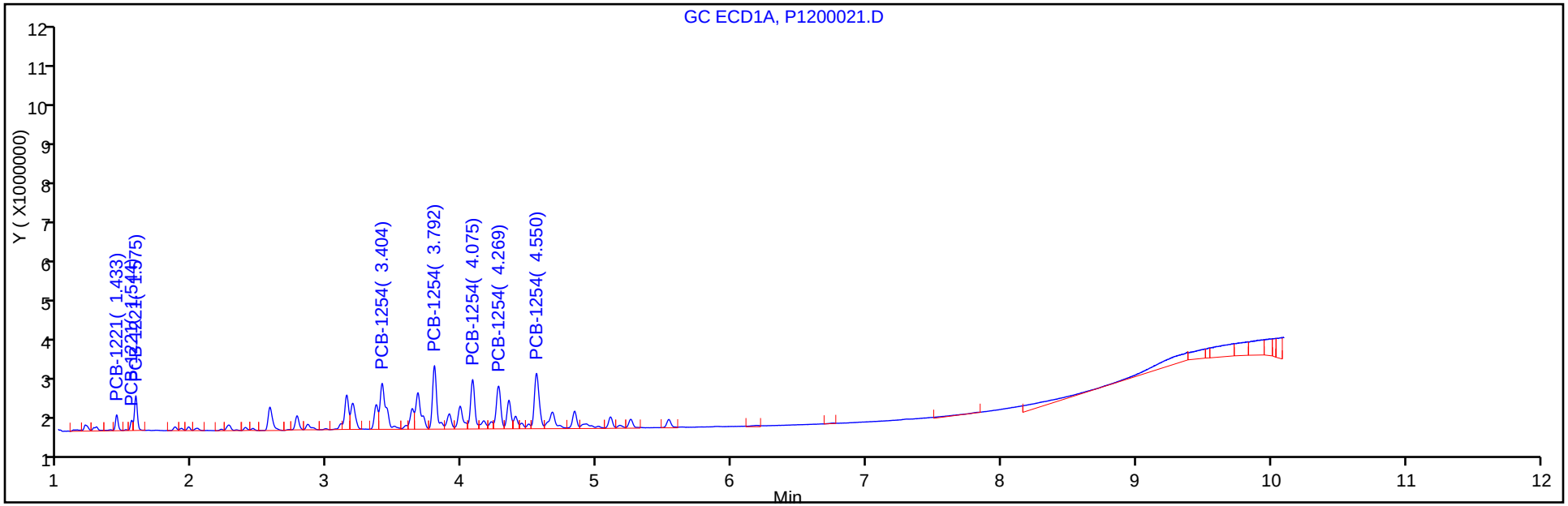
Report Date: 02-Apr-2013 07:00:51 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

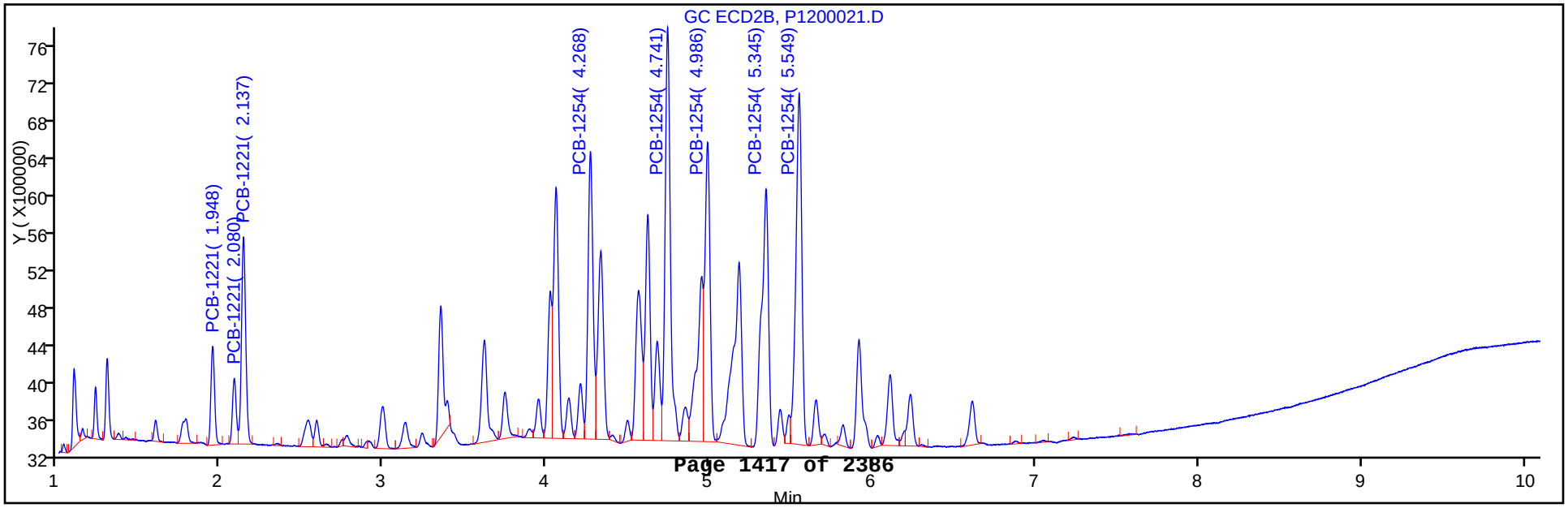
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200021.D

Injection Date:	01-Apr-2013 14:28:13	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200022.D
Lims ID: STD01 AR2154 Client ID:
Inject. Date: 01-Apr-2013 14:42:48 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-022
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 80043 Lims Sample ID: 22
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:52 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.434	1.433	0.001	1068403	0.1135		100.0	
1	3	1.545	1.544	0.001	513756	0.1020	34.1- 84.1	48.1	
1	4	1.576	1.575	0.001	2677796	0.1171	214.4- 264.4	250.6	
			Average of Peak Amounts =			0.1109			
2	4	1.949	1.948	0.001	2984288	0.1105		100.0	
2	5	2.081	2.080	0.001	2023259	0.1113	38.7- 98.7	67.8	
2	6	2.138	2.137	0.001	7035874	0.1086	210.1- 270.1	235.8	
			Average of Peak Amounts =			0.1101			
						RPD = 0.67			
8 PCB-1254									
1	100	3.405	3.404	0.001	6442033	0.1101		100.0	
1	2	3.794	3.792	0.002	6857820	0.1138	74.5- 124.5	106.5	
1	3	4.077	4.075	0.002	5554021	0.1103	64.0- 114.0	86.2	
1	4	4.270	4.269	0.001	4771034	0.1102	50.5- 100.5	74.1	
1	5	4.551	4.550	0.001	6753310	0.1089	82.9- 132.9	104.8	
			Average of Peak Amounts =			0.1107			
2	6	4.268	4.268	0.000	12010426	0.1067		100.0	
2	7	4.742	4.741	0.001	17914496	0.1029	124.4- 184.4	149.2	
2	8	4.988	4.986	0.002	12779114	0.1041	78.3- 138.3	106.4	
2	9	5.346	5.345	0.001	14885183	0.1045	95.8- 155.8	123.9	
2	10	5.550	5.549	0.001	17482957	0.1039	119.6- 179.6	145.6	
			Average of Peak Amounts =			0.1044			
						RPD = 5.82			

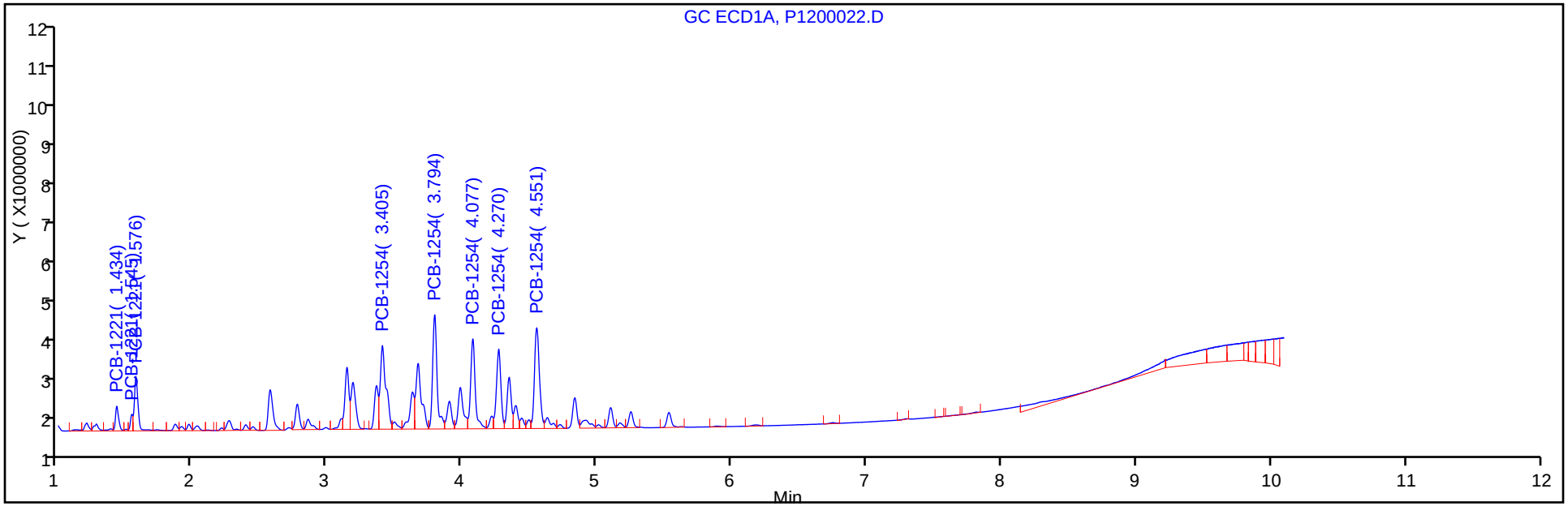
Report Date: 02-Apr-2013 07:00:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

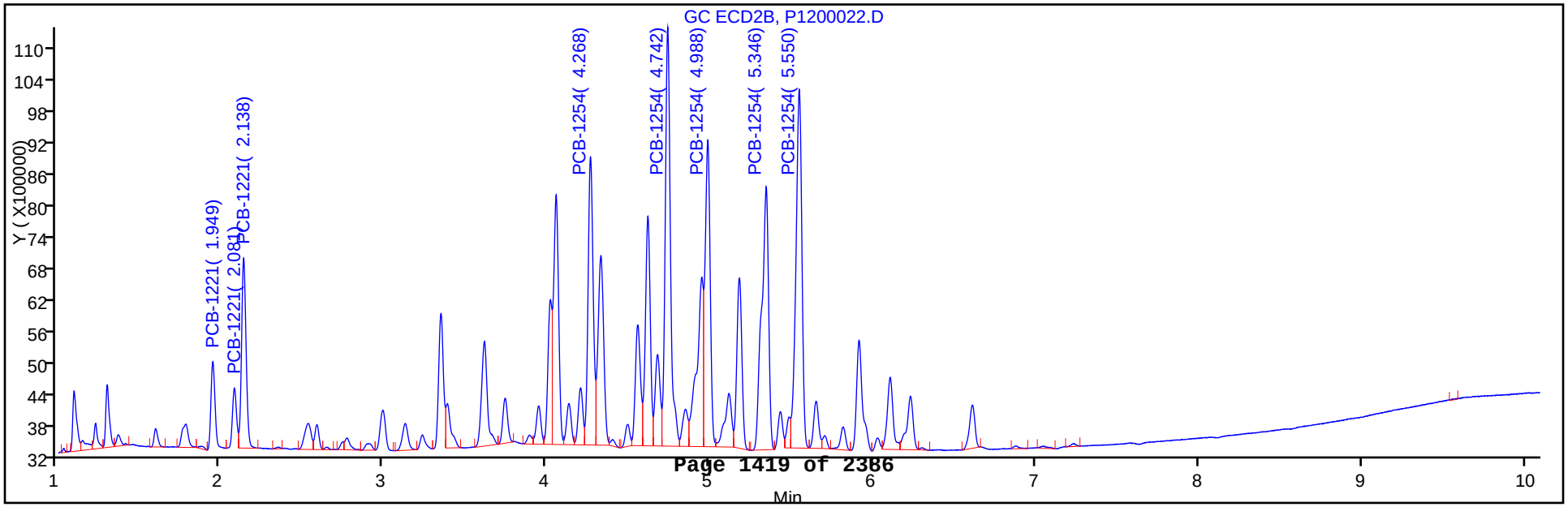
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200022.D

Injection Date:	01-Apr-2013 14:42:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200023.D
Lims ID: STD02 AR2154 Client ID:
Inject. Date: 01-Apr-2013 14:56:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-023
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 80043 Lims Sample ID: 23
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:53 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.433	1.433	0.000	1930965	0.2052		100.0	
1	3	1.544	1.544	0.000	1140968	0.2266	34.1- 84.1	59.1	
1	4	1.574	1.575	-0.001	4623547	0.2022	214.4- 264.4	239.4	
			Average of Peak Amounts =			0.2113			
2	4	1.948	1.948	0.000	5416468	0.2005		100.0	
2	5	2.079	2.080	-0.001	3719594	0.2045	38.7- 98.7	68.7	
2	6	2.136	2.137	-0.001	13006772	0.2008	210.1- 270.1	240.1	
			Average of Peak Amounts =			0.2020			
						RPD = 4.51			
8 PCB-1254									
1	100	3.402	3.404	-0.002	11613861	0.1986		100.0	
1	2	3.792	3.792	0.000	11557968	0.1919	74.5- 124.5	99.5	
1	3	4.074	4.075	-0.001	10341920	0.2055	64.0- 114.0	89.0	
1	4	4.267	4.269	-0.002	8766499	0.2025	50.5- 100.5	75.5	
1	5	4.549	4.550	-0.001	12530880	0.2021	82.9- 132.9	107.9	
			Average of Peak Amounts =			0.2001			
2	6	4.267	4.268	-0.001	22425641	0.1992		100.0	
2	7	4.741	4.741	0.000	34620654	0.1989	124.4- 184.4	154.4	
2	8	4.986	4.986	0.000	24297437	0.1979	78.3- 138.3	108.3	
2	9	5.345	5.345	0.000	28217117	0.1981	95.8- 155.8	125.8	
2	10	5.549	5.549	0.000	33547771	0.1994	119.6- 179.6	149.6	
			Average of Peak Amounts =			0.1987			
						RPD = 0.69			

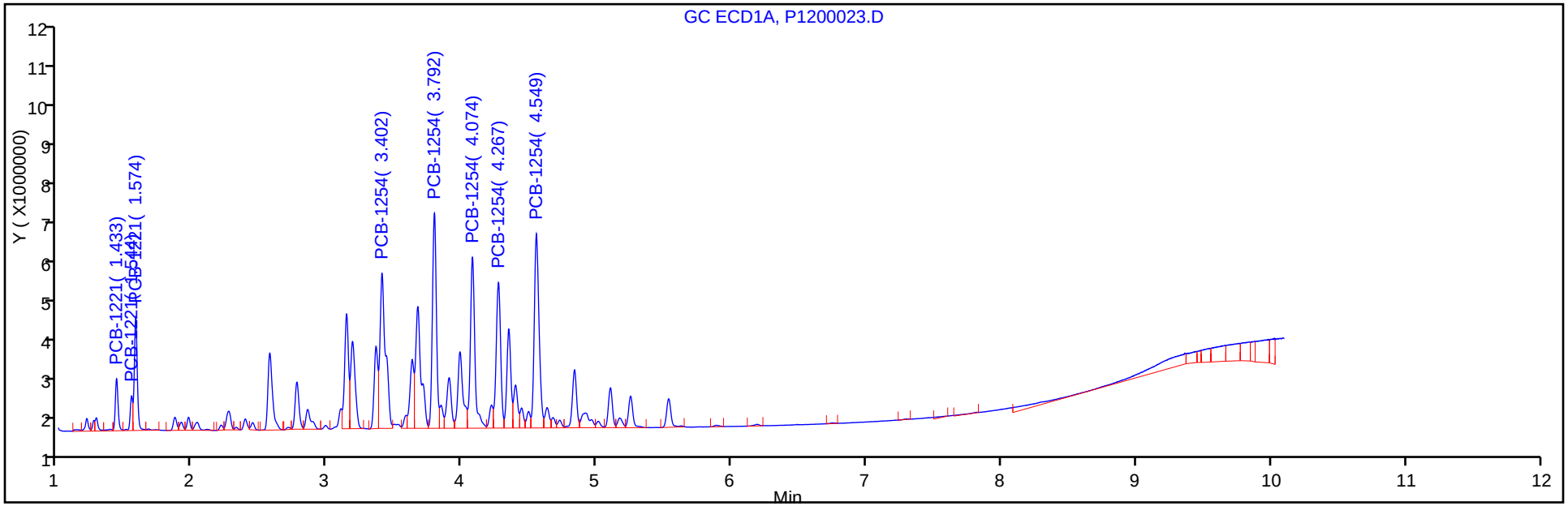
Report Date: 02-Apr-2013 07:00:54 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

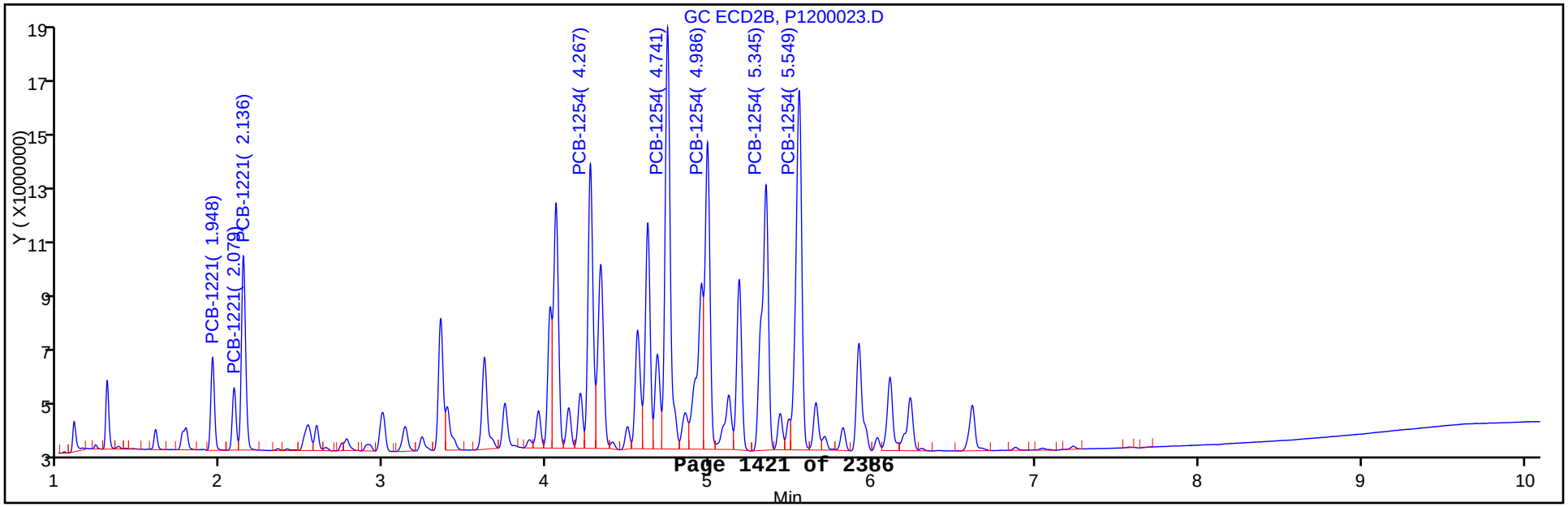
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200023.D

Injection Date:	01-Apr-2013 14:56:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200024.D
Lims ID: STD05 AR2154 Client ID:
Inject. Date: 01-Apr-2013 15:11:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018420-024
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 80043 Lims Sample ID: 24
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:54 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.434	1.433	0.001	4326750	0.4597		100.0	
1	3	1.546	1.544	0.002	2430596	0.4826	34.1- 84.1	56.2	
1	4	1.576	1.575	0.001	10590794	0.4631	214.4- 264.4	244.8	
			Average of Peak Amounts =			0.4685			
2	4	1.948	1.948	0.000	13074999	0.4841		100.0	
2	5	2.080	2.080	0.000	8874018	0.4880	38.7- 98.7	67.9	
2	6	2.137	2.137	0.000	31233968	0.4823	210.1- 270.1	238.9	
			Average of Peak Amounts =			0.4848			
						RPD = 3.42			
8 PCB-1254									
1	100	3.404	3.404	0.000	26986291	0.4614		100.0	
1	2	3.792	3.792	0.000	27065026	0.4493	74.5- 124.5	100.3	
1	3	4.074	4.075	-0.001	23981758	0.4764	64.0- 114.0	88.9	
1	4	4.267	4.269	-0.002	20176477	0.4661	50.5- 100.5	74.8	
1	5	4.551	4.550	0.001	29133207	0.4699	82.9- 132.9	108.0	
			Average of Peak Amounts =			0.4646			
2	6	4.268	4.268	0.000	52898085	0.4700		100.0	
2	7	4.741	4.741	0.000	83609361	0.4804	124.4- 184.4	158.1	
2	8	4.987	4.986	0.001	58490691	0.4764	78.3- 138.3	110.6	
2	9	5.346	5.345	0.001	67623627	0.4749	95.8- 155.8	127.8	
2	10	5.550	5.549	0.001	80419485	0.4781	119.6- 179.6	152.0	
			Average of Peak Amounts =			0.4759			
						RPD = 2.41			

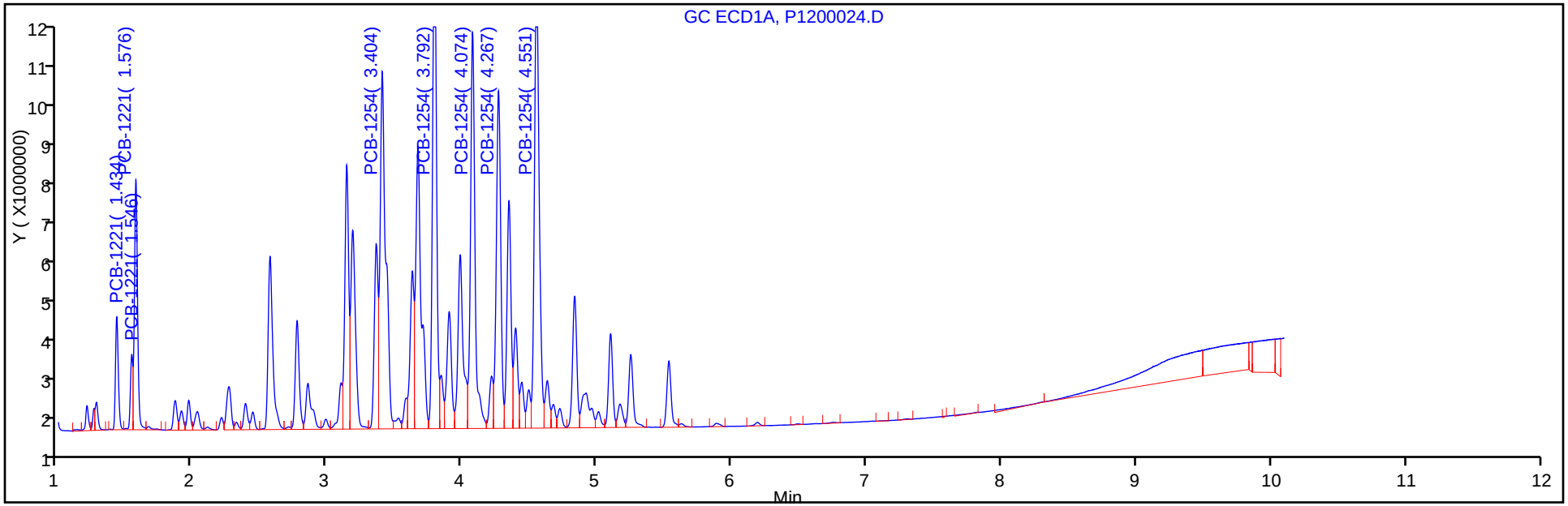
Report Date: 02-Apr-2013 07:00:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

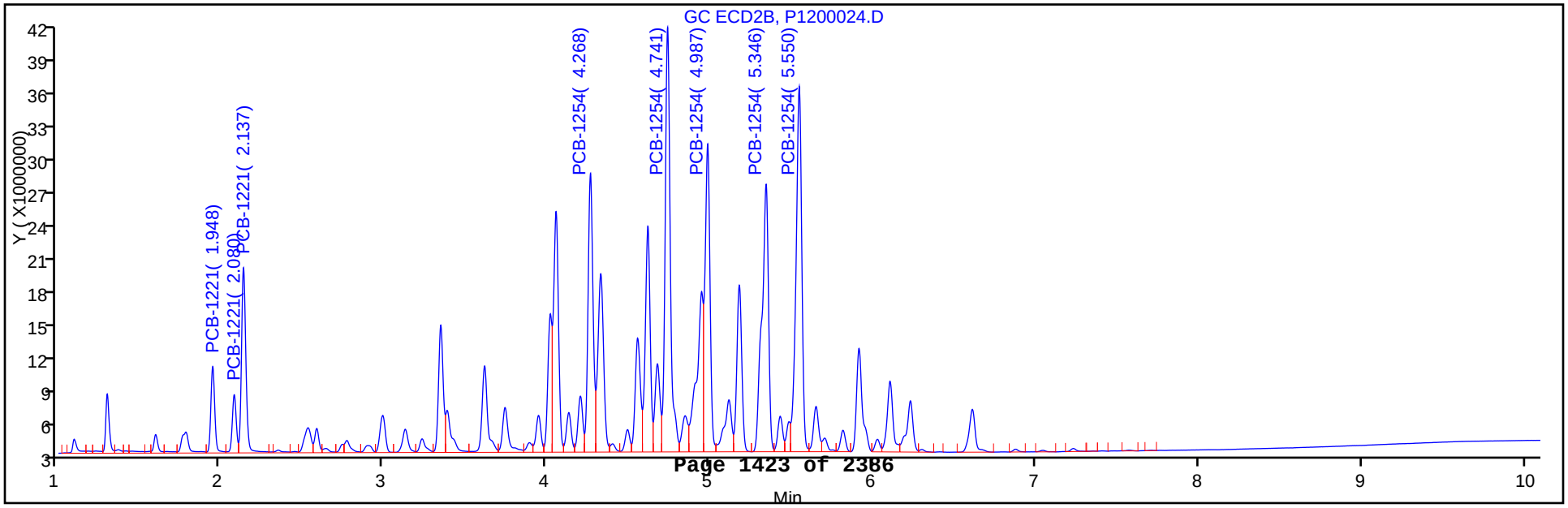
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200024.D

Injection Date:	01-Apr-2013 15:11:30	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200025.D
Lims ID: STD1 AR2154 Client ID:
Inject. Date: 01-Apr-2013 15:25:43 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-025
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 80043 Lims Sample ID: 25
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:56 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.432	1.433	-0.001	8231620	0.8746		100.0	
1	3	1.544	1.544	0.000	4759943	0.9451	34.1- 84.1	57.8	
1	4	1.574	1.575	-0.001	19710865	0.8619	214.4- 264.4	239.5	
			Average of Peak Amounts =			0.8939			
2	4	1.947	1.948	-0.001	23864828	0.8835		100.0	
2	5	2.080	2.080	0.000	15943025	0.8767	38.7- 98.7	66.8	
2	6	2.137	2.137	0.000	57806106	0.8926	210.1- 270.1	242.2	
			Average of Peak Amounts =			0.8843			
						RPD = 1.08			
8 PCB-1254									
1	100	3.403	3.404	-0.001	50700004	0.8668		100.0	
1	2	3.791	3.792	-0.001	51552740	0.8558	74.5- 124.5	101.7	
1	3	4.074	4.075	-0.001	44782354	0.8897	64.0- 114.0	88.3	
1	4	4.267	4.269	-0.002	38039959	0.8787	50.5- 100.5	75.0	
1	5	4.548	4.550	-0.002	55001113	0.8871	82.9- 132.9	108.5	
			Average of Peak Amounts =			0.8756			
2	6	4.267	4.268	-0.001	103062164	0.9157		100.0	
2	7	4.741	4.741	0.000	163996198	0.9423	124.4- 184.4	159.1	
2	8	4.987	4.986	0.001	113448835	0.9239	78.3- 138.3	110.1	
2	9	5.346	5.345	0.001	131924802	0.9264	95.8- 155.8	128.0	
2	10	5.550	5.549	0.001	156099207	0.9279	119.6- 179.6	151.5	
			Average of Peak Amounts =			0.9273			
						RPD = 5.73			

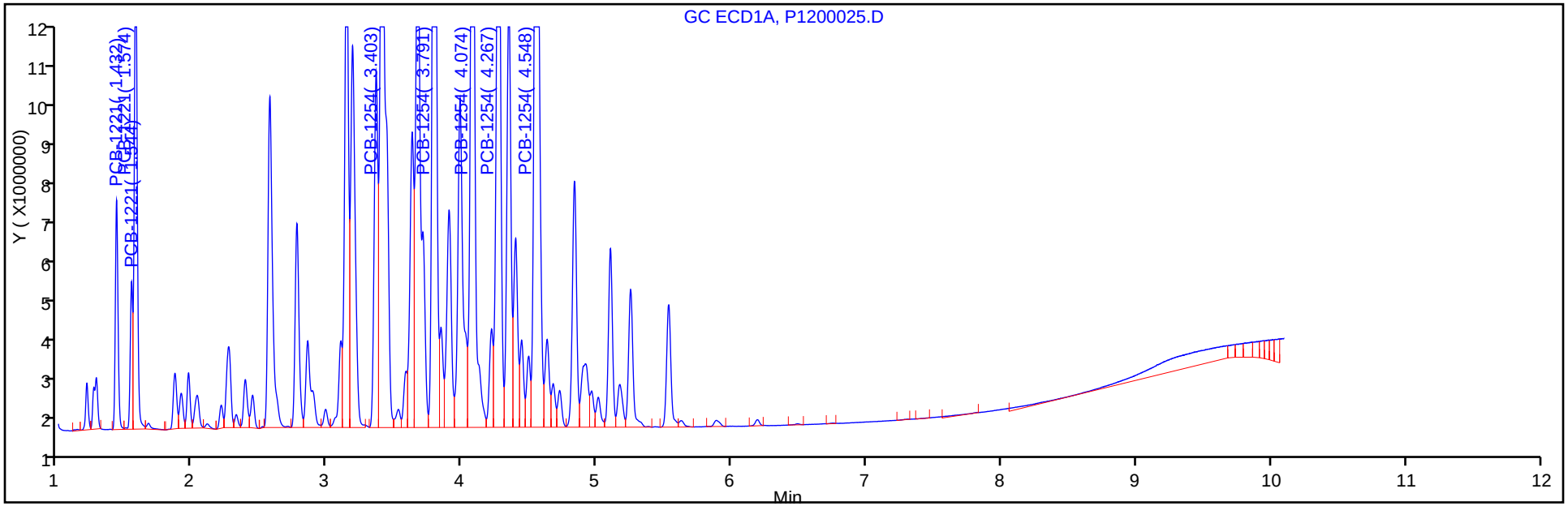
Report Date: 02-Apr-2013 07:00:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

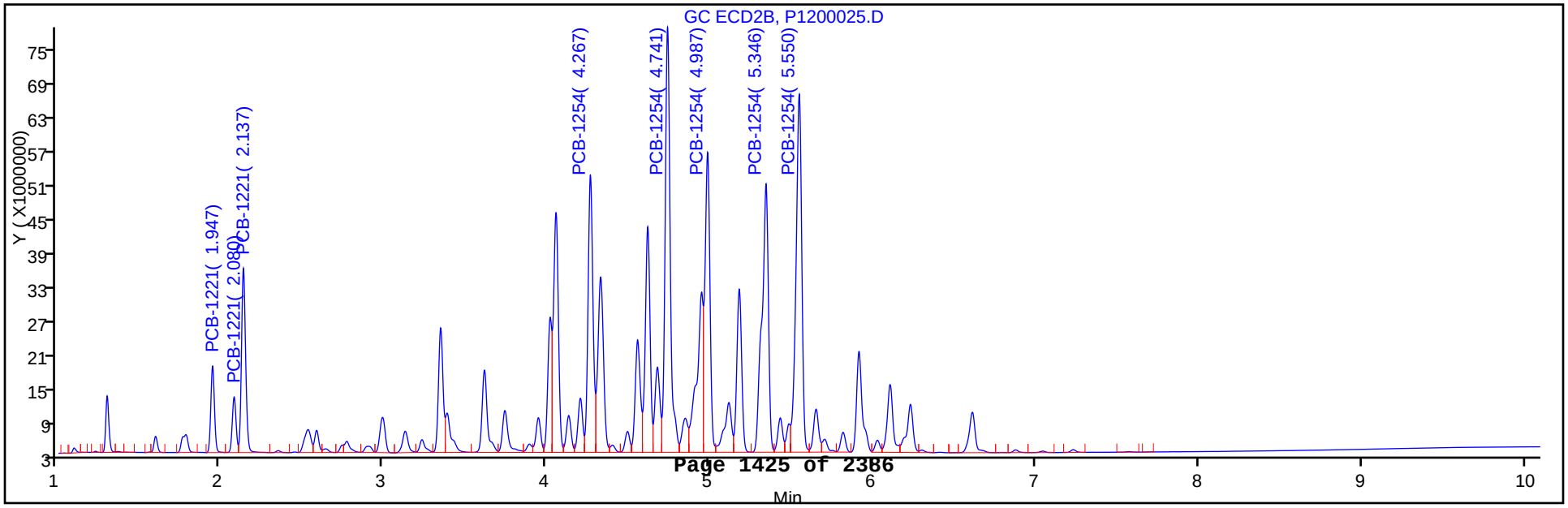
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200025.D

Injection Date:	01-Apr-2013 15:25:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200026.D
Lims ID: STD2 AR2154 Client ID:
Inject. Date: 01-Apr-2013 15:39:48 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018420-026
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 80043 Lims Sample ID: 26
Sublist: chrom-PCB12*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:00:57 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.433	1.433	0.000	15495779	1.65		100.0	
1	3	1.546	1.544	0.002	6858200	1.36	34.1- 84.1	44.3	
1	4	1.576	1.575	0.001	38484981	1.68	214.4- 264.4	248.4	
			Average of Peak Amounts =			1.56			
2	4	1.949	1.948	0.001	44229767	1.64		100.0	
2	5	2.081	2.080	0.001	28998688	1.59	38.7- 98.7	65.6	
2	6	2.138	2.137	0.001	107732032	1.66	210.1- 270.1	243.6	
			Average of Peak Amounts =			1.63			
						RPD = 4.27			
8 PCB-1254									
1	100	3.405	3.404	0.001	99874301	1.71		100.0	
1	2	3.792	3.792	0.000	110972435	1.84	74.5- 124.5	111.1	
1	3	4.076	4.075	0.001	91078372	1.81	64.0- 114.0	91.2	
1	4	4.267	4.269	-0.002	76007205	1.76	50.5- 100.5	76.1	
1	5	4.550	4.550	0.000	111723115	1.80	82.9- 132.9	111.9	
			Average of Peak Amounts =			1.78			
2	6	4.269	4.268	0.001	208439308	1.85		100.0	
2	7	4.741	4.741	0.000	332436680	1.91	124.4- 184.4	159.5	
2	8	4.988	4.986	0.002	236837156	1.93	78.3- 138.3	113.6	
2	9	5.346	5.345	0.001	275735108	1.94	95.8- 155.8	132.3	
2	10	5.551	5.549	0.002	325866112	1.94	119.6- 179.6	156.3	
			Average of Peak Amounts =			1.91			
						RPD = 7.00			

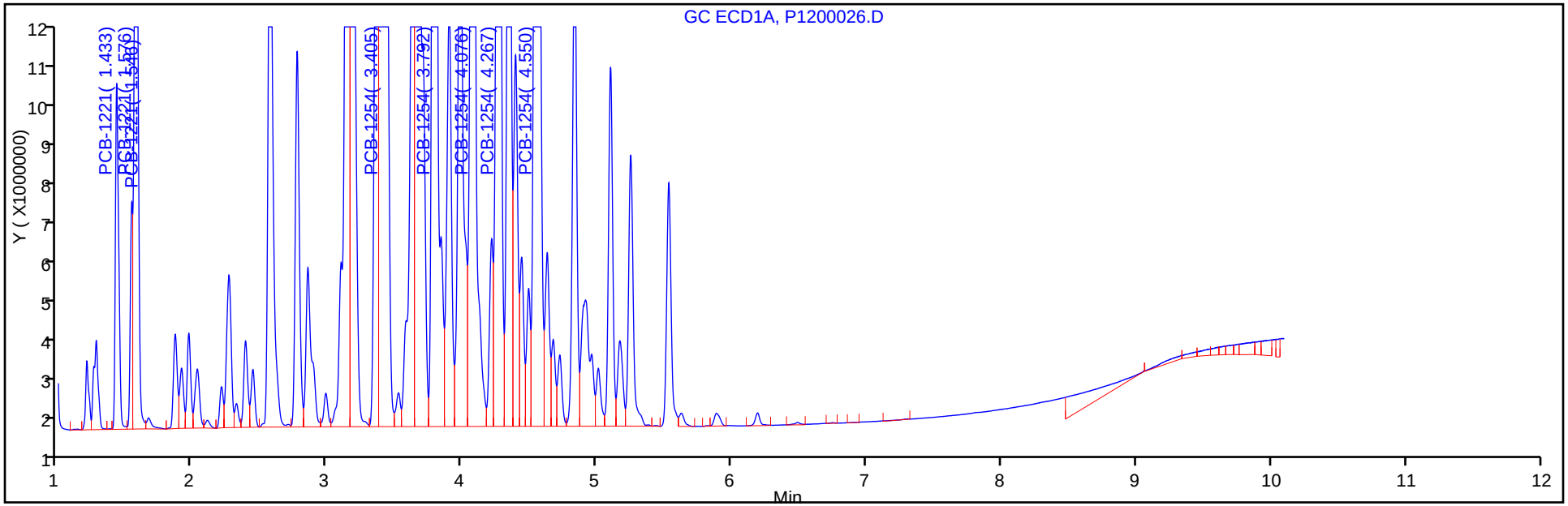
Report Date: 02-Apr-2013 07:00:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

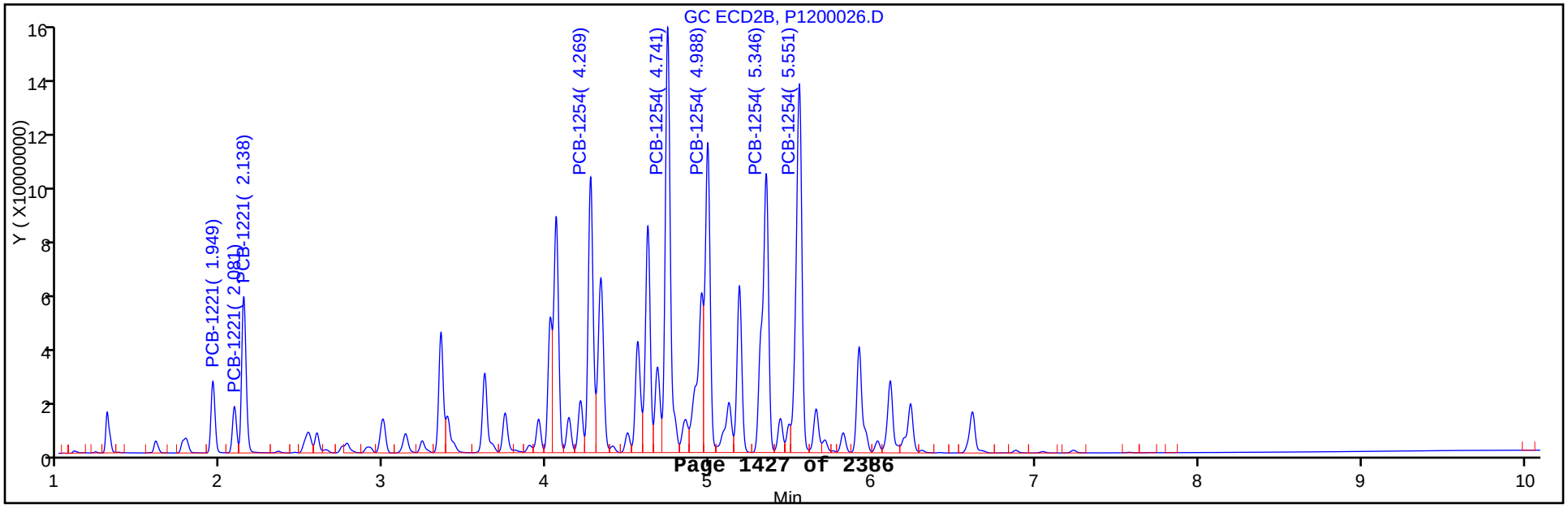
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200026.D

Injection Date:	01-Apr-2013 15:39:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 15:53 Calibration End Date: 04/01/2013 17:05 Calibration ID: 14302

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/27	P1200027.D
Level 2	STD01 240-80043/28	P1200028.D
Level 3	STD02 240-80043/29	P1200029.D
Level 4	STD05 240-80043/30	P1200030.D
Level 5	STD1 240-80043/31	P1200031.D
Level 6	STD2 240-80043/32	P1200032.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	1.575	1.576	1.575	1.576	1.576	1.575					1.526 - 1.626	1.576
PCB-1016 Peak 2	1.864	1.865	1.865	1.867	1.866	1.865					1.817 - 1.917	1.865
PCB-1016 Peak 3	2.265	2.266	2.266	2.267	2.267	2.266					2.217 - 2.317	2.266
PCB-1016 Peak 4	2.388	2.389	2.387	2.389	2.389	2.388					2.339 - 2.439	2.388
PCB-1016 Peak 5	2.773	2.773	2.773	2.774	2.775	2.773					2.724 - 2.824	2.774
PCB-1260 Peak 1	3.982	3.982	3.981	3.982	3.983	3.982					3.932 - 4.032	3.982
PCB-1260 Peak 2	4.269	4.268	4.268	4.270	4.269	4.269					4.220 - 4.320	4.269
PCB-1260 Peak 3	4.548	4.547	4.548	4.549	4.549	4.548					4.499 - 4.599	4.548
PCB-1260 Peak 4	5.247	5.247	5.247	5.249	5.248	5.248					5.199 - 5.299	5.248
PCB-1260 Peak 5	5.529	5.530	5.531	5.532	5.530	5.531					5.482 - 5.582	5.531
Tetrachloro-m-xylene	1.298	1.297	1.297	1.297	1.298	1.298					1.247 - 1.347	1.298
DCB Decachlorobiphenyl	6.682	6.681	6.681	6.682	6.682	6.682					6.632 - 6.732	6.682

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 15:53 Calibration End Date: 04/01/2013 17:05 Calibration ID: 14302

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/27	P1200027.D
Level 2	STD01 240-80043/28	P1200028.D
Level 3	STD02 240-80043/29	P1200029.D
Level 4	STD05 240-80043/30	P1200030.D
Level 5	STD1 240-80043/31	P1200031.D
Level 6	STD2 240-80043/32	P1200032.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	20268260 13966606	17549330 12827994	16385150	16119282	Ave		16186103.7				16.0		20.0			
PCB-1016 Peak 2	36100720 26274663	33495660 24272824	31215420	29092790	Ave		30075346.1				15.0		20.0			
PCB-1016 Peak 3	75073340 55817578	70450420 56033971	62542855	63979180	Ave		63982890.6				12.0		20.0			
PCB-1016 Peak 4	31950120 24058106	29352870 22699672	27683525	26378504	Ave		27020466.2				13.0		20.0			
PCB-1016 Peak 5	33846060 24952974	30663780 23553688	29175610	27328022	Ave		28253355.7				13.0		20.0			
PCB-1260 Peak 1	50703560 39185619	48055800 37325108	44553100	41765966	Ave		43598192.2				12.0		20.0			
PCB-1260 Peak 2	98260360 78767064	93960770 75055256	87810800	82878396	Ave		86122107.7				10.0		20.0			
PCB-1260 Peak 3	94585860 78054512	91375280 74748755	86165575	81745344	Ave		84445887.7				9.1		20.0			
PCB-1260 Peak 4	125878340 113301191	125307540 109295014	119979735	116152624	Ave		118319074				5.6		20.0			
PCB-1260 Peak 5	61638100 52775219	60527760 50524896	57586900	53692668	Ave		56124257.1				8.0		20.0			
Tetrachloro-m-xylene	1288281600 890920380	970693400 811157060	1000202300	923857800	Ave		980852090				17.0		20.0			
DCB Decachlorobiphenyl	1241072000 972674920	1022457200 911040920	1025521400	947257760	Ave		1020004033				11.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 15:53 Calibration End Date: 04/01/2013 17:05 Calibration ID: 14302

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/27	P1200027.D
Level 2	STD01 240-80043/28	P1200028.D
Level 3	STD02 240-80043/29	P1200029.D
Level 4	STD05 240-80043/30	P1200030.D
Level 5	STD1 240-80043/31	P1200031.D
Level 6	STD2 240-80043/32	P1200032.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	1013413 25655988	1754933	3277030	8059641	13966606	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	1805036 48545647	3349566	6243084	14546395	26274663	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	3753667 112067941	7045042	12508571	31989590	55817578	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	1597506 45399344	2935287	5536705	13189252	24058106	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	1692303 47107376	3066378	5835122	13664011	24952974	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	2535178 74650216	4805580	8910620	20882983	39185619	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	4913018 150110512	9396077	17562160	41439198	78767064	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	4729293 149497510	9137528	17233115	40872672	78054512	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	6293917 218590027	12530754	23995947	58076312	113301191	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	3081905 101049791	6052776	11517380	26846334	52775219	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	3220704 81115706	4853467	10002023	23096445	44546019	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	3102680 91104092	5112286	10255214	23681444	48633746	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200027.D		
Lims ID:	STD005 1660	Client ID:	
Inject. Date:	01-Apr-2013 15:53:55	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018420-027		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	27
Lims Batch ID:	80043	Lims Sample ID:	27
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:00:58	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:57:29

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.297	0.001	3220704	0.003284			
2	2	1.669	1.670	-0.001	8036091	0.003010			
						RPD = 8.68			
6 PCB-1016									
1	100	1.575	1.576	-0.001	1013413	0.0626		100.0	
1	2	1.864	1.867	-0.003	1805036	0.0600	165.5- 215.5	178.1	
1	3	2.265	2.267	-0.002	3753667	0.0587	356.7- 406.7	370.4	
1	4	2.388	2.389	-0.001	1597506	0.0591	144.0- 194.0	157.6	
1	5	2.773	2.774	-0.001	1692303	0.0599	153.1- 203.1	167.0	
			Average of Peak Amounts =			0.0601			
2	6	2.137	2.137	0.000	2827331	0.0624		100.0	
2	7	2.537	2.537	0.000	5197213	0.0594	165.6- 225.6	183.8	
2	8	2.992	2.992	0.000	9923551	0.0546	366.1- 426.1	351.0	
2	9	3.131	3.131	0.000	4575977	0.0578	144.6- 204.6	161.8	
2	10	3.617	3.617	0.000	4157381	0.0631	112.9- 172.9	147.0	
			Average of Peak Amounts =			0.0594			
						RPD = 1.03			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	2535178	0.0581		100.0	
1	2	4.269	4.270	-0.001	4913018	0.0570	172.1- 222.1	193.8	
1	3	4.548	4.549	-0.001	4729293	0.0560	168.4- 218.4	186.5	
1	4	5.247	5.249	-0.002	6293917	0.0532	244.3- 294.3	248.3	
1	5	5.529	5.532	-0.003	3081905	0.0549	104.3- 154.3	121.6	
			Average of Peak Amounts =			0.0559			
2	6	4.950	4.951	-0.001	7127457	0.0549		100.0	
2	7	5.181	5.182	-0.001	7928500	0.0546	80.1- 140.1	111.2	
2	8	5.546	5.547	-0.001	12267735	0.0531	146.6- 206.6	172.1	
2	9	6.231	6.232	-0.001	14050553	0.0523	174.1- 234.1	197.1	
2	10	6.610	6.611	-0.001	10831595	0.0541	121.8- 181.8	152.0	
			Average of Peak Amounts =			0.0538			
						RPD = 3.78			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	3102680	0.003042			
2	2	7.841	7.842	-0.001	9239527	0.003123			
						RPD = 2.64			

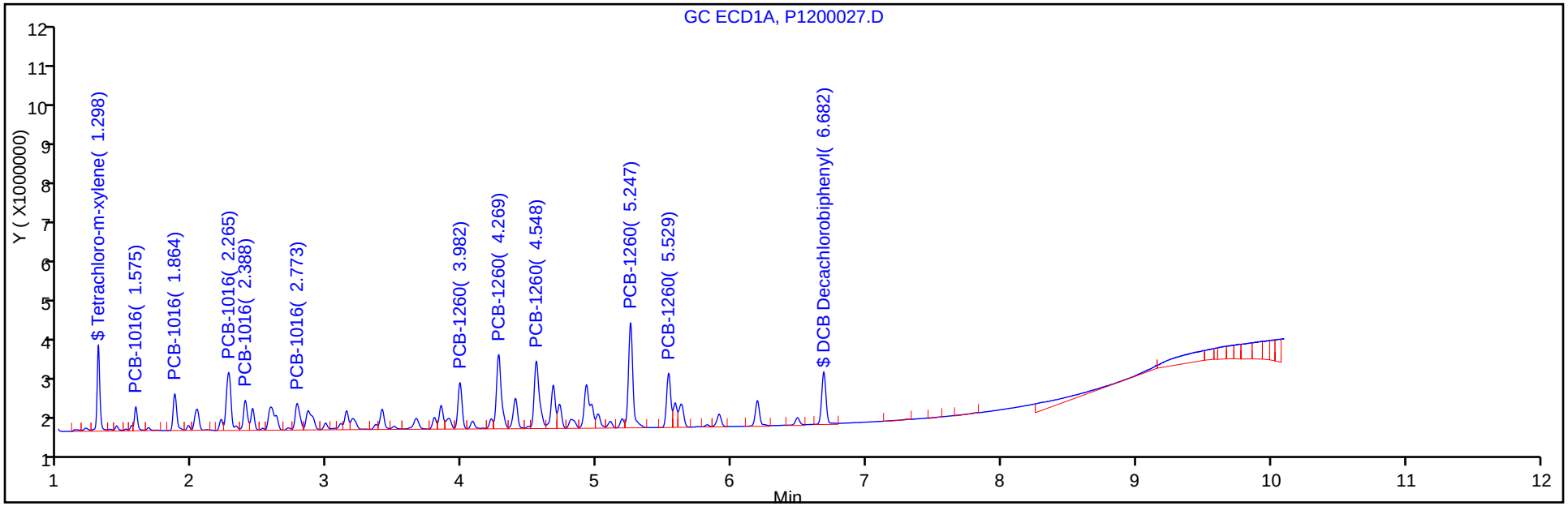
Report Date: 02-Apr-2013 07:00:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

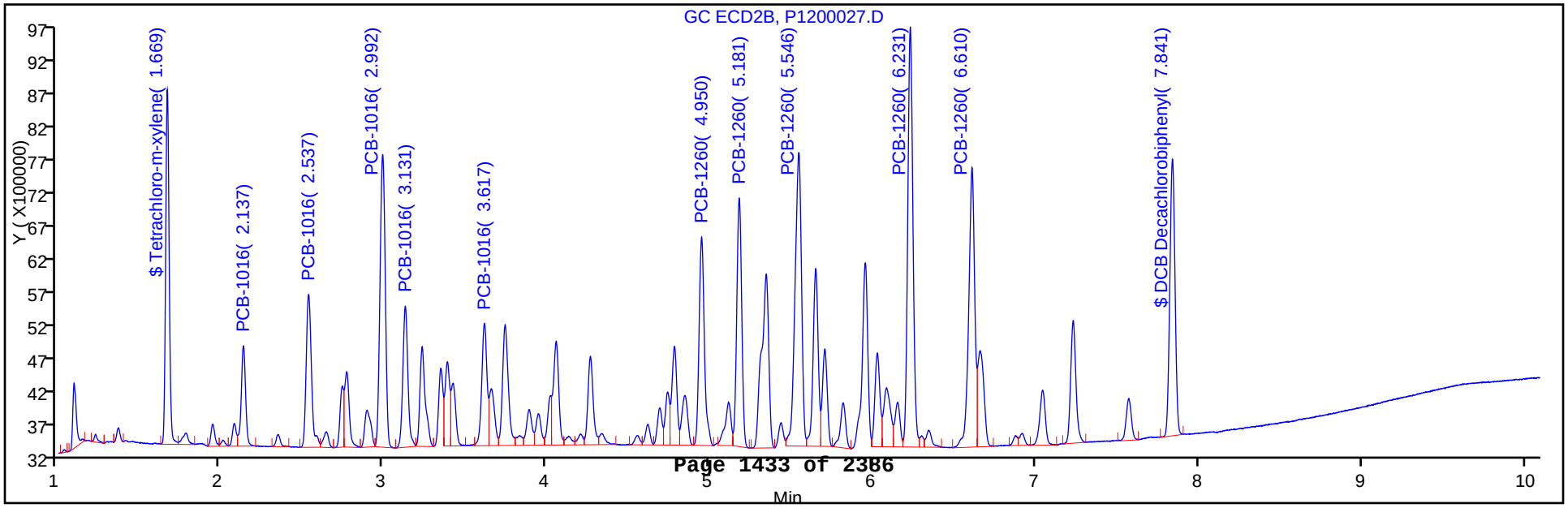
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200027.D

Injection Date:	01-Apr-2013 15:53:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200028.D
Lims ID: STD01 1660 Client ID:
Inject. Date: 01-Apr-2013 16:08:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-028
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 28
Lims Batch ID: 80043 Lims Sample ID: 28
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:00 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.297	1.297	0.000	4853467	0.004948			
2	2	1.670	1.670	0.000	12911045	0.004837			
						RPD = 2.28			
6 PCB-1016									
1	100	1.576	1.576	0.000	1754933	0.1084		100.0	
1	2	1.865	1.867	-0.002	3349566	0.1114	165.5- 215.5	190.9	
1	3	2.266	2.267	-0.001	7045042	0.1101	356.7- 406.7	401.4	
1	4	2.389	2.389	0.000	2935287	0.1086	144.0- 194.0	167.3	
1	5	2.773	2.774	-0.001	3066378	0.1085	153.1- 203.1	174.7	
			Average of Peak Amounts =			0.1094			
2	6	2.136	2.137	-0.001	5003938	0.1105		100.0	
2	7	2.536	2.537	-0.001	9626665	0.1100	165.6- 225.6	192.4	
2	8	2.992	2.992	0.000	18793064	0.1033	366.1- 426.1	375.6	
2	9	3.131	3.131	0.000	8444951	0.1066	144.6- 204.6	168.8	
2	10	3.616	3.617	-0.001	7322022	0.1111	112.9- 172.9	146.3	
			Average of Peak Amounts =			0.1083			
						RPD = 1.01			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	4805580	0.1102		100.0	
1	2	4.268	4.270	-0.002	9396077	0.1091	172.1- 222.1	195.5	
1	3	4.547	4.549	-0.002	9137528	0.1082	168.4- 218.4	190.1	
1	4	5.247	5.249	-0.002	12530754	0.1059	244.3- 294.3	260.8	
1	5	5.530	5.532	-0.002	6052776	0.1078	104.3- 154.3	126.0	
			Average of Peak Amounts =			0.1083			
2	6	4.950	4.951	-0.001	13877603	0.1069		100.0	
2	7	5.181	5.182	-0.001	15562865	0.1071	80.1- 140.1	112.1	
2	8	5.546	5.547	-0.001	24203403	0.1047	146.6- 206.6	174.4	
2	9	6.232	6.232	0.000	27866839	0.1037	174.1- 234.1	200.8	
2	10	6.610	6.611	-0.001	21431673	0.1071	121.8- 181.8	154.4	
			Average of Peak Amounts =			0.1059			
						RPD = 2.21			
$ 12 DCB Decachlorobiphenyl									
1	100	6.681	6.682	-0.001	5112286	0.005012			
2	2	7.841	7.842	-0.001	15429937	0.005216			
						RPD = 3.98			

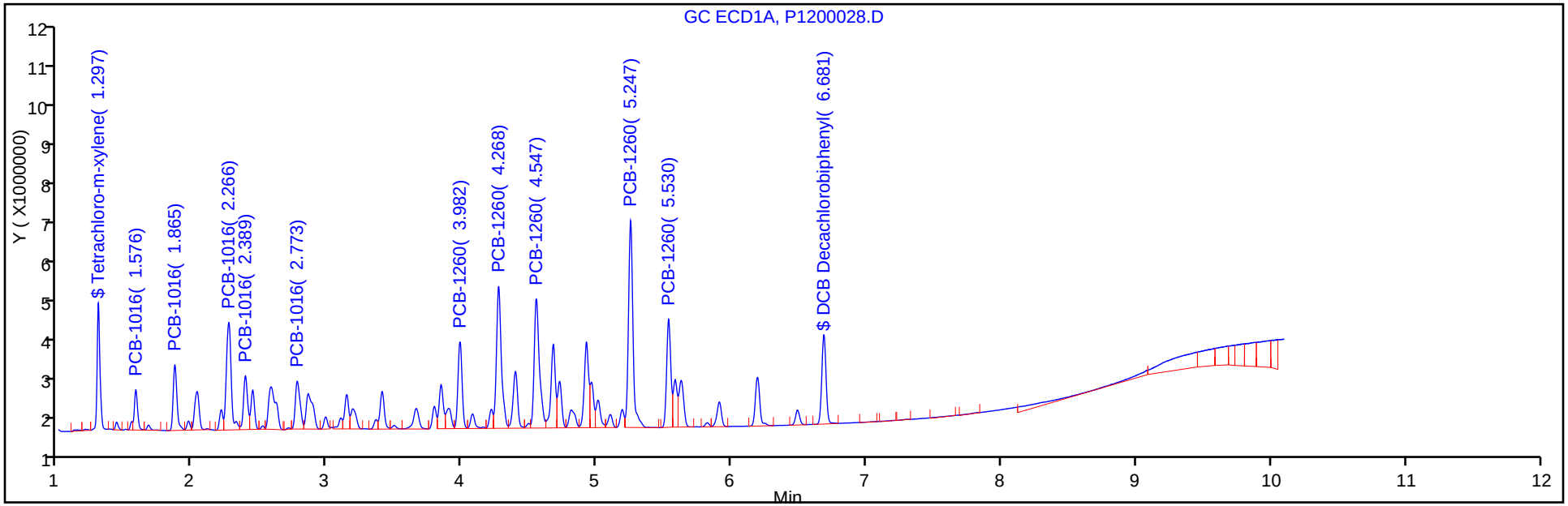
Report Date: 02-Apr-2013 07:01:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

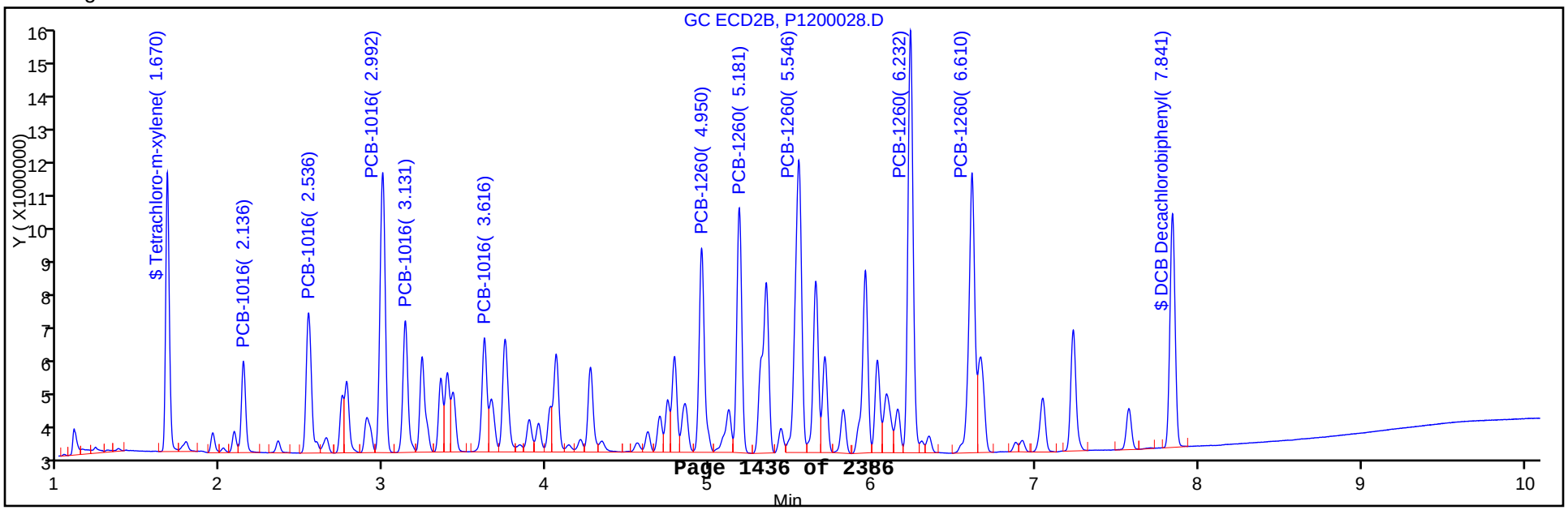
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200028.D

Injection Date:	01-Apr-2013 16:08:00	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	28
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200029.D		
Lims ID:	STD02 1660	Client ID:	
Inject. Date:	01-Apr-2013 16:22:05	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018420-029		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	29
Lims Batch ID:	80043	Lims Sample ID:	29
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:02	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.297	1.297	0.000	10002023	0.0102			
2	2	1.669	1.670	-0.001	26046599	0.009757			
						RPD = 4.41			
6 PCB-1016									
1	100	1.575	1.576	-0.001	3277030	0.2025		100.0	
1	2	1.865	1.867	-0.002	6243084	0.2076	165.5- 215.5	190.5	
1	3	2.266	2.267	-0.001	12508571	0.1955	356.7- 406.7	381.7	
1	4	2.387	2.389	-0.002	5536705	0.2049	144.0- 194.0	169.0	
1	5	2.773	2.774	-0.001	5835122	0.2065	153.1- 203.1	178.1	
			Average of Peak Amounts =			0.2034			
2	6	2.136	2.137	-0.001	9204649	0.2032		100.0	
2	7	2.536	2.537	-0.001	18004295	0.2058	165.6- 225.6	195.6	
2	8	2.992	2.992	0.000	36461517	0.2004	366.1- 426.1	396.1	
2	9	3.131	3.131	0.000	16069361	0.2029	144.6- 204.6	174.6	
2	10	3.617	3.617	0.000	13152466	0.1996	112.9- 172.9	142.9	
			Average of Peak Amounts =			0.2024			
						RPD = 0.50			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.981	3.982	-0.001	8910620	0.2044		100.0	
1	2	4.268	4.270	-0.002	17562160	0.2039	172.1- 222.1	197.1	
1	3	4.548	4.549	-0.001	17233115	0.2041	168.4- 218.4	193.4	
1	4	5.247	5.249	-0.002	23995947	0.2028	244.3- 294.3	269.3	
1	5	5.531	5.532	-0.001	11517380	0.2052	104.3- 154.3	129.3	
			Average of Peak Amounts =			0.2041			
2	6	4.951	4.951	0.000	26263179	0.2022		100.0	
2	7	5.181	5.182	-0.001	28928326	0.1991	80.1- 140.1	110.1	
2	8	5.547	5.547	0.000	46386377	0.2007	146.6- 206.6	176.6	
2	9	6.231	6.232	-0.001	53606777	0.1995	174.1- 234.1	204.1	
2	10	6.611	6.611	0.000	39868093	0.1992	121.8- 181.8	151.8	
			Average of Peak Amounts =			0.2001			
						RPD = 1.95			
$ 12 DCB Decachlorobiphenyl									
1	100	6.681	6.682	-0.001	10255214	0.0101			
2	2	7.841	7.842	-0.001	29665889	0.0100			
						RPD = 0.26			

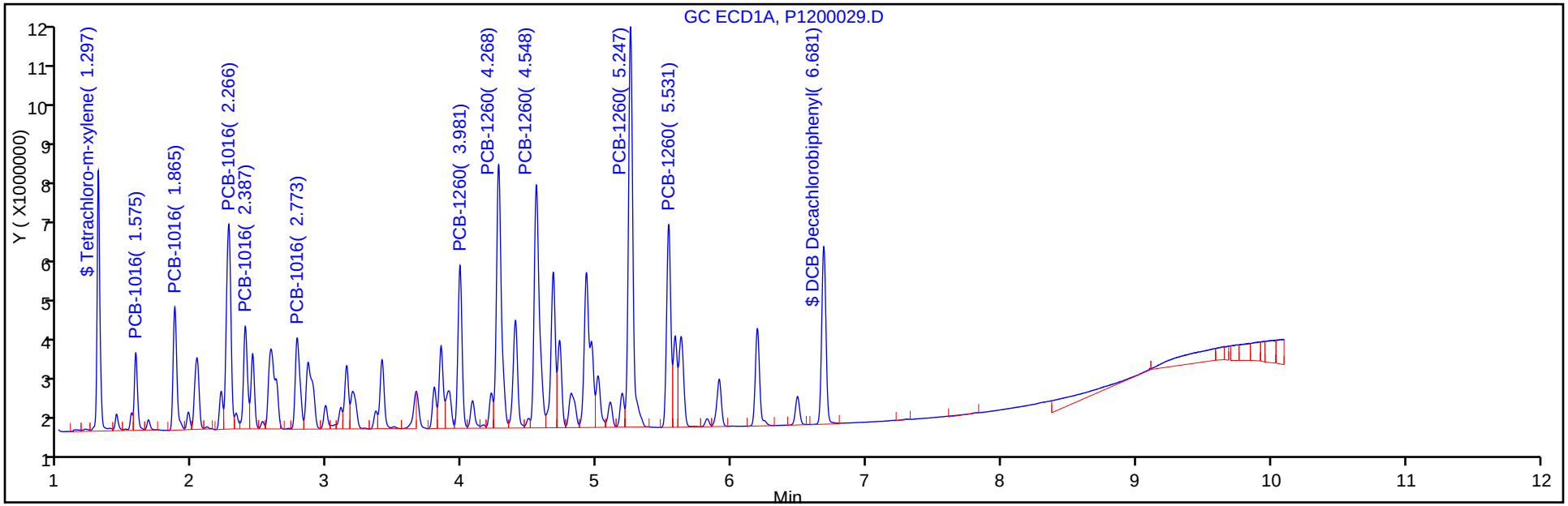
Report Date: 02-Apr-2013 07:01:04 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

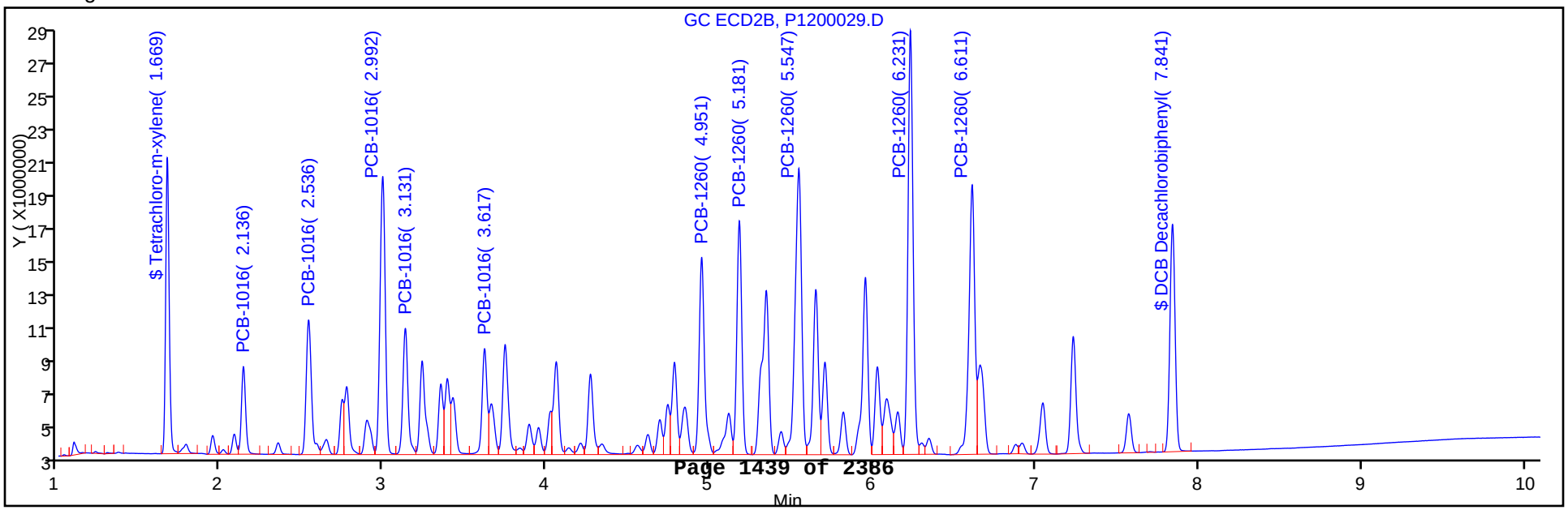
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200029.D

Injection Date:	01-Apr-2013 16:22:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200030.D
Lims ID: STD05 1660 Client ID:
Inject. Date: 01-Apr-2013 16:36:20 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 4
Sample ID: 240-0018420-030
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 80043 Lims Sample ID: 30
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:05 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.297	1.297	0.000	23096445	0.0235			
2	2	1.670	1.670	0.000	63122604	0.0236			
						RPD = 0.42			
6 PCB-1016									
1	100	1.576	1.576	0.000	8059641	0.4979		100.0	
1	2	1.867	1.867	0.000	14546395	0.4837	165.5- 215.5	180.5	
1	3	2.267	2.267	0.000	31989590	0.5000	356.7- 406.7	396.9	
1	4	2.389	2.389	0.000	13189252	0.4881	144.0- 194.0	163.6	
1	5	2.774	2.774	0.000	13664011	0.4836	153.1- 203.1	169.5	
			Average of Peak Amounts =			0.4907			
2	6	2.137	2.137	0.000	21094722	0.4657		100.0	
2	7	2.537	2.537	0.000	41495741	0.4743	165.6- 225.6	196.7	
2	8	2.992	2.992	0.000	89383091	0.4914	366.1- 426.1	423.7	
2	9	3.131	3.131	0.000	37993571	0.4797	144.6- 204.6	180.1	
2	10	3.617	3.617	0.000	30174905	0.4580	112.9- 172.9	143.0	
			Average of Peak Amounts =			0.4738			
						RPD = 3.50			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	20882983	0.4790		100.0	
1	2	4.270	4.270	0.000	41439198	0.4812	172.1- 222.1	198.4	
1	3	4.549	4.549	0.000	40872672	0.4840	168.4- 218.4	195.7	
1	4	5.249	5.249	0.000	58076312	0.4908	244.3- 294.3	278.1	
1	5	5.532	5.532	0.000	26846334	0.4783	104.3- 154.3	128.6	
			Average of Peak Amounts =			0.4827			
2	6	4.951	4.951	0.000	62561490	0.4817		100.0	
2	7	5.182	5.182	0.000	70356206	0.4843	80.1- 140.1	112.5	
2	8	5.547	5.547	0.000	112947889	0.4886	146.6- 206.6	180.5	
2	9	6.232	6.232	0.000	131401321	0.4889	174.1- 234.1	210.0	
2	10	6.611	6.611	0.000	96690545	0.4831	121.8- 181.8	154.6	
			Average of Peak Amounts =			0.4853			
						RPD = 0.55			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	23681444	0.0232			
2	2	7.842	7.842	0.000	67144069	0.0227			
						RPD = 2.27			

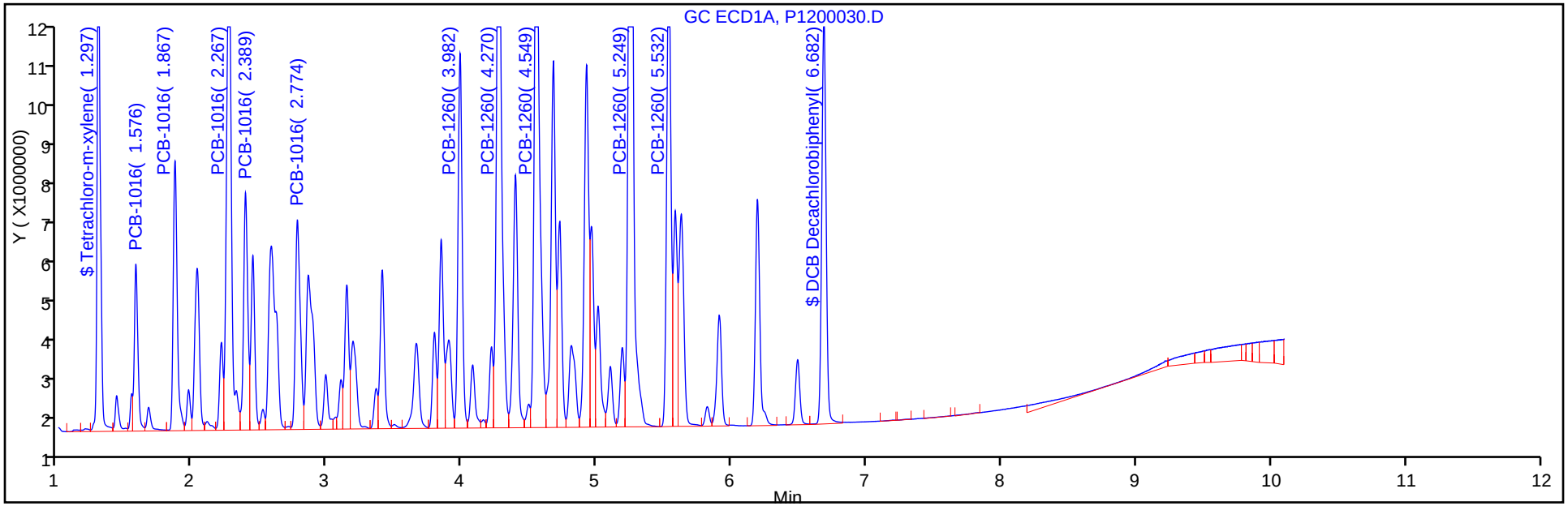
Report Date: 02-Apr-2013 07:01:07 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

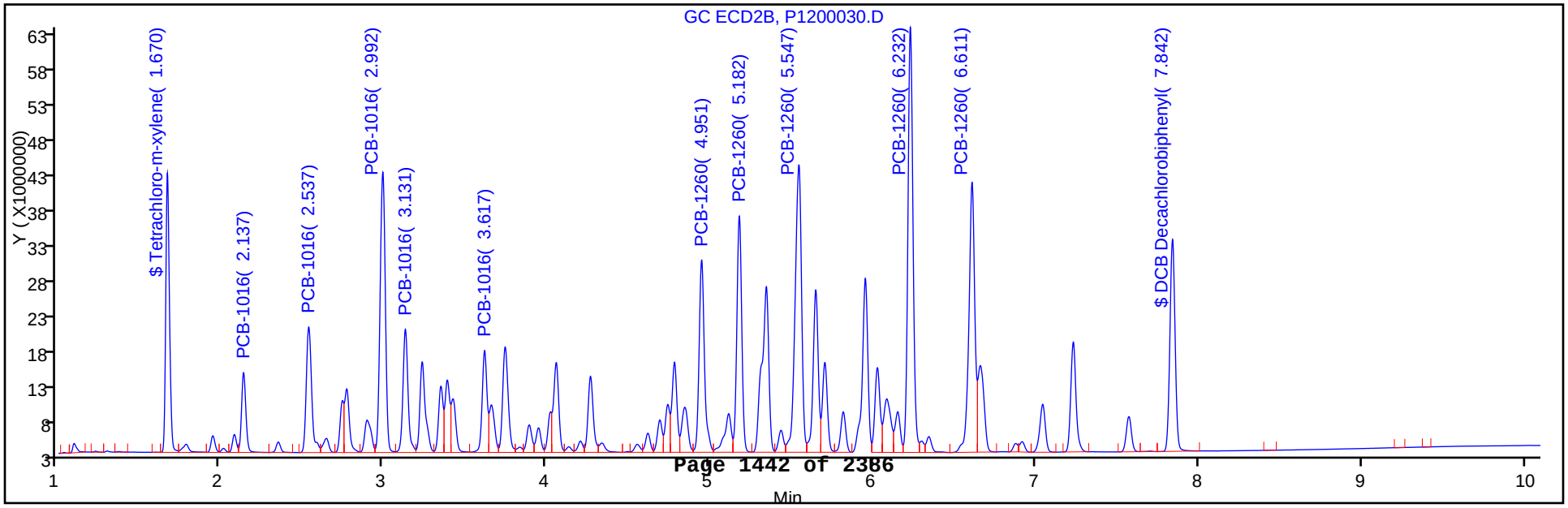
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200030.D

Injection Date:	01-Apr-2013 16:36:20	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200031.D		
Lims ID:	STD1 1660	Client ID:	
Inject. Date:	01-Apr-2013 16:50:56	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018420-031		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	31
Lims Batch ID:	80043	Lims Sample ID:	31
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:01:07	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.297	0.001	44546019	0.0454			
2	2	1.669	1.670	-0.001	130621169	0.0489			
						RPD = 7.45			
6 PCB-1016									
1	100	1.576	1.576	0.000	13966606	0.8629		100.0	
1	2	1.866	1.867	-0.001	26274663	0.8736	165.5- 215.5	188.1	
1	3	2.267	2.267	0.000	55817578	0.8724	356.7- 406.7	399.7	
1	4	2.389	2.389	0.000	24058106	0.8904	144.0- 194.0	172.3	
1	5	2.775	2.774	0.001	24952974	0.8832	153.1- 203.1	178.7	
			Average of Peak Amounts =			0.8765			
2	6	2.136	2.137	-0.001	39936674	0.8816		100.0	
2	7	2.536	2.537	-0.001	78636693	0.8988	165.6- 225.6	196.9	
2	8	2.992	2.992	0.000	174347268	0.9585	366.1- 426.1	436.6	
2	9	3.130	3.131	-0.001	72864607	0.9199	144.6- 204.6	182.5	
2	10	3.617	3.617	0.000	57801890	0.8773	112.9- 172.9	144.7	
			Average of Peak Amounts =			0.9072			
						RPD = 3.44			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.983	3.982	0.001	39185619	0.8988		100.0	
1	2	4.269	4.270	-0.001	78767064	0.9146	172.1- 222.1	201.0	
1	3	4.549	4.549	0.000	78054512	0.9243	168.4- 218.4	199.2	
1	4	5.248	5.249	-0.001	113301191	0.9576	244.3- 294.3	289.1	
1	5	5.530	5.532	-0.002	52775219	0.9403	104.3- 154.3	134.7	
			Average of Peak Amounts =			0.9271			
2	6	4.949	4.951	-0.002	121963379	0.9392		100.0	
2	7	5.181	5.182	-0.001	137053703	0.9435	80.1- 140.1	112.4	
2	8	5.546	5.547	-0.001	222288293	0.9617	146.6- 206.6	182.3	
2	9	6.231	6.232	-0.001	262239136	0.9757	174.1- 234.1	215.0	
2	10	6.610	6.611	-0.001	190139052	0.9500	121.8- 181.8	155.9	
			Average of Peak Amounts =			0.9540			
						RPD = 2.86			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	48633746	0.0477			
2	2	7.842	7.842	0.000	136671507	0.0462			
						RPD = 3.16			

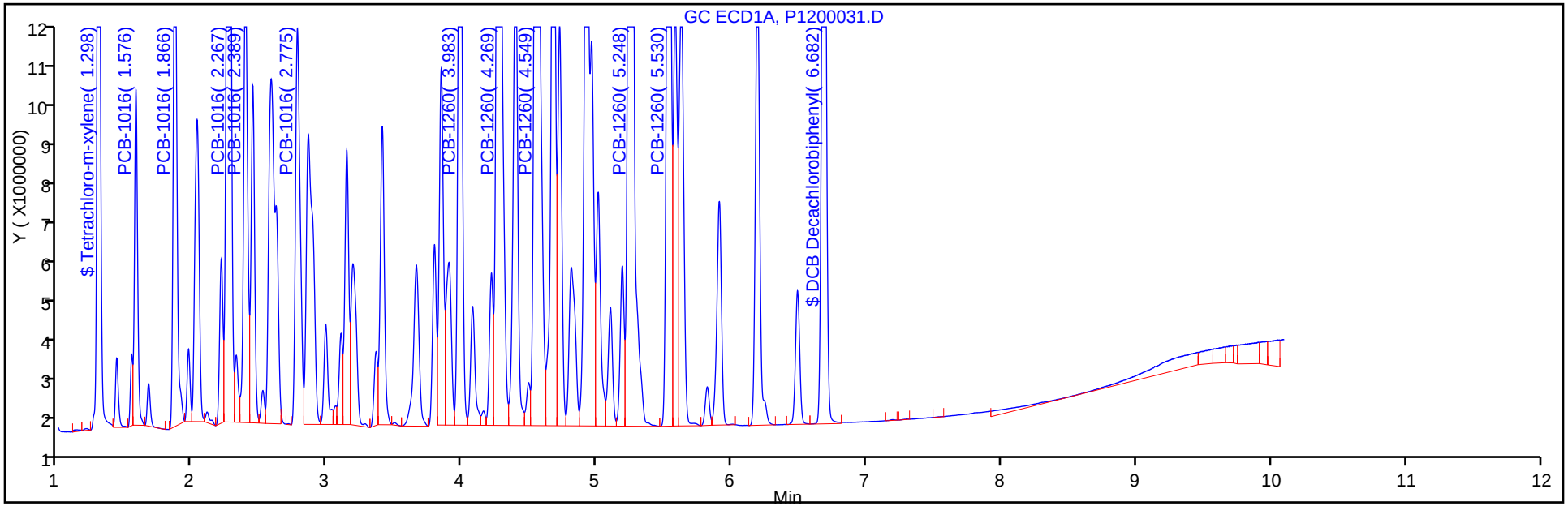
Report Date: 02-Apr-2013 07:01:08 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

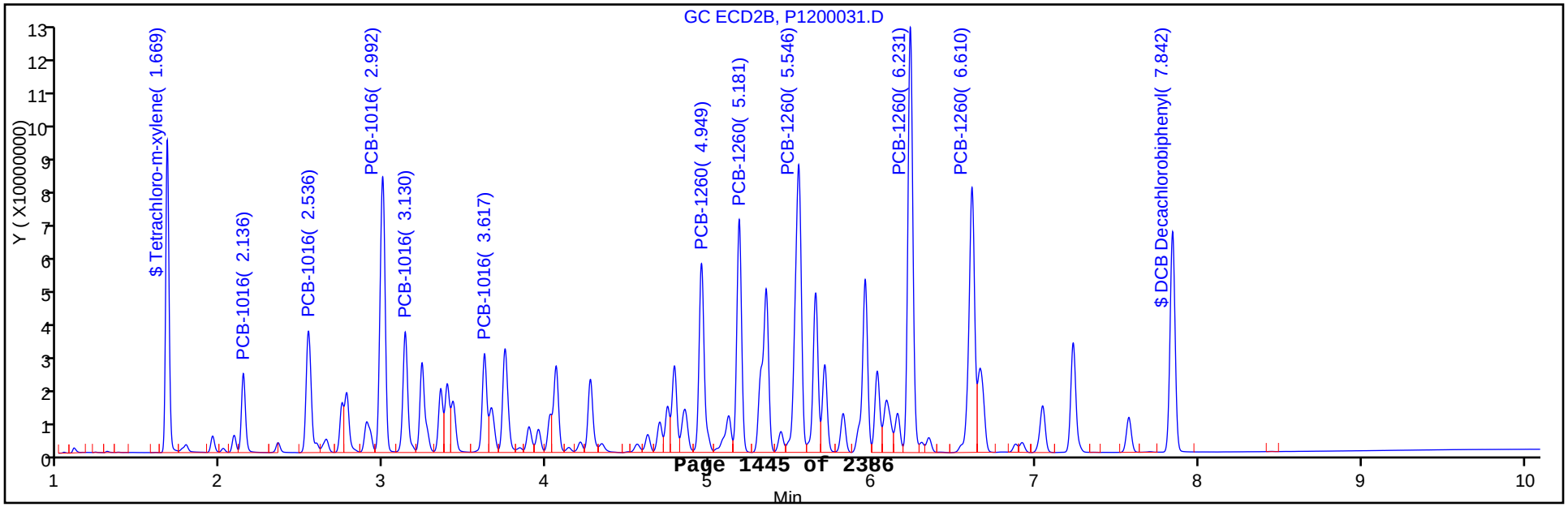
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200031.D

Injection Date:	01-Apr-2013 16:50:56	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200032.D
Lims ID: STD2 1660 Client ID:
Inject. Date: 01-Apr-2013 17:05:04 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018420-032
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 32
Lims Batch ID: 80043 Lims Sample ID: 32
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:09 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.297	0.001	81115706	0.0827			
2	2	1.669	1.670	-0.001	247792203	0.0928			
						RPD = 11.54			
6 PCB-1016									
1	100	1.575	1.576	-0.001	25655988	1.59		100.0	
1	2	1.865	1.867	-0.002	48545647	1.61	165.5- 215.5	189.2	
1	3	2.266	2.267	-0.001	112067941	1.75	356.7- 406.7	436.8	
1	4	2.388	2.389	-0.001	45399344	1.68	144.0- 194.0	177.0	
1	5	2.773	2.774	-0.001	47107376	1.67	153.1- 203.1	183.6	
			Average of Peak Amounts =			1.66			
2	6	2.137	2.137	0.000	74124205	1.64		100.0	
2	7	2.537	2.537	0.000	146212998	1.67	165.6- 225.6	197.3	
2	8	2.993	2.992	0.001	339157302	1.86	366.1- 426.1	457.6	
2	9	3.131	3.131	0.000	140157047	1.77	144.6- 204.6	189.1	
2	10	3.618	3.617	0.001	110079222	1.67	112.9- 172.9	148.5	
			Average of Peak Amounts =			1.72			
						RPD = 3.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	74650216	1.71		100.0	
1	2	4.269	4.270	-0.001	150110512	1.74	172.1- 222.1	201.1	
1	3	4.548	4.549	-0.001	149497510	1.77	168.4- 218.4	200.3	
1	4	5.248	5.249	-0.001	218590027	1.85	244.3- 294.3	292.8	
1	5	5.531	5.532	-0.001	101049791	1.80	104.3- 154.3	135.4	
			Average of Peak Amounts =			1.77			
2	6	4.950	4.951	-0.001	238913410	1.84		100.0	
2	7	5.181	5.182	-0.001	269992181	1.86	80.1- 140.1	113.0	
2	8	5.547	5.547	0.000	438741702	1.90	146.6- 206.6	183.6	
2	9	6.232	6.232	0.000	519698247	1.93	174.1- 234.1	217.5	
2	10	6.610	6.611	-0.001	374085465	1.87	121.8- 181.8	156.6	
			Average of Peak Amounts =			1.88			
						RPD = 5.75			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	91104092	0.0893			
2	2	7.840	7.842	-0.002	258269779	0.0873			
						RPD = 2.28			

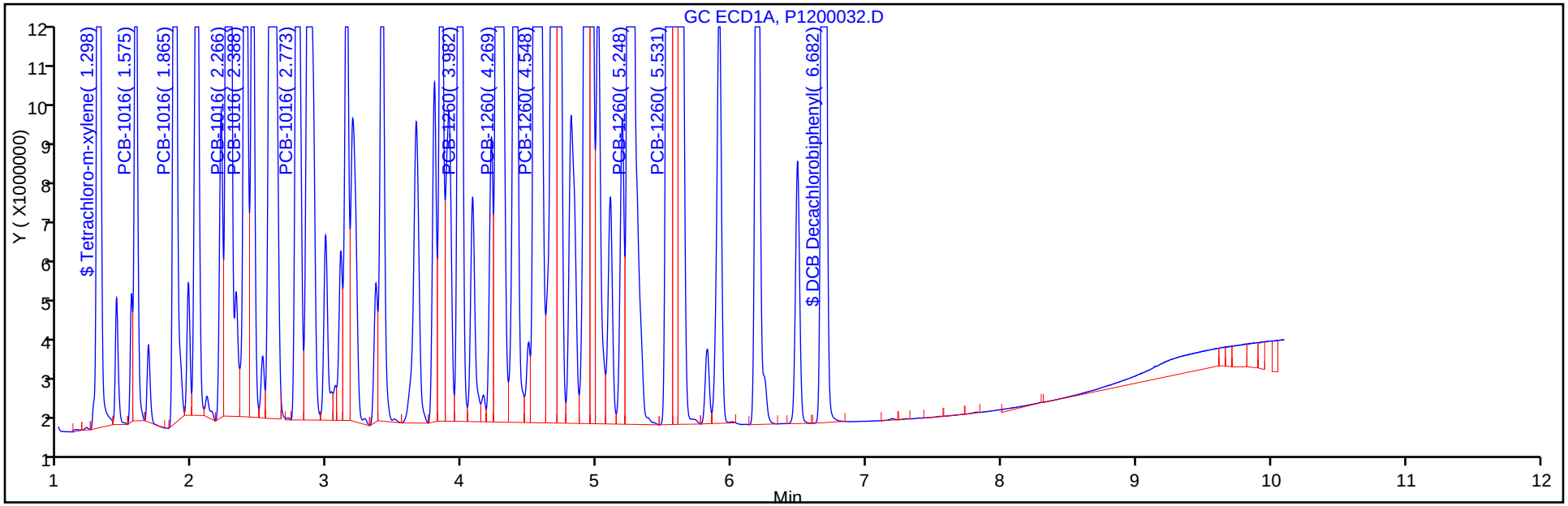
Report Date: 02-Apr-2013 07:01:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

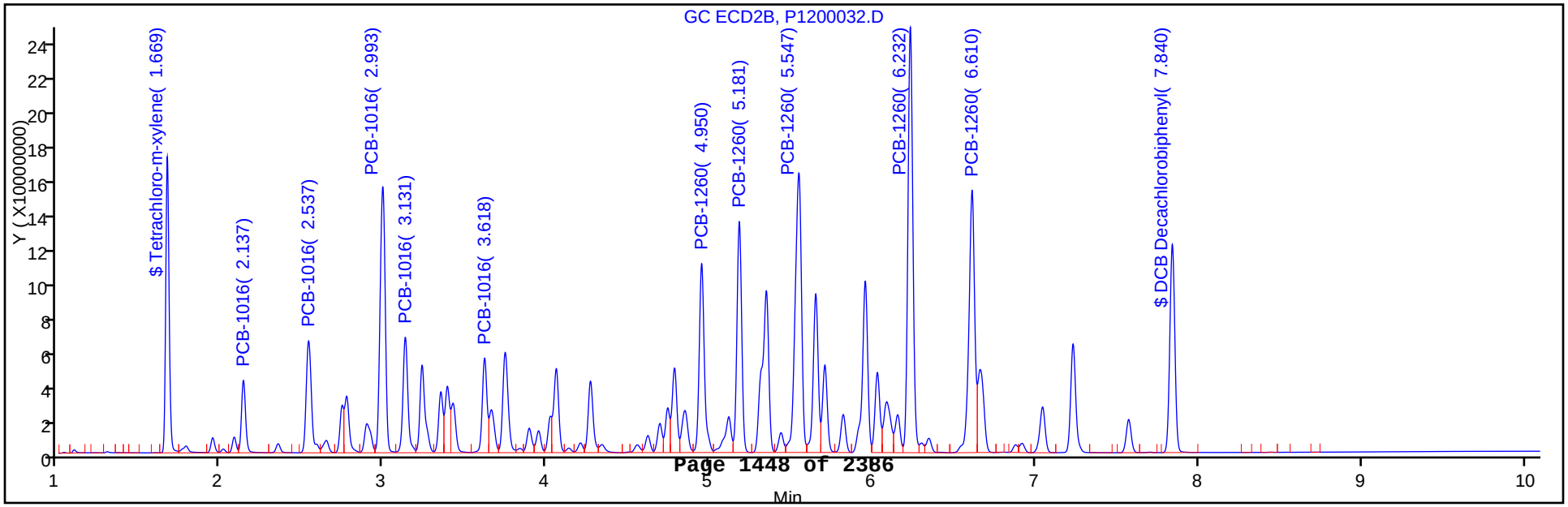
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200032.D

Injection Date:	01-Apr-2013 17:05:04	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	32
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 15:53 Calibration End Date: 04/01/2013 17:05 Calibration ID: 14303

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/27	P1200027.D
Level 2	STD01 240-80043/28	P1200028.D
Level 3	STD02 240-80043/29	P1200029.D
Level 4	STD05 240-80043/30	P1200030.D
Level 5	STD1 240-80043/31	P1200031.D
Level 6	STD2 240-80043/32	P1200032.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	2.137	2.136	2.136	2.137	2.136	2.137					2.087 - 2.187	2.137
PCB-1016 Peak 2	2.537	2.536	2.536	2.537	2.536	2.537					2.487 - 2.587	2.537
PCB-1016 Peak 3	2.992	2.992	2.992	2.992	2.992	2.993					2.942 - 3.042	2.992
PCB-1016 Peak 4	3.131	3.131	3.131	3.131	3.130	3.131					3.081 - 3.181	3.131
PCB-1016 Peak 5	3.617	3.616	3.617	3.617	3.617	3.618					3.567 - 3.667	3.617
PCB-1260 Peak 1	4.950	4.950	4.951	4.951	4.949	4.950					4.901 - 5.001	4.950
PCB-1260 Peak 2	5.181	5.181	5.181	5.182	5.181	5.181					5.132 - 5.232	5.181
PCB-1260 Peak 3	5.546	5.546	5.547	5.547	5.546	5.547					5.497 - 5.597	5.547
PCB-1260 Peak 4	6.231	6.232	6.231	6.232	6.231	6.232					6.182 - 6.282	6.232
PCB-1260 Peak 5	6.610	6.610	6.611	6.611	6.610	6.610					6.561 - 6.661	6.610
Tetrachloro-m-xylene	1.669	1.670	1.669	1.670	1.669	1.669					1.620 - 1.720	1.669
DCB Decachlorobiphenyl	7.841	7.841	7.841	7.842	7.842	7.840					7.792 - 7.892	7.841

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 15:53 Calibration End Date: 04/01/2013 17:05 Calibration ID: 14303

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/27	P1200027.D
Level 2	STD01 240-80043/28	P1200028.D
Level 3	STD02 240-80043/29	P1200029.D
Level 4	STD05 240-80043/30	P1200030.D
Level 5	STD1 240-80043/31	P1200031.D
Level 6	STD2 240-80043/32	P1200032.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	56546620 39936674	50039380 37062103	46023245	42189444	Ave		45299577.6				16.0		20.0			
PCB-1016 Peak 2	103944260 78636693	96266650 73106499	90021475	82991482	Ave		87494509.8				13.0		20.0			
PCB-1016 Peak 3	198471020 174347268	187930640 169578651	182307585	178766182	Ave		181900224				5.7		20.0			
PCB-1016 Peak 4	91519540 72864607	84449510 70078524	80346805	75987142	Ave		79207687.9				10.0		20.0			
PCB-1016 Peak 5	83147620 57801890	73220220 55039611	65762330	60349810	Ave		65886913.5				16.0		20.0			
PCB-1260 Peak 1	142549140 121963379	138776030 119456705	131315895	125122980	Ave		129864022				7.2		20.0			
PCB-1260 Peak 2	158570000 137053703	155628650 134996091	144641630	140712412	Ave		145267081				6.7		20.0			
PCB-1260 Peak 3	245354700 222288293	242034030 219370851	231931885	225895778	Ave		231145923				4.6		20.0			
PCB-1260 Peak 4	281011060 262239136	278668390 259849124	268033885	262802642	Ave		268767373				3.4		20.0			
PCB-1260 Peak 5	216631900 190139052	214316730 187042733	199340465	193381090	Ave		200141995				6.3		20.0			
Tetrachloro-m-xylene	3214436400 2612423380	2582209000 2477922030	2604659900	2524904160	Ave		2669425812				10.0		20.0			
DCB Decachlorobiphenyl	3695810800 2733430140	3085987400 2582697790	2966588900	2685762760	Ave		2958379632				14.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22274-1 Analy Batch No.: 80043

SDG No.:

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2013 15:53 Calibration End Date: 04/01/2013 17:05 Calibration ID: 14303

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-80043/27	P1200027.D
Level 2	STD01 240-80043/28	P1200028.D
Level 3	STD02 240-80043/29	P1200029.D
Level 4	STD05 240-80043/30	P1200030.D
Level 5	STD1 240-80043/31	P1200031.D
Level 6	STD2 240-80043/32	P1200032.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	2827331 74124205	5003938	9204649	21094722	39936674	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	5197213 146212998	9626665	18004295	41495741	78636693	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	9923551 339157302	18793064	36461517	89383091	174347268	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	4575977 140157047	8444951	16069361	37993571	72864607	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	4157381 110079222	7322022	13152466	30174905	57801890	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	7127457 238913410	13877603	26263179	62561490	121963379	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	7928500 269992181	15562865	28928326	70356206	137053703	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	12267735 438741702	24203403	46386377	112947889	222288293	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	14050553 519698247	27866839	53606777	131401321	262239136	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	10831595 374085465	21431673	39868093	96690545	190139052	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	8036091 247792203	12911045	26046599	63122604	130621169	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	9239527 258269779	15429937	29665889	67144069	136671507	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200027.D		
Lims ID:	STD005 1660	Client ID:	
Inject. Date:	01-Apr-2013 15:53:55	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018420-027		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 ul	ALS Bottle#:	27
Lims Batch ID:	80043	Lims Sample ID:	27
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m		
Last Update:	02-Apr-2013 07:00:58	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK018		

First Level Reviewer: hassl Date: 02-Apr-2013 06:57:29

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.297	0.001	3220704	0.003284			
2	2	1.669	1.670	-0.001	8036091	0.003010			
						RPD = 8.68			
6 PCB-1016									
1	100	1.575	1.576	-0.001	1013413	0.0626		100.0	
1	2	1.864	1.867	-0.003	1805036	0.0600	165.5- 215.5	178.1	
1	3	2.265	2.267	-0.002	3753667	0.0587	356.7- 406.7	370.4	
1	4	2.388	2.389	-0.001	1597506	0.0591	144.0- 194.0	157.6	
1	5	2.773	2.774	-0.001	1692303	0.0599	153.1- 203.1	167.0	
			Average of Peak Amounts =			0.0601			
2	6	2.137	2.137	0.000	2827331	0.0624		100.0	
2	7	2.537	2.537	0.000	5197213	0.0594	165.6- 225.6	183.8	
2	8	2.992	2.992	0.000	9923551	0.0546	366.1- 426.1	351.0	
2	9	3.131	3.131	0.000	4575977	0.0578	144.6- 204.6	161.8	
2	10	3.617	3.617	0.000	4157381	0.0631	112.9- 172.9	147.0	
			Average of Peak Amounts =			0.0594			
						RPD = 1.03			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	2535178	0.0581		100.0	
1	2	4.269	4.270	-0.001	4913018	0.0570	172.1- 222.1	193.8	
1	3	4.548	4.549	-0.001	4729293	0.0560	168.4- 218.4	186.5	
1	4	5.247	5.249	-0.002	6293917	0.0532	244.3- 294.3	248.3	
1	5	5.529	5.532	-0.003	3081905	0.0549	104.3- 154.3	121.6	
			Average of Peak Amounts =			0.0559			
2	6	4.950	4.951	-0.001	7127457	0.0549		100.0	
2	7	5.181	5.182	-0.001	7928500	0.0546	80.1- 140.1	111.2	
2	8	5.546	5.547	-0.001	12267735	0.0531	146.6- 206.6	172.1	
2	9	6.231	6.232	-0.001	14050553	0.0523	174.1- 234.1	197.1	
2	10	6.610	6.611	-0.001	10831595	0.0541	121.8- 181.8	152.0	
			Average of Peak Amounts =			0.0538			
						RPD = 3.78			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	3102680	0.003042			
2	2	7.841	7.842	-0.001	9239527	0.003123			
						RPD = 2.64			

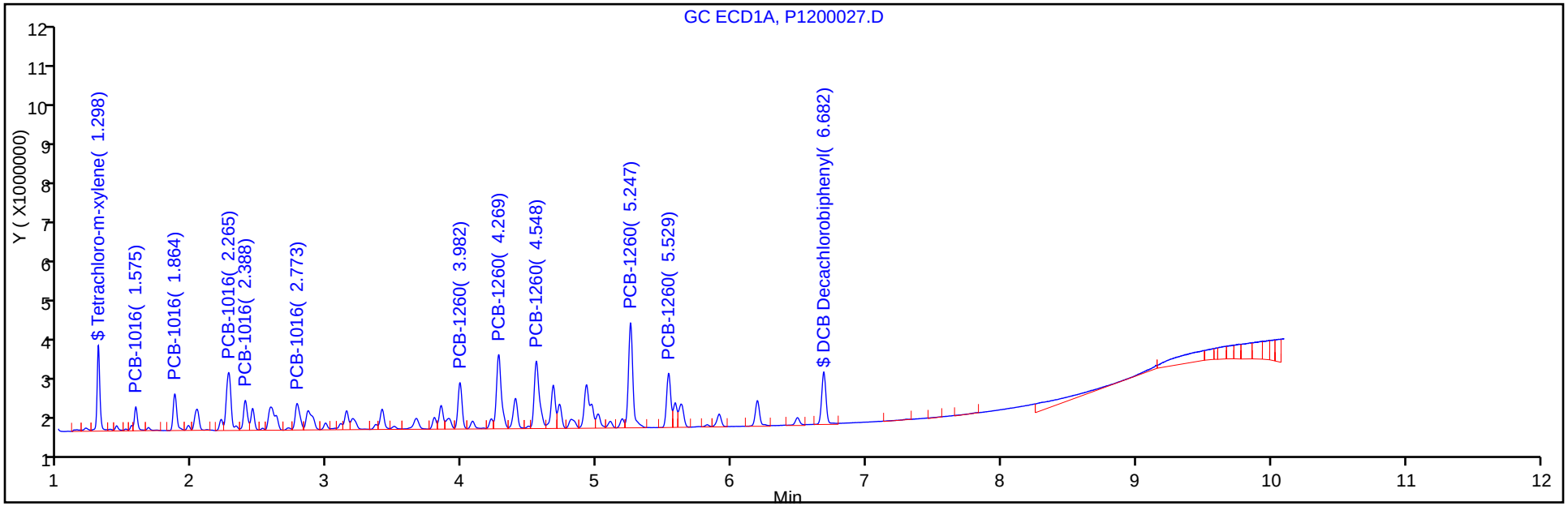
Report Date: 02-Apr-2013 07:00:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

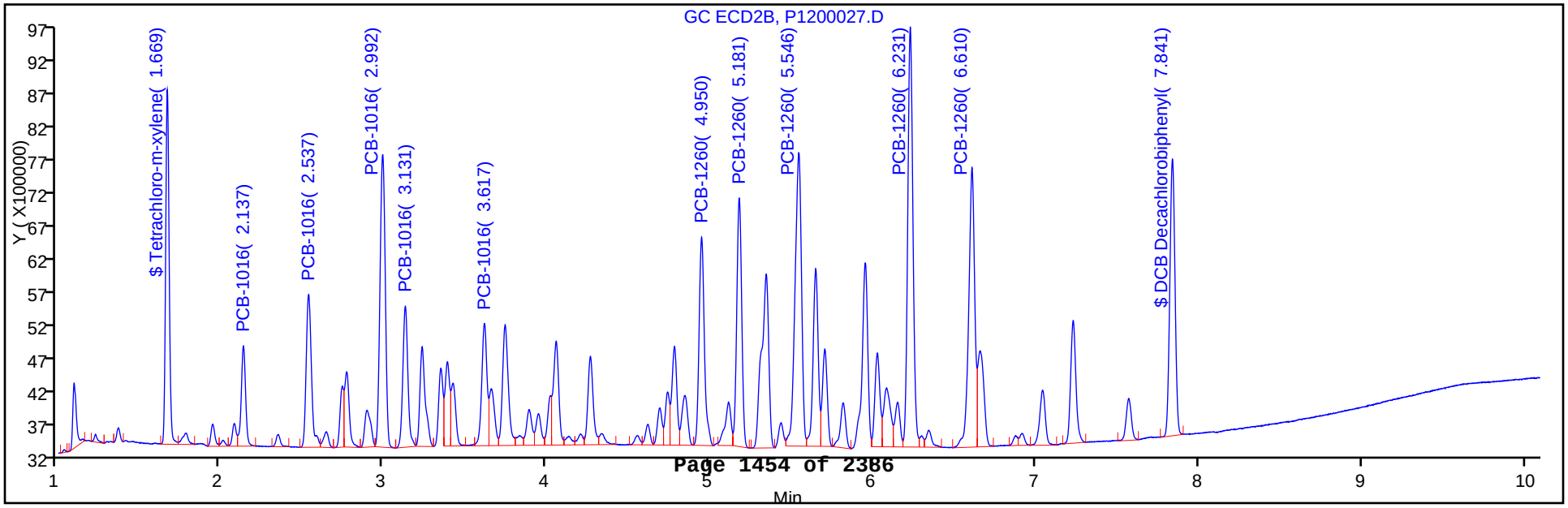
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200027.D

Injection Date:	01-Apr-2013 15:53:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200028.D
Lims ID: STD01 1660 Client ID:
Inject. Date: 01-Apr-2013 16:08:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018420-028
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 28
Lims Batch ID: 80043 Lims Sample ID: 28
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:00 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.297	1.297	0.000	4853467	0.004948			
2	2	1.670	1.670	0.000	12911045	0.004837			
						RPD = 2.28			
6 PCB-1016									
1	100	1.576	1.576	0.000	1754933	0.1084		100.0	
1	2	1.865	1.867	-0.002	3349566	0.1114	165.5- 215.5	190.9	
1	3	2.266	2.267	-0.001	7045042	0.1101	356.7- 406.7	401.4	
1	4	2.389	2.389	0.000	2935287	0.1086	144.0- 194.0	167.3	
1	5	2.773	2.774	-0.001	3066378	0.1085	153.1- 203.1	174.7	
			Average of Peak Amounts =			0.1094			
2	6	2.136	2.137	-0.001	5003938	0.1105		100.0	
2	7	2.536	2.537	-0.001	9626665	0.1100	165.6- 225.6	192.4	
2	8	2.992	2.992	0.000	18793064	0.1033	366.1- 426.1	375.6	
2	9	3.131	3.131	0.000	8444951	0.1066	144.6- 204.6	168.8	
2	10	3.616	3.617	-0.001	7322022	0.1111	112.9- 172.9	146.3	
			Average of Peak Amounts =			0.1083			
						RPD = 1.01			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	4805580	0.1102		100.0	
1	2	4.268	4.270	-0.002	9396077	0.1091	172.1- 222.1	195.5	
1	3	4.547	4.549	-0.002	9137528	0.1082	168.4- 218.4	190.1	
1	4	5.247	5.249	-0.002	12530754	0.1059	244.3- 294.3	260.8	
1	5	5.530	5.532	-0.002	6052776	0.1078	104.3- 154.3	126.0	
			Average of Peak Amounts =			0.1083			
2	6	4.950	4.951	-0.001	13877603	0.1069		100.0	
2	7	5.181	5.182	-0.001	15562865	0.1071	80.1- 140.1	112.1	
2	8	5.546	5.547	-0.001	24203403	0.1047	146.6- 206.6	174.4	
2	9	6.232	6.232	0.000	27866839	0.1037	174.1- 234.1	200.8	
2	10	6.610	6.611	-0.001	21431673	0.1071	121.8- 181.8	154.4	
			Average of Peak Amounts =			0.1059			
						RPD = 2.21			
$ 12 DCB Decachlorobiphenyl									
1	100	6.681	6.682	-0.001	5112286	0.005012			
2	2	7.841	7.842	-0.001	15429937	0.005216			
						RPD = 3.98			

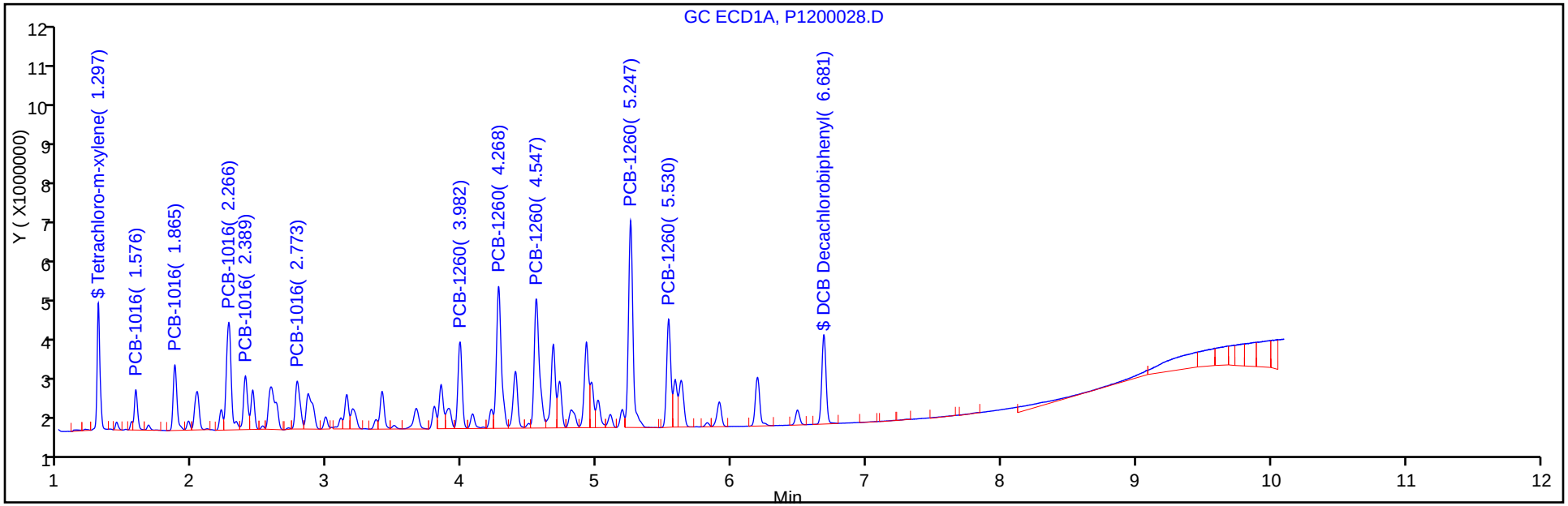
Report Date: 02-Apr-2013 07:01:01 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

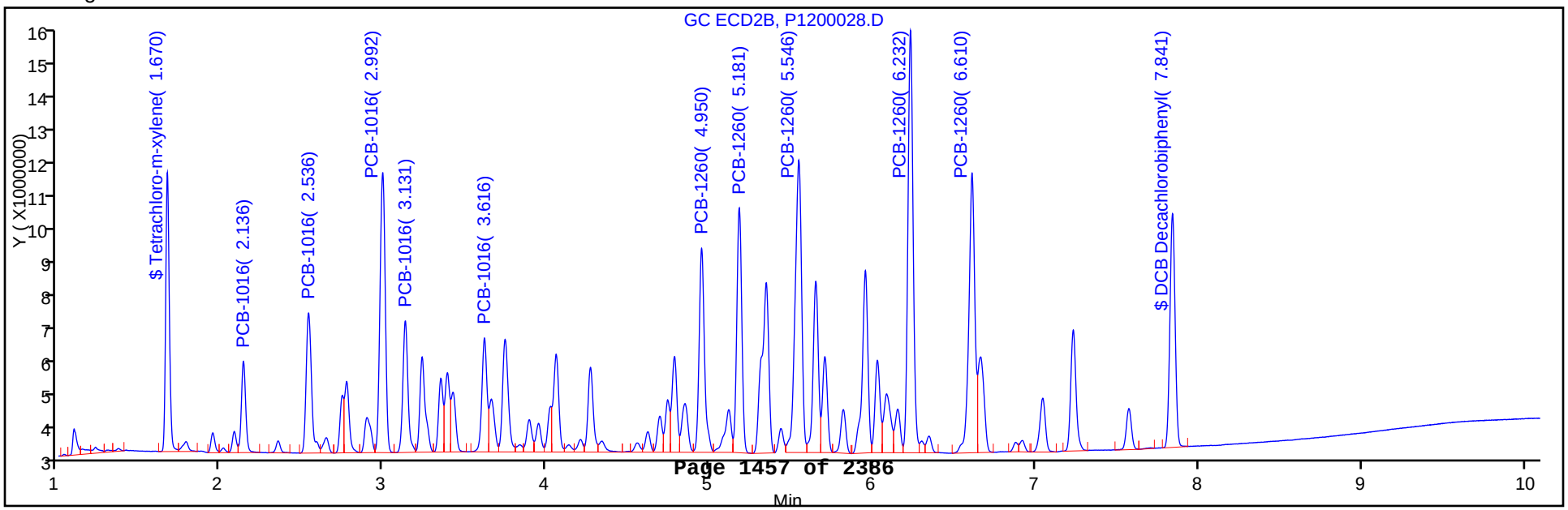
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200028.D

Injection Date:	01-Apr-2013 16:08:00	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	28
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200029.D
Lims ID: STD02 1660 Client ID:
Inject. Date: 01-Apr-2013 16:22:05 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018420-029
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 29
Lims Batch ID: 80043 Lims Sample ID: 29
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:02 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.297	1.297	0.000	10002023	0.0102			
2	2	1.669	1.670	-0.001	26046599	0.009757			
						RPD = 4.41			
6 PCB-1016									
1	100	1.575	1.576	-0.001	3277030	0.2025		100.0	
1	2	1.865	1.867	-0.002	6243084	0.2076	165.5- 215.5	190.5	
1	3	2.266	2.267	-0.001	12508571	0.1955	356.7- 406.7	381.7	
1	4	2.387	2.389	-0.002	5536705	0.2049	144.0- 194.0	169.0	
1	5	2.773	2.774	-0.001	5835122	0.2065	153.1- 203.1	178.1	
			Average of Peak Amounts =			0.2034			
2	6	2.136	2.137	-0.001	9204649	0.2032		100.0	
2	7	2.536	2.537	-0.001	18004295	0.2058	165.6- 225.6	195.6	
2	8	2.992	2.992	0.000	36461517	0.2004	366.1- 426.1	396.1	
2	9	3.131	3.131	0.000	16069361	0.2029	144.6- 204.6	174.6	
2	10	3.617	3.617	0.000	13152466	0.1996	112.9- 172.9	142.9	
			Average of Peak Amounts =			0.2024			
						RPD = 0.50			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.981	3.982	-0.001	8910620	0.2044		100.0	
1	2	4.268	4.270	-0.002	17562160	0.2039	172.1- 222.1	197.1	
1	3	4.548	4.549	-0.001	17233115	0.2041	168.4- 218.4	193.4	
1	4	5.247	5.249	-0.002	23995947	0.2028	244.3- 294.3	269.3	
1	5	5.531	5.532	-0.001	11517380	0.2052	104.3- 154.3	129.3	
			Average of Peak Amounts =			0.2041			
2	6	4.951	4.951	0.000	26263179	0.2022		100.0	
2	7	5.181	5.182	-0.001	28928326	0.1991	80.1- 140.1	110.1	
2	8	5.547	5.547	0.000	46386377	0.2007	146.6- 206.6	176.6	
2	9	6.231	6.232	-0.001	53606777	0.1995	174.1- 234.1	204.1	
2	10	6.611	6.611	0.000	39868093	0.1992	121.8- 181.8	151.8	
			Average of Peak Amounts =			0.2001			
						RPD = 1.95			
$ 12 DCB Decachlorobiphenyl									
1	100	6.681	6.682	-0.001	10255214	0.0101			
2	2	7.841	7.842	-0.001	29665889	0.0100			
						RPD = 0.26			

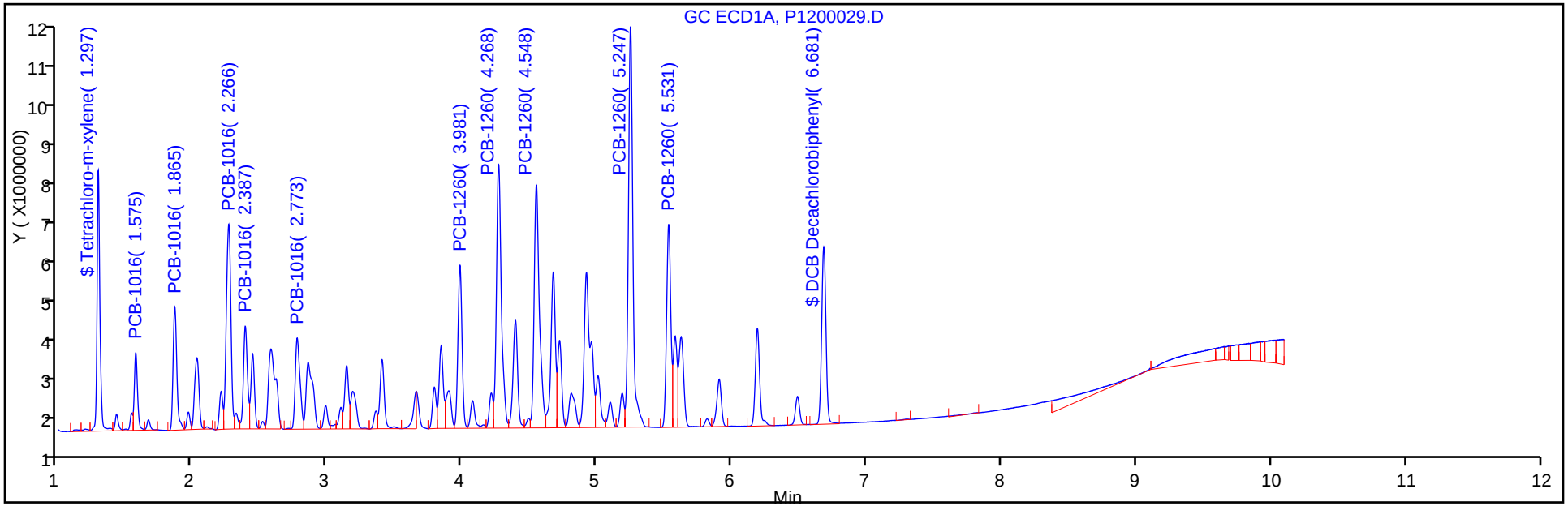
Report Date: 02-Apr-2013 07:01:04 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

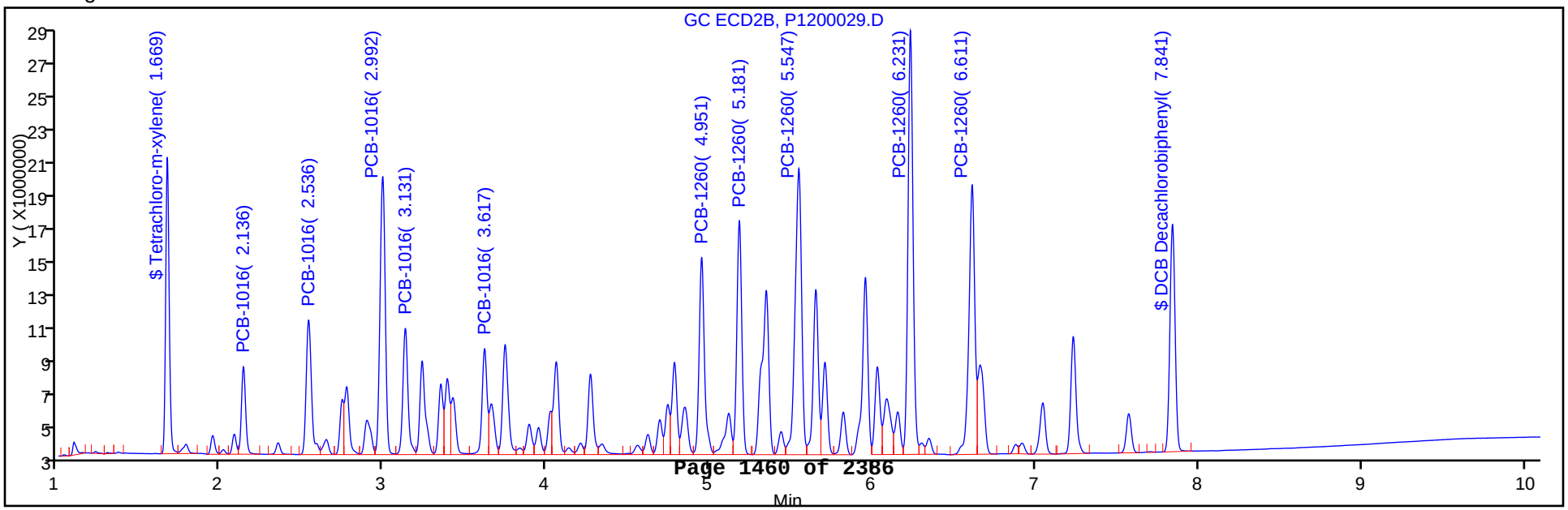
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200029.D

Injection Date:	01-Apr-2013 16:22:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200030.D
Lims ID: STD05 1660 Client ID:
Inject. Date: 01-Apr-2013 16:36:20 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 4
Sample ID: 240-0018420-030
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 80043 Lims Sample ID: 30
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:05 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.297	1.297	0.000	23096445	0.0235			
2	2	1.670	1.670	0.000	63122604	0.0236			
						RPD = 0.42			
6 PCB-1016									
1	100	1.576	1.576	0.000	8059641	0.4979		100.0	
1	2	1.867	1.867	0.000	14546395	0.4837	165.5- 215.5	180.5	
1	3	2.267	2.267	0.000	31989590	0.5000	356.7- 406.7	396.9	
1	4	2.389	2.389	0.000	13189252	0.4881	144.0- 194.0	163.6	
1	5	2.774	2.774	0.000	13664011	0.4836	153.1- 203.1	169.5	
			Average of Peak Amounts =			0.4907			
2	6	2.137	2.137	0.000	21094722	0.4657		100.0	
2	7	2.537	2.537	0.000	41495741	0.4743	165.6- 225.6	196.7	
2	8	2.992	2.992	0.000	89383091	0.4914	366.1- 426.1	423.7	
2	9	3.131	3.131	0.000	37993571	0.4797	144.6- 204.6	180.1	
2	10	3.617	3.617	0.000	30174905	0.4580	112.9- 172.9	143.0	
			Average of Peak Amounts =			0.4738			
						RPD = 3.50			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	20882983	0.4790		100.0	
1	2	4.270	4.270	0.000	41439198	0.4812	172.1- 222.1	198.4	
1	3	4.549	4.549	0.000	40872672	0.4840	168.4- 218.4	195.7	
1	4	5.249	5.249	0.000	58076312	0.4908	244.3- 294.3	278.1	
1	5	5.532	5.532	0.000	26846334	0.4783	104.3- 154.3	128.6	
			Average of Peak Amounts =			0.4827			
2	6	4.951	4.951	0.000	62561490	0.4817		100.0	
2	7	5.182	5.182	0.000	70356206	0.4843	80.1- 140.1	112.5	
2	8	5.547	5.547	0.000	112947889	0.4886	146.6- 206.6	180.5	
2	9	6.232	6.232	0.000	131401321	0.4889	174.1- 234.1	210.0	
2	10	6.611	6.611	0.000	96690545	0.4831	121.8- 181.8	154.6	
			Average of Peak Amounts =			0.4853			
						RPD = 0.55			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	23681444	0.0232			
2	2	7.842	7.842	0.000	67144069	0.0227			
						RPD = 2.27			

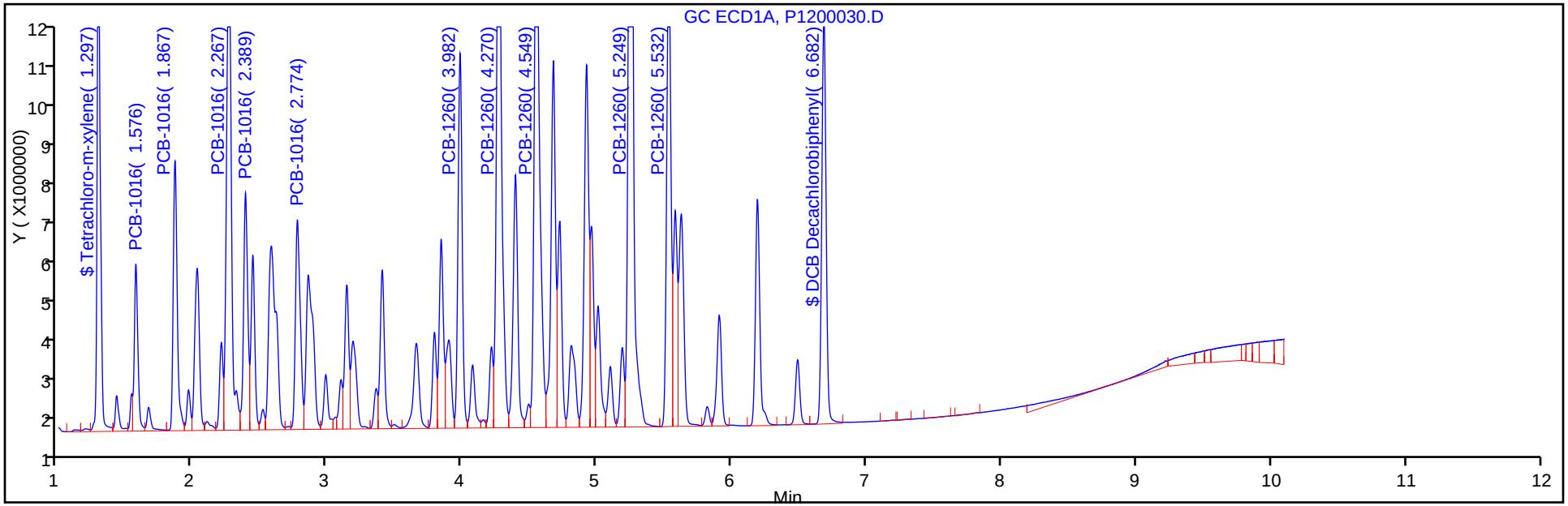
Report Date: 02-Apr-2013 07:01:07 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

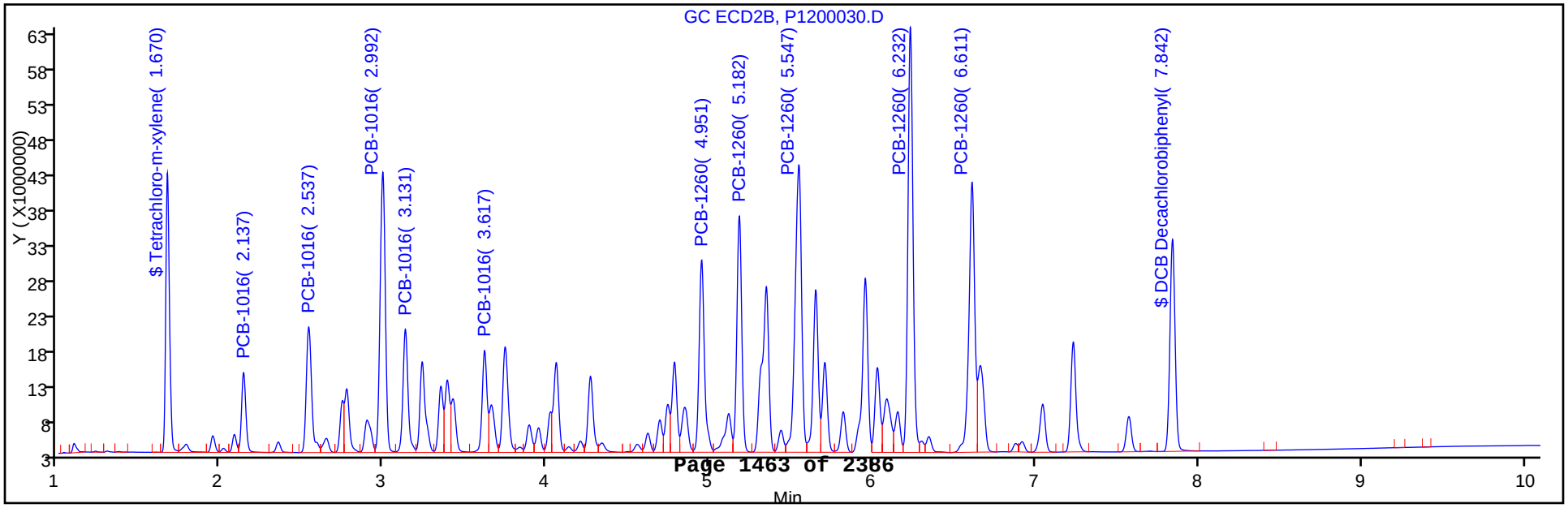
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200030.D

Injection Date:	01-Apr-2013 16:36:20	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200031.D
Lims ID: STD1 1660 Client ID:
Inject. Date: 01-Apr-2013 16:50:56 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018420-031
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 31
Lims Batch ID: 80043 Lims Sample ID: 31
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:07 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.297	0.001	44546019	0.0454			
2	2	1.669	1.670	-0.001	130621169	0.0489			
						RPD = 7.45			
6 PCB-1016									
1	100	1.576	1.576	0.000	13966606	0.8629		100.0	
1	2	1.866	1.867	-0.001	26274663	0.8736	165.5- 215.5	188.1	
1	3	2.267	2.267	0.000	55817578	0.8724	356.7- 406.7	399.7	
1	4	2.389	2.389	0.000	24058106	0.8904	144.0- 194.0	172.3	
1	5	2.775	2.774	0.001	24952974	0.8832	153.1- 203.1	178.7	
			Average of Peak Amounts =			0.8765			
2	6	2.136	2.137	-0.001	39936674	0.8816		100.0	
2	7	2.536	2.537	-0.001	78636693	0.8988	165.6- 225.6	196.9	
2	8	2.992	2.992	0.000	174347268	0.9585	366.1- 426.1	436.6	
2	9	3.130	3.131	-0.001	72864607	0.9199	144.6- 204.6	182.5	
2	10	3.617	3.617	0.000	57801890	0.8773	112.9- 172.9	144.7	
			Average of Peak Amounts =			0.9072			
						RPD = 3.44			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.983	3.982	0.001	39185619	0.8988		100.0	
1	2	4.269	4.270	-0.001	78767064	0.9146	172.1- 222.1	201.0	
1	3	4.549	4.549	0.000	78054512	0.9243	168.4- 218.4	199.2	
1	4	5.248	5.249	-0.001	113301191	0.9576	244.3- 294.3	289.1	
1	5	5.530	5.532	-0.002	52775219	0.9403	104.3- 154.3	134.7	
			Average of Peak Amounts =			0.9271			
2	6	4.949	4.951	-0.002	121963379	0.9392		100.0	
2	7	5.181	5.182	-0.001	137053703	0.9435	80.1- 140.1	112.4	
2	8	5.546	5.547	-0.001	222288293	0.9617	146.6- 206.6	182.3	
2	9	6.231	6.232	-0.001	262239136	0.9757	174.1- 234.1	215.0	
2	10	6.610	6.611	-0.001	190139052	0.9500	121.8- 181.8	155.9	
			Average of Peak Amounts =			0.9540			
						RPD = 2.86			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	48633746	0.0477			
2	2	7.842	7.842	0.000	136671507	0.0462			
						RPD = 3.16			

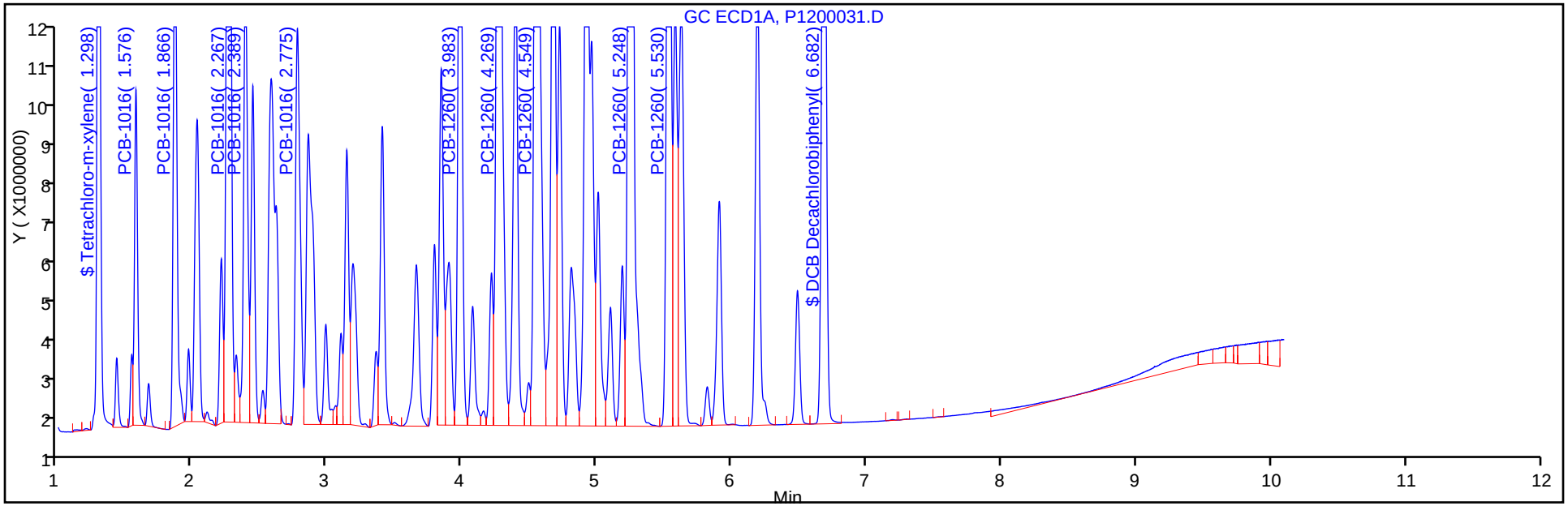
Report Date: 02-Apr-2013 07:01:08 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

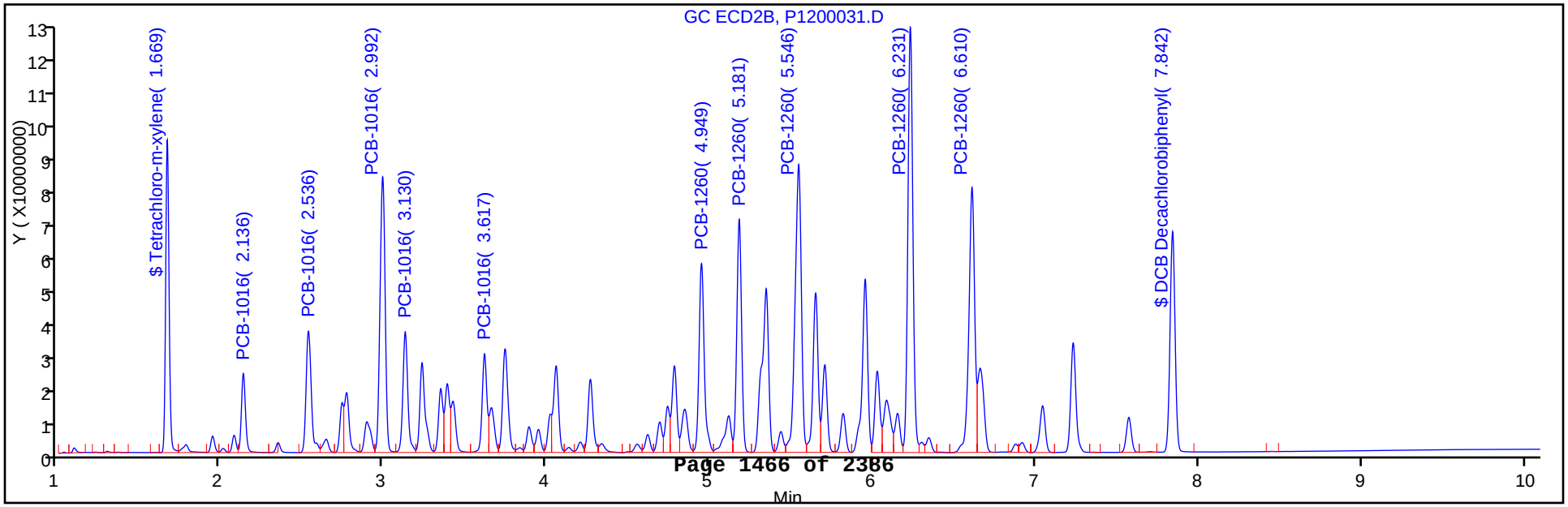
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200031.D

Injection Date:	01-Apr-2013 16:50:56	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200032.D
Lims ID: STD2 1660 Client ID:
Inject. Date: 01-Apr-2013 17:05:04 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018420-032
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 32
Lims Batch ID: 80043 Lims Sample ID: 32
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:09 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.297	0.001	81115706	0.0827			
2	2	1.669	1.670	-0.001	247792203	0.0928			
						RPD = 11.54			
6 PCB-1016									
1	100	1.575	1.576	-0.001	25655988	1.59		100.0	
1	2	1.865	1.867	-0.002	48545647	1.61	165.5- 215.5	189.2	
1	3	2.266	2.267	-0.001	112067941	1.75	356.7- 406.7	436.8	
1	4	2.388	2.389	-0.001	45399344	1.68	144.0- 194.0	177.0	
1	5	2.773	2.774	-0.001	47107376	1.67	153.1- 203.1	183.6	
			Average of Peak Amounts =			1.66			
2	6	2.137	2.137	0.000	74124205	1.64		100.0	
2	7	2.537	2.537	0.000	146212998	1.67	165.6- 225.6	197.3	
2	8	2.993	2.992	0.001	339157302	1.86	366.1- 426.1	457.6	
2	9	3.131	3.131	0.000	140157047	1.77	144.6- 204.6	189.1	
2	10	3.618	3.617	0.001	110079222	1.67	112.9- 172.9	148.5	
			Average of Peak Amounts =			1.72			
						RPD = 3.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	74650216	1.71		100.0	
1	2	4.269	4.270	-0.001	150110512	1.74	172.1- 222.1	201.1	
1	3	4.548	4.549	-0.001	149497510	1.77	168.4- 218.4	200.3	
1	4	5.248	5.249	-0.001	218590027	1.85	244.3- 294.3	292.8	
1	5	5.531	5.532	-0.001	101049791	1.80	104.3- 154.3	135.4	
			Average of Peak Amounts =			1.77			
2	6	4.950	4.951	-0.001	238913410	1.84		100.0	
2	7	5.181	5.182	-0.001	269992181	1.86	80.1- 140.1	113.0	
2	8	5.547	5.547	0.000	438741702	1.90	146.6- 206.6	183.6	
2	9	6.232	6.232	0.000	519698247	1.93	174.1- 234.1	217.5	
2	10	6.610	6.611	-0.001	374085465	1.87	121.8- 181.8	156.6	
			Average of Peak Amounts =			1.88			
						RPD = 5.75			
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.682	0.000	91104092	0.0893			
2	2	7.840	7.842	-0.002	258269779	0.0873			
						RPD = 2.28			

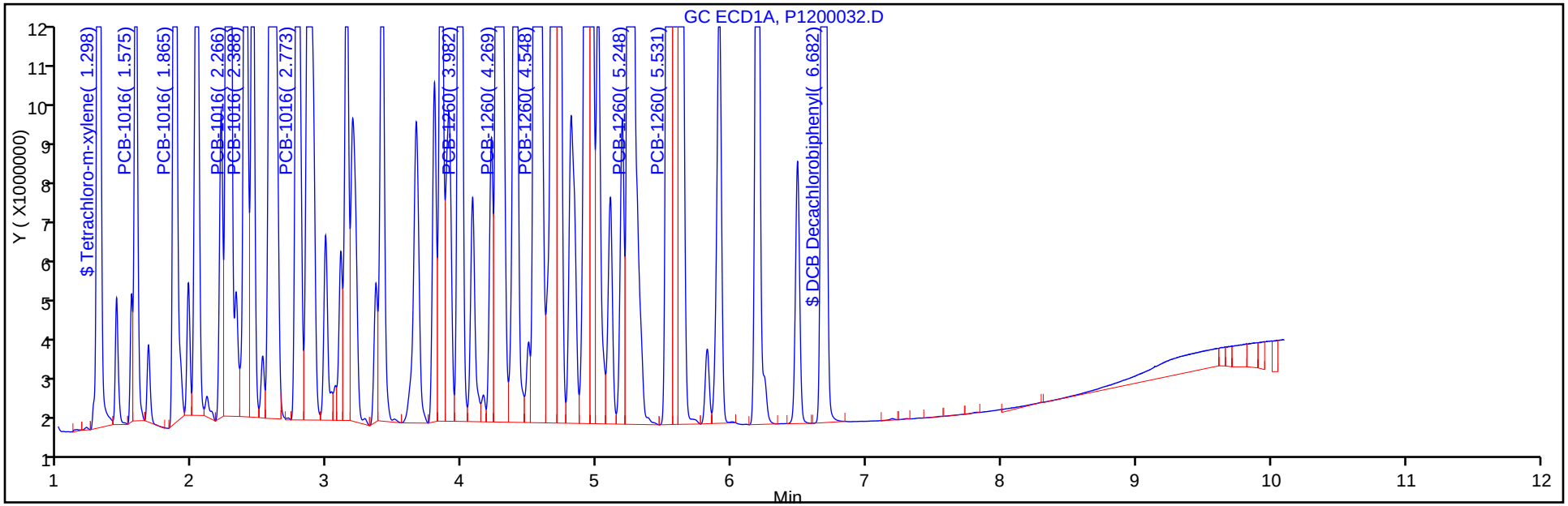
Report Date: 02-Apr-2013 07:01:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

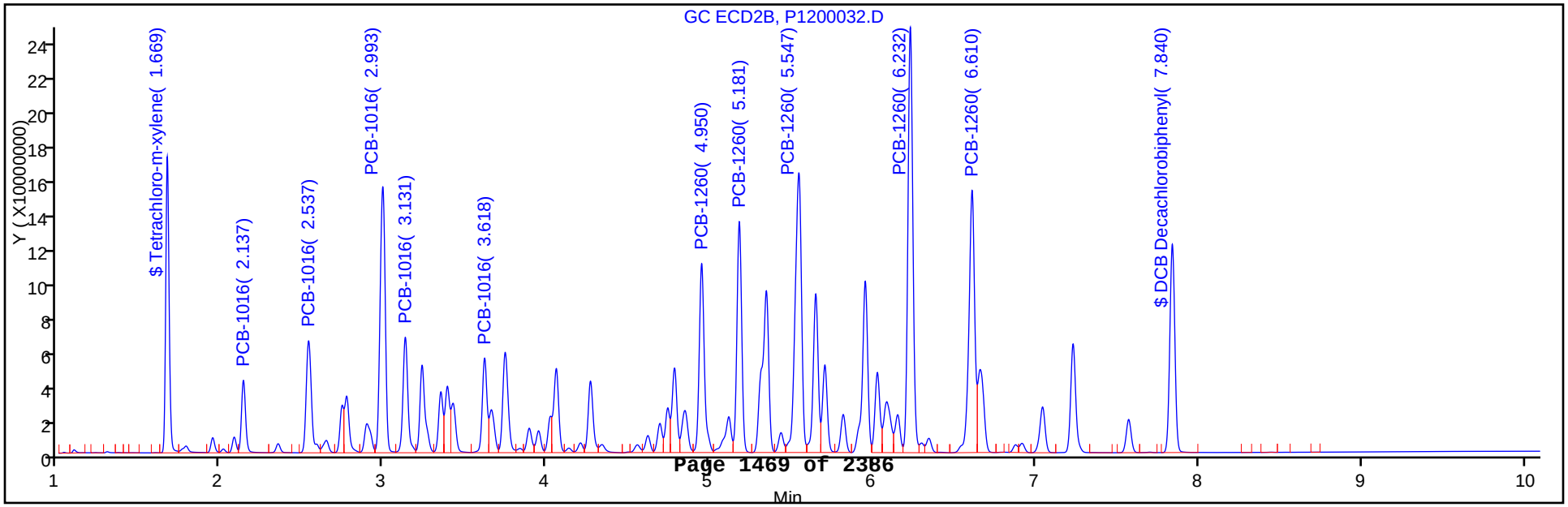
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200032.D

Injection Date:	01-Apr-2013 17:05:04	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	32
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/45 Calibration Date: 04/01/2013 20:09

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200045.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	9412224	9694450		1.03	1.00	3.0	20.0
PCB-1221 Peak 2	Ave	5036203	0.0000		0.000200	1.00	-100.0*	20.0
PCB-1221 Peak 3	Ave	22868380	28125417		1.23	1.00	23.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/45 Calibration Date: 04/01/2013 20:09

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200045.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.43	1.38	1.48
PCB-1221 Peak 2	1.58	1.49	1.59
PCB-1221 Peak 3	1.58	1.53	1.63

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200045.D
Lims ID: ICV 1221 Client ID:
Inject. Date: 01-Apr-2013 20:09:52 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-045
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 45
Lims Batch ID: 80043 Lims Sample ID: 45
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.434	1.433	0.001	9694450	1.03		100.0	
1	3	1.575	1.544	0.031	0	0	34.1- 84.1		
1	4	1.576	1.575	0.001	28125417	1.23	214.4- 264.4	290.1	
			Average of Peak Amounts =			1.13			
2	4	1.949	1.948	0.001	25155464	0.9313		100.0	
2	5	2.082	2.080	0.002	18047225	0.99	38.7- 98.7	71.7	
2	6	2.138	2.137	0.001	66492383	1.03	210.1- 270.1	264.3	
			Average of Peak Amounts =			0.9835			
						RPD = 13.86			

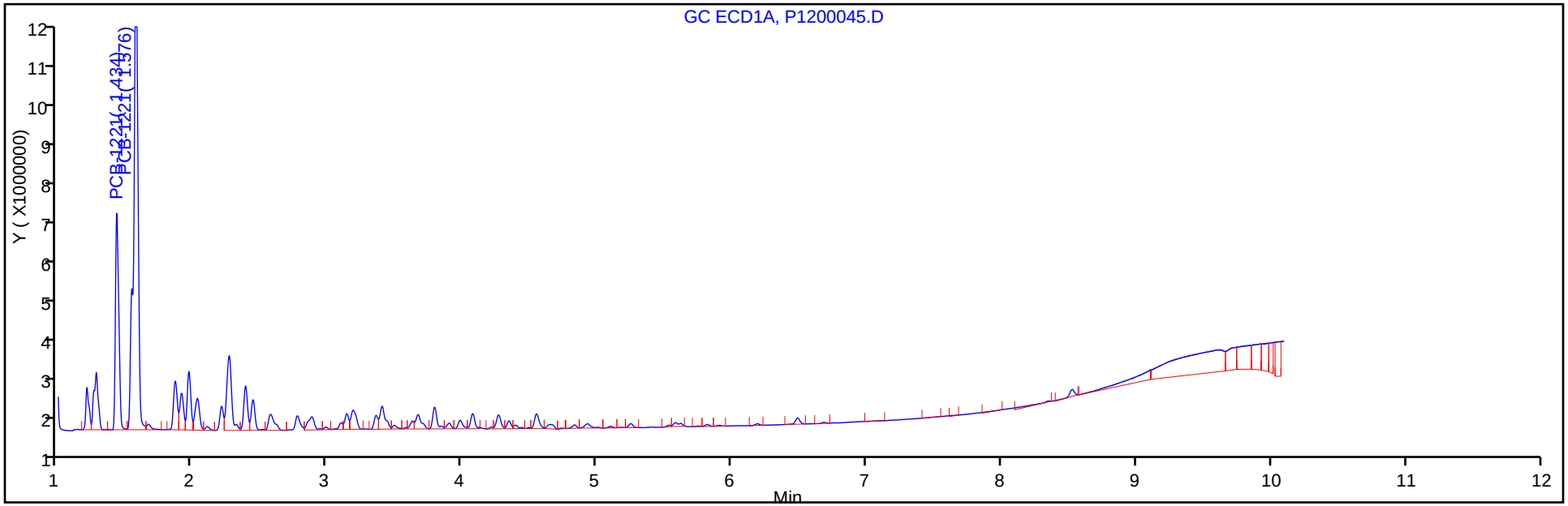
Report Date: 02-Apr-2013 07:01:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

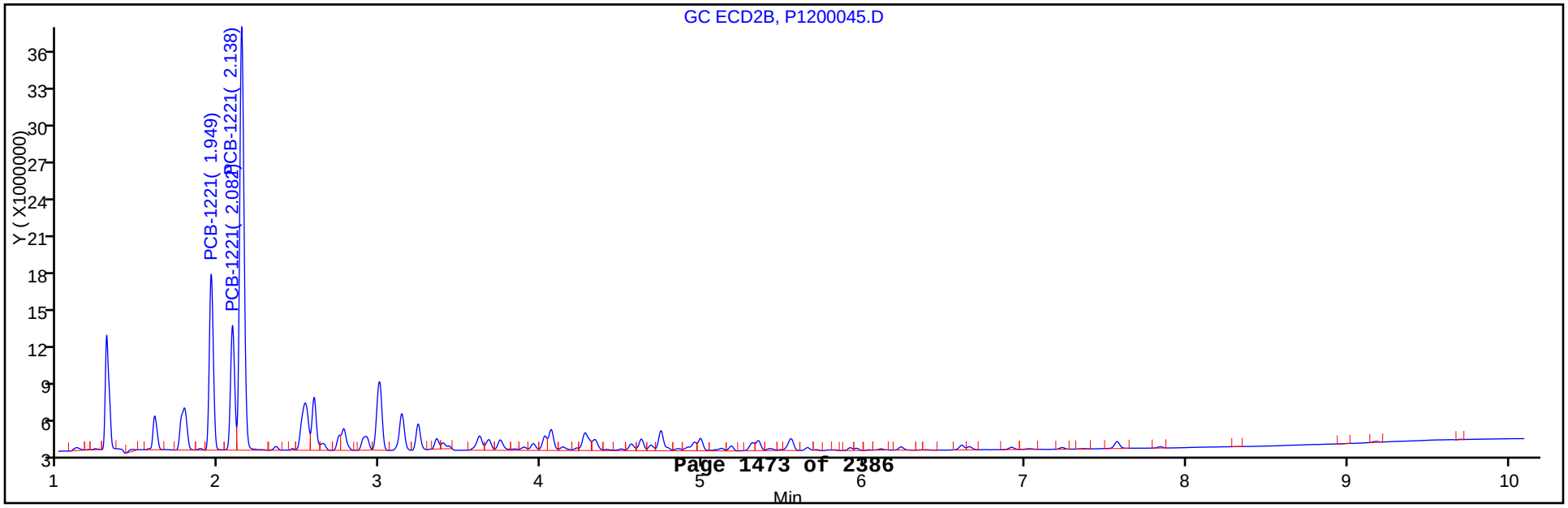
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200045.D

Injection Date:	01-Apr-2013 20:09:52	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	45
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/45 Calibration Date: 04/01/2013 20:09

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200045.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	27011068	25155464		0.931	1.00	-6.9	20.0
PCB-1221 Peak 2	Ave	18185814	18047225		0.992	1.00	-0.8	20.0
PCB-1221 Peak 3	Ave	64758703	66492383		1.03	1.00	2.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/45 Calibration Date: 04/01/2013 20:09

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200045.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.95	1.90	2.00
PCB-1221 Peak 2	2.08	2.03	2.13
PCB-1221 Peak 3	2.14	2.09	2.19

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200045.D
Lims ID: ICV 1221 Client ID:
Inject. Date: 01-Apr-2013 20:09:52 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-045
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 45
Lims Batch ID: 80043 Lims Sample ID: 45
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.434	1.433	0.001	9694450	1.03		100.0	
1	3	1.575	1.544	0.031	0	0	34.1- 84.1		
1	4	1.576	1.575	0.001	28125417	1.23	214.4- 264.4	290.1	
			Average of Peak Amounts =			1.13			
2	4	1.949	1.948	0.001	25155464	0.9313		100.0	
2	5	2.082	2.080	0.002	18047225	0.99	38.7- 98.7	71.7	
2	6	2.138	2.137	0.001	66492383	1.03	210.1- 270.1	264.3	
			Average of Peak Amounts =			0.9835			
						RPD = 13.86			

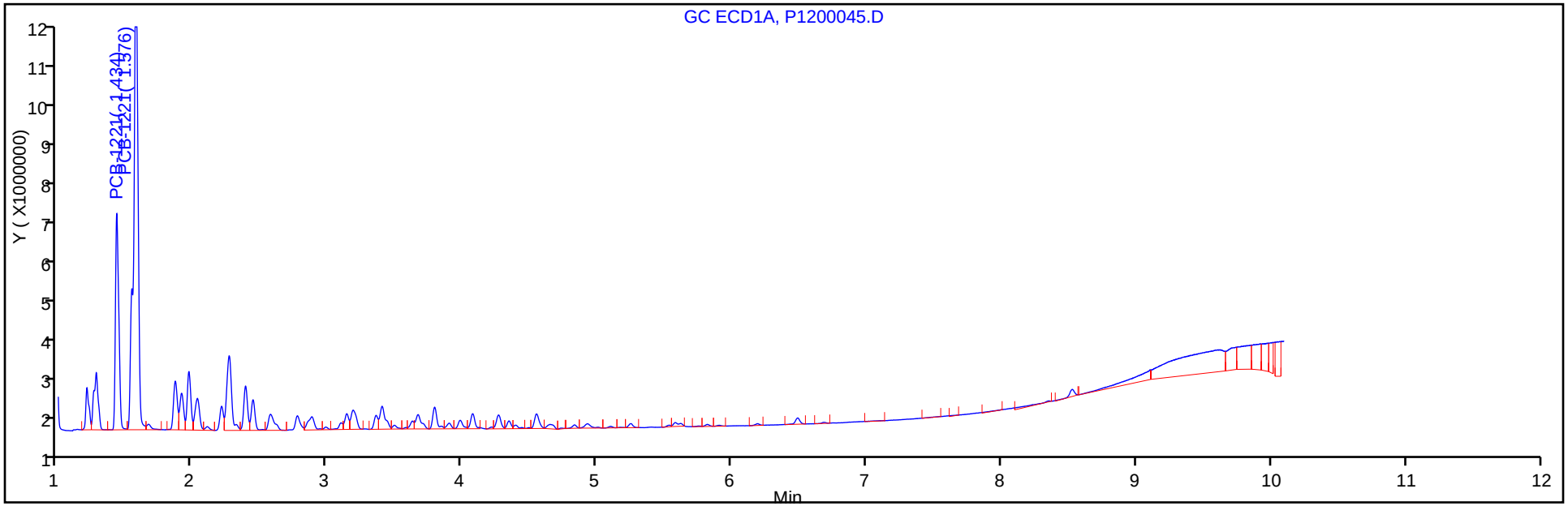
Report Date: 02-Apr-2013 07:01:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

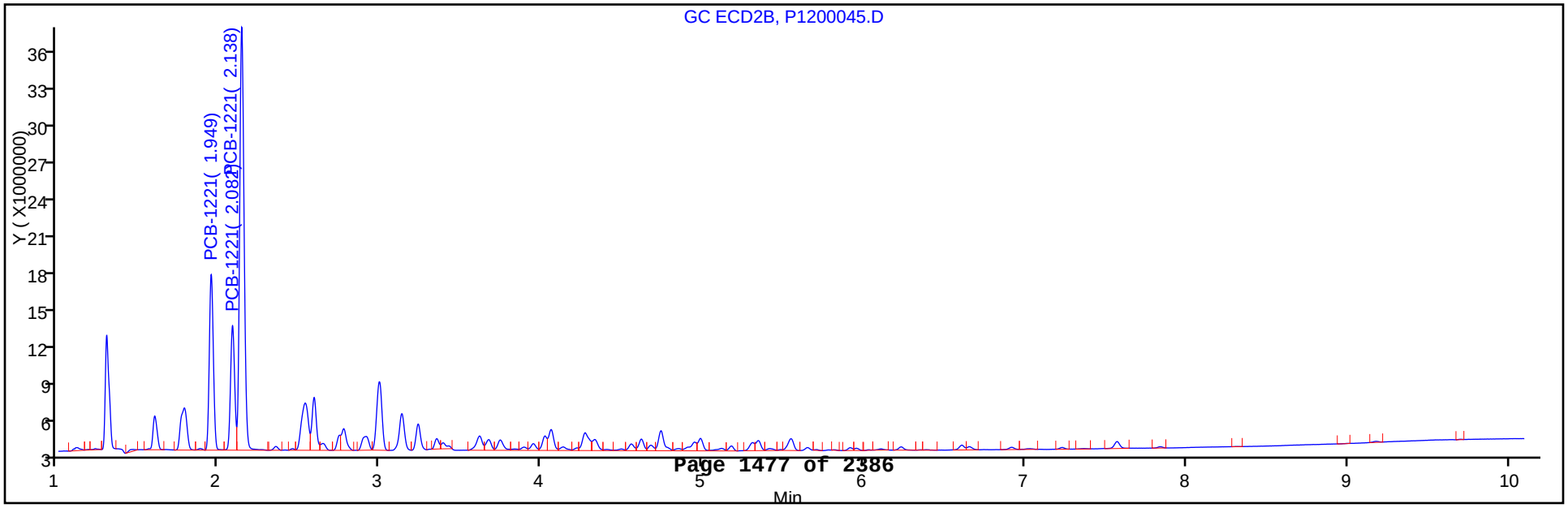
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200045.D

Injection Date:	01-Apr-2013 20:09:52	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	45
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/46 Calibration Date: 04/01/2013 20:23

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 10:09

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 11:21

Lab File ID: P1200046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	18176812	15123644		0.832	1.00	-16.8	20.0
PCB-1232 Peak 2	Ave	14647831	13124037		0.896	1.00	-10.4	20.0
PCB-1232 Peak 3	Ave	28440460	27633684		0.972	1.00	-2.8	20.0
PCB-1232 Peak 4	Ave	12000709	11382903		0.949	1.00	-5.1	20.0
PCB-1232 Peak 5	Ave	11702083	11383278		0.973	1.00	-2.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/46 Calibration Date: 04/01/2013 20:23

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 10:09

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 11:21

Lab File ID: P1200046.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.58	1.53	1.63
PCB-1232 Peak 2	1.87	1.82	1.92
PCB-1232 Peak 3	2.27	2.22	2.32
PCB-1232 Peak 4	2.39	2.34	2.44
PCB-1232 Peak 5	2.77	2.73	2.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200046.D
Lims ID: ICV 1232 Client ID:
Inject. Date: 01-Apr-2013 20:23:59 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-046
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 46
Lims Batch ID: 80043 Lims Sample ID: 46
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.575	1.577	-0.002	15123644	0.8320		100.0	
1	2	1.866	1.868	-0.002	13124037	0.8960	57.1- 107.1	86.8	
1	3	2.266	2.270	-0.004	27633684	0.9716	138.6- 188.6	182.7	
1	4	2.388	2.393	-0.005	11382903	0.9485	43.2- 93.2	75.3	
1	5	2.774	2.777	-0.003	11383278	0.9728	41.1- 91.1	75.3	
			Average of Peak Amounts =			0.9242			
2	6	2.138	2.138	0.000	43305716	0.8115		100.0	
2	7	2.538	2.540	-0.002	36363418	0.8964	47.1- 107.1	84.0	
2	8	2.993	2.996	-0.003	78751574	0.9789	119.9- 179.9	181.9	
2	9	3.131	3.136	-0.005	33906747	0.9261	38.2- 98.2	78.3	
2	10	3.743	3.750	-0.007	28749588	0.9312	29.2- 89.2	66.4	
			Average of Peak Amounts =			0.9088			
						RPD = 1.68			

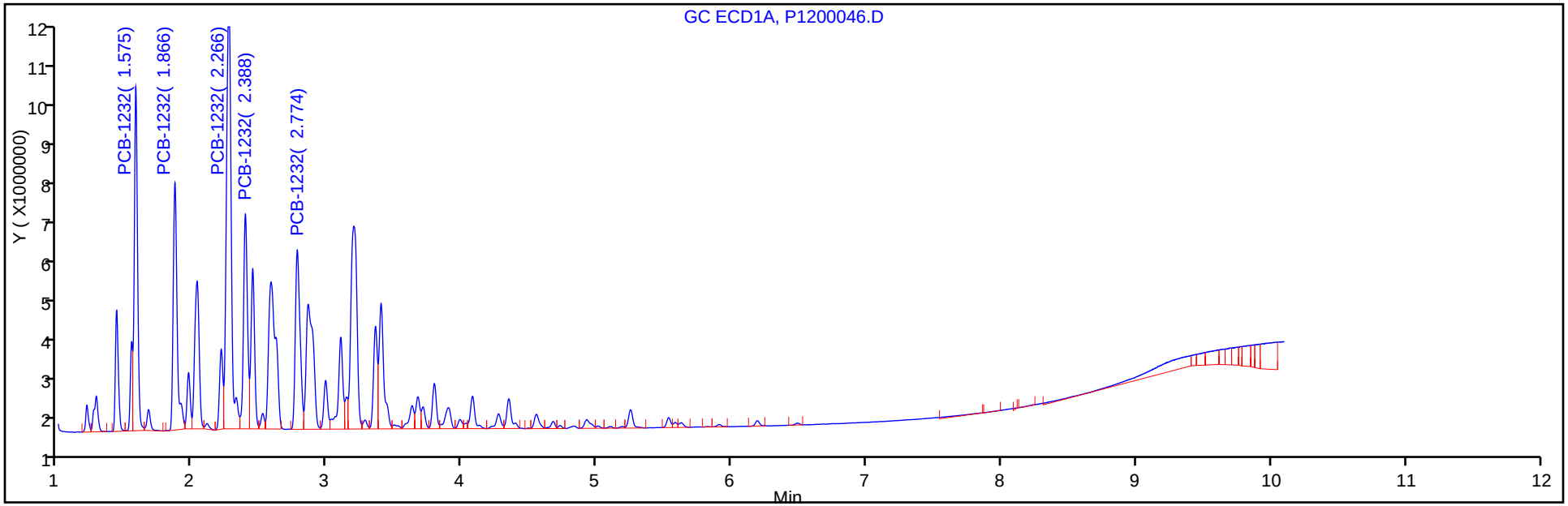
Report Date: 02-Apr-2013 07:01:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

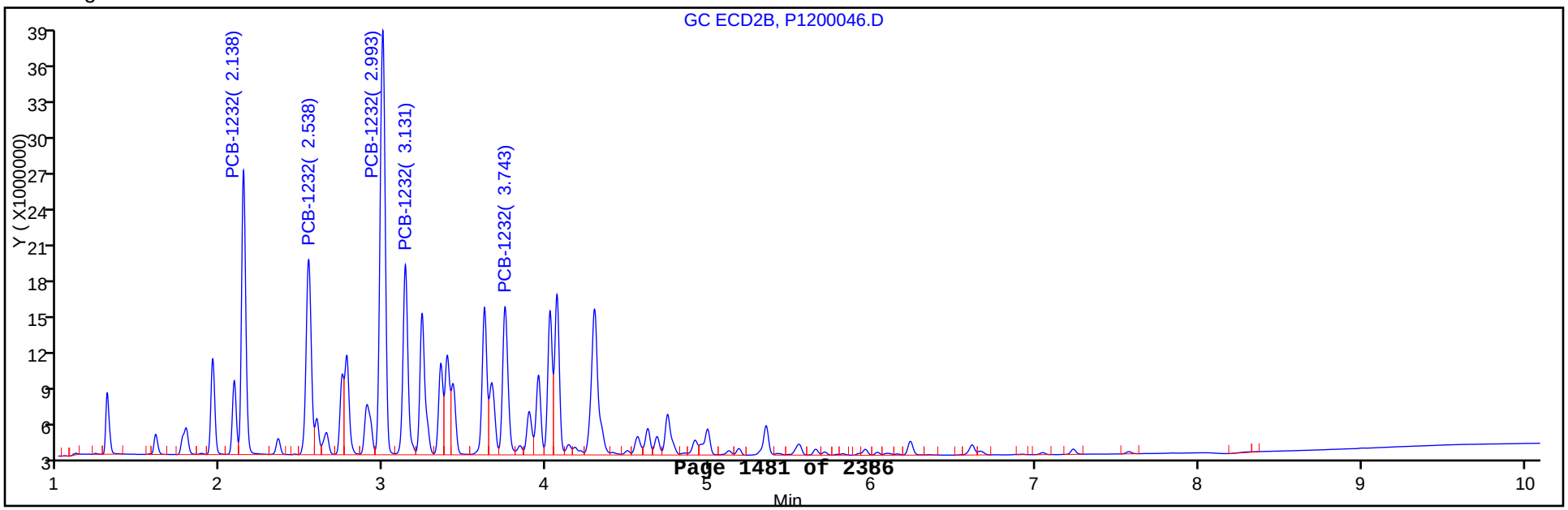
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200046.D

Injection Date:	01-Apr-2013 20:23:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/46 Calibration Date: 04/01/2013 20:23

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 10:09

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 11:21

Lab File ID: P1200046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	53364697	43305716		0.812	1.00	-18.8	20.0
PCB-1232 Peak 2	Ave	40566799	36363418		0.896	1.00	-10.4	20.0
PCB-1232 Peak 3	Ave	80450386	78751574		0.979	1.00	-2.1	20.0
PCB-1232 Peak 4	Ave	36612715	33906747		0.926	1.00	-7.4	20.0
PCB-1232 Peak 5	Ave	30872557	28749588		0.931	1.00	-6.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/46 Calibration Date: 04/01/2013 20:23

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 10:09

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 11:21

Lab File ID: P1200046.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.14	2.09	2.19
PCB-1232 Peak 2	2.54	2.49	2.59
PCB-1232 Peak 3	2.99	2.95	3.05
PCB-1232 Peak 4	3.13	3.09	3.19
PCB-1232 Peak 5	3.74	3.70	3.80

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200046.D
Lims ID: ICV 1232 Client ID:
Inject. Date: 01-Apr-2013 20:23:59 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-046
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 46
Lims Batch ID: 80043 Lims Sample ID: 46
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.575	1.577	-0.002	15123644	0.8320		100.0	
1	2	1.866	1.868	-0.002	13124037	0.8960	57.1- 107.1	86.8	
1	3	2.266	2.270	-0.004	27633684	0.9716	138.6- 188.6	182.7	
1	4	2.388	2.393	-0.005	11382903	0.9485	43.2- 93.2	75.3	
1	5	2.774	2.777	-0.003	11383278	0.9728	41.1- 91.1	75.3	
			Average of Peak Amounts =			0.9242			
2	6	2.138	2.138	0.000	43305716	0.8115		100.0	
2	7	2.538	2.540	-0.002	36363418	0.8964	47.1- 107.1	84.0	
2	8	2.993	2.996	-0.003	78751574	0.9789	119.9- 179.9	181.9	
2	9	3.131	3.136	-0.005	33906747	0.9261	38.2- 98.2	78.3	
2	10	3.743	3.750	-0.007	28749588	0.9312	29.2- 89.2	66.4	
			Average of Peak Amounts =			0.9088			
						RPD = 1.68			

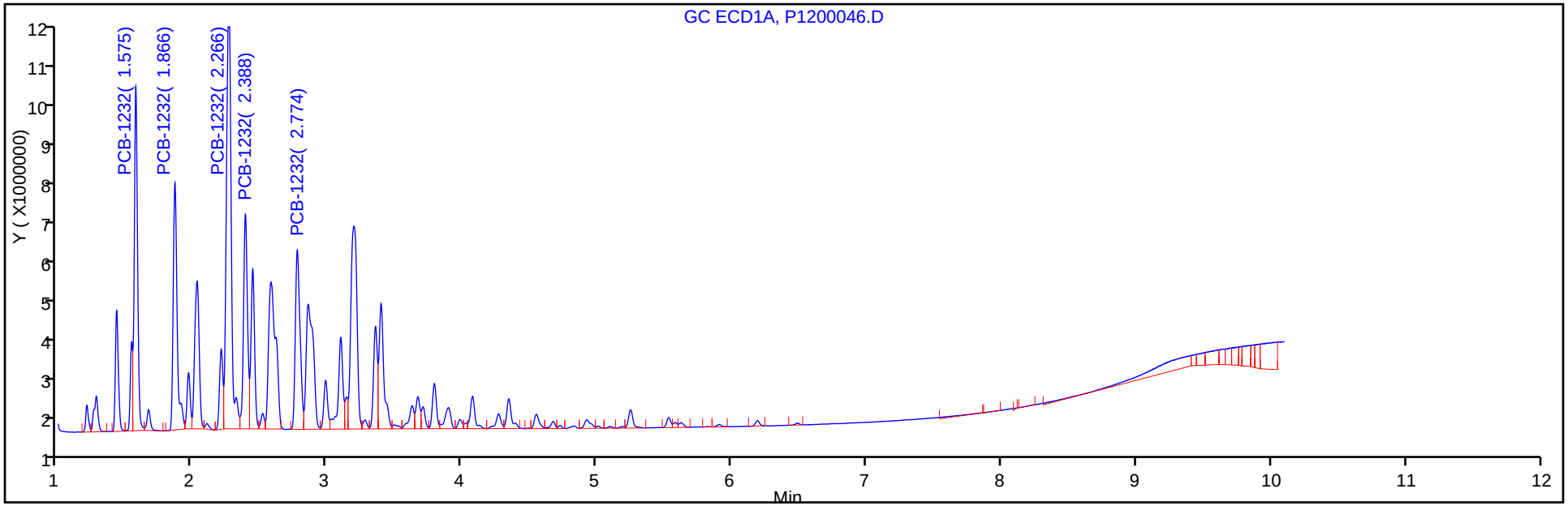
Report Date: 02-Apr-2013 07:01:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

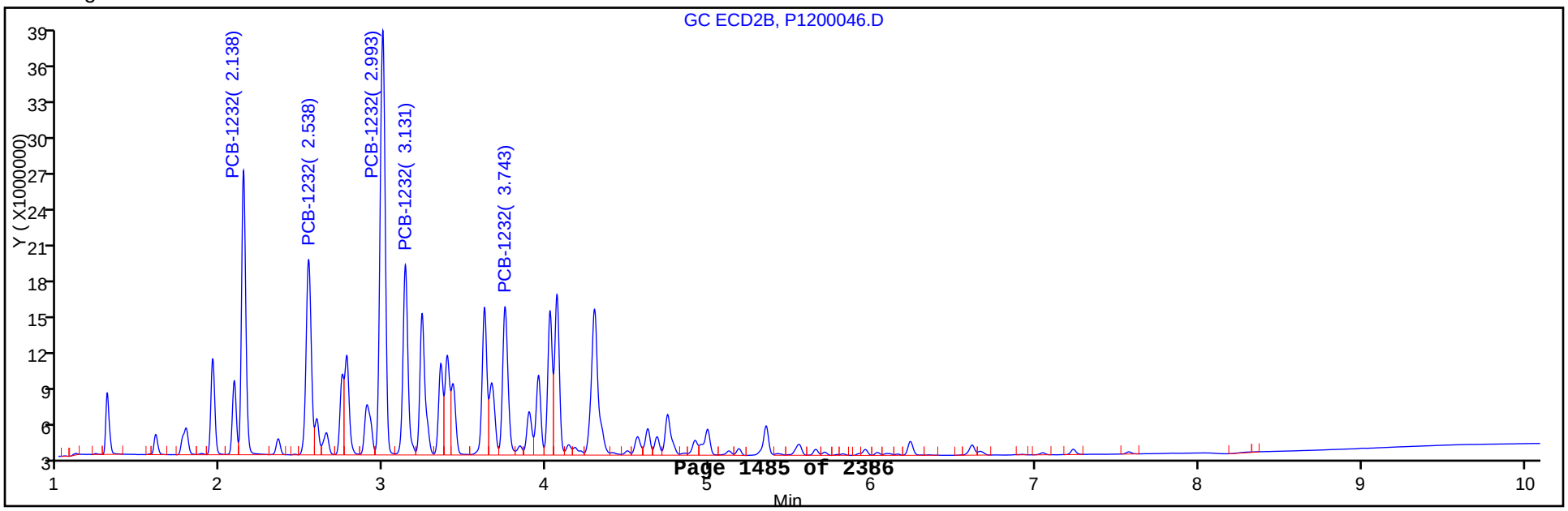
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200046.D

Injection Date:	01-Apr-2013 20:23:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/47 Calibration Date: 04/01/2013 20:38

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 11:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 12:48

Lab File ID: P1200047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	12831376	13138210		1.02	1.00	2.4	20.0
PCB-1242 Peak 2	Ave	24783748	25917329		1.05	1.00	4.6	20.0
PCB-1242 Peak 3	Ave	51586875	54685987		1.06	1.00	6.0	20.0
PCB-1242 Peak 4	Ave	22033277	23859592		1.08	1.00	8.3	20.0
PCB-1242 Peak 5	Ave	23477932	25586962		1.09	1.00	9.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/47 Calibration Date: 04/01/2013 20:38

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 11:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 12:48

Lab File ID: P1200047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	1.58	1.53	1.63
PCB-1242 Peak 2	1.87	1.82	1.92
PCB-1242 Peak 3	2.27	2.22	2.32
PCB-1242 Peak 4	2.39	2.34	2.44
PCB-1242 Peak 5	2.77	2.73	2.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200047.D
Lims ID: ICV 1242 Client ID:
Inject. Date: 01-Apr-2013 20:38:31 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-047
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 80043 Lims Sample ID: 47
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.577	1.575	0.002	13138210	1.02		100.0	
1	2	1.867	1.865	0.002	25917329	1.05	163.6- 213.6	197.3	
1	3	2.267	2.265	0.002	54685987	1.06	347.0- 397.0	416.2	
1	4	2.389	2.388	0.001	23859592	1.08	141.6- 191.6	181.6	
1	5	2.774	2.775	-0.001	25586962	1.09	150.4- 200.4	194.8	
			Average of Peak Amounts =			1.06			
2	6	2.137	2.136	0.001	38836658	1.02		100.0	
2	7	2.537	2.536	0.001	76567284	1.06	162.4- 222.4	197.2	
2	8	2.992	2.991	0.001	168257286	1.14	348.9- 408.9	433.2	
2	9	3.131	3.130	0.001	69808242	1.08	136.6- 196.6	179.7	
2	10	3.617	3.615	0.002	58519718	1.27	108.6- 168.6	150.7	
			Average of Peak Amounts =			1.11			
						RPD = 4.68			

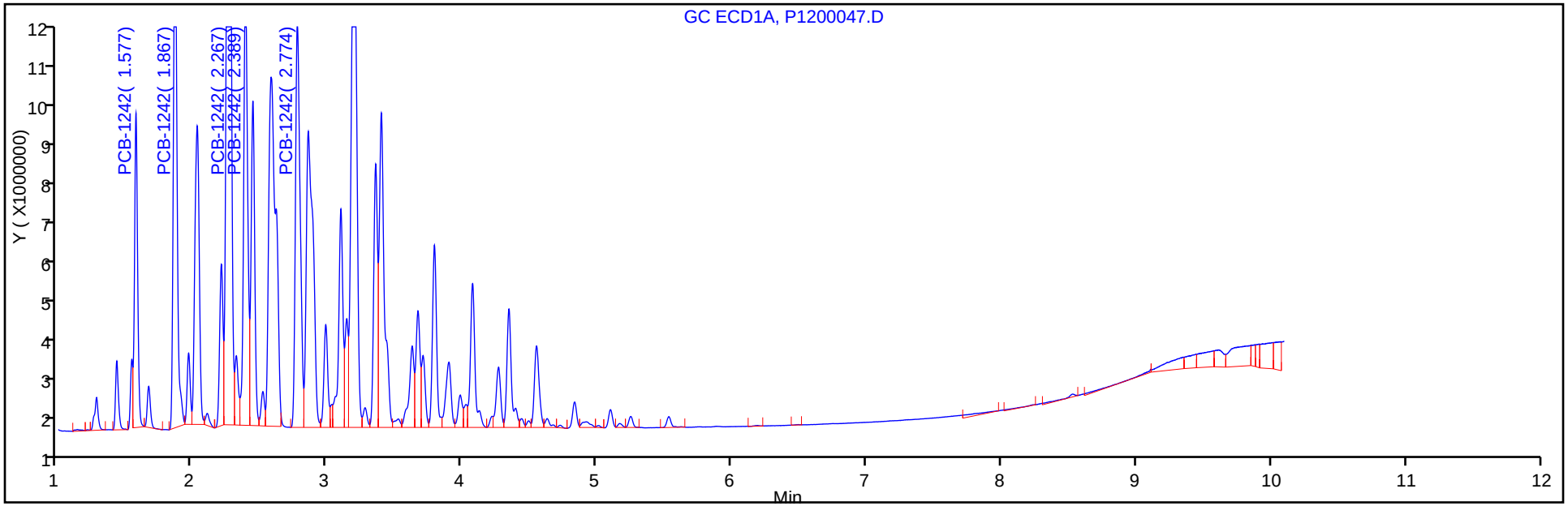
Report Date: 02-Apr-2013 07:01:31 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

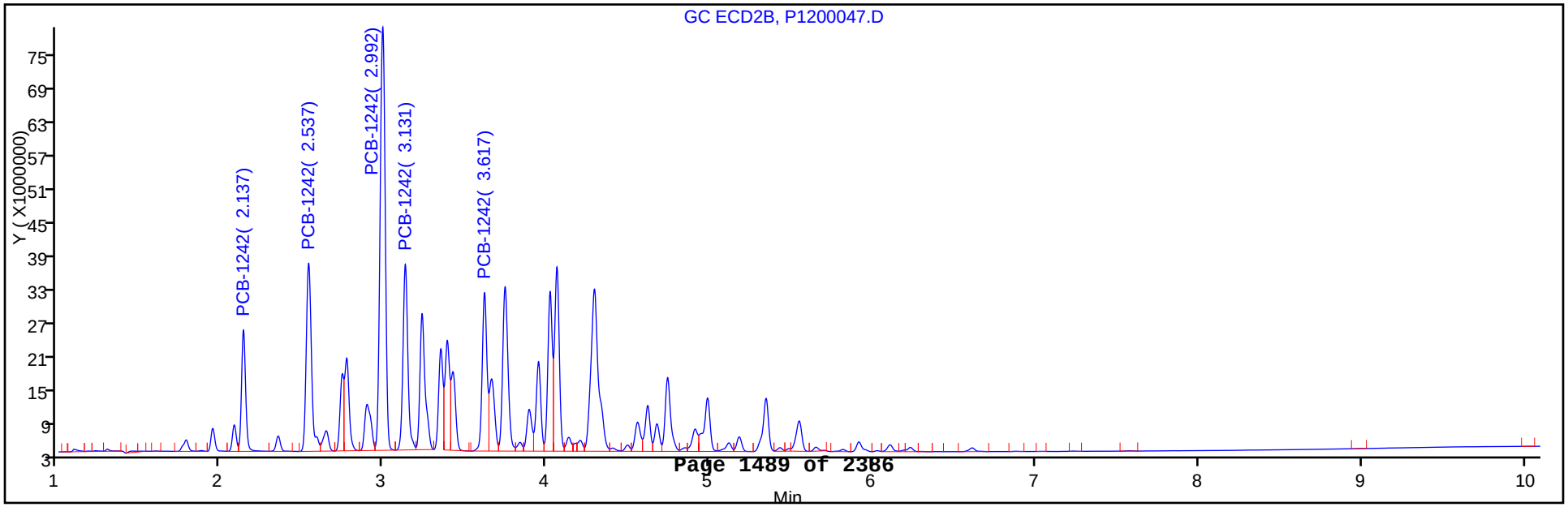
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200047.D

Injection Date:	01-Apr-2013 20:38:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/47 Calibration Date: 04/01/2013 20:38

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 11:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 12:48

Lab File ID: P1200047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	38122353	38836658		1.02	1.00	1.9	20.0
PCB-1242 Peak 2	Ave	72562393	76567284		1.06	1.00	5.5	20.0
PCB-1242 Peak 3	Ave	147546944	168257286		1.14	1.00	14.0	20.0
PCB-1242 Peak 4	Ave	64813150	69808242		1.08	1.00	7.7	20.0
PCB-1242 Peak 5	Lin1		58519718		1.27	1.00	26.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/47 Calibration Date: 04/01/2013 20:38

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 11:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 12:48

Lab File ID: P1200047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.14	2.09	2.19
PCB-1242 Peak 2	2.54	2.49	2.59
PCB-1242 Peak 3	2.99	2.94	3.04
PCB-1242 Peak 4	3.13	3.08	3.18
PCB-1242 Peak 5	3.62	3.57	3.67

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200047.D
Lims ID: ICV 1242 Client ID:
Inject. Date: 01-Apr-2013 20:38:31 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-047
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 80043 Lims Sample ID: 47
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.577	1.575	0.002	13138210	1.02		100.0	
1	2	1.867	1.865	0.002	25917329	1.05	163.6- 213.6	197.3	
1	3	2.267	2.265	0.002	54685987	1.06	347.0- 397.0	416.2	
1	4	2.389	2.388	0.001	23859592	1.08	141.6- 191.6	181.6	
1	5	2.774	2.775	-0.001	25586962	1.09	150.4- 200.4	194.8	
			Average of Peak Amounts =			1.06			
2	6	2.137	2.136	0.001	38836658	1.02		100.0	
2	7	2.537	2.536	0.001	76567284	1.06	162.4- 222.4	197.2	
2	8	2.992	2.991	0.001	168257286	1.14	348.9- 408.9	433.2	
2	9	3.131	3.130	0.001	69808242	1.08	136.6- 196.6	179.7	
2	10	3.617	3.615	0.002	58519718	1.27	108.6- 168.6	150.7	
			Average of Peak Amounts =			1.11			
						RPD = 4.68			

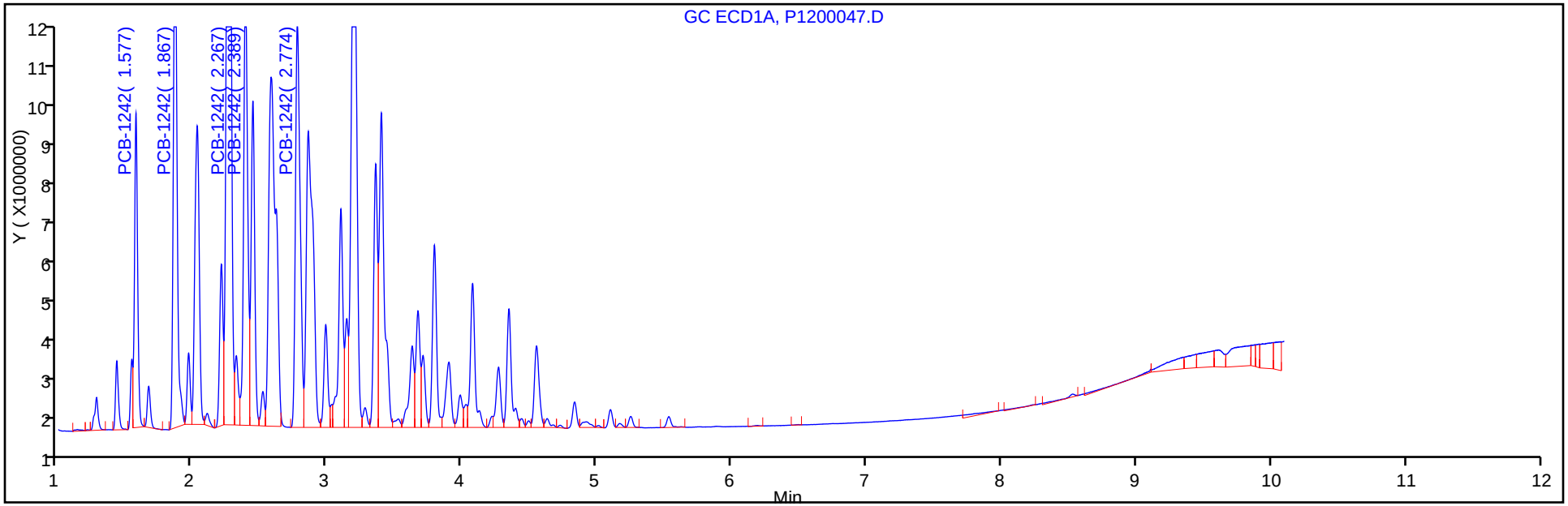
Report Date: 02-Apr-2013 07:01:32 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

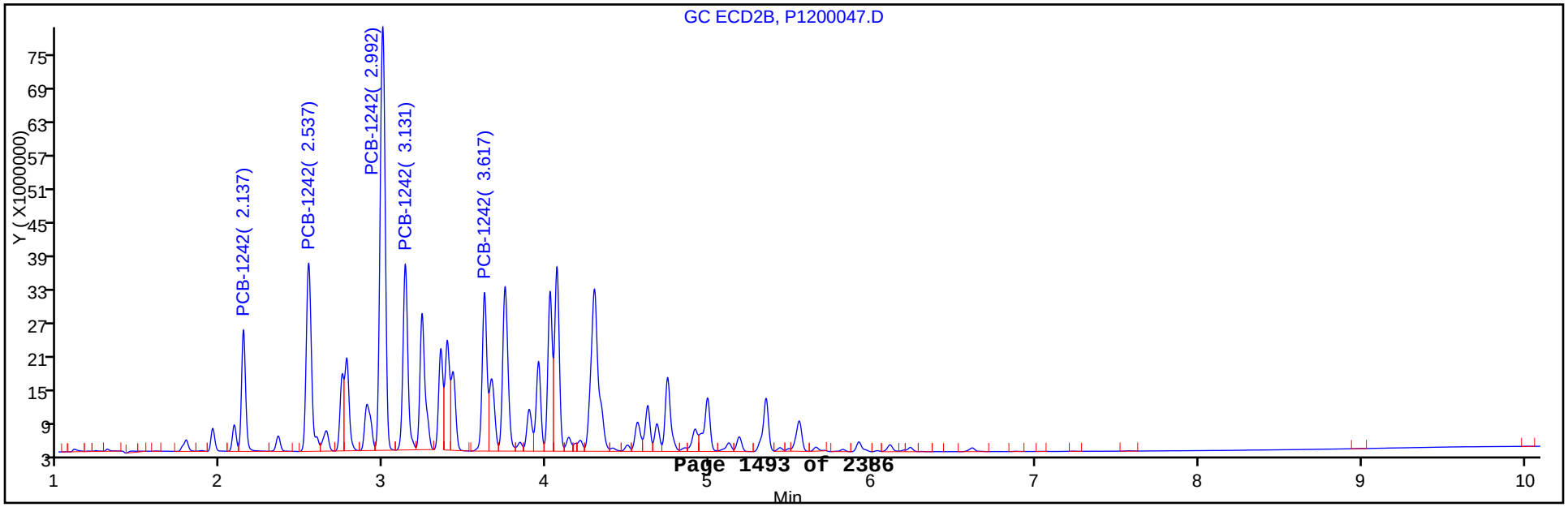
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200047.D

Injection Date:	01-Apr-2013 20:38:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/48 Calibration Date: 04/01/2013 20:52

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 13:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 14:13

Lab File ID: P1200048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	12383343	11638395		0.940	1.00	-6.0	20.0
PCB-1248 Peak 2	Ave	32422157	29168793		0.900	1.00	-10.0	20.0
PCB-1248 Peak 3	Ave	36647974	30857685		0.842	1.00	-15.8	20.0
PCB-1248 Peak 4	Ave	21004681	17454018		0.831	1.00	-16.9	20.0
PCB-1248 Peak 5	Ave	18950866	16271866		0.859	1.00	-14.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/48 Calibration Date: 04/01/2013 20:52

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 13:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 14:13

Lab File ID: P1200048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	1.87	1.81	1.91
PCB-1248 Peak 2	2.26	2.21	2.31
PCB-1248 Peak 3	2.77	2.72	2.82
PCB-1248 Peak 4	3.36	3.31	3.41
PCB-1248 Peak 5	3.79	3.74	3.84

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200048.D
Lims ID: ICV 1248 Client ID:
Inject. Date: 01-Apr-2013 20:52:36 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-048
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 48
Lims Batch ID: 80043 Lims Sample ID: 48
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.865	1.863	0.002	11638395	0.9398		100.0	
1	2	2.264	2.264	0.000	29168793	0.8997	236.7- 286.7	250.6	
1	3	2.773	2.773	0.000	30857685	0.8420	270.2- 320.2	265.1	
1	4	3.356	3.356	0.000	17454018	0.8310	145.6- 195.6	150.0	
1	5	3.791	3.792	-0.001	16271866	0.8586	127.6- 177.6	139.8	
			Average of Peak Amounts =			0.8742			
2	6	2.536	2.535	0.001	32923343	0.9274		100.0	
2	7	2.991	2.989	0.002	87447352	0.9222	235.6- 295.6	265.6	
2	8	3.617	3.617	0.000	72842173	0.8369	215.6- 275.6	221.2	
2	9	4.061	4.062	-0.001	87816843	0.8425	261.1- 321.1	266.7	
2	10	4.741	4.740	0.001	49184056	0.8650	131.8- 191.8	149.4	
			Average of Peak Amounts =			0.8788			
						RPD = 0.52			

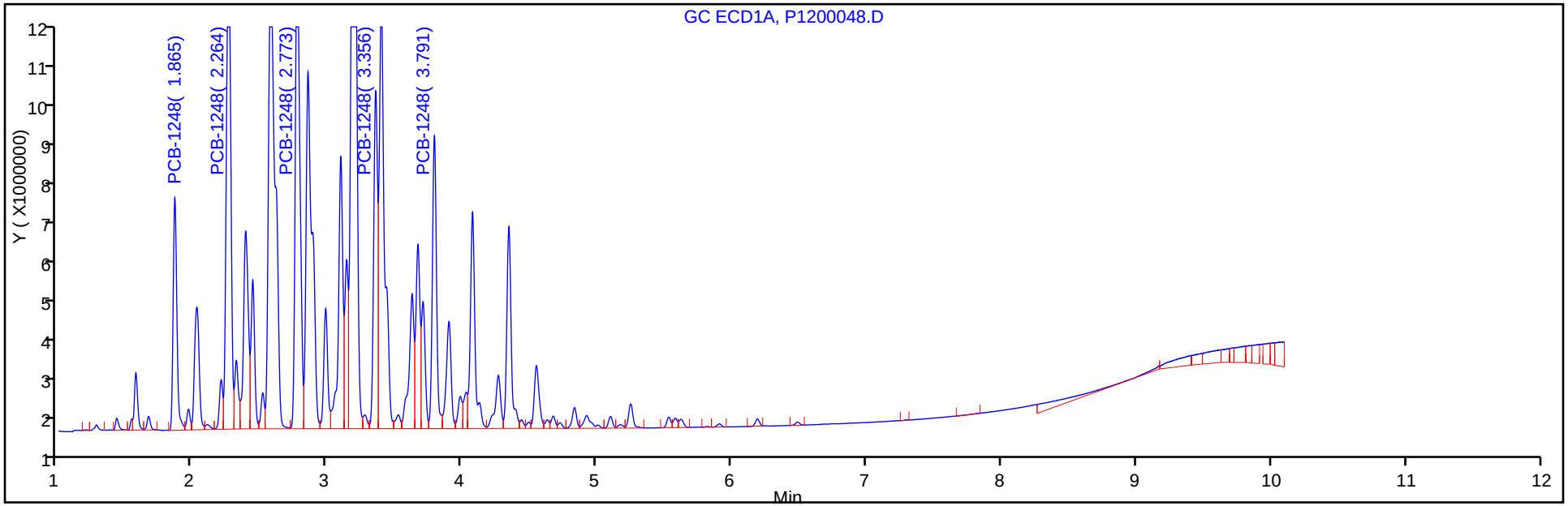
Report Date: 02-Apr-2013 07:01:34 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

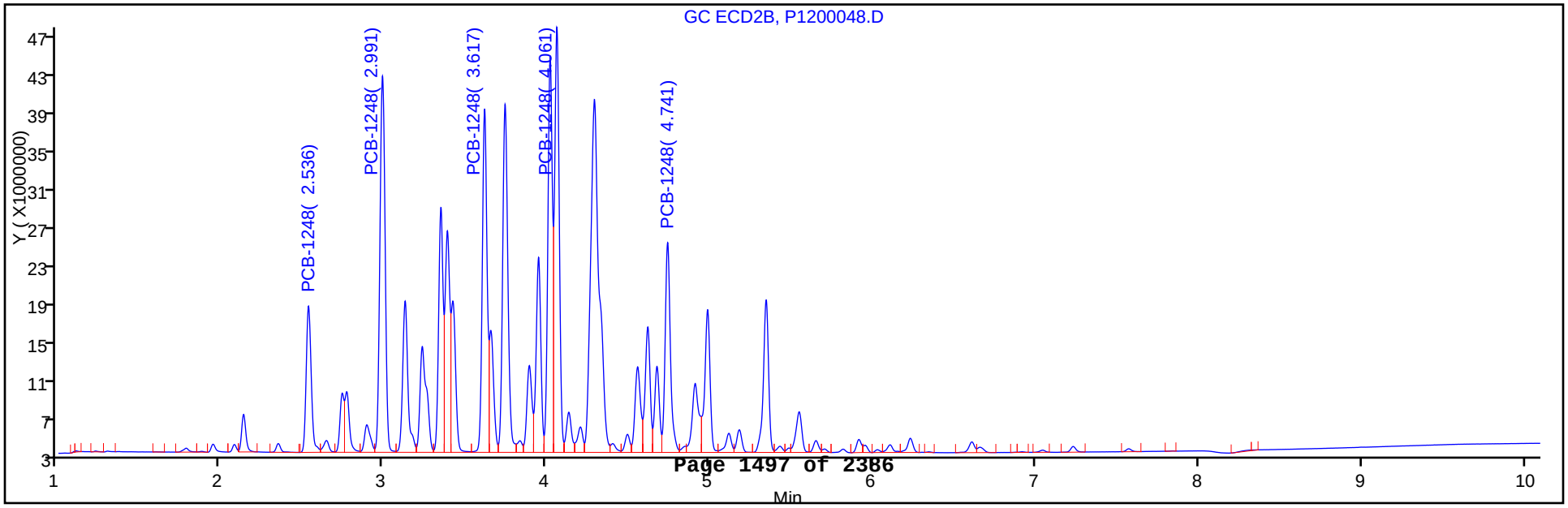
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200048.D

Injection Date:	01-Apr-2013 20:52:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/48 Calibration Date: 04/01/2013 20:52

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 13:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 14:13

Lab File ID: P1200048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	35501935	32923343		0.927	1.00	-7.3	20.0
PCB-1248 Peak 2	Ave	94824610	87447352		0.922	1.00	-7.8	20.0
PCB-1248 Peak 3	Ave	87041987	72842173		0.837	1.00	-16.3	20.0
PCB-1248 Peak 4	Ave	104232104	87816843		0.843	1.00	-15.7	20.0
PCB-1248 Peak 5	Ave	56862330	49184056		0.865	1.00	-13.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/48 Calibration Date: 04/01/2013 20:52

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 13:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 14:13

Lab File ID: P1200048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.54	2.49	2.59
PCB-1248 Peak 2	2.99	2.94	3.04
PCB-1248 Peak 3	3.62	3.57	3.67
PCB-1248 Peak 4	4.06	4.01	4.11
PCB-1248 Peak 5	4.74	4.69	4.79

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200048.D
Lims ID: ICV 1248 Client ID:
Inject. Date: 01-Apr-2013 20:52:36 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-048
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 48
Lims Batch ID: 80043 Lims Sample ID: 48
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.865	1.863	0.002	11638395	0.9398		100.0	
1	2	2.264	2.264	0.000	29168793	0.8997	236.7- 286.7	250.6	
1	3	2.773	2.773	0.000	30857685	0.8420	270.2- 320.2	265.1	
1	4	3.356	3.356	0.000	17454018	0.8310	145.6- 195.6	150.0	
1	5	3.791	3.792	-0.001	16271866	0.8586	127.6- 177.6	139.8	
			Average of Peak Amounts =			0.8742			
2	6	2.536	2.535	0.001	32923343	0.9274		100.0	
2	7	2.991	2.989	0.002	87447352	0.9222	235.6- 295.6	265.6	
2	8	3.617	3.617	0.000	72842173	0.8369	215.6- 275.6	221.2	
2	9	4.061	4.062	-0.001	87816843	0.8425	261.1- 321.1	266.7	
2	10	4.741	4.740	0.001	49184056	0.8650	131.8- 191.8	149.4	
			Average of Peak Amounts =			0.8788			
						RPD = 0.52			

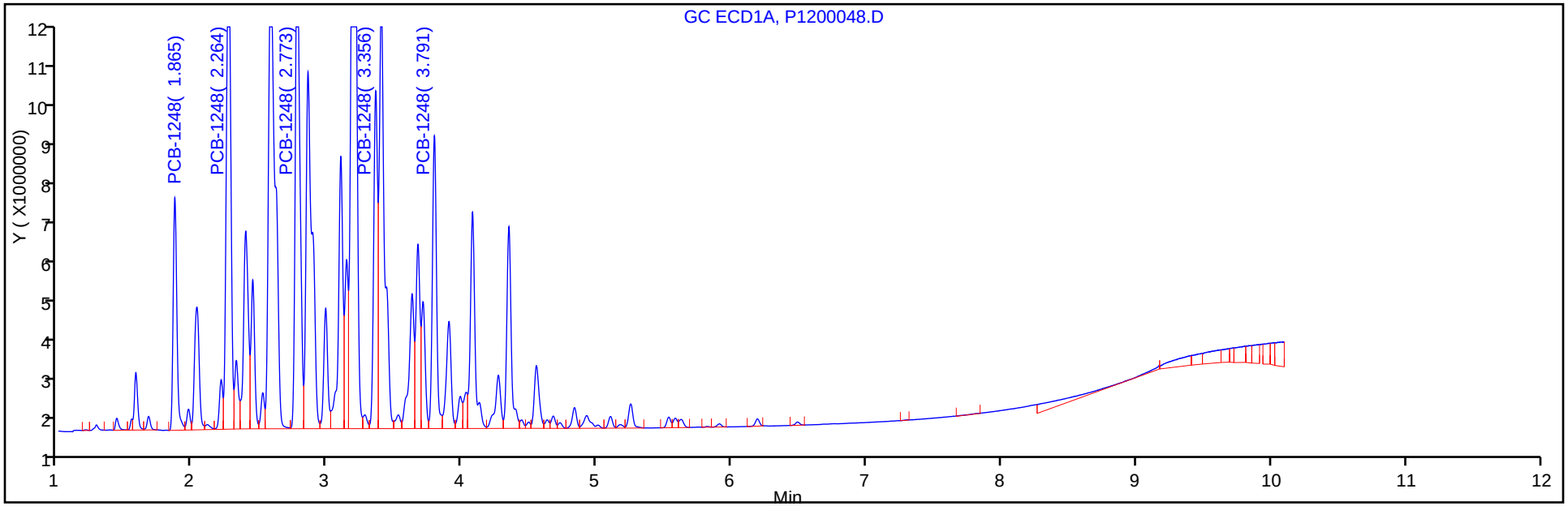
Report Date: 02-Apr-2013 07:01:34 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

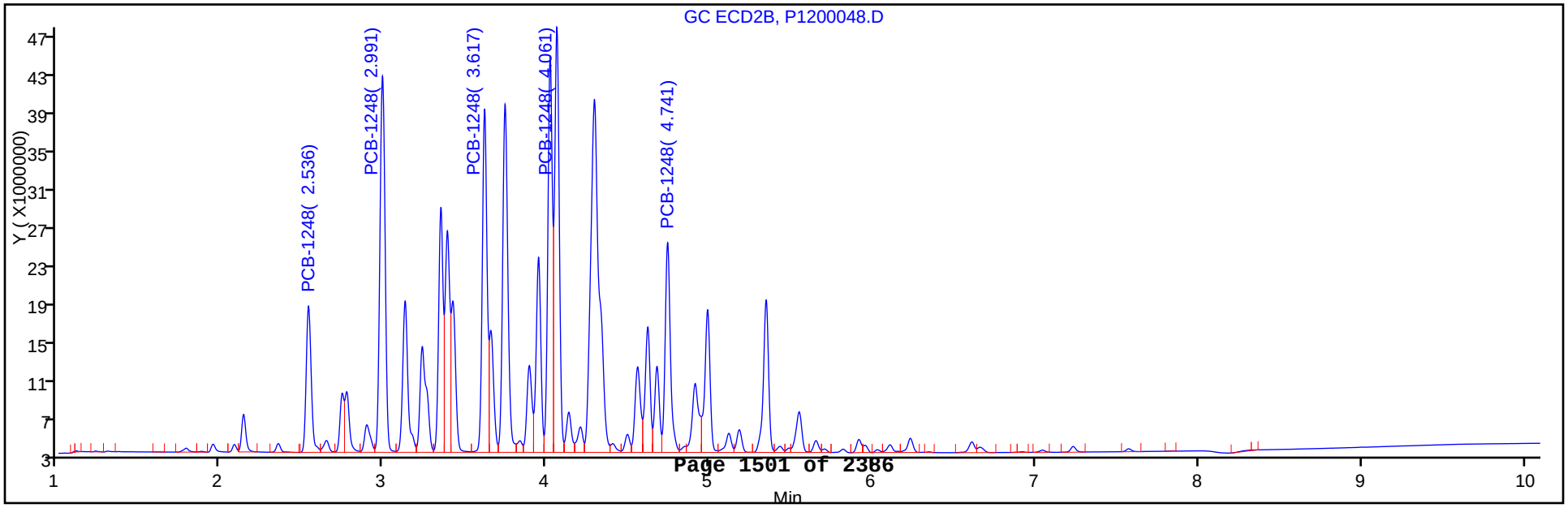
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200048.D

Injection Date:	01-Apr-2013 20:52:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/49 Calibration Date: 04/01/2013 21:06

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200049.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	58490055	50550323		0.864	1.00	-13.6	20.0
PCB-1254 Peak 2	Ave	60238638	55159163		0.916	1.00	-8.4	20.0
PCB-1254 Peak 3	Ave	50334674	46750690		0.929	1.00	-7.1	20.0
PCB-1254 Peak 4	Ave	43289828	40351371		0.932	1.00	-6.8	20.0
PCB-1254 Peak 5	Ave	61999384	59941725		0.967	1.00	-3.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/49 Calibration Date: 04/01/2013 21:06

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200049.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	3.40	3.35	3.45
PCB-1254 Peak 2	3.79	3.74	3.84
PCB-1254 Peak 3	4.08	4.03	4.13
PCB-1254 Peak 4	4.27	4.22	4.32
PCB-1254 Peak 5	4.55	4.50	4.60

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200049.D
Lims ID: ICV 1254 Client ID:
Inject. Date: 01-Apr-2013 21:06:39 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-049
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 49
Lims Batch ID: 80043 Lims Sample ID: 49
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 PCB-1254									
1	100	3.404	3.404	0.000	50550323	0.8643		100.0	
1	2	3.792	3.792	0.000	55159163	0.9157	74.5- 124.5	109.1	
1	3	4.075	4.075	0.000	46750690	0.9288	64.0- 114.0	92.5	
1	4	4.267	4.269	-0.002	40351371	0.9321	50.5- 100.5	79.8	
1	5	4.549	4.550	-0.001	59941725	0.9668	82.9- 132.9	118.6	
			Average of Peak Amounts =			0.9215			
2	6	4.267	4.268	-0.001	101964906	0.9059		100.0	
2	7	4.740	4.741	-0.001	163687133	0.9405	124.4- 184.4	160.5	
2	8	4.985	4.986	-0.001	115106436	0.9374	78.3- 138.3	112.9	
2	9	5.345	5.345	0.000	137076834	0.9626	95.8- 155.8	134.4	
2	10	5.549	5.549	0.000	169515494	1.01	119.6- 179.6	166.2	
			Average of Peak Amounts =			0.9508			
						RPD = 3.13			

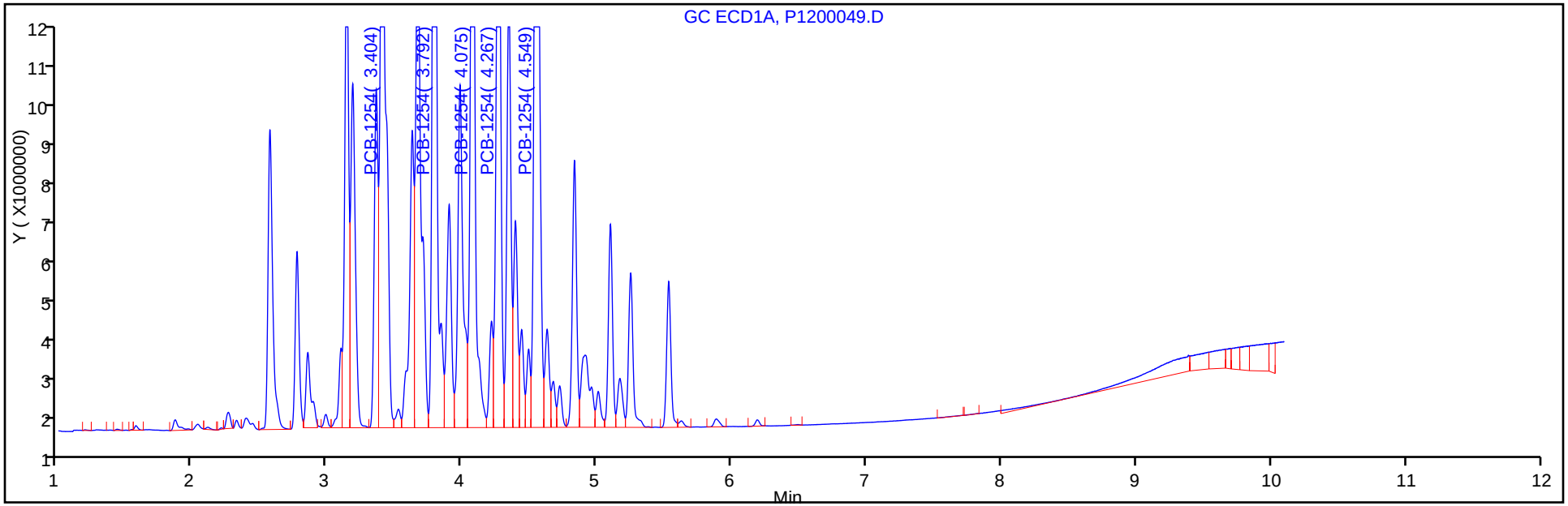
Report Date: 02-Apr-2013 07:01:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

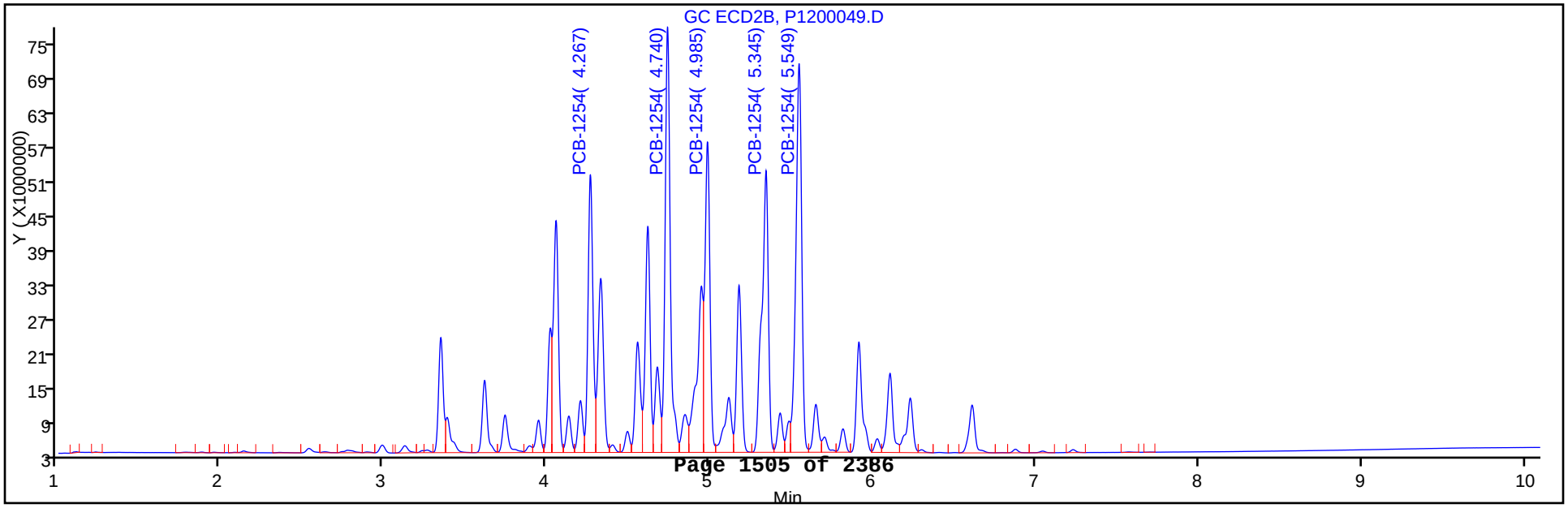
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200049.D

Injection Date:	01-Apr-2013 21:06:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/49 Calibration Date: 04/01/2013 21:06

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200049.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	112551906	101964906		0.906	1.00	-9.4	20.0
PCB-1254 Peak 2	Ave	174041722	163687133		0.941	1.00	-5.9	20.0
PCB-1254 Peak 3	Ave	122787540	115106436		0.937	1.00	-6.3	20.0
PCB-1254 Peak 4	Ave	142403158	137076834		0.963	1.00	-3.7	20.0
PCB-1254 Peak 5	Ave	168222990	169515494		1.01	1.00	0.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/49 Calibration Date: 04/01/2013 21:06

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 14:28

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 15:39

Lab File ID: P1200049.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	4.27	4.22	4.32
PCB-1254 Peak 2	4.74	4.69	4.79
PCB-1254 Peak 3	4.99	4.94	5.04
PCB-1254 Peak 4	5.35	5.30	5.40
PCB-1254 Peak 5	5.55	5.50	5.60

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200049.D
Lims ID: ICV 1254 Client ID:
Inject. Date: 01-Apr-2013 21:06:39 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-049
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 49
Lims Batch ID: 80043 Lims Sample ID: 49
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 PCB-1254									
1	100	3.404	3.404	0.000	50550323	0.8643		100.0	
1	2	3.792	3.792	0.000	55159163	0.9157	74.5- 124.5	109.1	
1	3	4.075	4.075	0.000	46750690	0.9288	64.0- 114.0	92.5	
1	4	4.267	4.269	-0.002	40351371	0.9321	50.5- 100.5	79.8	
1	5	4.549	4.550	-0.001	59941725	0.9668	82.9- 132.9	118.6	
			Average of Peak Amounts =			0.9215			
2	6	4.267	4.268	-0.001	101964906	0.9059		100.0	
2	7	4.740	4.741	-0.001	163687133	0.9405	124.4- 184.4	160.5	
2	8	4.985	4.986	-0.001	115106436	0.9374	78.3- 138.3	112.9	
2	9	5.345	5.345	0.000	137076834	0.9626	95.8- 155.8	134.4	
2	10	5.549	5.549	0.000	169515494	1.01	119.6- 179.6	166.2	
			Average of Peak Amounts =			0.9508			
						RPD = 3.13			

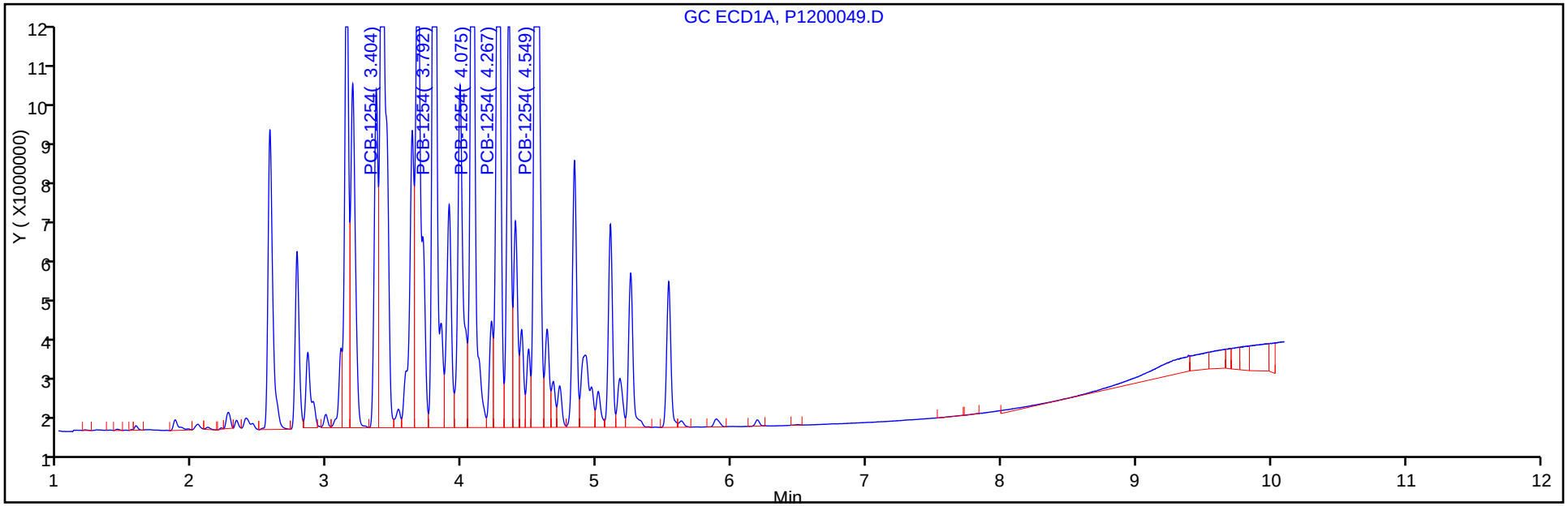
Report Date: 02-Apr-2013 07:01:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

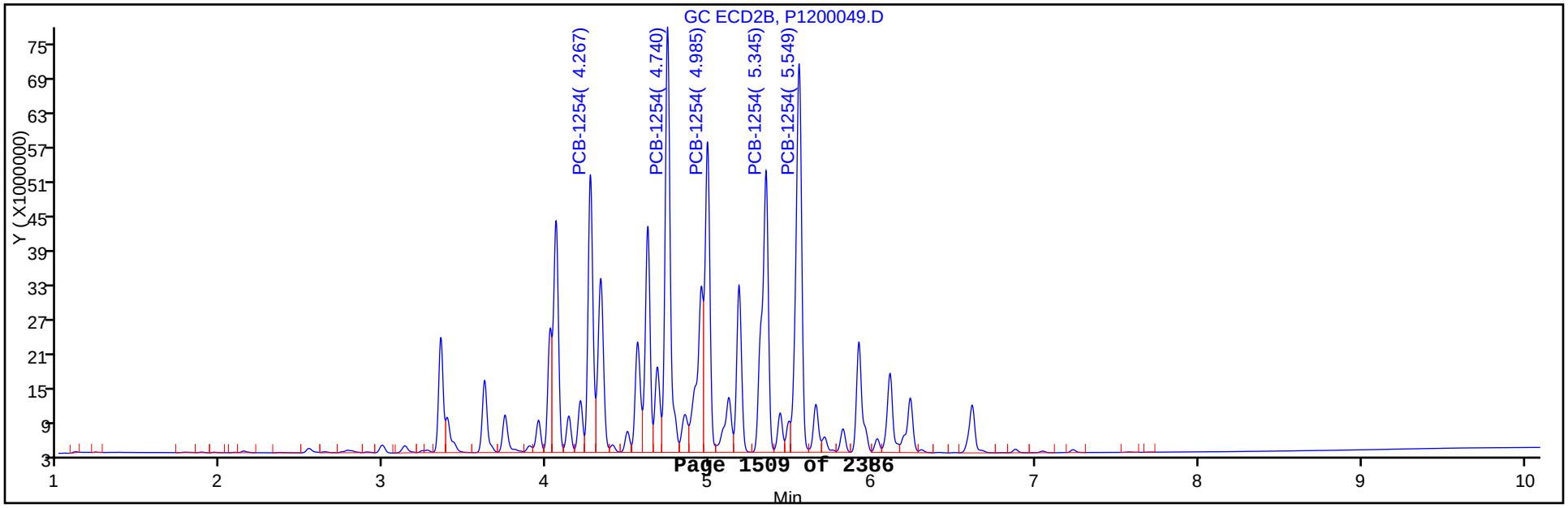
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200049.D

Injection Date:	01-Apr-2013 21:06:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/50 Calibration Date: 04/01/2013 21:20

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200050.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	16186104	14696514		0.908	1.00	-9.2	20.0
PCB-1016 Peak 2	Ave	30075346	29640384		0.986	1.00	-1.4	20.0
PCB-1016 Peak 3	Ave	63982891	66932016		1.05	1.00	4.6	20.0
PCB-1016 Peak 4	Ave	27020466	27200657		1.01	1.00	0.7	20.0
PCB-1016 Peak 5	Ave	28253356	27699213		0.980	1.00	-2.0	20.0
PCB-1260 Peak 1	Ave	43598192	41686475		0.956	1.00	-4.4	20.0
PCB-1260 Peak 2	Ave	86122108	83974029		0.975	1.00	-2.5	20.0
PCB-1260 Peak 3	Ave	84445888	77199062		0.914	1.00	-8.6	20.0
PCB-1260 Peak 4	Ave	118319074	140884757		1.19	1.00	19.1	20.0
PCB-1260 Peak 5	Ave	56124257	61213576		1.09	1.00	9.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/50 Calibration Date: 04/01/2013 21:20

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200050.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.58	1.53	1.63
PCB-1016 Peak 2	1.87	1.82	1.92
PCB-1016 Peak 3	2.27	2.22	2.32
PCB-1016 Peak 4	2.39	2.34	2.44
PCB-1016 Peak 5	2.77	2.72	2.82
PCB-1260 Peak 1	3.98	3.93	4.03
PCB-1260 Peak 2	4.27	4.22	4.32
PCB-1260 Peak 3	4.55	4.50	4.60
PCB-1260 Peak 4	5.25	5.20	5.30
PCB-1260 Peak 5	5.53	5.48	5.58

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200050.D
Lims ID: ICV 1660 Client ID:
Inject. Date: 01-Apr-2013 21:20:53 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-050
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 50
Lims Batch ID: 80043 Lims Sample ID: 50
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
6 PCB-1016									
1	100	1.576	1.576	0.000	14696514	0.9080		100.0	
1	2	1.866	1.867	-0.001	29640384	0.9855	165.5- 215.5	201.7	
1	3	2.267	2.267	0.000	66932016	1.05	356.7- 406.7	455.4	
1	4	2.389	2.389	0.000	27200657	1.01	144.0- 194.0	185.1	
1	5	2.774	2.774	0.000	27699213	0.9804	153.1- 203.1	188.5	
			Average of Peak Amounts =			0.9853			
2	6	2.138	2.137	0.001	41840052	0.9236		100.0	
2	7	2.538	2.537	0.001	87085521	1.00	165.6- 225.6	208.1	
2	8	2.993	2.992	0.001	197044596	1.08	366.1- 426.1	470.9	
2	9	3.131	3.131	0.000	82152081	1.04	144.6- 204.6	196.3	
2	10	3.618	3.617	0.001	63487604	0.9636	112.9- 172.9	151.7	
			Average of Peak Amounts =			1.00			
						RPD = 1.54			
10 PCB-1260									
1	100	3.982	3.982	0.000	41686475	0.9562		100.0	
1	2	4.269	4.270	-0.001	83974029	0.9751	172.1- 222.1	201.4	
1	3	4.549	4.549	0.000	77199062	0.9142	168.4- 218.4	185.2	
1	4	5.249	5.249	0.000	140884757	1.19	244.3- 294.3	338.0	
1	5	5.529	5.532	-0.003	61213576	1.09	104.3- 154.3	146.8	
			Average of Peak Amounts =			1.03			
2	6	4.949	4.951	-0.002	124509373	0.9588		100.0	
2	7	5.181	5.182	-0.001	143909090	0.99	80.1- 140.1	115.6	
2	8	5.548	5.547	0.001	215622179	0.9328	146.6- 206.6	173.2	
2	9	6.231	6.232	-0.001	328851587	1.22	174.1- 234.1	264.1	
2	10	6.610	6.611	-0.001	232003523	1.16	121.8- 181.8	186.3	
			Average of Peak Amounts =			1.05			
						RPD = 2.66			

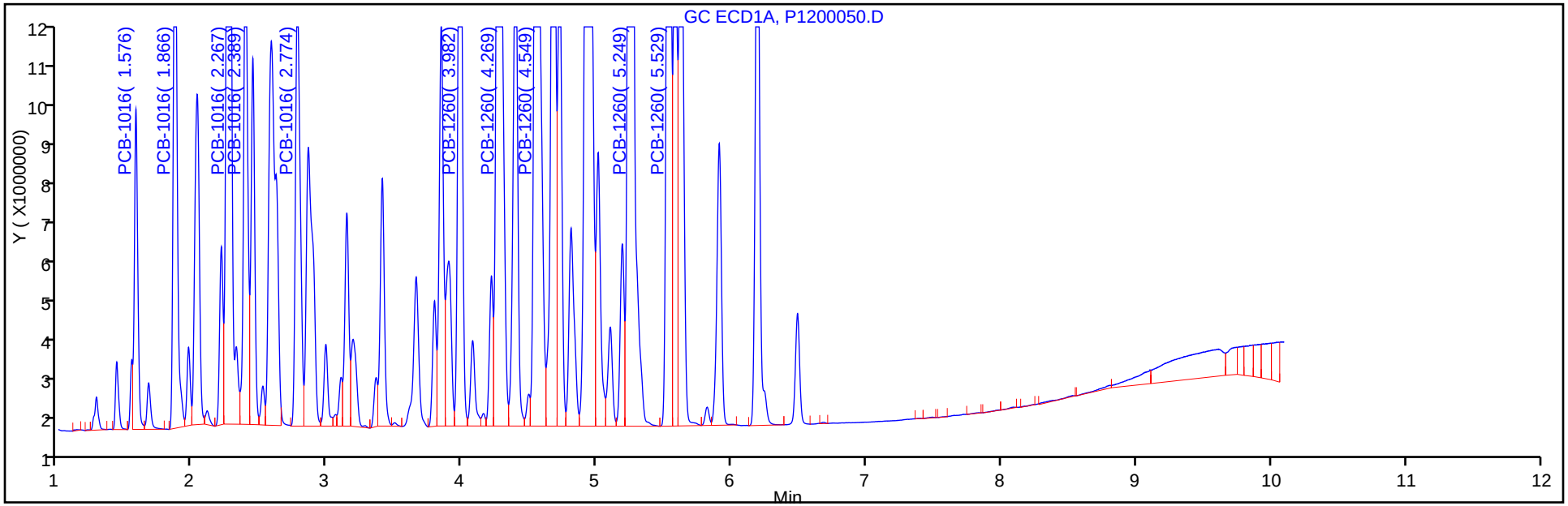
Report Date: 02-Apr-2013 07:01:39 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

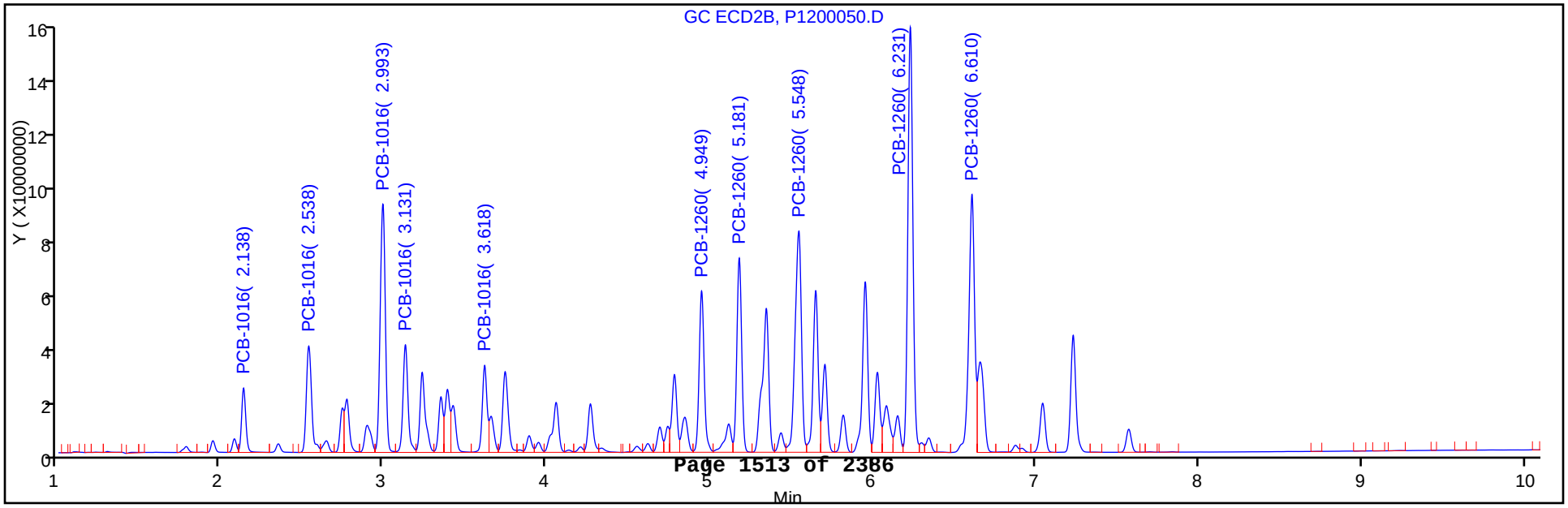
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200050.D

Injection Date:	01-Apr-2013 21:20:53	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	50
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/50 Calibration Date: 04/01/2013 21:20

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200050.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	45299578	41840052		0.924	1.00	-7.6	20.0
PCB-1016 Peak 2	Ave	87494510	87085521		0.995	1.00	-0.5	20.0
PCB-1016 Peak 3	Ave	181900224	197044596		1.08	1.00	8.3	20.0
PCB-1016 Peak 4	Ave	79207688	82152081		1.04	1.00	3.7	20.0
PCB-1016 Peak 5	Ave	65886914	63487604		0.964	1.00	-3.6	20.0
PCB-1260 Peak 1	Ave	129864022	124509373		0.959	1.00	-4.1	20.0
PCB-1260 Peak 2	Ave	145267081	143909090		0.991	1.00	-0.9	20.0
PCB-1260 Peak 3	Ave	231145923	215622179		0.933	1.00	-6.7	20.0
PCB-1260 Peak 4	Ave	268767373	328851587		1.22	1.00	22.4*	20.0
PCB-1260 Peak 5	Ave	200141995	232003523		1.16	1.00	15.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 240-80043/50 Calibration Date: 04/01/2013 21:20

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200050.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.14	2.09	2.19
PCB-1016 Peak 2	2.54	2.49	2.59
PCB-1016 Peak 3	2.99	2.94	3.04
PCB-1016 Peak 4	3.13	3.08	3.18
PCB-1016 Peak 5	3.62	3.57	3.67
PCB-1260 Peak 1	4.95	4.90	5.00
PCB-1260 Peak 2	5.18	5.13	5.23
PCB-1260 Peak 3	5.55	5.50	5.60
PCB-1260 Peak 4	6.23	6.18	6.28
PCB-1260 Peak 5	6.61	6.56	6.66

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200050.D
Lims ID: ICV 1660 Client ID:
Inject. Date: 01-Apr-2013 21:20:53 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018420-050
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 ul ALS Bottle#: 50
Lims Batch ID: 80043 Lims Sample ID: 50
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\PCB12.m
Last Update: 02-Apr-2013 07:01:24 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK018

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
6 PCB-1016									
1	100	1.576	1.576	0.000	14696514	0.9080		100.0	
1	2	1.866	1.867	-0.001	29640384	0.9855	165.5- 215.5	201.7	
1	3	2.267	2.267	0.000	66932016	1.05	356.7- 406.7	455.4	
1	4	2.389	2.389	0.000	27200657	1.01	144.0- 194.0	185.1	
1	5	2.774	2.774	0.000	27699213	0.9804	153.1- 203.1	188.5	
			Average of Peak Amounts =			0.9853			
2	6	2.138	2.137	0.001	41840052	0.9236		100.0	
2	7	2.538	2.537	0.001	87085521	1.00	165.6- 225.6	208.1	
2	8	2.993	2.992	0.001	197044596	1.08	366.1- 426.1	470.9	
2	9	3.131	3.131	0.000	82152081	1.04	144.6- 204.6	196.3	
2	10	3.618	3.617	0.001	63487604	0.9636	112.9- 172.9	151.7	
			Average of Peak Amounts =			1.00			
						RPD = 1.54			
10 PCB-1260									
1	100	3.982	3.982	0.000	41686475	0.9562		100.0	
1	2	4.269	4.270	-0.001	83974029	0.9751	172.1- 222.1	201.4	
1	3	4.549	4.549	0.000	77199062	0.9142	168.4- 218.4	185.2	
1	4	5.249	5.249	0.000	140884757	1.19	244.3- 294.3	338.0	
1	5	5.529	5.532	-0.003	61213576	1.09	104.3- 154.3	146.8	
			Average of Peak Amounts =			1.03			
2	6	4.949	4.951	-0.002	124509373	0.9588		100.0	
2	7	5.181	5.182	-0.001	143909090	0.99	80.1- 140.1	115.6	
2	8	5.548	5.547	0.001	215622179	0.9328	146.6- 206.6	173.2	
2	9	6.231	6.232	-0.001	328851587	1.22	174.1- 234.1	264.1	
2	10	6.610	6.611	-0.001	232003523	1.16	121.8- 181.8	186.3	
			Average of Peak Amounts =			1.05			
						RPD = 2.66			

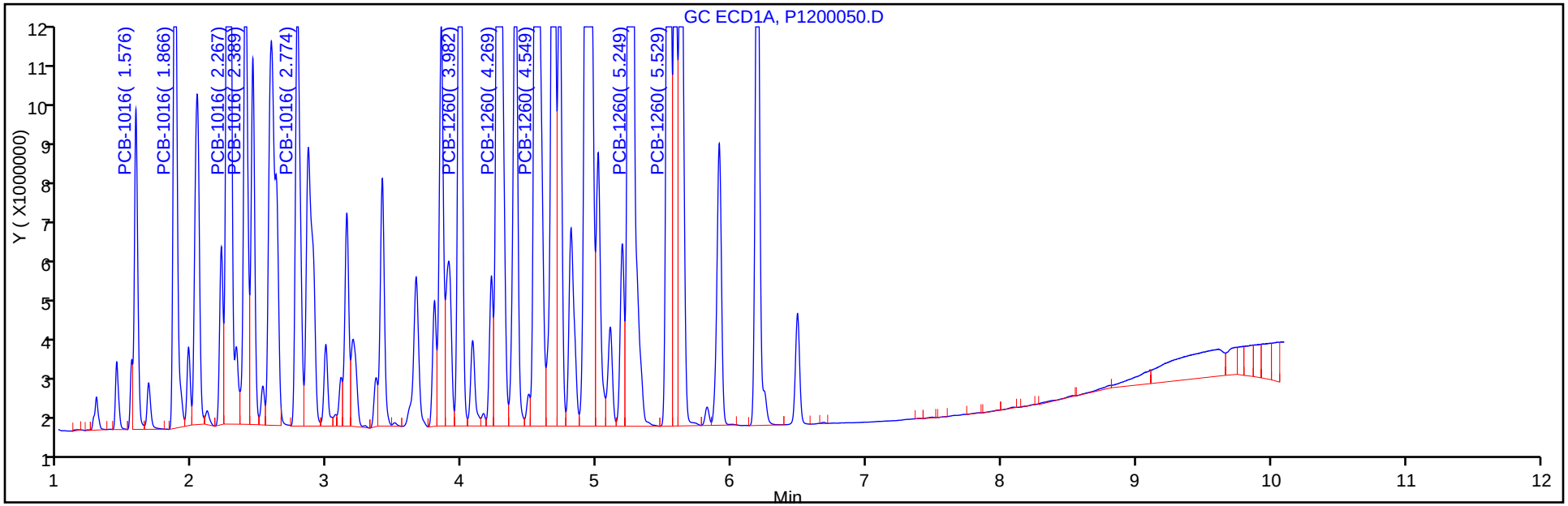
Report Date: 02-Apr-2013 07:01:39 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

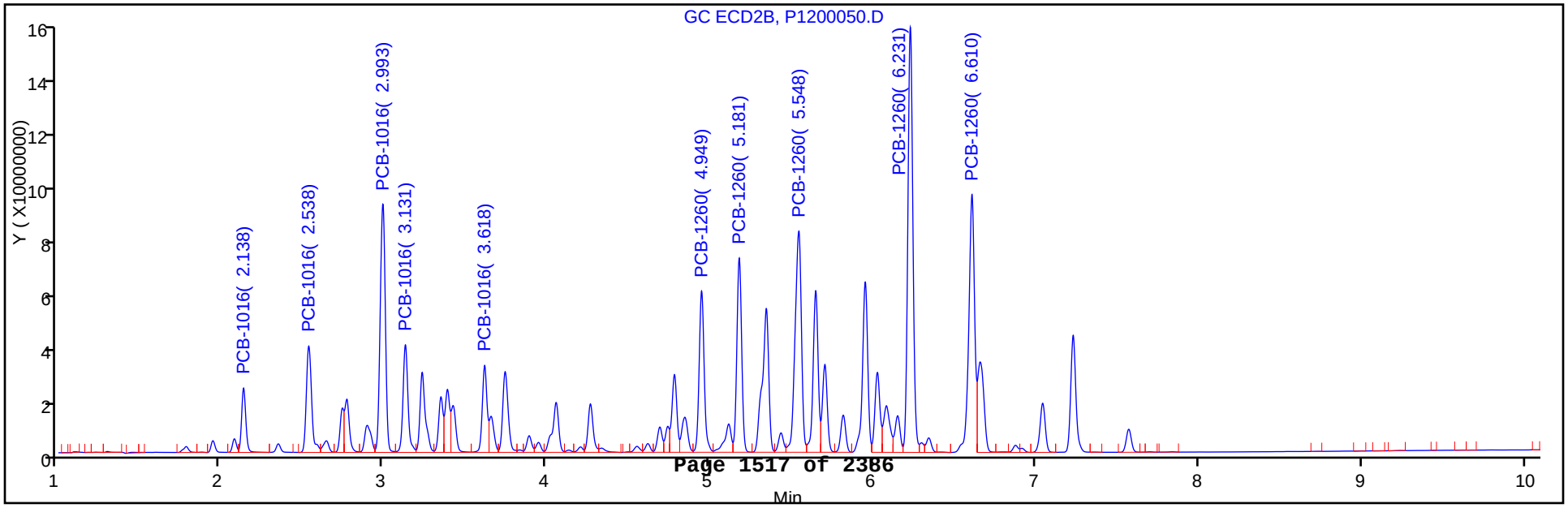
Data File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200050.D

Injection Date:	01-Apr-2013 21:20:53	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80043	Lims Sample ID:	50
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/3 Calibration Date: 04/03/2013 13:16

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	16186104	16207842		0.501	0.500	0.1	20.0
PCB-1016 Peak 2	Ave	30075346	29369460		0.488	0.500	-2.3	20.0
PCB-1016 Peak 3	Ave	63982891	63293346		0.495	0.500	-1.1	20.0
PCB-1016 Peak 4	Ave	27020466	27380328		0.507	0.500	1.3	20.0
PCB-1016 Peak 5	Ave	28253356	27865634		0.493	0.500	-1.4	20.0
PCB-1260 Peak 1	Ave	43598192	42283946		0.485	0.500	-3.0	20.0
PCB-1260 Peak 2	Ave	86122108	84081296		0.488	0.500	-2.4	20.0
PCB-1260 Peak 3	Ave	84445888	84594416		0.501	0.500	0.2	20.0
PCB-1260 Peak 4	Ave	118319074	119228316		0.504	0.500	0.8	20.0
PCB-1260 Peak 5	Ave	56124257	55710634		0.496	0.500	-0.7	20.0
Tetrachloro-m-xylene	Ave	980852090	914517040		0.0233	0.0250	-6.8	20.0
DCB Decachlorobiphenyl	Ave	1020004033	993382360		0.0243	0.0250	-2.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/3 Calibration Date: 04/03/2013 13:16

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.58	1.53	1.63
PCB-1016 Peak 2	1.87	1.82	1.92
PCB-1016 Peak 3	2.27	2.22	2.32
PCB-1016 Peak 4	2.39	2.34	2.44
PCB-1016 Peak 5	2.78	2.73	2.83
PCB-1260 Peak 1	3.98	3.93	4.03
PCB-1260 Peak 2	4.27	4.22	4.32
PCB-1260 Peak 3	4.55	4.50	4.60
PCB-1260 Peak 4	5.25	5.20	5.30
PCB-1260 Peak 5	5.53	5.48	5.58
Tetrachloro-m-xylene	1.30	1.25	1.35
DCB Decachlorobiphenyl	6.68	6.63	6.73

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200003.D		
Lims ID:	CCV AR1660	Client ID:	
Inject. Date:	03-Apr-2013 13:16:38	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0018511-003		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	3
Lims Batch ID:	80431	Lims Sample ID:	3
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:09:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	22862926	0.0233			
2	2	1.672	1.672	0.000	64115646	0.0240			
						RPD = 3.00			
6 PCB-1016									M
1	100	1.578	1.578	0.000	8103921	0.5007		100.0	M
1	2	1.869	1.869	0.000	14684730	0.4883	165.5- 215.5	181.2	
1	3	2.268	2.268	0.000	31646673	0.4946	356.7- 406.7	390.5	
1	4	2.392	2.392	0.000	13690164	0.5067	144.0- 194.0	168.9	
1	5	2.776	2.776	0.000	13932817	0.4931	153.1- 203.1	171.9	
			Average of Peak Amounts =			0.4967			
2	6	2.138	2.138	0.000	21439321	0.4733		100.0	
2	7	2.538	2.538	0.000	42361094	0.4842	165.6- 225.6	197.6	
2	8	2.993	2.993	0.000	91977541	0.5056	366.1- 426.1	429.0	
2	9	3.131	3.131	0.000	38979761	0.4921	144.6- 204.6	181.8	
2	10	3.618	3.618	0.000	31192985	0.4734	112.9- 172.9	145.5	
			Average of Peak Amounts =			0.4857			
						RPD = 2.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	21141973	0.4849		100.0	
1	2	4.271	4.271	0.000	42040648	0.4882	172.1- 222.1	198.8	
1	3	4.548	4.548	0.000	42297208	0.5009	168.4- 218.4	200.1	
1	4	5.249	5.249	0.000	59614158	0.5038	244.3- 294.3	282.0	
1	5	5.532	5.532	0.000	27855317	0.4963	104.3- 154.3	131.8	
			Average of Peak Amounts =			0.4948			
2	6	4.948	4.948	0.000	63803973	0.4913		100.0	
2	7	5.180	5.180	0.000	71954226	0.4953	80.1- 140.1	112.8	
2	8	5.546	5.546	0.000	114347253	0.4947	146.6- 206.6	179.2	
2	9	6.230	6.230	0.000	132301085	0.4923	174.1- 234.1	207.4	
2	10	6.608	6.608	0.000	95568423	0.4775	121.8- 181.8	149.8	
			Average of Peak Amounts =			0.4902			
						RPD = 0.94			
$ 12 DCB Decachlorobiphenyl									
1	100	6.683	6.683	0.000	24834559	0.0243			
2	2	7.838	7.838	0.000	65613611	0.0222			
						RPD = 9.32			

QC Flag Legend

Review Flags
M - Manually Integrated

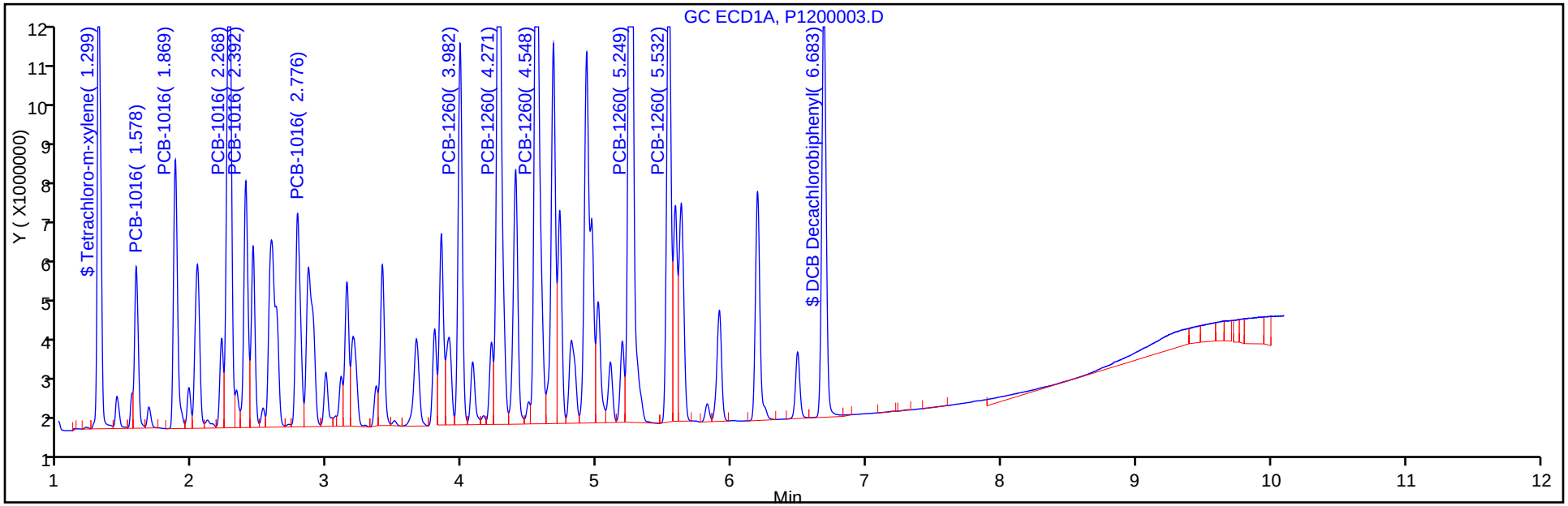
Report Date: 04-Apr-2013 07:27:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

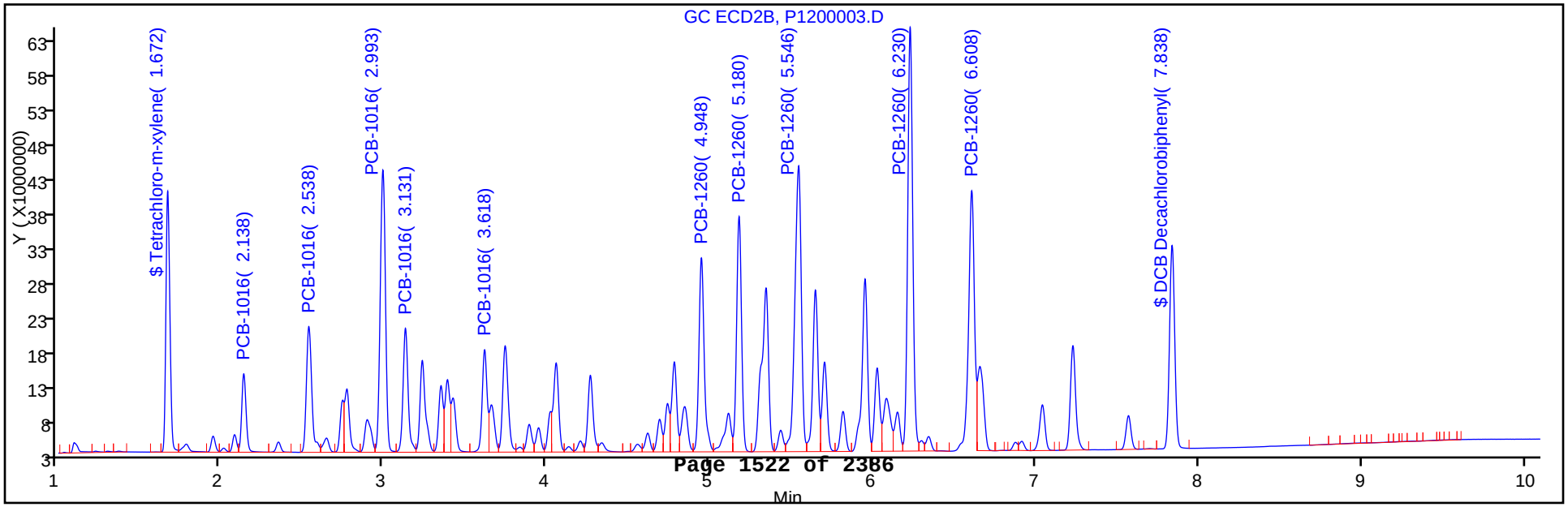
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200003.D

Injection Date:	03-Apr-2013 13:16:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



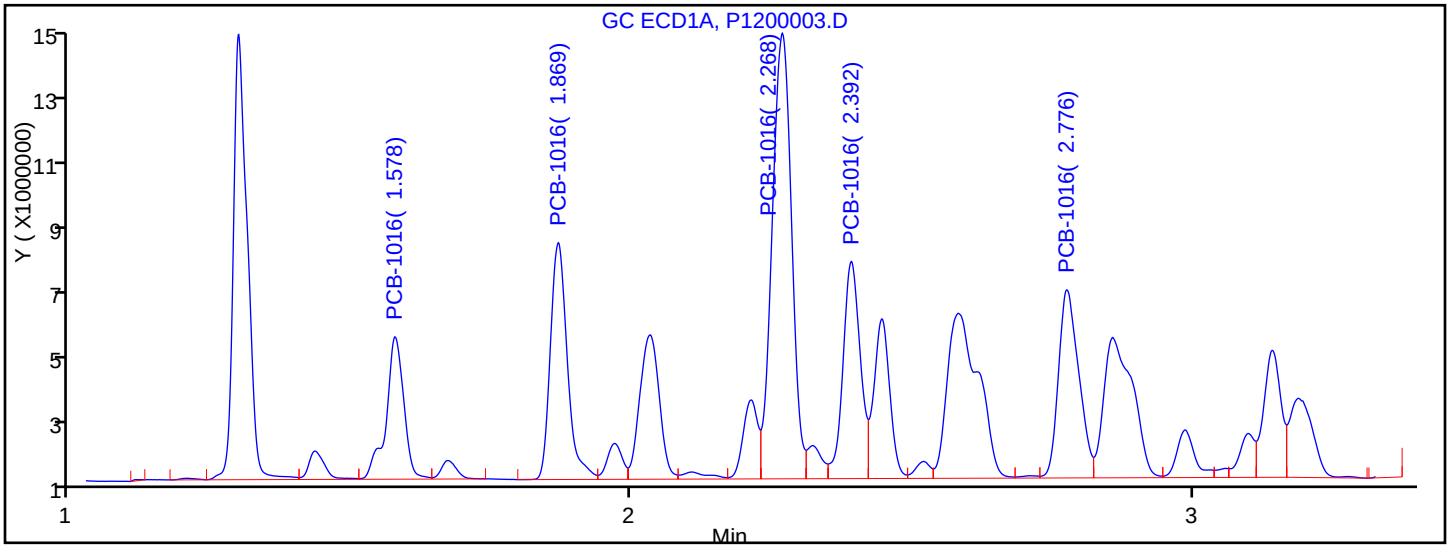
Report Date: 04-Apr-2013 07:27:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200003.D

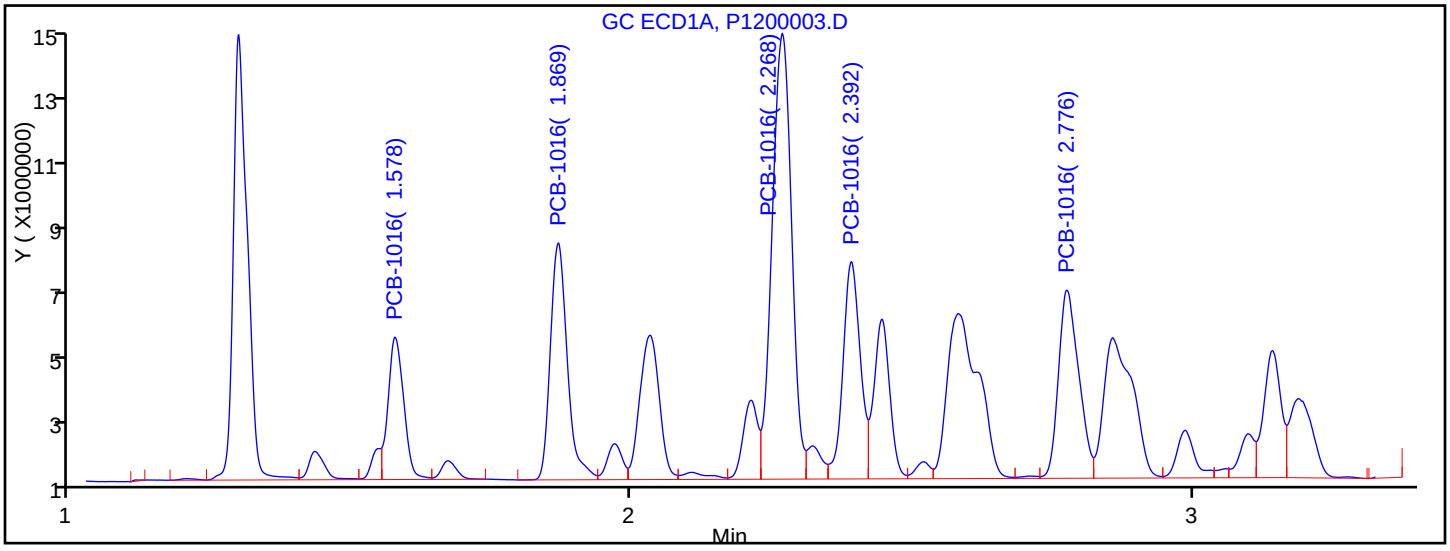
Injection Date:	03-Apr-2013 13:16:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.578	Response = 9206847	M
RT = 1.869	Response = 14684730	
RT = 2.268	Response = 31646673	
RT = 2.392	Response = 13690164	
RT = 2.776	Response = 13932817	



Manual Integration Results

RT = 1.578	Response = 8103921	M
RT = 1.869	Response = 14684730	
RT = 2.268	Response = 31646673	
RT = 2.392	Response = 13690164	
RT = 2.776	Response = 13932817	

Reviewer: hassl, 04-Apr-2013 07:09:21

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/3 Calibration Date: 04/03/2013 13:16

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	45299578	42878642		0.473	0.500	-5.3	20.0
PCB-1016 Peak 2	Ave	87494510	84722188		0.484	0.500	-3.2	20.0
PCB-1016 Peak 3	Ave	181900224	183955082		0.506	0.500	1.1	20.0
PCB-1016 Peak 4	Ave	79207688	77959522		0.492	0.500	-1.6	20.0
PCB-1016 Peak 5	Ave	65886914	62385970		0.473	0.500	-5.3	20.0
PCB-1260 Peak 1	Ave	129864022	127607946		0.491	0.500	-1.7	20.0
PCB-1260 Peak 2	Ave	145267081	143908452		0.495	0.500	-0.9	20.0
PCB-1260 Peak 3	Ave	231145923	228694506		0.495	0.500	-1.1	20.0
PCB-1260 Peak 4	Ave	268767373	264602170		0.492	0.500	-1.5	20.0
PCB-1260 Peak 5	Ave	200141995	191136846		0.478	0.500	-4.5	20.0
Tetrachloro-m-xylene	Ave	2669425812	2564625840		0.0240	0.0250	-3.9	20.0
DCB Decachlorobiphenyl	Ave	2958379632	2624544440		0.0222	0.0250	-11.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/3 Calibration Date: 04/03/2013 13:16

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.14	2.09	2.19
PCB-1016 Peak 2	2.54	2.49	2.59
PCB-1016 Peak 3	2.99	2.94	3.04
PCB-1016 Peak 4	3.13	3.08	3.18
PCB-1016 Peak 5	3.62	3.57	3.67
PCB-1260 Peak 1	4.95	4.90	5.00
PCB-1260 Peak 2	5.18	5.13	5.23
PCB-1260 Peak 3	5.55	5.50	5.60
PCB-1260 Peak 4	6.23	6.18	6.28
PCB-1260 Peak 5	6.61	6.56	6.66
Tetrachloro-m-xylene	1.67	1.62	1.72
DCB Decachlorobiphenyl	7.84	7.79	7.89

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200003.D		
Lims ID:	CCV AR1660	Client ID:	
Inject. Date:	03-Apr-2013 13:16:38	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0018511-003		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	3
Lims Batch ID:	80431	Lims Sample ID:	3
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:09:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	22862926	0.0233			
2	2	1.672	1.672	0.000	64115646	0.0240			
						RPD = 3.00			
6 PCB-1016									M
1	100	1.578	1.578	0.000	8103921	0.5007		100.0	M
1	2	1.869	1.869	0.000	14684730	0.4883	165.5- 215.5	181.2	
1	3	2.268	2.268	0.000	31646673	0.4946	356.7- 406.7	390.5	
1	4	2.392	2.392	0.000	13690164	0.5067	144.0- 194.0	168.9	
1	5	2.776	2.776	0.000	13932817	0.4931	153.1- 203.1	171.9	
			Average of Peak Amounts =			0.4967			
2	6	2.138	2.138	0.000	21439321	0.4733		100.0	
2	7	2.538	2.538	0.000	42361094	0.4842	165.6- 225.6	197.6	
2	8	2.993	2.993	0.000	91977541	0.5056	366.1- 426.1	429.0	
2	9	3.131	3.131	0.000	38979761	0.4921	144.6- 204.6	181.8	
2	10	3.618	3.618	0.000	31192985	0.4734	112.9- 172.9	145.5	
			Average of Peak Amounts =			0.4857			
						RPD = 2.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.982	3.982	0.000	21141973	0.4849		100.0	
1	2	4.271	4.271	0.000	42040648	0.4882	172.1- 222.1	198.8	
1	3	4.548	4.548	0.000	42297208	0.5009	168.4- 218.4	200.1	
1	4	5.249	5.249	0.000	59614158	0.5038	244.3- 294.3	282.0	
1	5	5.532	5.532	0.000	27855317	0.4963	104.3- 154.3	131.8	
			Average of Peak Amounts =			0.4948			
2	6	4.948	4.948	0.000	63803973	0.4913		100.0	
2	7	5.180	5.180	0.000	71954226	0.4953	80.1- 140.1	112.8	
2	8	5.546	5.546	0.000	114347253	0.4947	146.6- 206.6	179.2	
2	9	6.230	6.230	0.000	132301085	0.4923	174.1- 234.1	207.4	
2	10	6.608	6.608	0.000	95568423	0.4775	121.8- 181.8	149.8	
			Average of Peak Amounts =			0.4902			
						RPD = 0.94			
$ 12 DCB Decachlorobiphenyl									
1	100	6.683	6.683	0.000	24834559	0.0243			
2	2	7.838	7.838	0.000	65613611	0.0222			
						RPD = 9.32			

QC Flag Legend

Review Flags
M - Manually Integrated

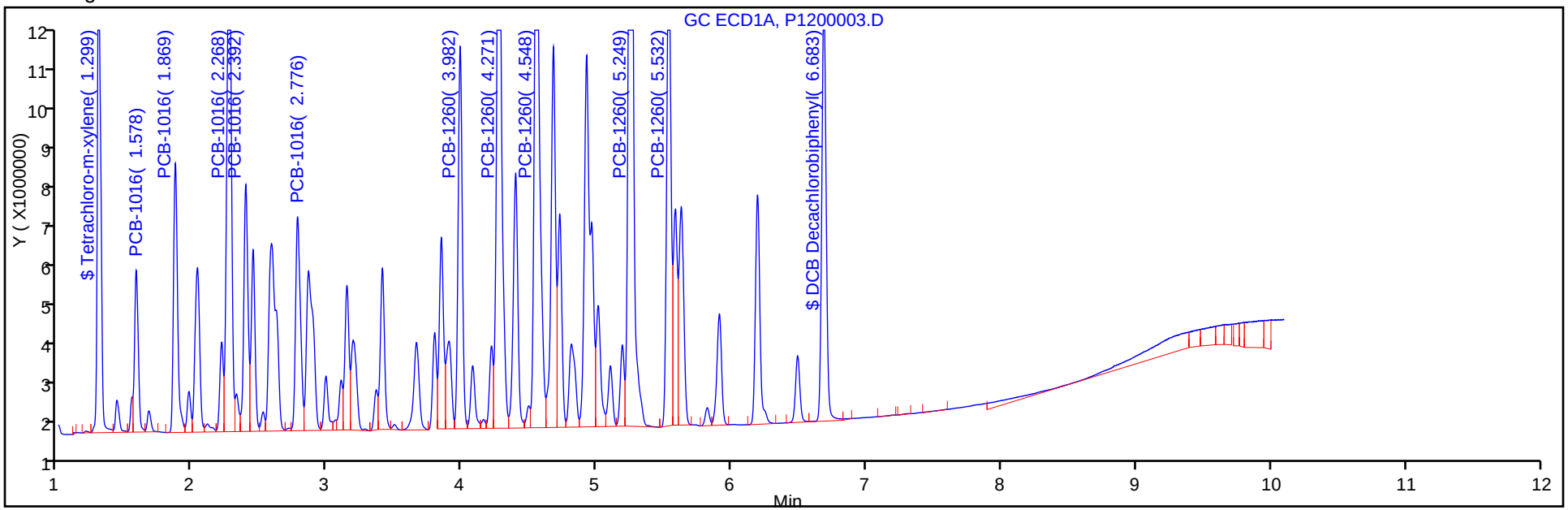
Report Date: 04-Apr-2013 07:27:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

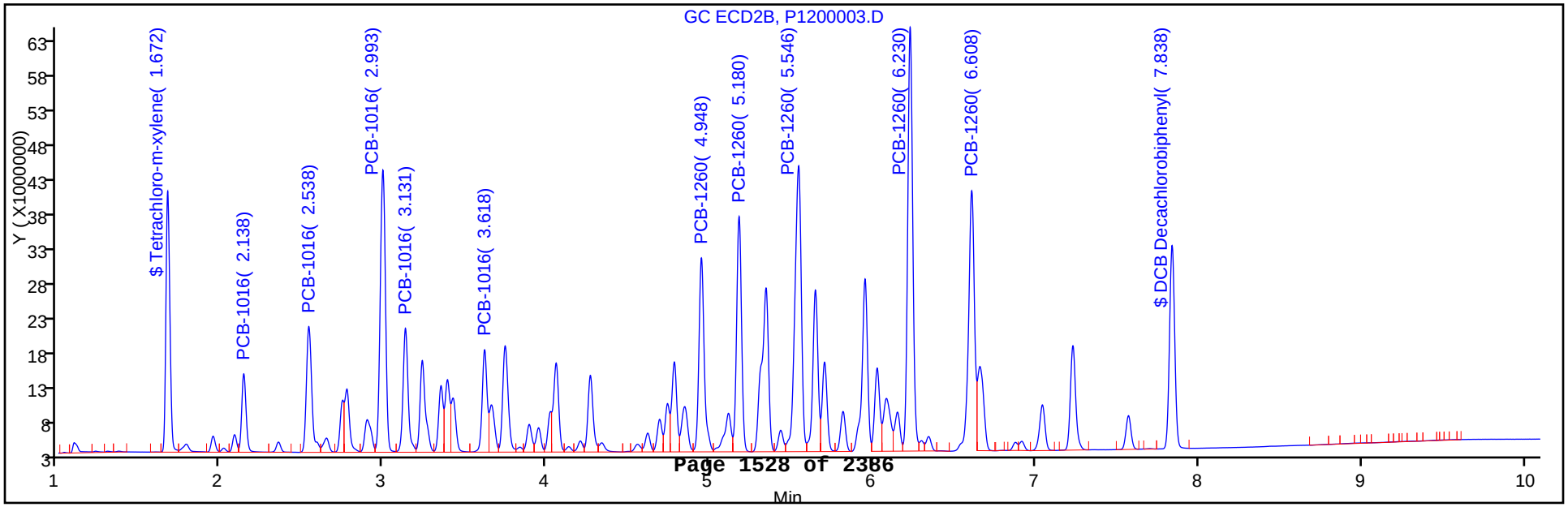
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200003.D

Injection Date:	03-Apr-2013 13:16:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/10 Calibration Date: 04/03/2013 14:56

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200010.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	16186104	16435378		0.508	0.500	1.5	20.0
PCB-1016 Peak 2	Ave	30075346	29260524		0.486	0.500	-2.7	20.0
PCB-1016 Peak 3	Ave	63982891	63547100		0.497	0.500	-0.7	20.0
PCB-1016 Peak 4	Ave	27020466	27292900		0.505	0.500	1.0	20.0
PCB-1016 Peak 5	Ave	28253356	27165536		0.481	0.500	-3.9	20.0
PCB-1260 Peak 1	Ave	43598192	41440540		0.475	0.500	-4.9	20.0
PCB-1260 Peak 2	Ave	86122108	82775826		0.481	0.500	-3.9	20.0
PCB-1260 Peak 3	Ave	84445888	83454242		0.494	0.500	-1.2	20.0
PCB-1260 Peak 4	Ave	118319074	118354546		0.500	0.500	0.0	20.0
PCB-1260 Peak 5	Ave	56124257	55568186		0.495	0.500	-1.0	20.0
Tetrachloro-m-xylene	Ave	980852090	921925760		0.0235	0.0250	-6.0	20.0
DCB Decachlorobiphenyl	Ave	1020004033	985130120		0.0241	0.0250	-3.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/10 Calibration Date: 04/03/2013 14:56

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200010.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.58	1.53	1.63
PCB-1016 Peak 2	1.87	1.82	1.92
PCB-1016 Peak 3	2.27	2.22	2.32
PCB-1016 Peak 4	2.39	2.34	2.44
PCB-1016 Peak 5	2.78	2.73	2.83
PCB-1260 Peak 1	3.98	3.93	4.03
PCB-1260 Peak 2	4.27	4.22	4.32
PCB-1260 Peak 3	4.55	4.50	4.60
PCB-1260 Peak 4	5.25	5.20	5.30
PCB-1260 Peak 5	5.53	5.48	5.58
Tetrachloro-m-xylene	1.30	1.25	1.35
DCB Decachlorobiphenyl	6.68	6.63	6.73

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200010.D		
Lims ID:	CCV AR1660	Client ID:	
Inject. Date:	03-Apr-2013 14:56:21	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018511-010		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	10
Lims Batch ID:	80431	Lims Sample ID:	10
Sublist:	chrom-PCB12*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:54	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:12:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	23048144	0.0235			
2	2	1.672	1.672	0.000	64185967	0.0240			
						RPD = 2.30			
6 PCB-1016									M
1	100	1.579	1.579	0.000	8217689	0.5077		100.0	M
1	2	1.869	1.869	0.000	14630262	0.4865	165.5- 215.5	178.0	
1	3	2.269	2.269	0.000	31773550	0.4966	356.7- 406.7	386.6	
1	4	2.391	2.391	0.000	13646450	0.5050	144.0- 194.0	166.1	
1	5	2.776	2.776	0.000	13582768	0.4807	153.1- 203.1	165.3	
			Average of Peak Amounts =			0.4953			
2	6	2.139	2.139	0.000	21142416	0.4667		100.0	
2	7	2.539	2.539	0.000	41599765	0.4755	165.6- 225.6	196.8	
2	8	2.994	2.994	0.000	90321296	0.4965	366.1- 426.1	427.2	
2	9	3.132	3.132	0.000	37399581	0.4722	144.6- 204.6	176.9	
2	10	3.619	3.619	0.000	29603762	0.4493	112.9- 172.9	140.0	
			Average of Peak Amounts =			0.4720			
						RPD = 4.81			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.983	3.983	0.000	20720270	0.4753		100.0	
1	2	4.271	4.271	0.000	41387913	0.4806	172.1- 222.1	199.7	
1	3	4.549	4.549	0.000	41727121	0.4941	168.4- 218.4	201.4	
1	4	5.248	5.248	0.000	59177273	0.5001	244.3- 294.3	285.6	
1	5	5.530	5.530	0.000	27784093	0.4950	104.3- 154.3	134.1	
			Average of Peak Amounts =			0.4890			
2	6	4.950	4.950	0.000	60852348	0.4686		100.0	
2	7	5.181	5.181	0.000	69358142	0.4775	80.1- 140.1	114.0	
2	8	5.546	5.546	0.000	111278835	0.4814	146.6- 206.6	182.9	
2	9	6.232	6.232	0.000	129190037	0.4807	174.1- 234.1	212.3	
2	10	6.610	6.610	0.000	94769496	0.4735	121.8- 181.8	155.7	
			Average of Peak Amounts =			0.4763			
						RPD = 2.63			
$ 12 DCB Decachlorobiphenyl									
1	100	6.681	6.681	0.000	24628253	0.0241			
2	2	7.841	7.841	0.000	65258833	0.0221			
						RPD = 9.03			

QC Flag Legend

Review Flags
M - Manually Integrated

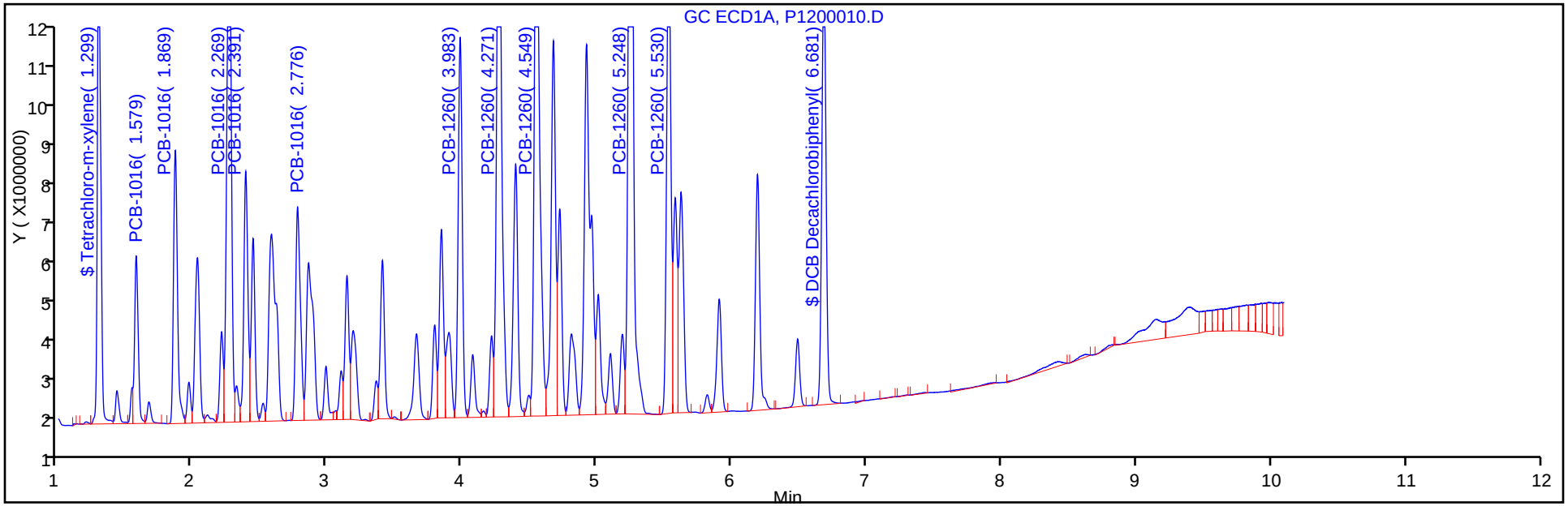
Report Date: 04-Apr-2013 07:27:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

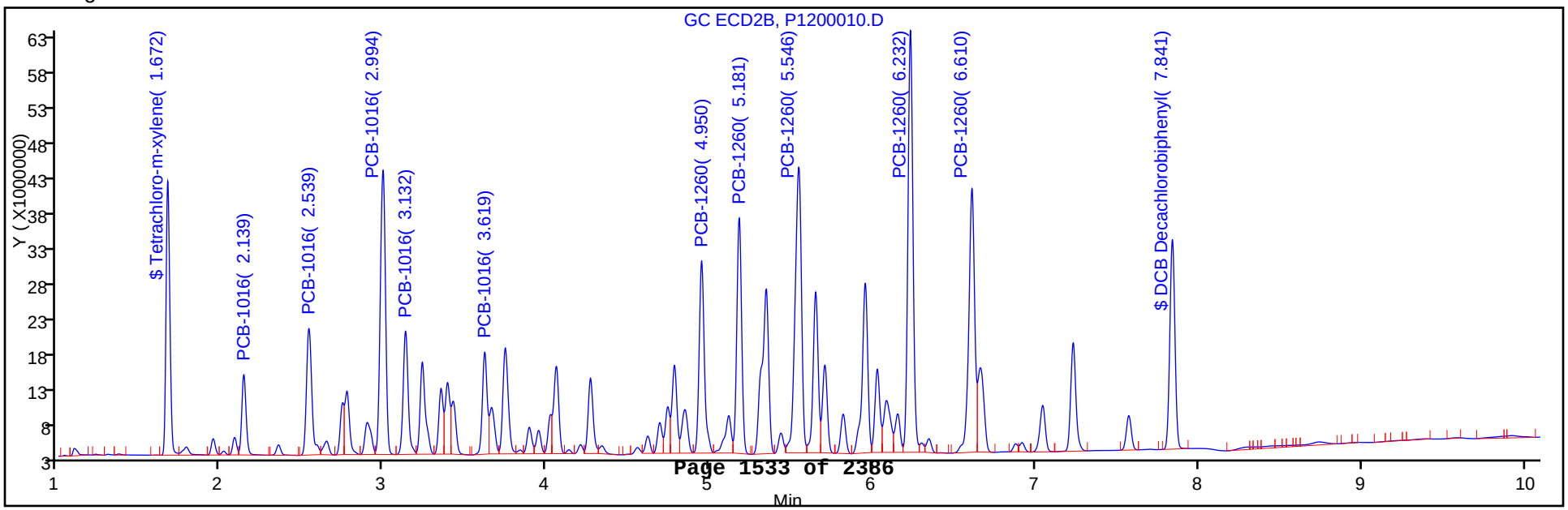
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200010.D

Injection Date:	03-Apr-2013 14:56:21	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



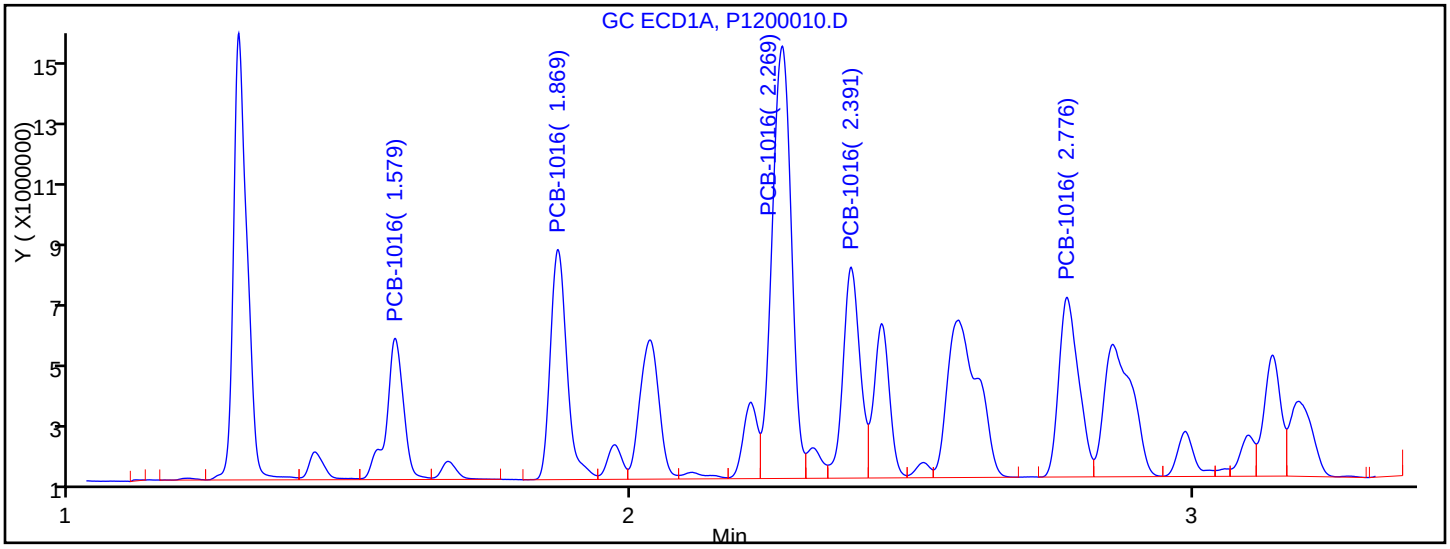
Report Date: 04-Apr-2013 07:27:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200010.D

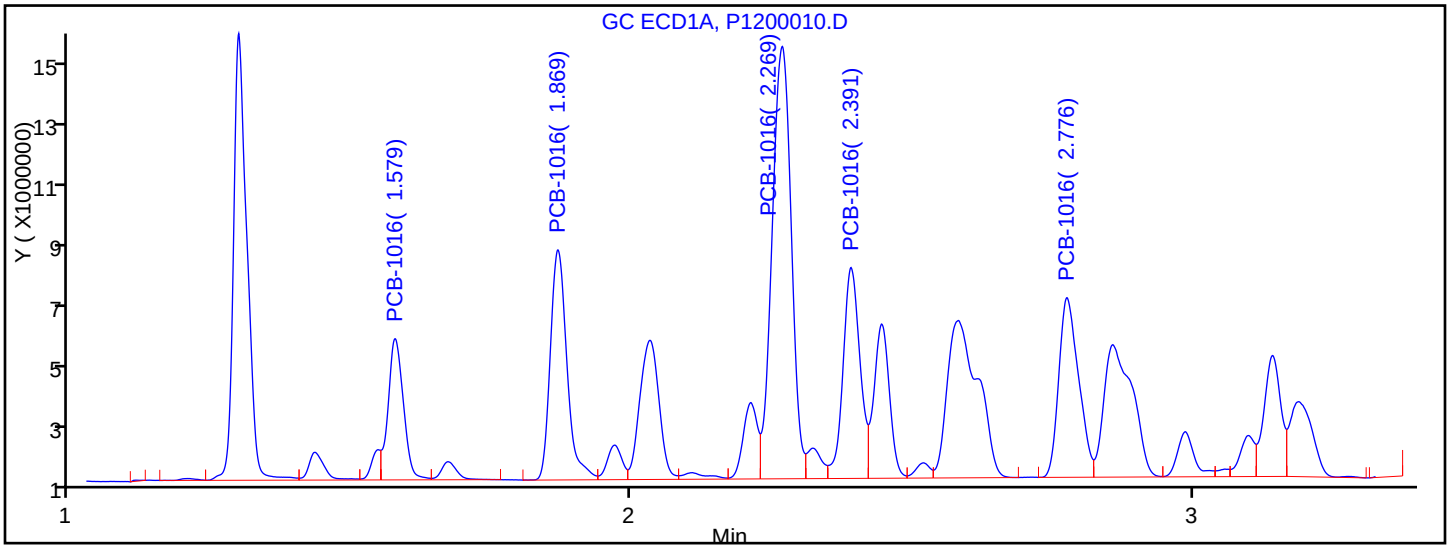
Injection Date:	03-Apr-2013 14:56:21	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.579	Response = 9238170	M
RT = 1.869	Response = 14630262	
RT = 2.269	Response = 31773550	
RT = 2.391	Response = 13646450	
RT = 2.776	Response = 13582768	



Manual Integration Results

RT = 1.579	Response = 8217689	M
RT = 1.869	Response = 14630262	
RT = 2.269	Response = 31773550	
RT = 2.391	Response = 13646450	
RT = 2.776	Response = 13582768	

Reviewer: hassl, 04-Apr-2013 07:12:22

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/10 Calibration Date: 04/03/2013 14:56

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200010.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	45299578	42284832		0.467	0.500	-6.7	20.0
PCB-1016 Peak 2	Ave	87494510	83199530		0.475	0.500	-4.9	20.0
PCB-1016 Peak 3	Ave	181900224	180642592		0.497	0.500	-0.7	20.0
PCB-1016 Peak 4	Ave	79207688	74799162		0.472	0.500	-5.6	20.0
PCB-1016 Peak 5	Ave	65886914	59207524		0.449	0.500	-10.1	20.0
PCB-1260 Peak 1	Ave	129864022	121704696		0.469	0.500	-6.3	20.0
PCB-1260 Peak 2	Ave	145267081	138716284		0.477	0.500	-4.5	20.0
PCB-1260 Peak 3	Ave	231145923	222557670		0.481	0.500	-3.7	20.0
PCB-1260 Peak 4	Ave	268767373	258380074		0.481	0.500	-3.9	20.0
PCB-1260 Peak 5	Ave	200141995	189538992		0.474	0.500	-5.3	20.0
Tetrachloro-m-xylene	Ave	2669425812	2567438680		0.0240	0.0250	-3.8	20.0
DCB Decachlorobiphenyl	Ave	2958379632	2610353320		0.0221	0.0250	-11.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 240-80431/10 Calibration Date: 04/03/2013 14:56

Instrument ID: A2HP12 Calib Start Date: 04/01/2013 15:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/01/2013 17:05

Lab File ID: P1200010.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.14	2.09	2.19
PCB-1016 Peak 2	2.54	2.49	2.59
PCB-1016 Peak 3	2.99	2.94	3.04
PCB-1016 Peak 4	3.13	3.08	3.18
PCB-1016 Peak 5	3.62	3.57	3.67
PCB-1260 Peak 1	4.95	4.90	5.00
PCB-1260 Peak 2	5.18	5.13	5.23
PCB-1260 Peak 3	5.55	5.50	5.60
PCB-1260 Peak 4	6.23	6.18	6.28
PCB-1260 Peak 5	6.61	6.56	6.66
Tetrachloro-m-xylene	1.67	1.62	1.72
DCB Decachlorobiphenyl	7.84	7.79	7.89

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200010.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 03-Apr-2013 14:56:21 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018511-010
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 uL ALS Bottle#: 10
Lims Batch ID: 80431 Lims Sample ID: 10
Sublist: chrom-PCB12*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m
Last Update: 04-Apr-2013 07:27:54 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

First Level Reviewer: hassl Date: 04-Apr-2013 07:12:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	23048144	0.0235			
2	2	1.672	1.672	0.000	64185967	0.0240			
						RPD = 2.30			
6 PCB-1016									M
1	100	1.579	1.579	0.000	8217689	0.5077		100.0	M
1	2	1.869	1.869	0.000	14630262	0.4865	165.5- 215.5	178.0	
1	3	2.269	2.269	0.000	31773550	0.4966	356.7- 406.7	386.6	
1	4	2.391	2.391	0.000	13646450	0.5050	144.0- 194.0	166.1	
1	5	2.776	2.776	0.000	13582768	0.4807	153.1- 203.1	165.3	
			Average of Peak Amounts =			0.4953			
2	6	2.139	2.139	0.000	21142416	0.4667		100.0	
2	7	2.539	2.539	0.000	41599765	0.4755	165.6- 225.6	196.8	
2	8	2.994	2.994	0.000	90321296	0.4965	366.1- 426.1	427.2	
2	9	3.132	3.132	0.000	37399581	0.4722	144.6- 204.6	176.9	
2	10	3.619	3.619	0.000	29603762	0.4493	112.9- 172.9	140.0	
			Average of Peak Amounts =			0.4720			
						RPD = 4.81			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.983	3.983	0.000	20720270	0.4753		100.0	
1	2	4.271	4.271	0.000	41387913	0.4806	172.1- 222.1	199.7	
1	3	4.549	4.549	0.000	41727121	0.4941	168.4- 218.4	201.4	
1	4	5.248	5.248	0.000	59177273	0.5001	244.3- 294.3	285.6	
1	5	5.530	5.530	0.000	27784093	0.4950	104.3- 154.3	134.1	
			Average of Peak Amounts =			0.4890			
2	6	4.950	4.950	0.000	60852348	0.4686		100.0	
2	7	5.181	5.181	0.000	69358142	0.4775	80.1- 140.1	114.0	
2	8	5.546	5.546	0.000	111278835	0.4814	146.6- 206.6	182.9	
2	9	6.232	6.232	0.000	129190037	0.4807	174.1- 234.1	212.3	
2	10	6.610	6.610	0.000	94769496	0.4735	121.8- 181.8	155.7	
			Average of Peak Amounts =			0.4763			
						RPD = 2.63			
$ 12 DCB Decachlorobiphenyl									
1	100	6.681	6.681	0.000	24628253	0.0241			
2	2	7.841	7.841	0.000	65258833	0.0221			
						RPD = 9.03			

QC Flag Legend

Review Flags
M - Manually Integrated

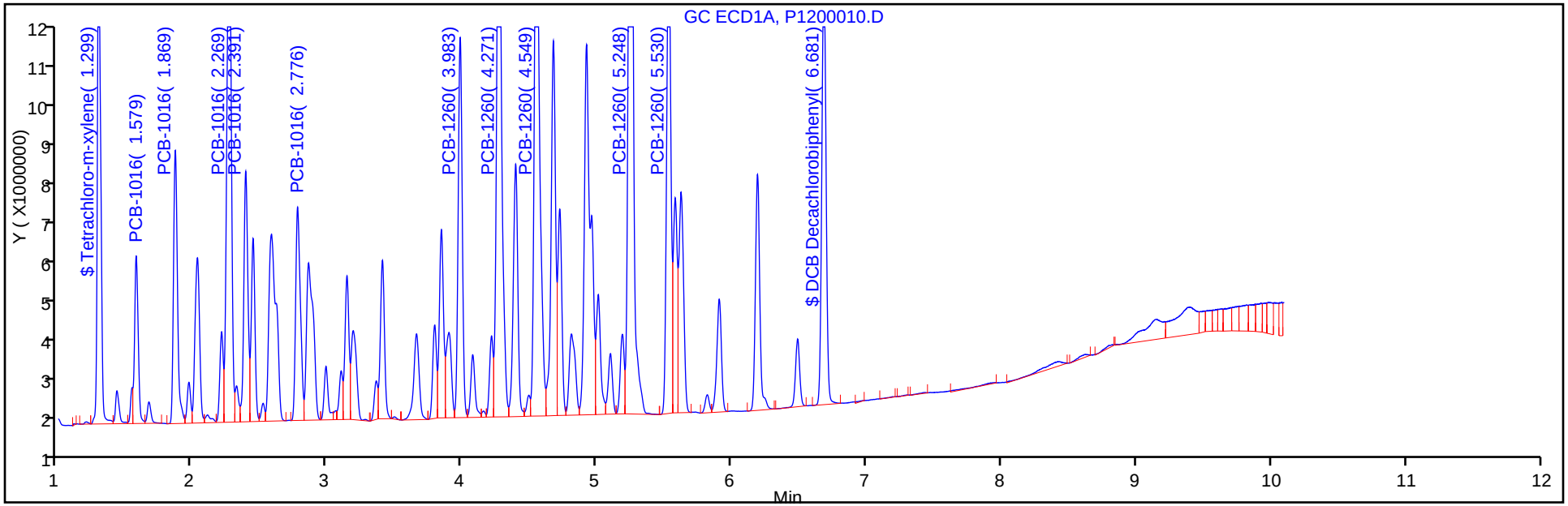
Report Date: 04-Apr-2013 07:27:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

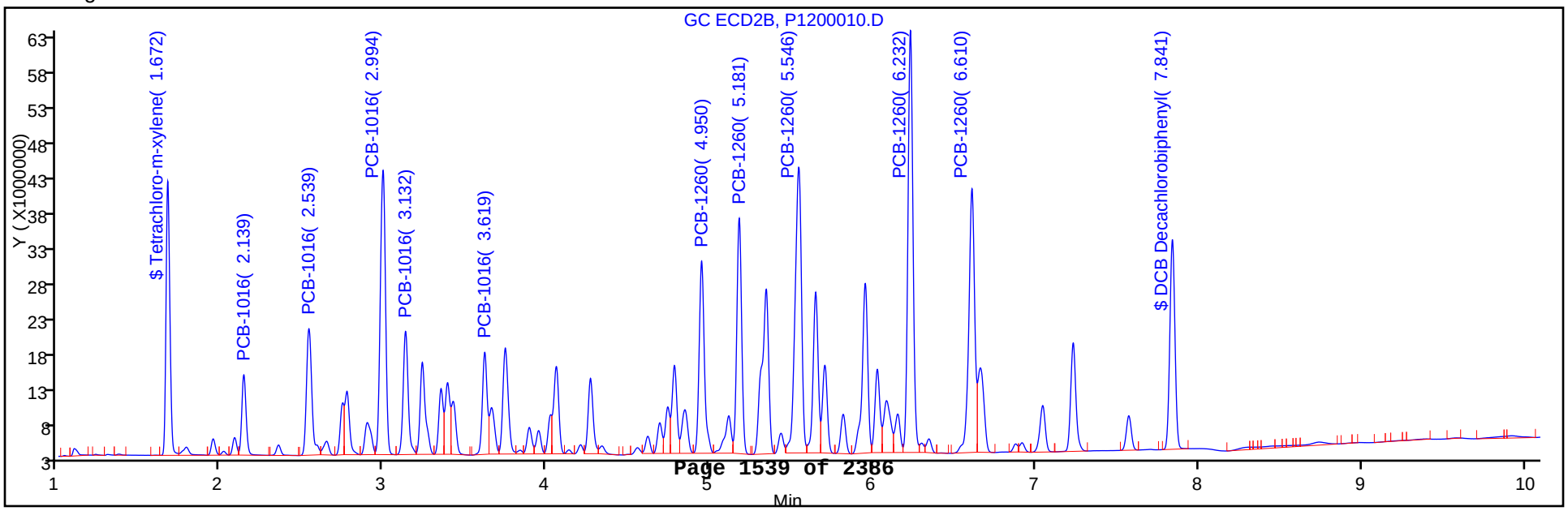
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200010.D

Injection Date:	03-Apr-2013 14:56:21	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-79894/23-A

Matrix: Solid | Lab File ID: P1200008.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.00(g) | Date Analyzed: 04/03/2013 14:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	66		40-140
2051-24-3	DCB Decachlorobiphenyl	70		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200008.D		
Lims ID:	MB 240-79894/23-A	Client ID:	
Inject. Date:	03-Apr-2013 14:28:06	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018511-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	80431	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:11:46

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	12962908	0.0132			
2	2	1.671	1.672	-0.001	36555067	0.0137			
						RPD = 3.55			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100		1.578						
1	2		1.869						
1	3		2.268						
1	4		2.392						
1	5		2.776						
2	6		2.138						
2	7		2.538						
2	8		2.993						
2	9		3.131						
2	10		3.618						
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.982						
1	2		4.271						
1	3		4.548						
1	4		5.249						
1	5		5.532						
2	6		4.948						
2	7		5.180						
2	8		5.546						
2	9		6.230						
2	10		6.608						
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.683	6.683	0.000	14323871	0.0140			
2	2	7.840	7.838	0.002	36563249	0.0124			
						RPD = 12.75			

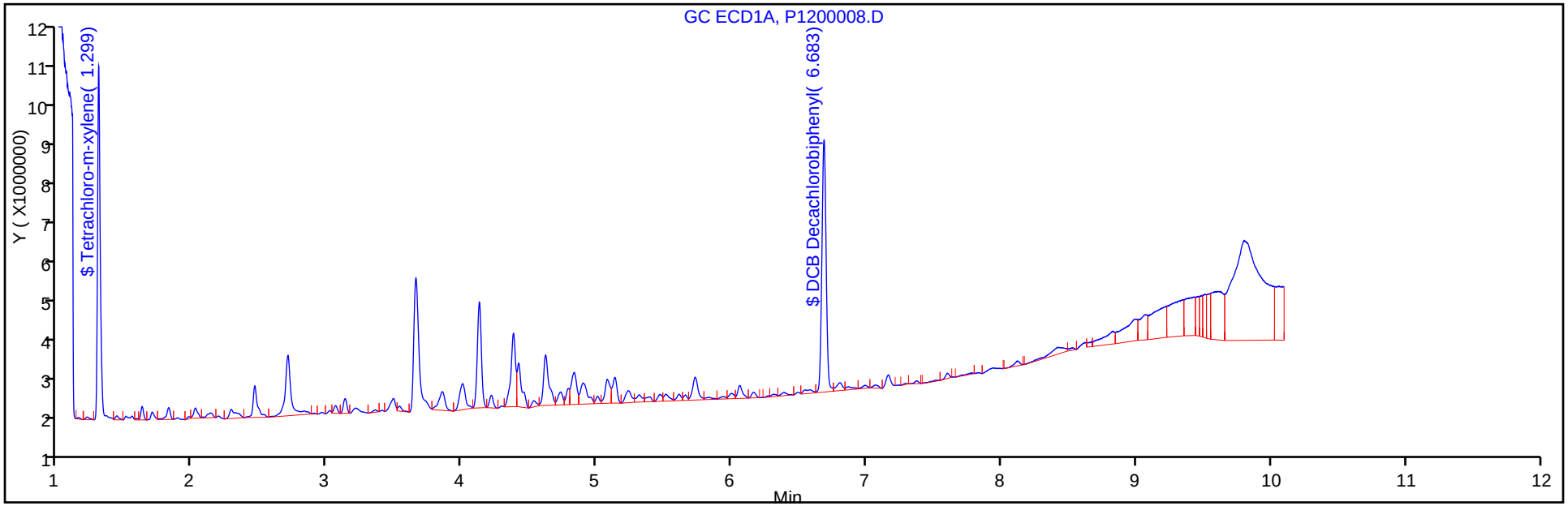
Report Date: 04-Apr-2013 07:27:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

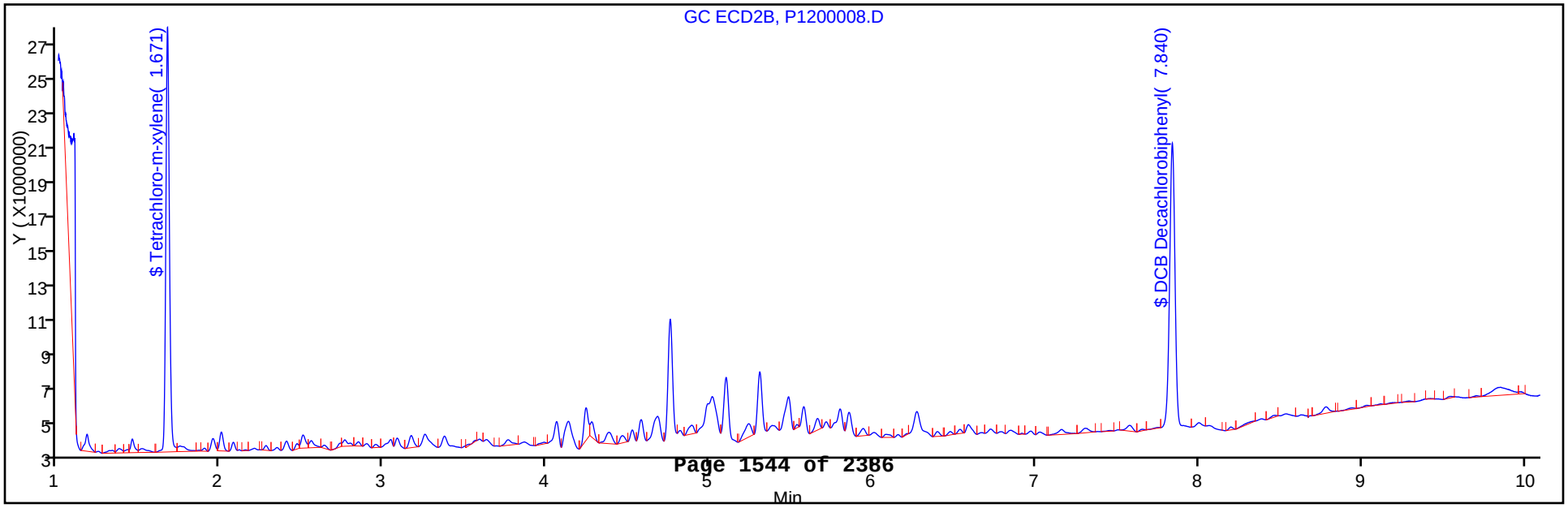
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200008.D

Injection Date:	03-Apr-2013 14:28:06	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-79894/23-A

Matrix: Solid Lab File ID: P1200008.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.00(g) Date Analyzed: 04/03/2013 14:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	68		40-140
2051-24-3	DCB Decachlorobiphenyl	62		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200008.D		
Lims ID:	MB 240-79894/23-A	Client ID:	
Inject. Date:	03-Apr-2013 14:28:06	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018511-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	80431	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:11:46

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	12962908	0.0132			
2	2	1.671	1.672	-0.001	36555067	0.0137			
						RPD = 3.55			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100		1.578						
1	2		1.869						
1	3		2.268						
1	4		2.392						
1	5		2.776						
2	6		2.138						
2	7		2.538						
2	8		2.993						
2	9		3.131						
2	10		3.618						
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.982						
1	2		4.271						
1	3		4.548						
1	4		5.249						
1	5		5.532						
2	6		4.948						
2	7		5.180						
2	8		5.546						
2	9		6.230						
2	10		6.608						
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.683	6.683	0.000	14323871	0.0140			
2	2	7.840	7.838	0.002	36563249	0.0124			
						RPD = 12.75			

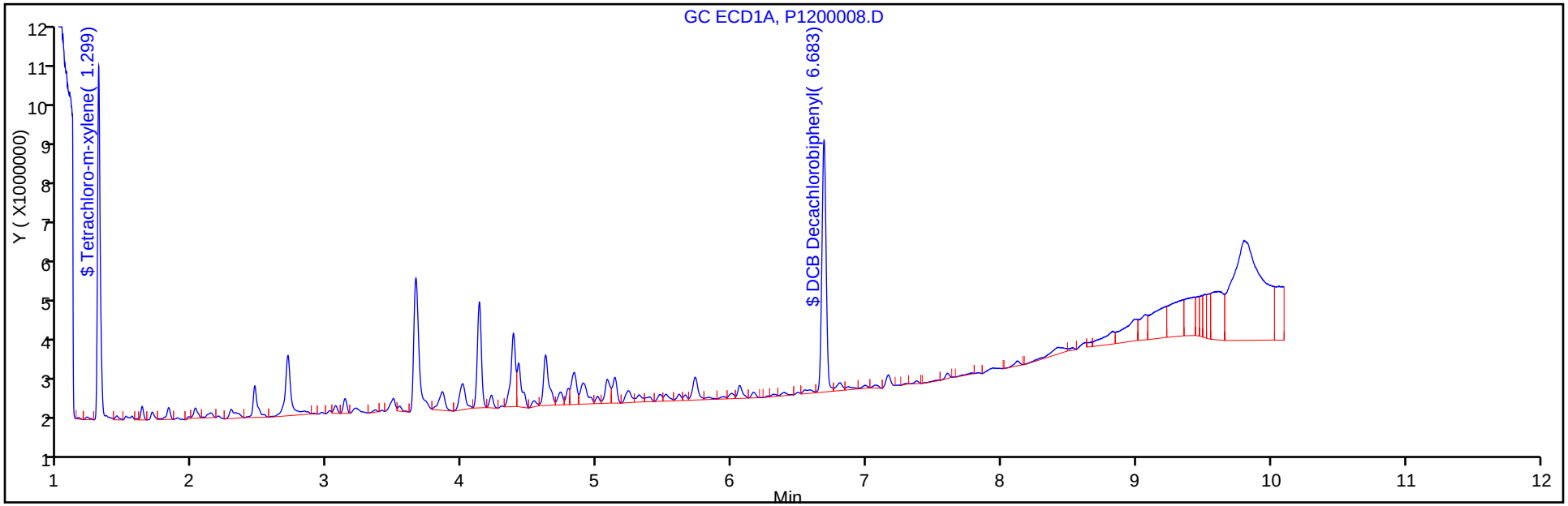
Report Date: 04-Apr-2013 07:27:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

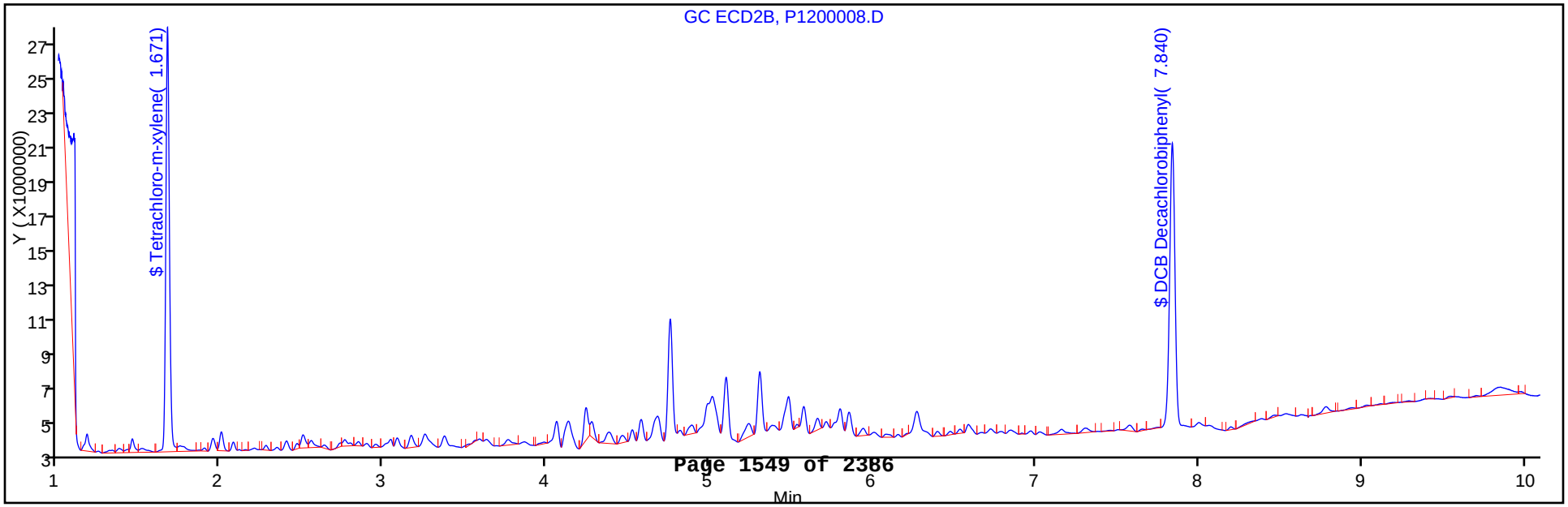
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200008.D

Injection Date:	03-Apr-2013 14:28:06	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-79894/24-A

Matrix: Solid Lab File ID: P1200009.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.00(g) Date Analyzed: 04/03/2013 14:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	245		65	25	21
11096-82-5	Aroclor-1260	260		55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	73		40-140
2051-24-3	DCB Decachlorobiphenyl	74		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200009.D		
Lims ID:	LCS 240-79894/24-A	Client ID:	
Inject. Date:	03-Apr-2013 14:42:12	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	240-0018511-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	9
Lims Batch ID:	80431	Lims Sample ID:	9
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:12:05

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	14340173	0.0146			
2	2	1.670	1.672	-0.002	45749799	0.0171			
						RPD = 15.86			
6 PCB-1016									
1	100	1.577	1.578	-0.001	11255554	0.6954		100.0	
1	2	1.867	1.869	-0.002	22545350	0.7496	165.5- 215.5	200.3	
1	3	2.267	2.268	-0.001	50138514	0.7836	356.7- 406.7	445.5	
1	4	2.389	2.392	-0.003	20760156	0.7683	144.0- 194.0	184.4	
1	5	2.775	2.776	-0.001	19085832	0.6755	153.1- 203.1	169.6	
			Average of Peak Amounts =			0.7345			
2	6	2.138	2.138	0.000	30658360	0.6768		100.0	
2	7	2.538	2.538	0.000	67086477	0.7668	165.6- 225.6	218.8	
2	8	2.993	2.993	0.000	148209910	0.8148	366.1- 426.1	483.4	
2	9	3.132	3.131	0.001	53525452	0.6758	144.6- 204.6	174.6	
2	10	3.618	3.618	0.000	45266610	0.6870	112.9- 172.9	147.6	
			Average of Peak Amounts =			0.7242			
						RPD = 1.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.983	3.982	0.001	33447680	0.7672		100.0	M
1	2	4.270	4.271	-0.001	65224499	0.7573	172.1- 222.1	195.0	M
1	3	4.549	4.548	0.001	66589761	0.7885	168.4- 218.4	199.1	M
1	4	5.249	5.249	0.000	96177717	0.8129	244.3- 294.3	287.5	M
1	5	5.531	5.532	-0.001	43801083	0.7804	104.3- 154.3	131.0	M
			Average of Peak Amounts =			0.7813			
2	6	4.949	4.948	0.001	105010539	0.8086		100.0	
2	7	5.181	5.180	0.001	108314385	0.7456	80.1- 140.1	103.1	
2	8	5.547	5.546	0.001	180222220	0.7797	146.6- 206.6	171.6	
2	9	6.230	6.230	0.000	217552820	0.8094	174.1- 234.1	207.2	
2	10	6.609	6.608	0.001	149800877	0.7485	121.8- 181.8	142.7	
			Average of Peak Amounts =			0.7784			
						RPD = 0.37			
$ 12 DCB Decachlorobiphenyl									
1	100	6.684	6.683	0.001	15078181	0.0148			
2	2	7.839	7.838	0.001	43686727	0.0148			
						RPD = 0.10			

QC Flag Legend

Review Flags
M - Manually Integrated

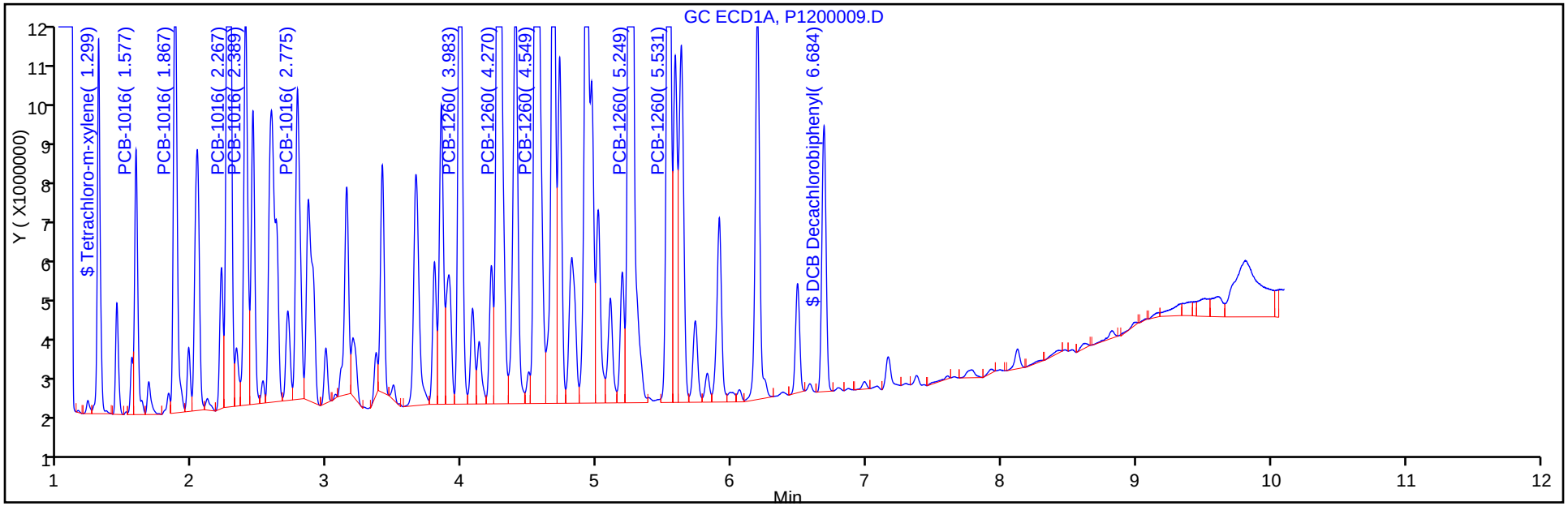
Report Date: 04-Apr-2013 07:27:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

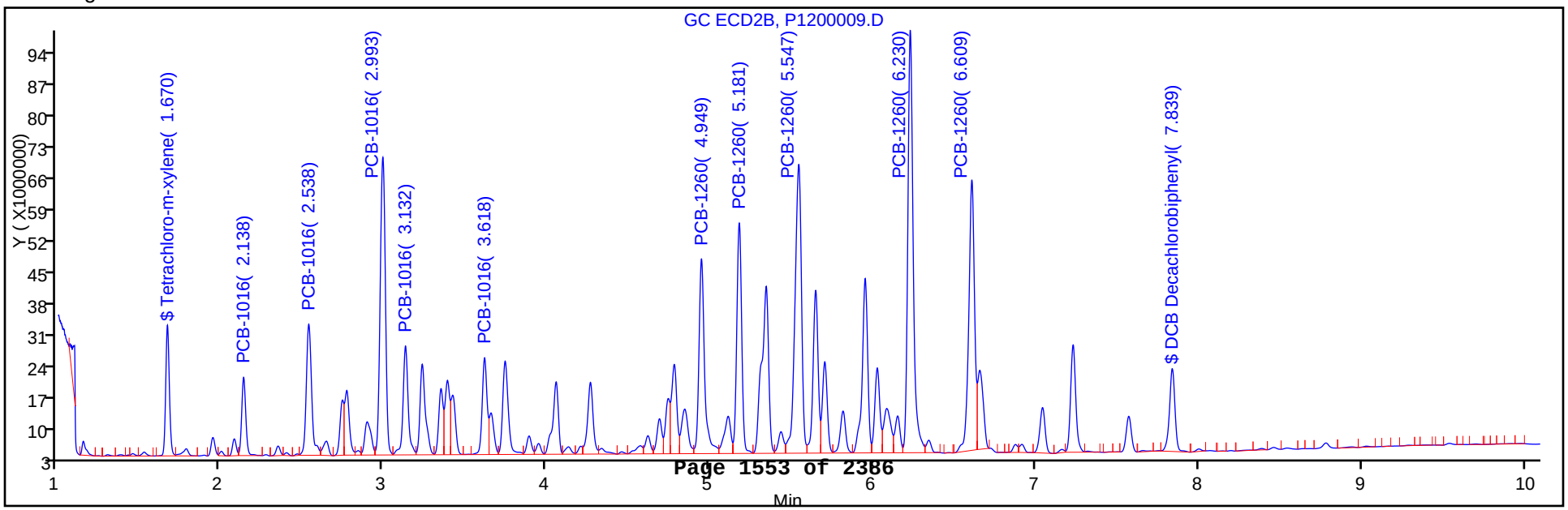
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200009.D

Injection Date:	03-Apr-2013 14:42:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



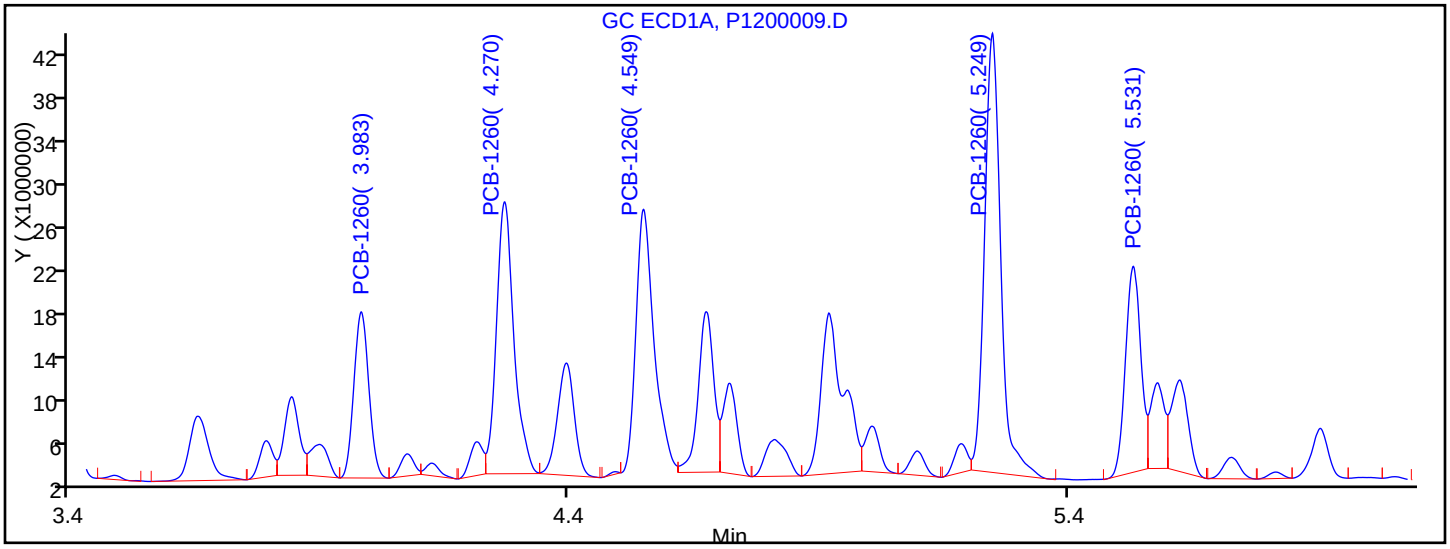
Report Date: 04-Apr-2013 07:27:54 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200009.D

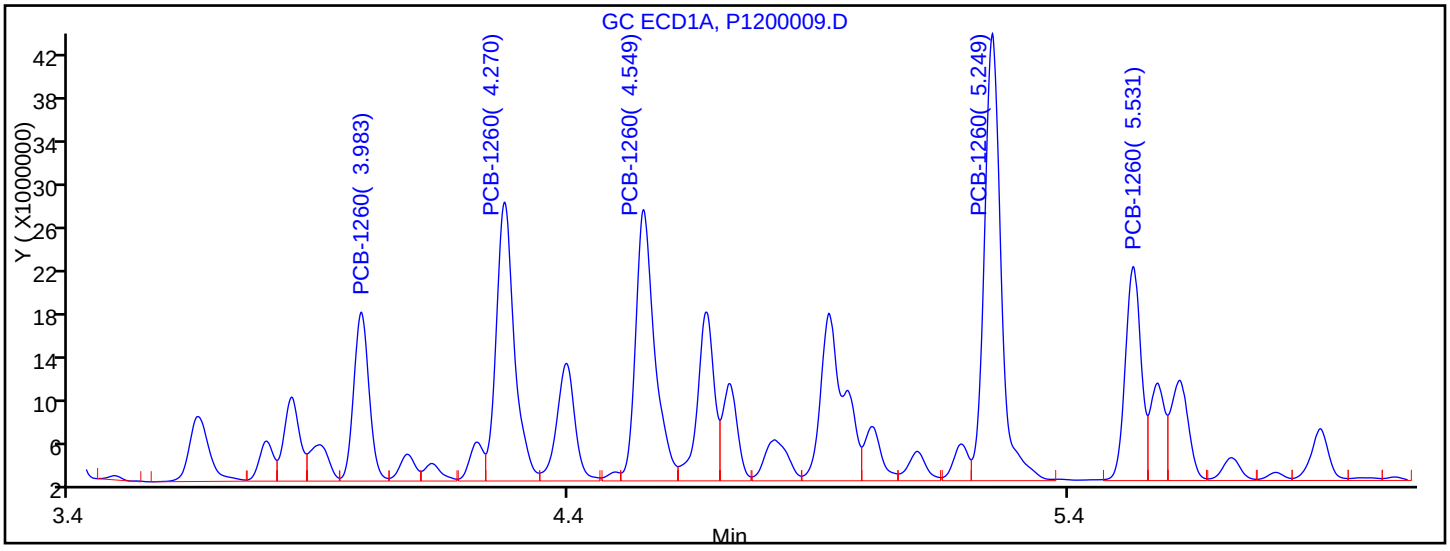
Injection Date:	03-Apr-2013 14:42:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.983	Response = 31962741	M
RT = 4.270	Response = 61068194	M
RT = 4.549	Response = 61540410	M
RT = 5.249	Response = 91080158	M
RT = 5.531	Response = 40799292	M



Manual Integration Results

RT = 3.983	Response = 33447680	M
RT = 4.270	Response = 65224499	M
RT = 4.549	Response = 66589761	M
RT = 5.249	Response = 96177717	M
RT = 5.531	Response = 43801083	M

Reviewer: hassl, 04-Apr-2013 07:12:05

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-79894/24-A

Matrix: Solid Lab File ID: P1200009.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.00(g) Date Analyzed: 04/03/2013 14:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		40-140
2051-24-3	DCB Decachlorobiphenyl	74		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200009.D		
Lims ID:	LCS 240-79894/24-A	Client ID:	
Inject. Date:	03-Apr-2013 14:42:12	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	240-0018511-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	9
Lims Batch ID:	80431	Lims Sample ID:	9
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:12:05

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	14340173	0.0146			
2	2	1.670	1.672	-0.002	45749799	0.0171			
						RPD = 15.86			
6 PCB-1016									
1	100	1.577	1.578	-0.001	11255554	0.6954		100.0	
1	2	1.867	1.869	-0.002	22545350	0.7496	165.5- 215.5	200.3	
1	3	2.267	2.268	-0.001	50138514	0.7836	356.7- 406.7	445.5	
1	4	2.389	2.392	-0.003	20760156	0.7683	144.0- 194.0	184.4	
1	5	2.775	2.776	-0.001	19085832	0.6755	153.1- 203.1	169.6	
			Average of Peak Amounts =			0.7345			
2	6	2.138	2.138	0.000	30658360	0.6768		100.0	
2	7	2.538	2.538	0.000	67086477	0.7668	165.6- 225.6	218.8	
2	8	2.993	2.993	0.000	148209910	0.8148	366.1- 426.1	483.4	
2	9	3.132	3.131	0.001	53525452	0.6758	144.6- 204.6	174.6	
2	10	3.618	3.618	0.000	45266610	0.6870	112.9- 172.9	147.6	
			Average of Peak Amounts =			0.7242			
						RPD = 1.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.983	3.982	0.001	33447680	0.7672		100.0	M
1	2	4.270	4.271	-0.001	65224499	0.7573	172.1- 222.1	195.0	M
1	3	4.549	4.548	0.001	66589761	0.7885	168.4- 218.4	199.1	M
1	4	5.249	5.249	0.000	96177717	0.8129	244.3- 294.3	287.5	M
1	5	5.531	5.532	-0.001	43801083	0.7804	104.3- 154.3	131.0	M
			Average of Peak Amounts =			0.7813			
2	6	4.949	4.948	0.001	105010539	0.8086		100.0	
2	7	5.181	5.180	0.001	108314385	0.7456	80.1- 140.1	103.1	
2	8	5.547	5.546	0.001	180222220	0.7797	146.6- 206.6	171.6	
2	9	6.230	6.230	0.000	217552820	0.8094	174.1- 234.1	207.2	
2	10	6.609	6.608	0.001	149800877	0.7485	121.8- 181.8	142.7	
			Average of Peak Amounts =			0.7784			
						RPD = 0.37			
$ 12 DCB Decachlorobiphenyl									
1	100	6.684	6.683	0.001	15078181	0.0148			
2	2	7.839	7.838	0.001	43686727	0.0148			
						RPD = 0.10			

QC Flag Legend

Review Flags
M - Manually Integrated

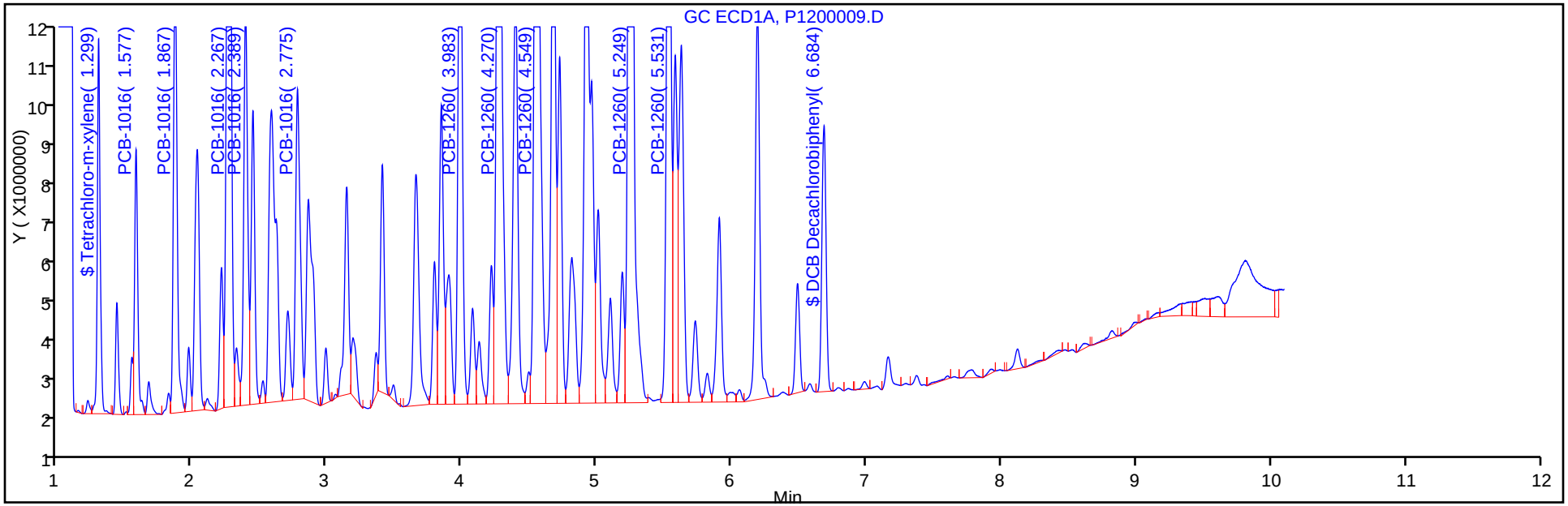
Report Date: 04-Apr-2013 07:27:54 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

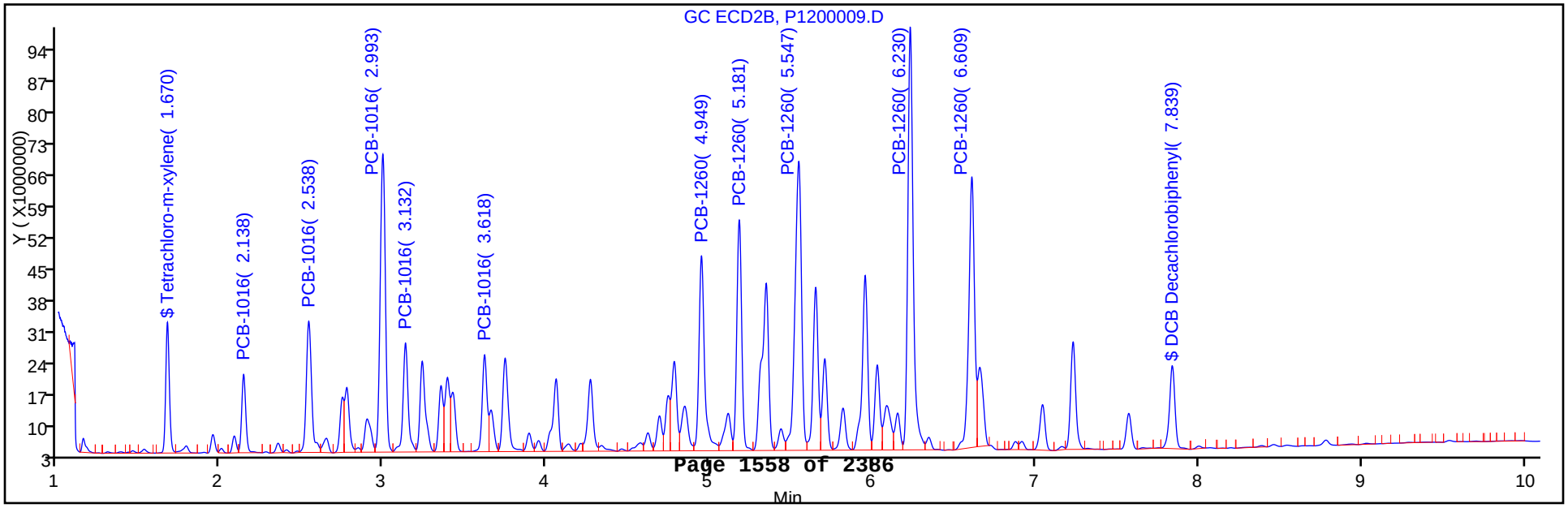
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200009.D

Injection Date:	03-Apr-2013 14:42:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-80431/4

Matrix: Solid Lab File ID: P1200004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/03/2013 13:31

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0559		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0519		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	113		50-150
2051-24-3	DCB Decachlorobiphenyl	111		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200004.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	03-Apr-2013 13:31:01	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018511-004		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	4
Lims Batch ID:	80431	Lims Sample ID:	4
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:09:55

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	2760586	0.002814			
2	2	1.671	1.672	-0.001	7318976	0.002742			
						RPD = 2.62			
3 PCB-1221									M
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									M
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									M
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									M
1	100	1.578	1.578	0.000	905140	0.0559		100.0	M
1	2	1.868	1.869	-0.001	1672853	0.0556	165.5- 215.5	184.8	
1	3	2.268	2.268	0.000	3660093	0.0572	356.7- 406.7	404.4	
1	4	2.391	2.392	-0.001	1518371	0.0562	144.0- 194.0	167.7	
1	5	2.775	2.776	-0.001	1547806	0.0548	153.1- 203.1	171.0	
			Average of Peak Amounts =			0.0559			
2	6	2.138	2.138	0.000	2447495	0.0540		100.0	
2	7	2.537	2.538	-0.001	4855202	0.0555	165.6- 225.6	198.4	
2	8	2.993	2.993	0.000	9380971	0.0516	366.1- 426.1	383.3	
2	9	3.131	3.131	0.000	4268474	0.0539	144.6- 204.6	174.4	
2	10	3.617	3.618	-0.001	3915016	0.0594	112.9- 172.9	160.0	
			Average of Peak Amounts =			0.0549			
						RPD = 1.92			
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.983	3.982	0.001	2329770	0.0534		100.0	
1	2	4.270	4.271	-0.001	4538917	0.0527	172.1- 222.1	194.8	
1	3	4.549	4.548	0.001	4428920	0.0524	168.4- 218.4	190.1	
1	4	5.248	5.249	-0.001	5895392	0.0498	244.3- 294.3	253.0	
1	5	5.533	5.532	0.001	2870956	0.0512	104.3- 154.3	123.2	
			Average of Peak Amounts =			0.0519			
2	6	4.949	4.948	0.001	6624470	0.0510		100.0	
2	7	5.180	5.180	0.000	7249017	0.0499	80.1- 140.1	109.4	
2	8	5.546	5.546	0.000	11307138	0.0489	146.6- 206.6	170.7	
2	9	6.231	6.230	0.001	13094607	0.0487	174.1- 234.1	197.7	
2	10	6.609	6.608	0.001	9798672	0.0490	121.8- 181.8	147.9	
			Average of Peak Amounts =			0.0495			
						RPD = 4.76			
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.683	6.683	0.000	2840445	0.002785			
2	2	7.838	7.838	0.000	8004303	0.002706			
						RPD = 2.88			

QC Flag Legend

Review Flags
M - Manually Integrated

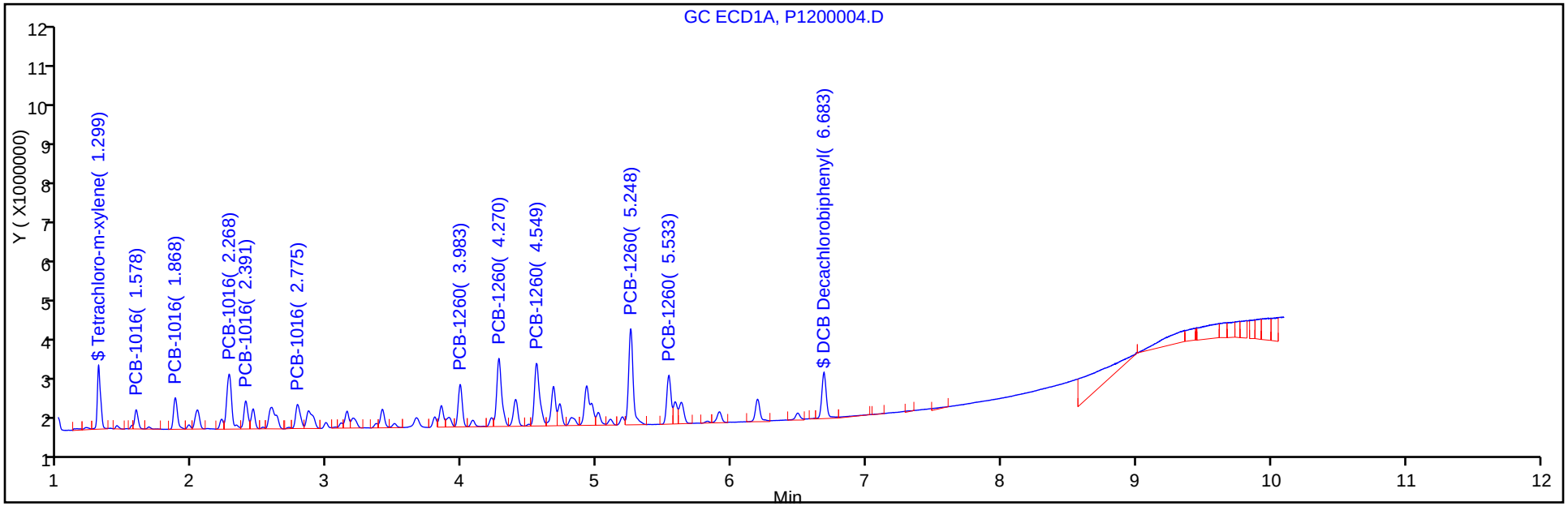
Report Date: 04-Apr-2013 07:27:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

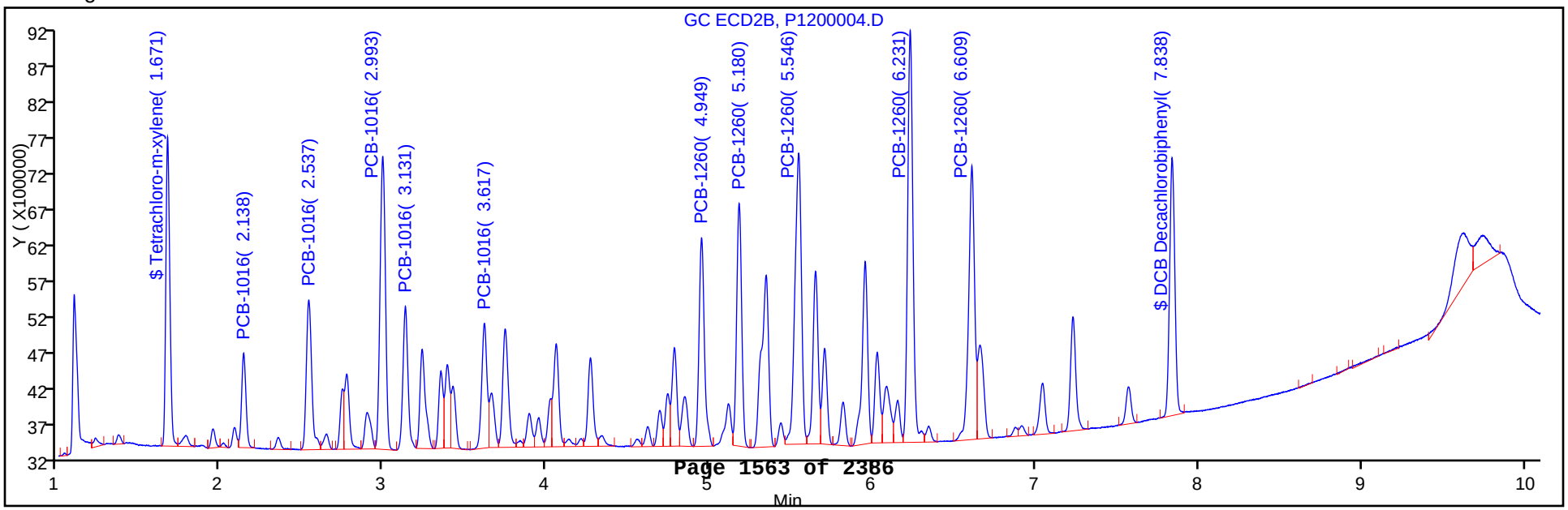
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200004.D

Injection Date:	03-Apr-2013 13:31:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



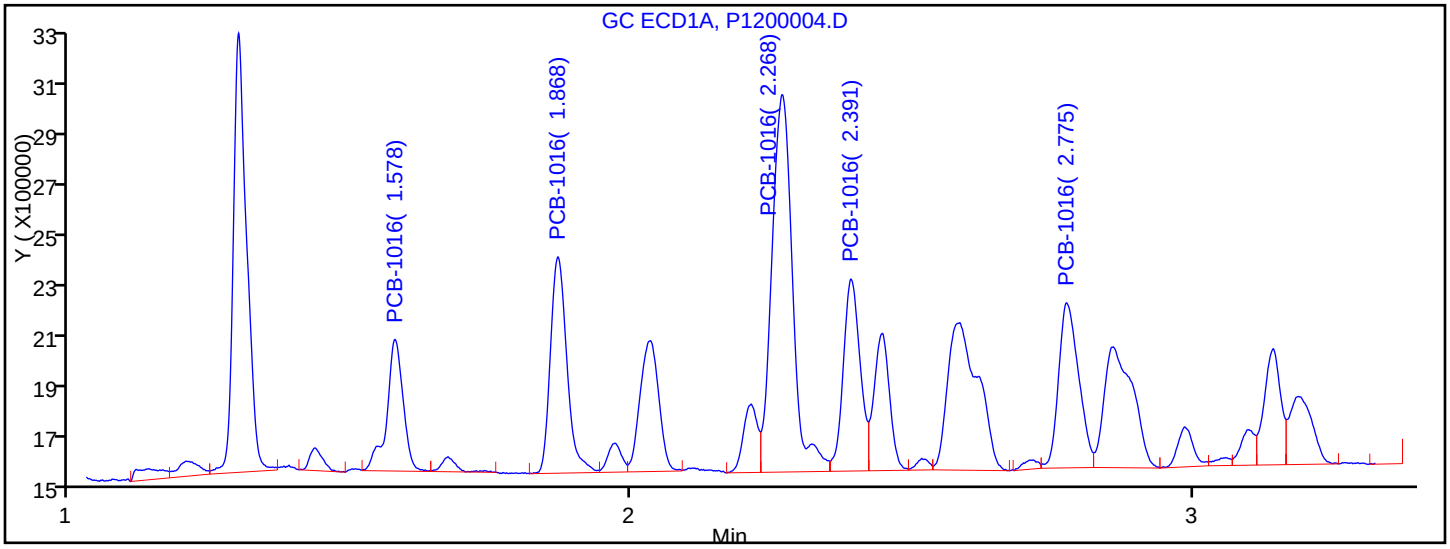
Report Date: 04-Apr-2013 07:27:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200004.D

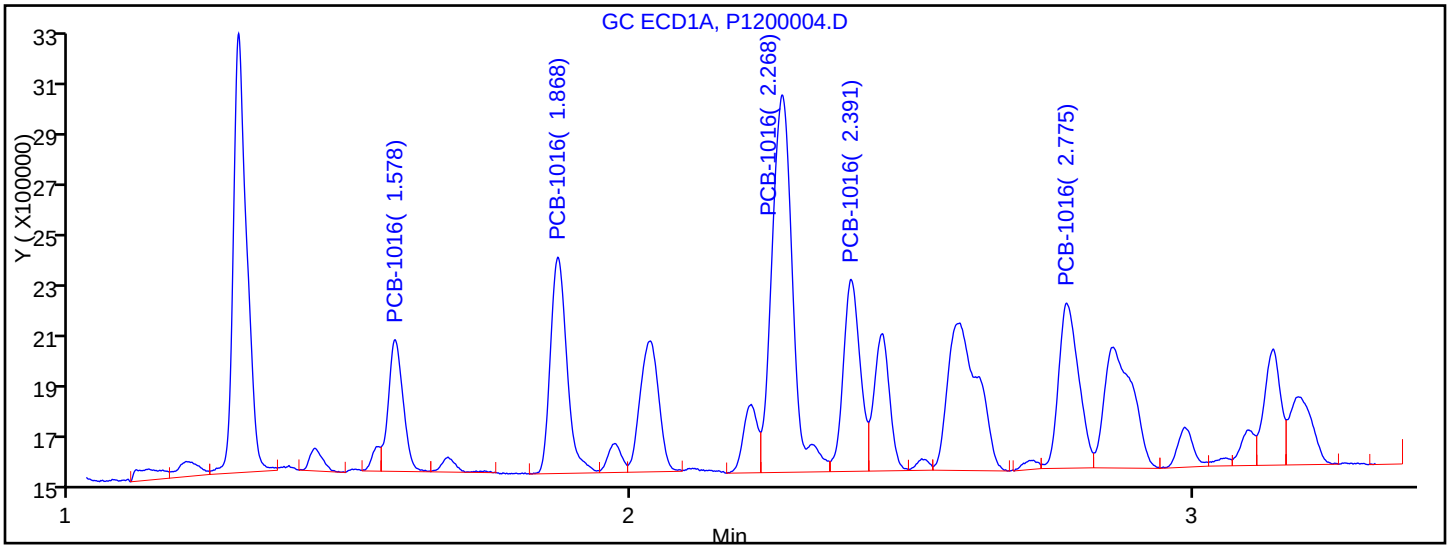
Injection Date:	03-Apr-2013 13:31:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.578	Response = 1006186	M
RT = 1.868	Response = 1672853	
RT = 2.268	Response = 3660093	
RT = 2.391	Response = 1518371	
RT = 2.775	Response = 1547806	



Manual Integration Results

RT = 1.578	Response = 905140	M
RT = 1.868	Response = 1672853	
RT = 2.268	Response = 3660093	
RT = 2.391	Response = 1518371	
RT = 2.775	Response = 1547806	

Reviewer: hassl, 04-Apr-2013 07:09:55

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80431/4

Matrix: Solid | Lab File ID: P1200004.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/03/2013 13:31

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0549*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0495*	*J*	*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		50-150
2051-24-3	DCB Decachlorobiphenyl	108		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200004.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	03-Apr-2013 13:31:01	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018511-004		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	4
Lims Batch ID:	80431	Lims Sample ID:	4
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:09:55

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	2760586	0.002814			
2	2	1.671	1.672	-0.001	7318976	0.002742			
						RPD = 2.62			
3 PCB-1221									M
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									M
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									M
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									M
1	100	1.578	1.578	0.000	905140	0.0559		100.0	M
1	2	1.868	1.869	-0.001	1672853	0.0556	165.5- 215.5	184.8	
1	3	2.268	2.268	0.000	3660093	0.0572	356.7- 406.7	404.4	
1	4	2.391	2.392	-0.001	1518371	0.0562	144.0- 194.0	167.7	
1	5	2.775	2.776	-0.001	1547806	0.0548	153.1- 203.1	171.0	
			Average of Peak Amounts =			0.0559			
2	6	2.138	2.138	0.000	2447495	0.0540		100.0	
2	7	2.537	2.538	-0.001	4855202	0.0555	165.6- 225.6	198.4	
2	8	2.993	2.993	0.000	9380971	0.0516	366.1- 426.1	383.3	
2	9	3.131	3.131	0.000	4268474	0.0539	144.6- 204.6	174.4	
2	10	3.617	3.618	-0.001	3915016	0.0594	112.9- 172.9	160.0	
			Average of Peak Amounts =			0.0549			
						RPD = 1.92			
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.983	3.982	0.001	2329770	0.0534		100.0	
1	2	4.270	4.271	-0.001	4538917	0.0527	172.1- 222.1	194.8	
1	3	4.549	4.548	0.001	4428920	0.0524	168.4- 218.4	190.1	
1	4	5.248	5.249	-0.001	5895392	0.0498	244.3- 294.3	253.0	
1	5	5.533	5.532	0.001	2870956	0.0512	104.3- 154.3	123.2	
			Average of Peak Amounts =			0.0519			
2	6	4.949	4.948	0.001	6624470	0.0510		100.0	
2	7	5.180	5.180	0.000	7249017	0.0499	80.1- 140.1	109.4	
2	8	5.546	5.546	0.000	11307138	0.0489	146.6- 206.6	170.7	
2	9	6.231	6.230	0.001	13094607	0.0487	174.1- 234.1	197.7	
2	10	6.609	6.608	0.001	9798672	0.0490	121.8- 181.8	147.9	
			Average of Peak Amounts =			0.0495			
						RPD = 4.76			
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.683	6.683	0.000	2840445	0.002785			
2	2	7.838	7.838	0.000	8004303	0.002706			
						RPD = 2.88			

QC Flag Legend

Review Flags
M - Manually Integrated

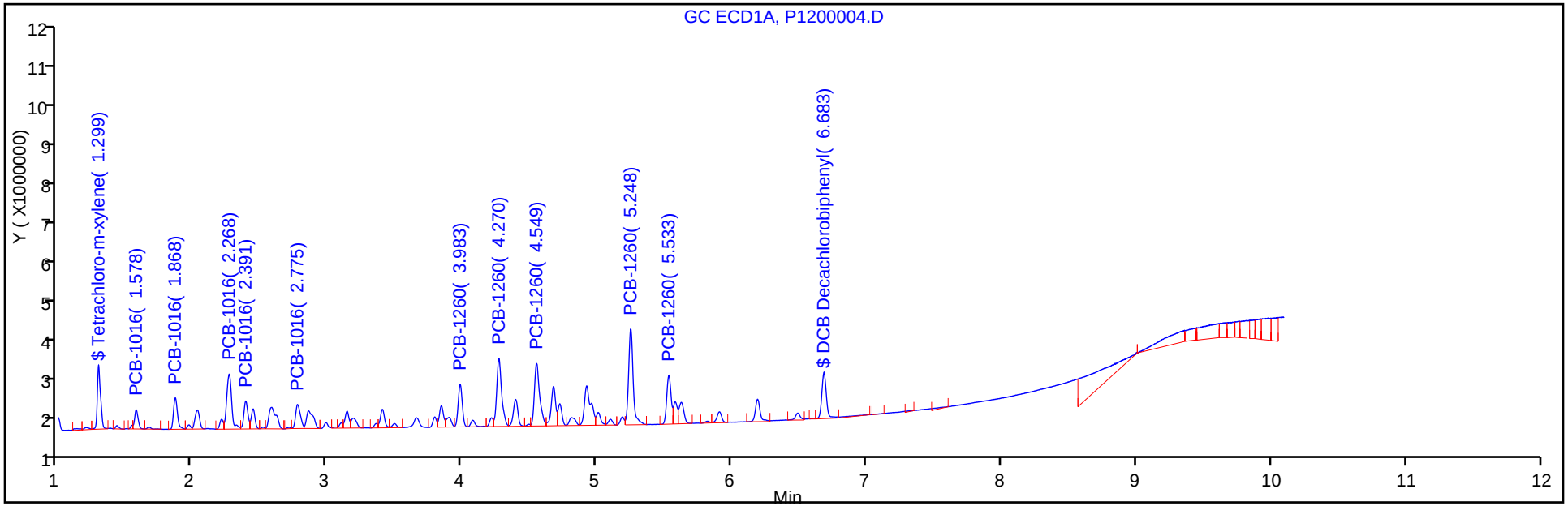
Report Date: 04-Apr-2013 07:27:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

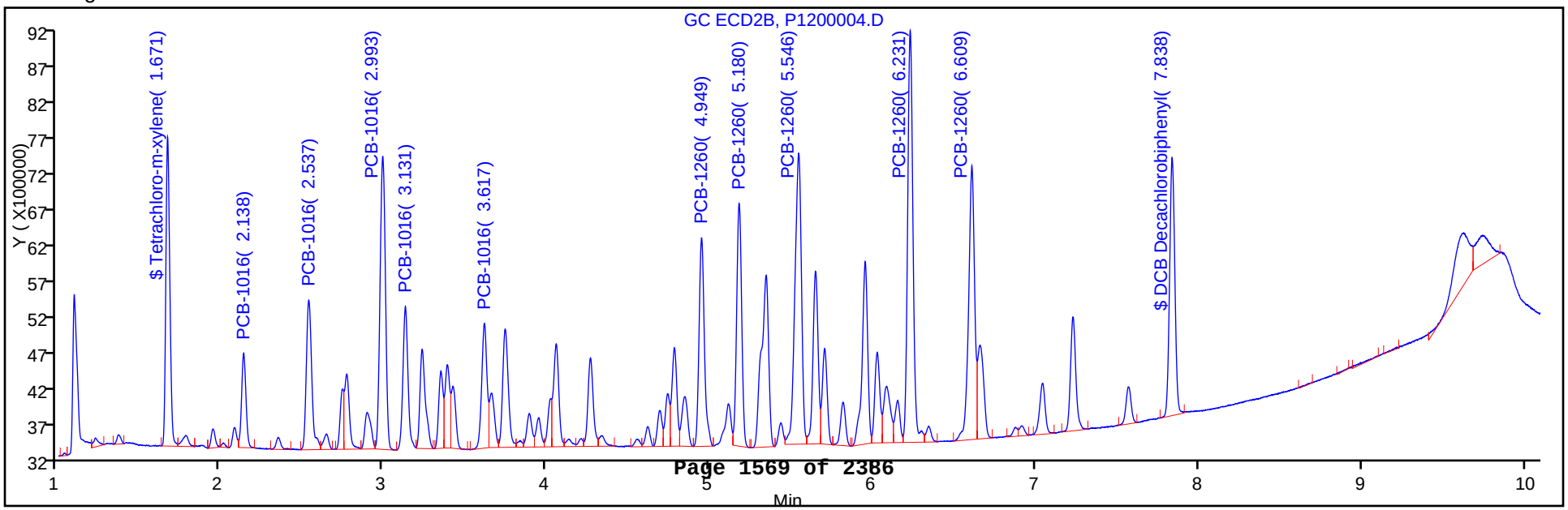
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200004.D

Injection Date:	03-Apr-2013 13:31:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-80431/11

Matrix: Solid Lab File ID: P1200011.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/03/2013 15:10

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0582		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0545		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		50-150
2051-24-3	DCB Decachlorobiphenyl	131	Q	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200011.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	03-Apr-2013 15:10:28	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018511-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	11
Lims Batch ID:	80431	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:54	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:12:58

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	2885686	0.002942			
2	2	1.672	1.672	0.000	7744060	0.002901			
						RPD = 1.40			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									M
1	100	1.579	1.579	0.000	970441	0.0600		100.0	M
1	2	1.869	1.869	0.000	1746211	0.0581	165.5- 215.5	179.9	
1	3	2.268	2.269	-0.001	3793381	0.0593	356.7- 406.7	390.9	
1	4	2.392	2.391	0.001	1564599	0.0579	144.0- 194.0	161.2	
1	5	2.777	2.776	0.001	1575743	0.0558	153.1- 203.1	162.4	
			Average of Peak Amounts =			0.0582			
2	6	2.139	2.139	0.000	2661691	0.0588		100.0	
2	7	2.540	2.539	0.001	4448984	0.0508	165.6- 225.6	167.1	
2	8	2.993	2.994	-0.001	9732648	0.0535	366.1- 426.1	365.7	
2	9	3.132	3.132	0.000	4391032	0.0554	144.6- 204.6	165.0	
2	10	3.618	3.619	-0.001	3869548	0.0587	112.9- 172.9	145.4	
			Average of Peak Amounts =			0.0555			
						RPD = 4.82			
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
10 PCB-1260									
1	100	3.982	3.983	-0.001	2385238	0.0547		100.0	
1	2	4.270	4.271	-0.001	4724078	0.0549	172.1- 222.1	198.1	
1	3	4.550	4.549	0.001	4670448	0.0553	168.4- 218.4	195.8	
1	4	5.249	5.248	0.001	6335332	0.0535	244.3- 294.3	265.6	
1	5	5.531	5.530	0.001	3049253	0.0543	104.3- 154.3	127.8	
			Average of Peak Amounts =			0.0545			
2	6	4.951	4.950	0.001	6874766	0.0529		100.0	
2	7	5.182	5.181	0.001	7622547	0.0525	80.1- 140.1	110.9	
2	8	5.547	5.546	0.001	11457517	0.0496	146.6- 206.6	166.7	
2	9	6.232	6.232	0.000	13423962	0.0499	174.1- 234.1	195.3	
2	10	6.610	6.610	0.000	9974334	0.0498	121.8- 181.8	145.1	
			Average of Peak Amounts =			0.0510			
						RPD = 6.82			
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.681	0.001	3346717	0.003281			
2	2	7.841	7.841	0.000	10560533	0.003570			
						RPD = 8.43			

QC Flag Legend

Review Flags
M - Manually Integrated

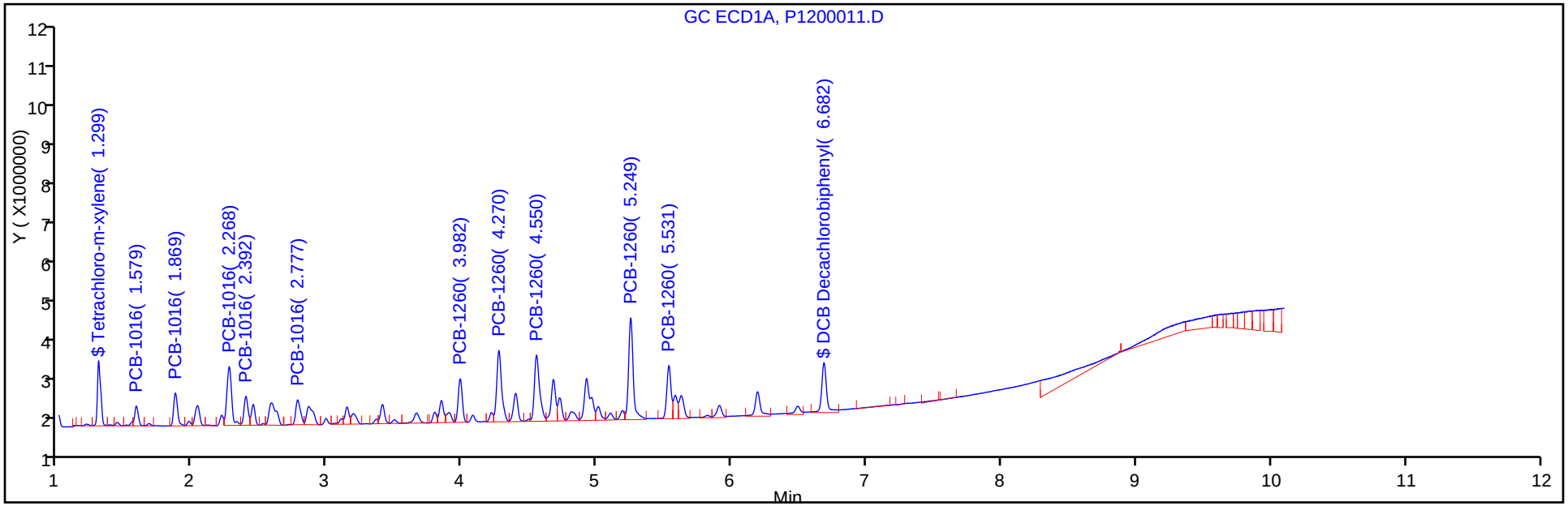
Report Date: 04-Apr-2013 07:27:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

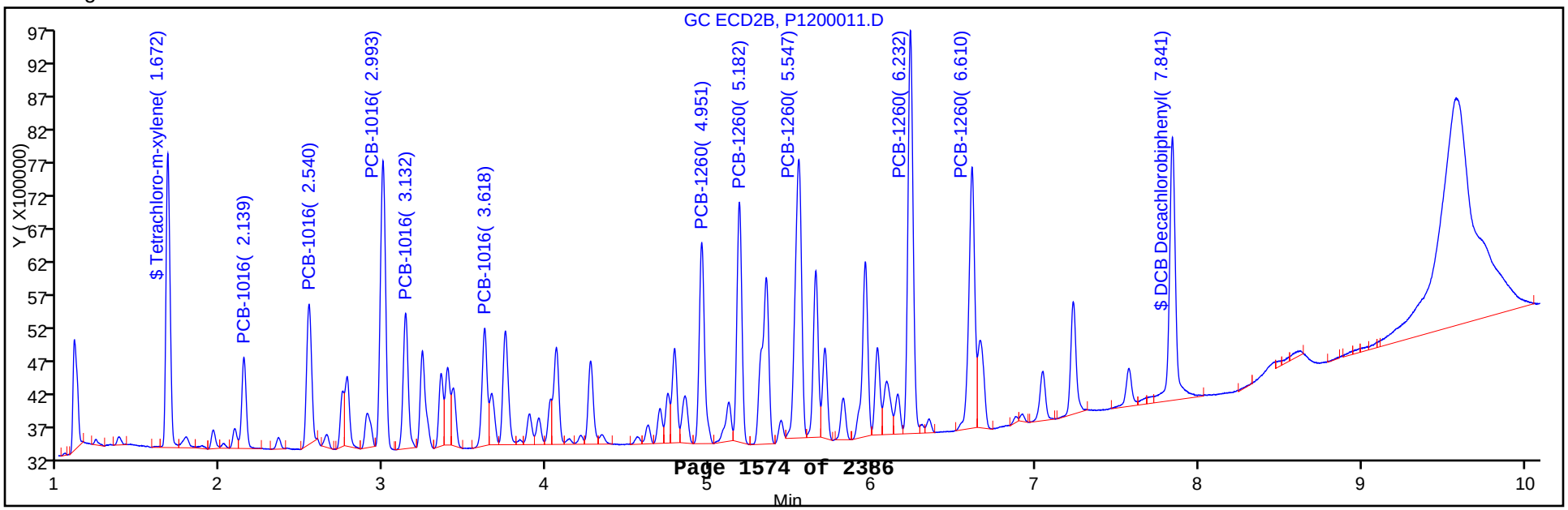
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200011.D

Injection Date:	03-Apr-2013 15:10:28	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



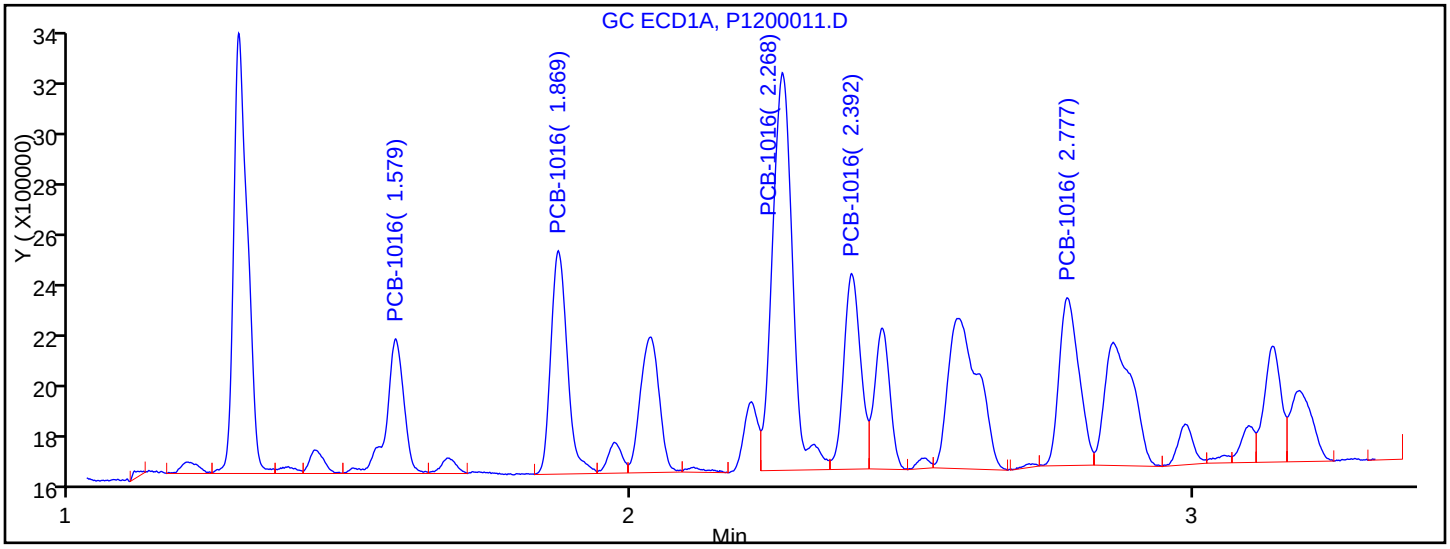
Report Date: 04-Apr-2013 07:27:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200011.D

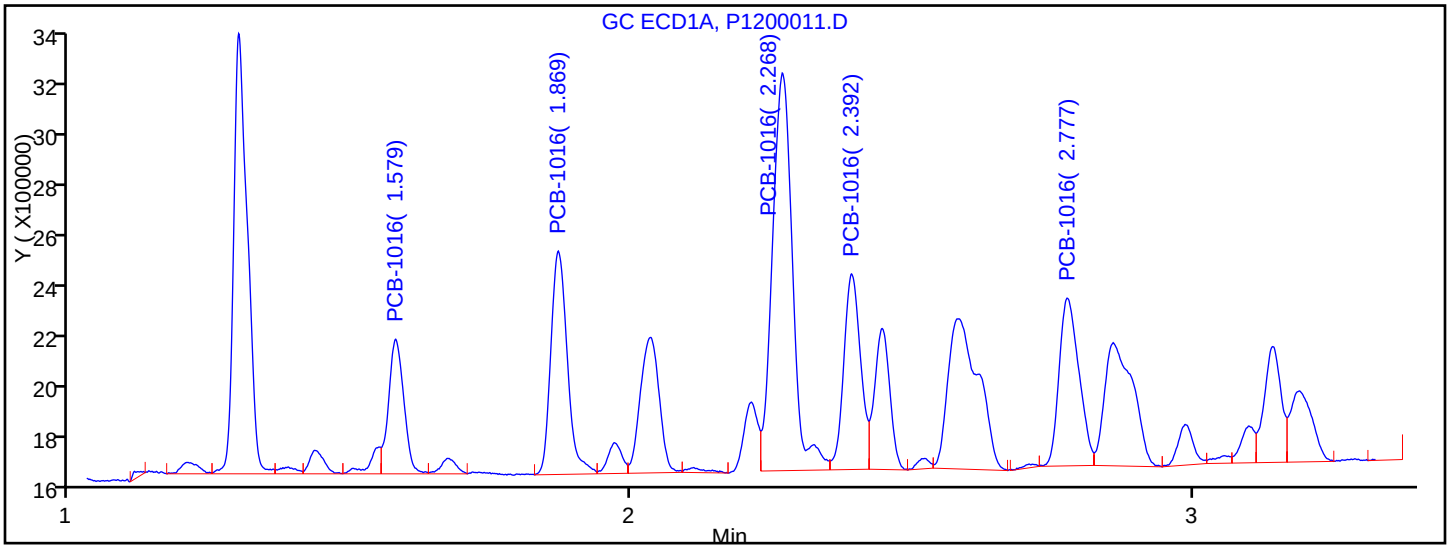
Injection Date:	03-Apr-2013 15:10:28	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.579	Response = 1118007	M
RT = 1.869	Response = 1746211	
RT = 2.268	Response = 3793381	
RT = 2.392	Response = 1564599	
RT = 2.777	Response = 1575743	



Manual Integration Results

RT = 1.579	Response = 970441	M
RT = 1.869	Response = 1746211	
RT = 2.268	Response = 3793381	
RT = 2.392	Response = 1564599	
RT = 2.777	Response = 1575743	

Reviewer: hassl, 04-Apr-2013 07:12:58

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-80431/11

Matrix: Solid | Lab File ID: P1200011.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/03/2013 15:10

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0555*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0510*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		50-150
2051-24-3	DCB Decachlorobiphenyl	143	*Q*	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200011.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	03-Apr-2013 15:10:28	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018511-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	11
Lims Batch ID:	80431	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:54	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:12:58

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.299	1.299	0.000	2885686	0.002942			
2	2	1.672	1.672	0.000	7744060	0.002901			
						RPD = 1.40			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									M
1	100	1.579	1.579	0.000	970441	0.0600		100.0	M
1	2	1.869	1.869	0.000	1746211	0.0581	165.5- 215.5	179.9	
1	3	2.268	2.269	-0.001	3793381	0.0593	356.7- 406.7	390.9	
1	4	2.392	2.391	0.001	1564599	0.0579	144.0- 194.0	161.2	
1	5	2.777	2.776	0.001	1575743	0.0558	153.1- 203.1	162.4	
			Average of Peak Amounts =			0.0582			
2	6	2.139	2.139	0.000	2661691	0.0588		100.0	
2	7	2.540	2.539	0.001	4448984	0.0508	165.6- 225.6	167.1	
2	8	2.993	2.994	-0.001	9732648	0.0535	366.1- 426.1	365.7	
2	9	3.132	3.132	0.000	4391032	0.0554	144.6- 204.6	165.0	
2	10	3.618	3.619	-0.001	3869548	0.0587	112.9- 172.9	145.4	
			Average of Peak Amounts =			0.0555			
						RPD = 4.82			
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
10 PCB-1260									
1	100	3.982	3.983	-0.001	2385238	0.0547		100.0	
1	2	4.270	4.271	-0.001	4724078	0.0549	172.1- 222.1	198.1	
1	3	4.550	4.549	0.001	4670448	0.0553	168.4- 218.4	195.8	
1	4	5.249	5.248	0.001	6335332	0.0535	244.3- 294.3	265.6	
1	5	5.531	5.530	0.001	3049253	0.0543	104.3- 154.3	127.8	
			Average of Peak Amounts =			0.0545			
2	6	4.951	4.950	0.001	6874766	0.0529		100.0	
2	7	5.182	5.181	0.001	7622547	0.0525	80.1- 140.1	110.9	
2	8	5.547	5.546	0.001	11457517	0.0496	146.6- 206.6	166.7	
2	9	6.232	6.232	0.000	13423962	0.0499	174.1- 234.1	195.3	
2	10	6.610	6.610	0.000	9974334	0.0498	121.8- 181.8	145.1	
			Average of Peak Amounts =			0.0510			
						RPD = 6.82			
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.681	0.001	3346717	0.003281			
2	2	7.841	7.841	0.000	10560533	0.003570			
						RPD = 8.43			

QC Flag Legend

Review Flags
M - Manually Integrated

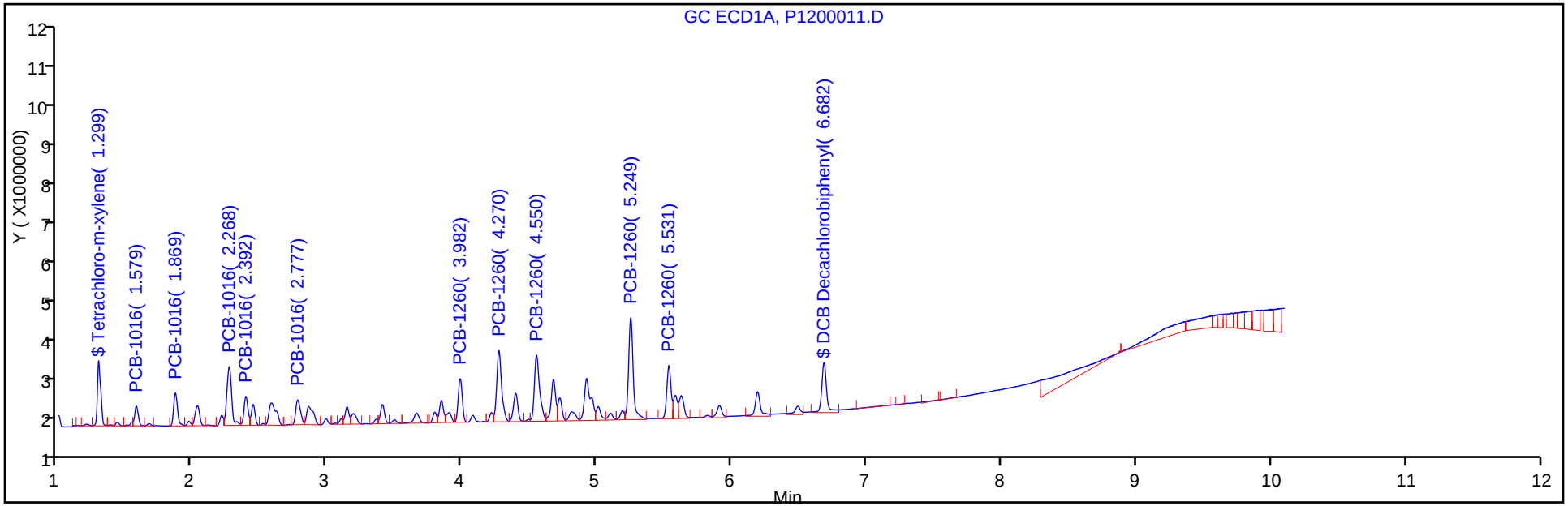
Report Date: 04-Apr-2013 07:27:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

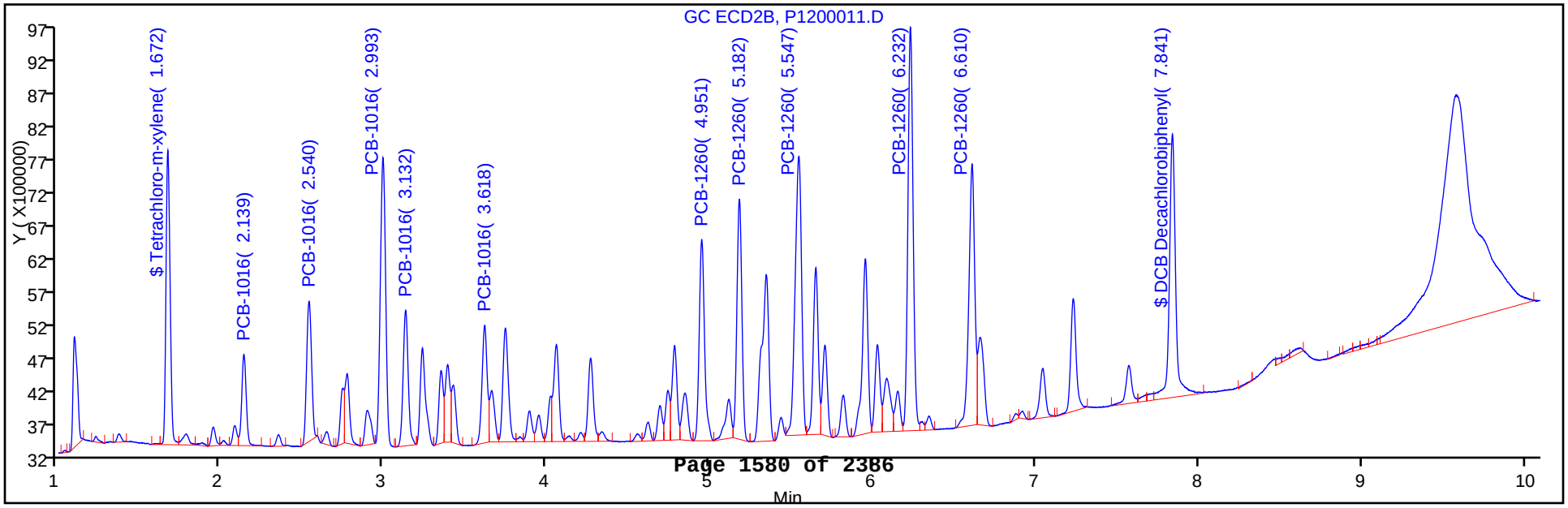
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200011.D

Injection Date:	03-Apr-2013 15:10:28	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS Lab Sample ID: 240-22274-2 MS

Matrix: Solid Lab File ID: P1200006.D

Analysis Method: 8082/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.18(g) Date Analyzed: 04/03/2013 13:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	33	U	67	33	22
12674-11-2	Aroclor-1016	352		88	33	28
11141-16-5	Aroclor-1232	33	U	61	33	19
53469-21-9	Aroclor-1242	33	U	54	33	18
12672-29-6	Aroclor-1248	33	U	74	33	23
11097-69-1	Aroclor-1254	33	U	74	33	23
11096-82-5	Aroclor-1260	352		74	33	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		40-140
2051-24-3	DCB Decachlorobiphenyl	80		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200006.D		
Lims ID:	240-22274-E-2-C MS	Client ID:	
Inject. Date:	03-Apr-2013 13:59:19	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	240-0018511-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	80431	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		
First Level Reviewer: hassl		Date:	04-Apr-2013 07:11:03

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.300	1.299	0.001	15368284	0.0157			
2	2	1.671	1.672	-0.001	41678902	0.0156			
						RPD = 0.35			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100	1.577	1.578	-0.001	11887315	0.7344		100.0	
1	2	1.867	1.869	-0.002	24370135	0.8103	165.5- 215.5	205.0	
1	3	2.268	2.268	0.000	52712178	0.8238	356.7- 406.7	443.4	
1	4	2.390	2.392	-0.002	21803338	0.8069	144.0- 194.0	183.4	
1	5	2.776	2.776	0.000	20775915	0.7353	153.1- 203.1	174.8	
			Average of Peak Amounts =			0.7822			
2	6	2.137	2.138	-0.001	33129822	0.7313		100.0	
2	7	2.538	2.538	0.000	67646760	0.7732	165.6- 225.6	204.2	
2	8	2.992	2.993	-0.001	148965761	0.8189	366.1- 426.1	449.6	
2	9	3.131	3.131	0.000	52416238	0.6618	144.6- 204.6	158.2	
2	10	3.618	3.618	0.000	41009922	0.6224	112.9- 172.9	123.8	
			Average of Peak Amounts =			0.7215			
						RPD = 8.07			
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.981	3.982	-0.001	32332678	0.7416		100.0	
1	2	4.270	4.271	-0.001	66159558	0.7682	172.1- 222.1	204.6	
1	3	4.549	4.548	0.001	66965466	0.7930	168.4- 218.4	207.1	
1	4	5.250	5.249	0.001	95507128	0.8072	244.3- 294.3	295.4	
1	5	5.531	5.532	-0.001	44957994	0.8010	104.3- 154.3	139.0	
			Average of Peak Amounts =			0.7822			
2	6	4.950	4.948	0.002	98027792	0.7548		100.0	
2	7	5.181	5.180	0.001	106118120	0.7305	80.1- 140.1	108.3	
2	8	5.546	5.546	0.000	178686192	0.7730	146.6- 206.6	182.3	
2	9	6.231	6.230	0.001	216189890	0.8044	174.1- 234.1	220.5	
2	10	6.610	6.608	0.002	146463026	0.7318	121.8- 181.8	149.4	
			Average of Peak Amounts =			0.7589			
						RPD = 3.02			
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.683	-0.001	16396944	0.0161			
2	2	7.841	7.838	0.003	39002095	0.0132			
						RPD = 19.77			

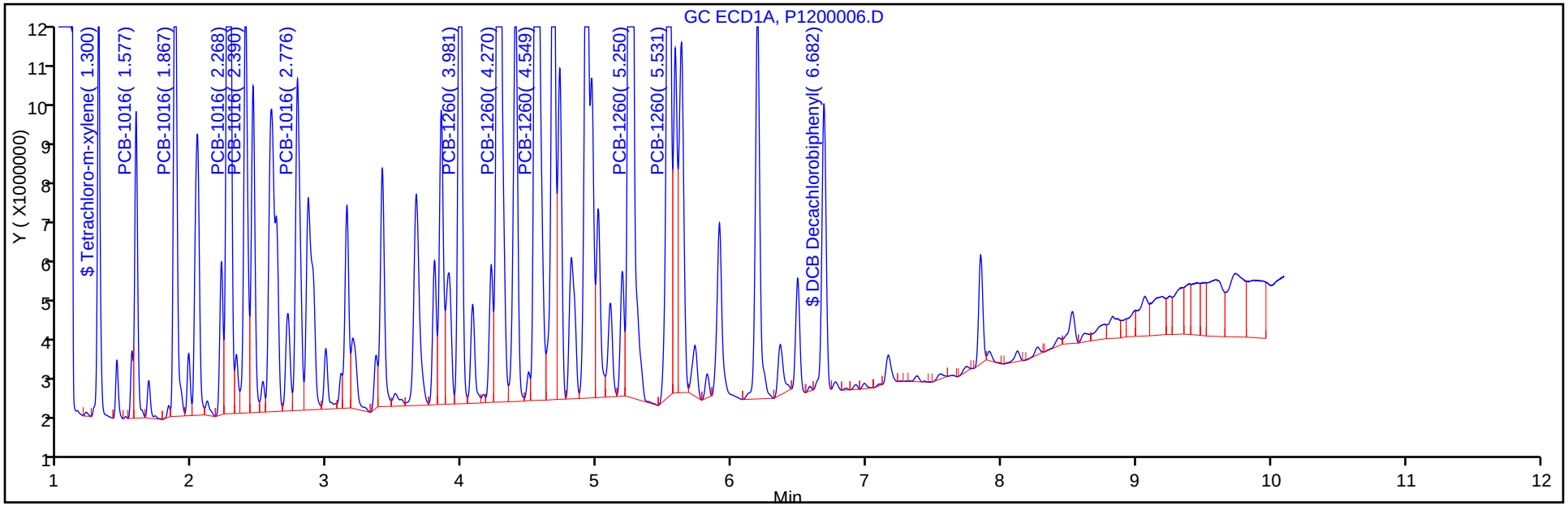
Report Date: 04-Apr-2013 07:27:50 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

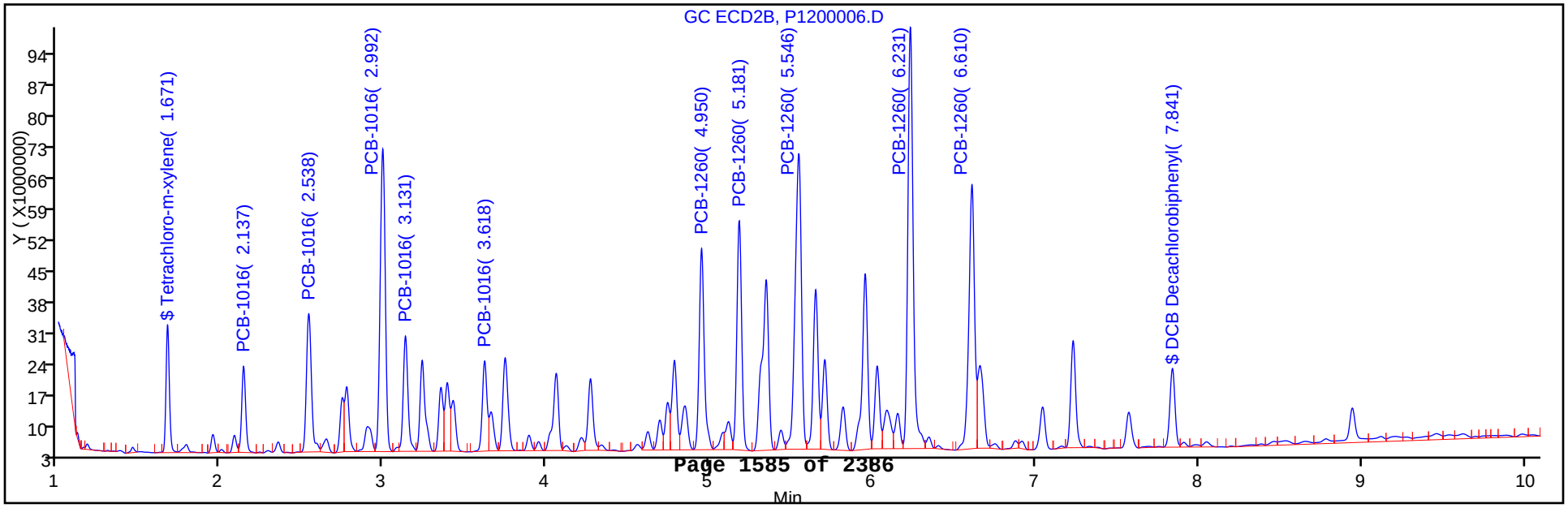
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200006.D

Injection Date:	03-Apr-2013 13:59:19	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS Lab Sample ID: 240-22274-2 MS

Matrix: Solid Lab File ID: P1200006.D

Analysis Method: 8082/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.18(g) Date Analyzed: 04/03/2013 13:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		40-140
2051-24-3	DCB Decachlorobiphenyl	66		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200006.D		
Lims ID:	240-22274-E-2-C MS	Client ID:	
Inject. Date:	03-Apr-2013 13:59:19	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	240-0018511-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	80431	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:11:03

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.300	1.299	0.001	15368284	0.0157			
2	2	1.671	1.672	-0.001	41678902	0.0156			
						RPD = 0.35			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100	1.577	1.578	-0.001	11887315	0.7344		100.0	
1	2	1.867	1.869	-0.002	24370135	0.8103	165.5- 215.5	205.0	
1	3	2.268	2.268	0.000	52712178	0.8238	356.7- 406.7	443.4	
1	4	2.390	2.392	-0.002	21803338	0.8069	144.0- 194.0	183.4	
1	5	2.776	2.776	0.000	20775915	0.7353	153.1- 203.1	174.8	
			Average of Peak Amounts =			0.7822			
2	6	2.137	2.138	-0.001	33129822	0.7313		100.0	
2	7	2.538	2.538	0.000	67646760	0.7732	165.6- 225.6	204.2	
2	8	2.992	2.993	-0.001	148965761	0.8189	366.1- 426.1	449.6	
2	9	3.131	3.131	0.000	52416238	0.6618	144.6- 204.6	158.2	
2	10	3.618	3.618	0.000	41009922	0.6224	112.9- 172.9	123.8	
			Average of Peak Amounts =			0.7215			
						RPD = 8.07			
7 PCB-1248									
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.981	3.982	-0.001	32332678	0.7416		100.0	
1	2	4.270	4.271	-0.001	66159558	0.7682	172.1- 222.1	204.6	
1	3	4.549	4.548	0.001	66965466	0.7930	168.4- 218.4	207.1	
1	4	5.250	5.249	0.001	95507128	0.8072	244.3- 294.3	295.4	
1	5	5.531	5.532	-0.001	44957994	0.8010	104.3- 154.3	139.0	
			Average of Peak Amounts =			0.7822			
2	6	4.950	4.948	0.002	98027792	0.7548		100.0	
2	7	5.181	5.180	0.001	106118120	0.7305	80.1- 140.1	108.3	
2	8	5.546	5.546	0.000	178686192	0.7730	146.6- 206.6	182.3	
2	9	6.231	6.230	0.001	216189890	0.8044	174.1- 234.1	220.5	
2	10	6.610	6.608	0.002	146463026	0.7318	121.8- 181.8	149.4	
			Average of Peak Amounts =			0.7589			
						RPD = 3.02			
9 PCB-1262									
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.682	6.683	-0.001	16396944	0.0161			
2	2	7.841	7.838	0.003	39002095	0.0132			
						RPD = 19.77			

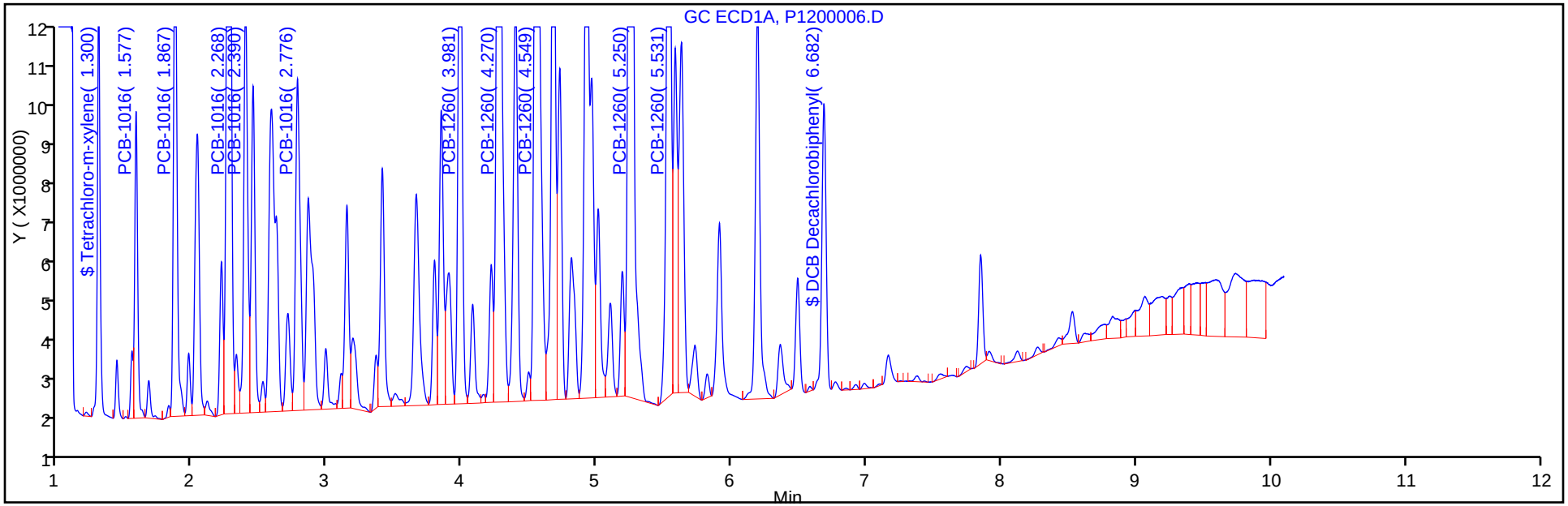
Report Date: 04-Apr-2013 07:27:51 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

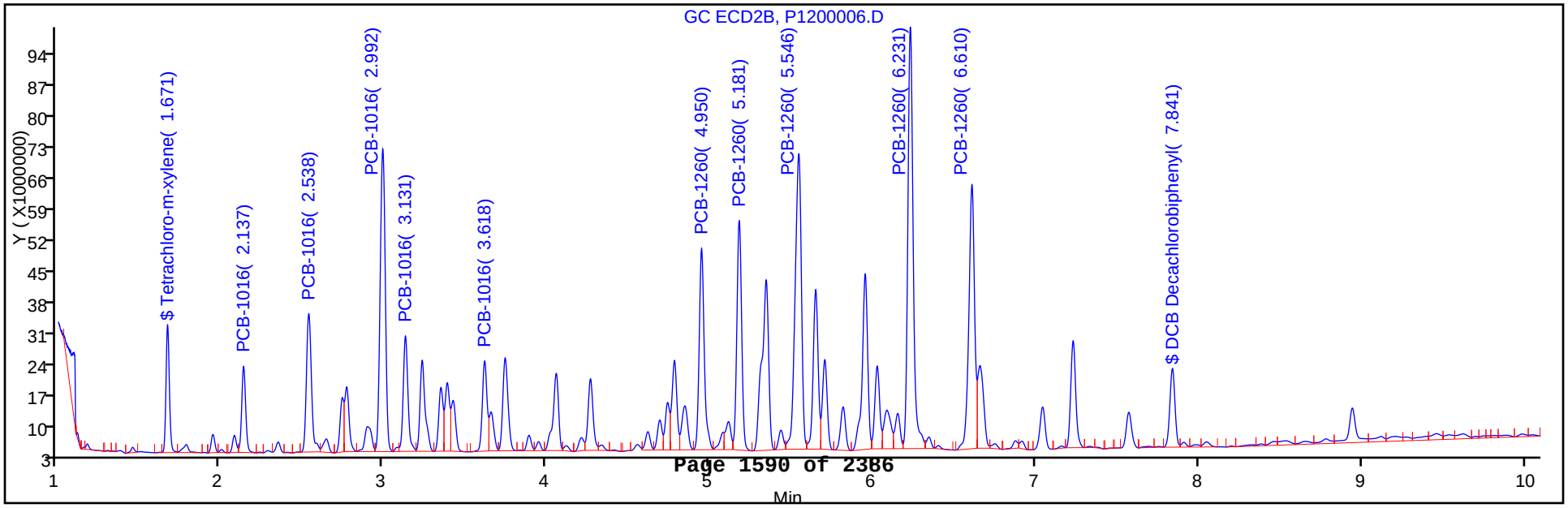
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200006.D

Injection Date:	03-Apr-2013 13:59:19	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD | Lab Sample ID: 240-22274-2 MSD

Matrix: Solid | Lab File ID: P1200007.D

Analysis Method: 8082/DOD | Date Collected: 03/20/2013 11:30

Extraction Method: 3540C | Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.27(g) | Date Analyzed: 04/03/2013 14:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 26.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	33	U	67	33	22
12674-11-2	Aroclor-1016	336		87	33	28
11141-16-5	Aroclor-1232	33	U	61	33	19
53469-21-9	Aroclor-1242	33	U	54	33	17
12672-29-6	Aroclor-1248	33	U	74	33	23
11097-69-1	Aroclor-1254	33	U	74	33	23
11096-82-5	Aroclor-1260	299		74	33	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		40-140
2051-24-3	DCB Decachlorobiphenyl	66		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200007.D
Lims ID: 240-22274-E-2-D MSD Client ID:
Inject. Date: 03-Apr-2013 14:13:27 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 240-0018511-007
Misc. Info.:
Operator: Instrument ID: A2HP12
Injection Vol: 1.0 uL ALS Bottle#: 7
Lims Batch ID: 80431 Lims Sample ID: 7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m
Last Update: 04-Apr-2013 07:27:47 Calib Date: 01-Apr-2013 19:55:41
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

First Level Reviewer: hassl Date: 04-Apr-2013 07:11:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.300	1.299	0.001	15535905	0.0158			
2	2	1.672	1.672	0.000	40858462	0.0153			
						RPD = 3.42			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100	1.578	1.578	0.000	11842058	0.7316		100.0	
1	2	1.868	1.869	-0.001	23944839	0.7962	165.5- 215.5	202.2	
1	3	2.268	2.268	0.000	50927580	0.7960	356.7- 406.7	430.1	
1	4	2.391	2.392	-0.001	20497125	0.7586	144.0- 194.0	173.1	
1	5	2.776	2.776	0.000	18756611	0.6639	153.1- 203.1	158.4	
			Average of Peak Amounts =			0.7492			
2	6	2.139	2.138	0.001	32734068	0.7226		100.0	
2	7	2.539	2.538	0.001	68253863	0.7801	165.6- 225.6	208.5	
2	8	2.994	2.993	0.001	146680249	0.8064	366.1- 426.1	448.1	
2	9	3.132	3.131	0.001	53564855	0.6763	144.6- 204.6	163.6	
2	10	3.619	3.618	0.001	41421297	0.6287	112.9- 172.9	126.5	
			Average of Peak Amounts =			0.7228			
						RPD = 3.59			
7 PCB-1248									M
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									M
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.984	3.982	0.002	28366660	0.6506		100.0	M
1	2	4.272	4.271	0.001	55964459	0.6498	172.1- 222.1	197.3	M
1	3	4.551	4.548	0.003	56503777	0.6691	168.4- 218.4	199.2	M
1	4	5.251	5.249	0.002	79515022	0.6720	244.3- 294.3	280.3	M
1	5	5.534	5.532	0.002	39074232	0.6962	104.3- 154.3	137.7	M
			Average of Peak Amounts =			0.6676			
2	6	4.952	4.948	0.004	75802493	0.5837		100.0	
2	7	5.183	5.180	0.003	83162671	0.5725	80.1- 140.1	109.7	
2	8	5.549	5.546	0.003	128885474	0.5576	146.6- 206.6	170.0	
2	9	6.234	6.230	0.004	156234793	0.5813	174.1- 234.1	206.1	
2	10	6.611	6.608	0.003	107168353	0.5355	121.8- 181.8	141.4	
			Average of Peak Amounts =			0.5661			
						RPD = 16.45			
9 PCB-1262									M
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									M
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.685	6.683	0.002	13429103	0.0132			
2	2	7.842	7.838	0.004	31754872	0.0107			
						RPD = 20.35			

QC Flag Legend

Review Flags
M - Manually Integrated

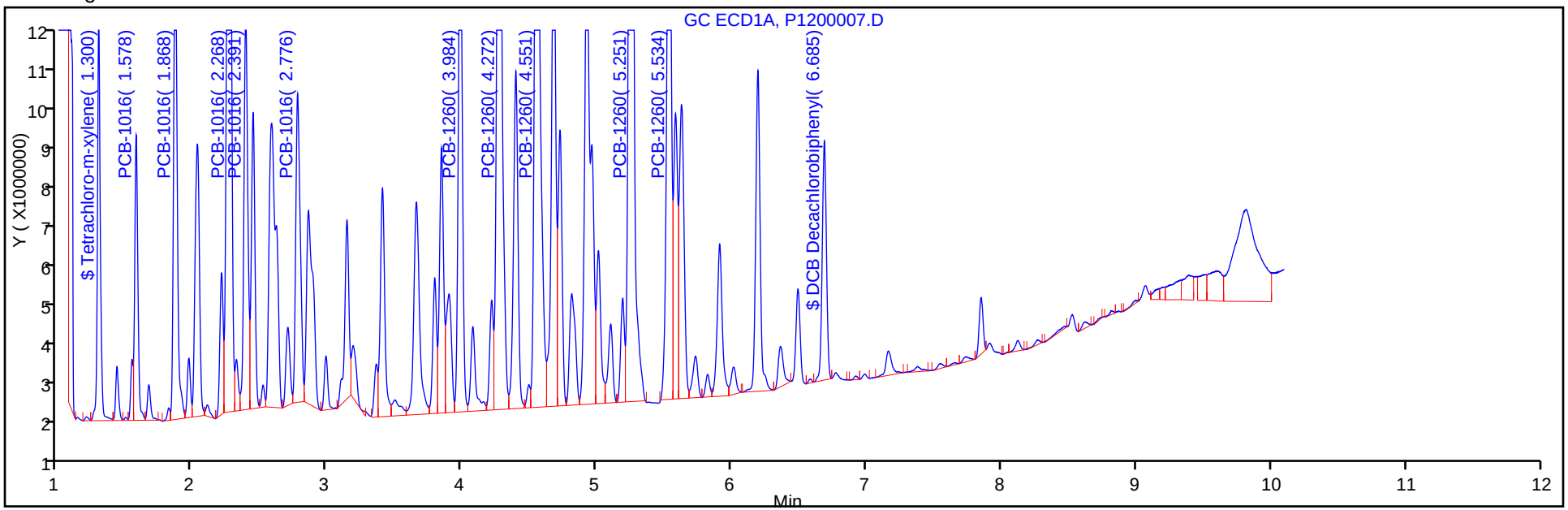
Report Date: 04-Apr-2013 07:27:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

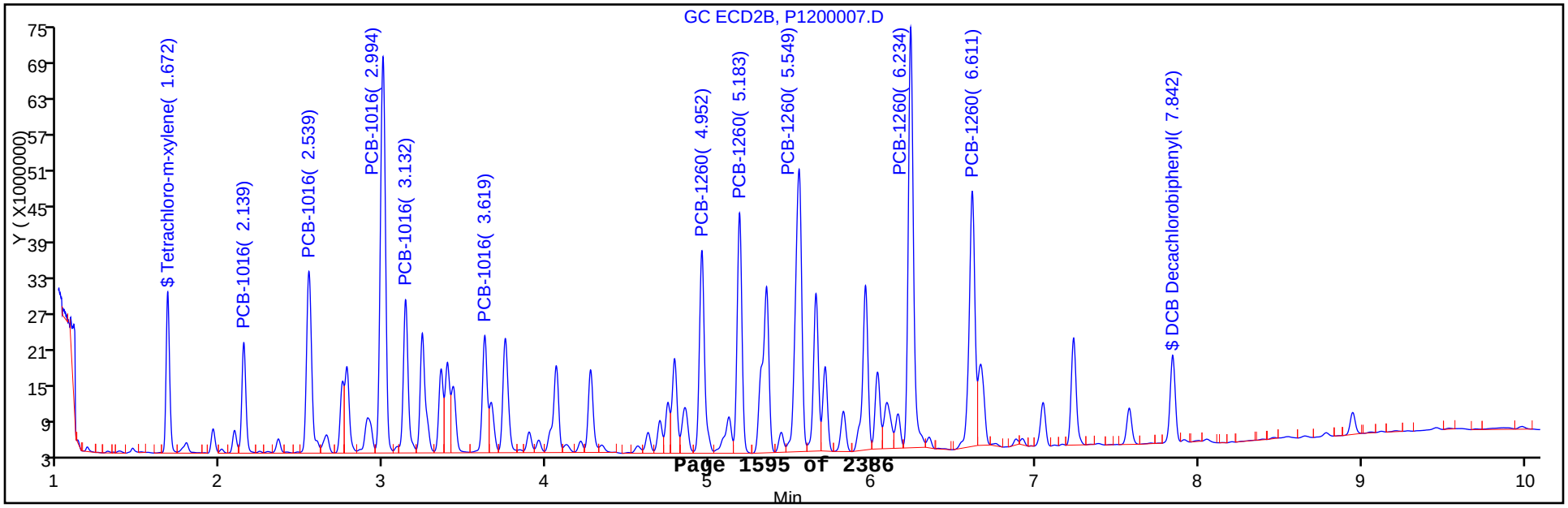
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200007.D

Injection Date:	03-Apr-2013 14:13:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



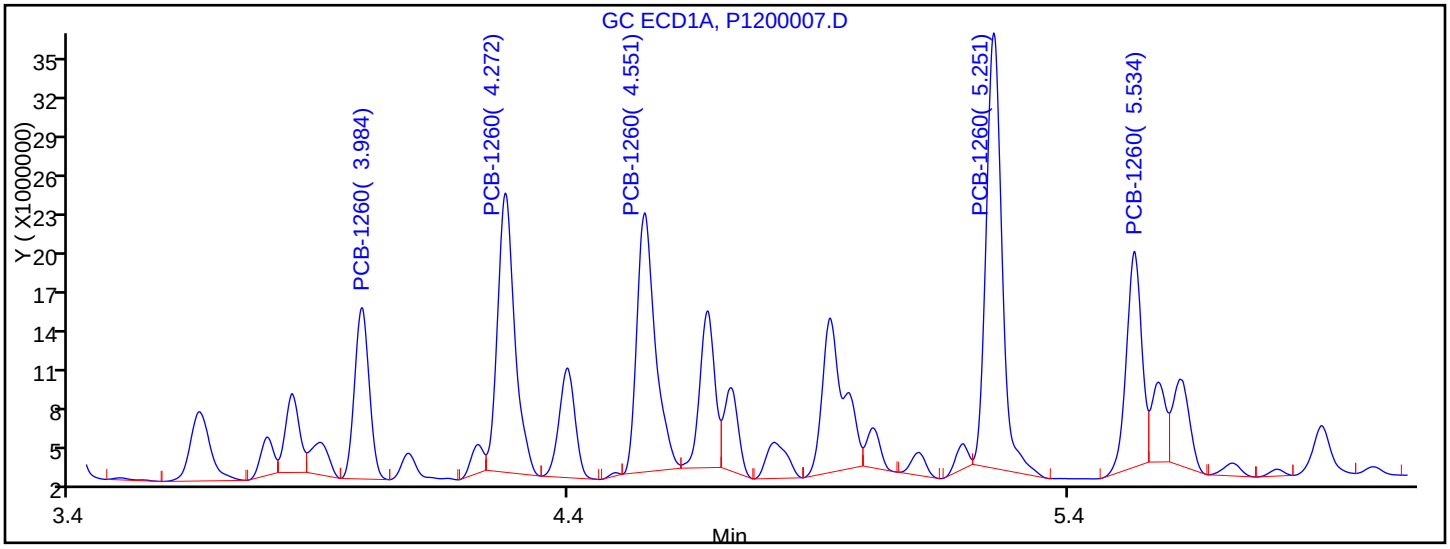
Report Date: 04-Apr-2013 07:27:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200007.D

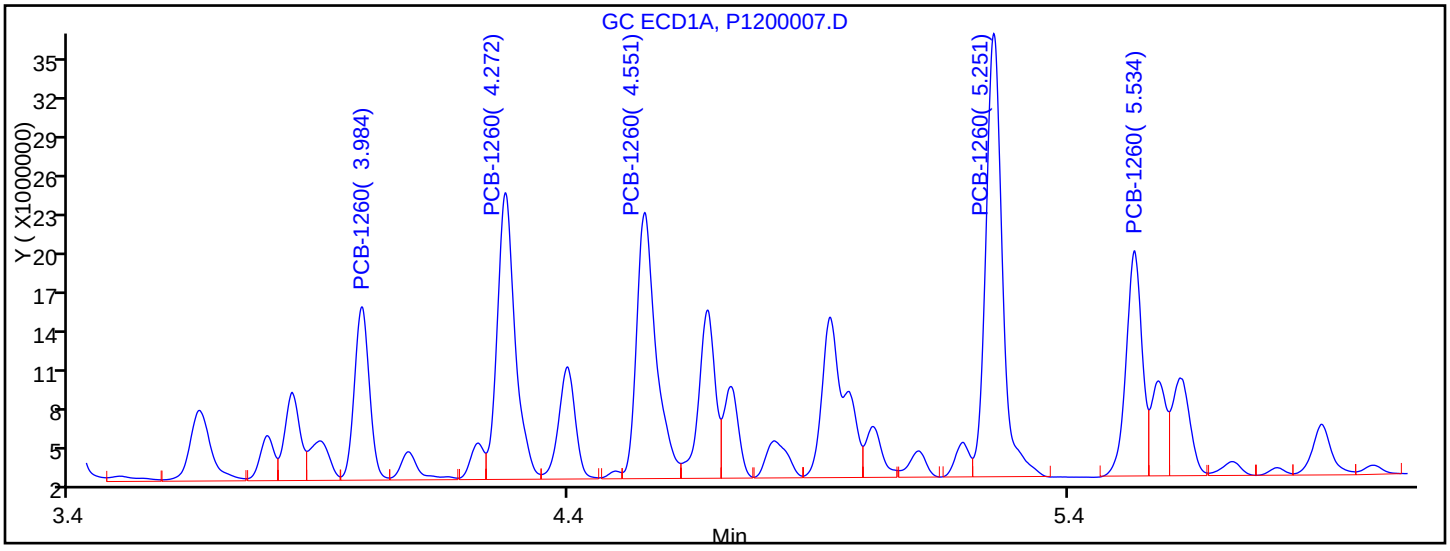
Injection Date:	03-Apr-2013 14:13:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.984	Response = 27131884	M
RT = 4.272	Response = 51987656	M
RT = 4.551	Response = 51601341	M
RT = 5.251	Response = 74702100	M
RT = 5.534	Response = 35853433	M



Manual Integration Results

RT = 3.984	Response = 28366660	M
RT = 4.272	Response = 55964459	M
RT = 4.551	Response = 56503777	M
RT = 5.251	Response = 79515022	M
RT = 5.534	Response = 39074232	M

Reviewer: hassl, 04-Apr-2013 07:11:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD Lab Sample ID: 240-22274-2 MSD

Matrix: Solid Lab File ID: P1200007.D

Analysis Method: 8082/DOD Date Collected: 03/20/2013 11:30

Extraction Method: 3540C Date Extracted: 03/29/2013 08:45

Sample wt/vol: 30.27(g) Date Analyzed: 04/03/2013 14:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 80431 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		40-140
2051-24-3	DCB Decachlorobiphenyl	54	Q	60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200007.D		
Lims ID:	240-22274-E-2-D MSD	Client ID:	
Inject. Date:	03-Apr-2013 14:13:27	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	240-0018511-007		
Misc. Info.:			
Operator:		Instrument ID:	A2HP12
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	80431	Lims Sample ID:	7
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP12\20130403-18511.b\PCB12.m		
Last Update:	04-Apr-2013 07:27:47	Calib Date:	01-Apr-2013 19:55:41
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP12\20130401-18420.b\P1200044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK034		

First Level Reviewer: hassl Date: 04-Apr-2013 07:11:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.300	1.299	0.001	15535905	0.0158			
2	2	1.672	1.672	0.000	40858462	0.0153			
						RPD = 3.42			
3 PCB-1221									
1	2		1.433						
1	3		1.545						
1	4		1.575						
2	4		1.948						
2	5		2.080						
2	6		2.137						
5 PCB-1242									
1	100		1.576						
1	2		1.866						
1	3		2.267						
1	4		2.390						
1	5		2.775						
2	6		2.136						
2	7		2.536						
2	8		2.991						
2	9		3.130						
2	10		3.616						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.576						
1	2		1.868						
1	3		2.268						
1	4		2.391						
1	5		2.775						
2	6		2.138						
2	7		2.537						
2	8		2.992						
2	9		3.131						
2	10		3.743						
6 PCB-1016									
1	100	1.578	1.578	0.000	11842058	0.7316		100.0	
1	2	1.868	1.869	-0.001	23944839	0.7962	165.5- 215.5	202.2	
1	3	2.268	2.268	0.000	50927580	0.7960	356.7- 406.7	430.1	
1	4	2.391	2.392	-0.001	20497125	0.7586	144.0- 194.0	173.1	
1	5	2.776	2.776	0.000	18756611	0.6639	153.1- 203.1	158.4	
			Average of Peak Amounts =			0.7492			
2	6	2.139	2.138	0.001	32734068	0.7226		100.0	
2	7	2.539	2.538	0.001	68253863	0.7801	165.6- 225.6	208.5	
2	8	2.994	2.993	0.001	146680249	0.8064	366.1- 426.1	448.1	
2	9	3.132	3.131	0.001	53564855	0.6763	144.6- 204.6	163.6	
2	10	3.619	3.618	0.001	41421297	0.6287	112.9- 172.9	126.5	
			Average of Peak Amounts =			0.7228			
						RPD = 3.59			
7 PCB-1248									M
1	86		1.867						
1	2		2.265						
1	3		2.775						
1	4		3.357						
1	5		3.793						
2	6		2.536						
2	7		2.990						
2	8		3.617						
2	9		4.061						
2	10		4.740						
8 PCB-1254									M
1	100		3.405						
1	2		3.792						
1	3		4.074						
1	4		4.266						
1	5		4.549						
2	6		4.265						
2	7		4.740						
2	8		4.985						
2	9		5.345						
2	10		5.548						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.984	3.982	0.002	28366660	0.6506		100.0	M
1	2	4.272	4.271	0.001	55964459	0.6498	172.1- 222.1	197.3	M
1	3	4.551	4.548	0.003	56503777	0.6691	168.4- 218.4	199.2	M
1	4	5.251	5.249	0.002	79515022	0.6720	244.3- 294.3	280.3	M
1	5	5.534	5.532	0.002	39074232	0.6962	104.3- 154.3	137.7	M
			Average of Peak Amounts =			0.6676			
2	6	4.952	4.948	0.004	75802493	0.5837		100.0	
2	7	5.183	5.180	0.003	83162671	0.5725	80.1- 140.1	109.7	
2	8	5.549	5.546	0.003	128885474	0.5576	146.6- 206.6	170.0	
2	9	6.234	6.230	0.004	156234793	0.5813	174.1- 234.1	206.1	
2	10	6.611	6.608	0.003	107168353	0.5355	121.8- 181.8	141.4	
			Average of Peak Amounts =			0.5661			
						RPD = 16.45			
9 PCB-1262									M
1	100		3.982						
1	2		4.270						
1	3		4.675						
1	4		5.247						
1	5		5.581						
2	6		5.180						
2	7		5.650						
2	8		5.955						
2	9		6.231						
2	10		6.608						
11 PCB-1268									M
1	100		5.579						
1	2		5.617						
1	3		5.815						
1	4		6.189						
1	5		6.487						
2	6		6.606						
2	7		6.654						
2	8		6.917						
2	9		7.230						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.685	6.683	0.002	13429103	0.0132			
2	2	7.842	7.838	0.004	31754872	0.0107			
						RPD = 20.35			

QC Flag Legend

Review Flags
M - Manually Integrated

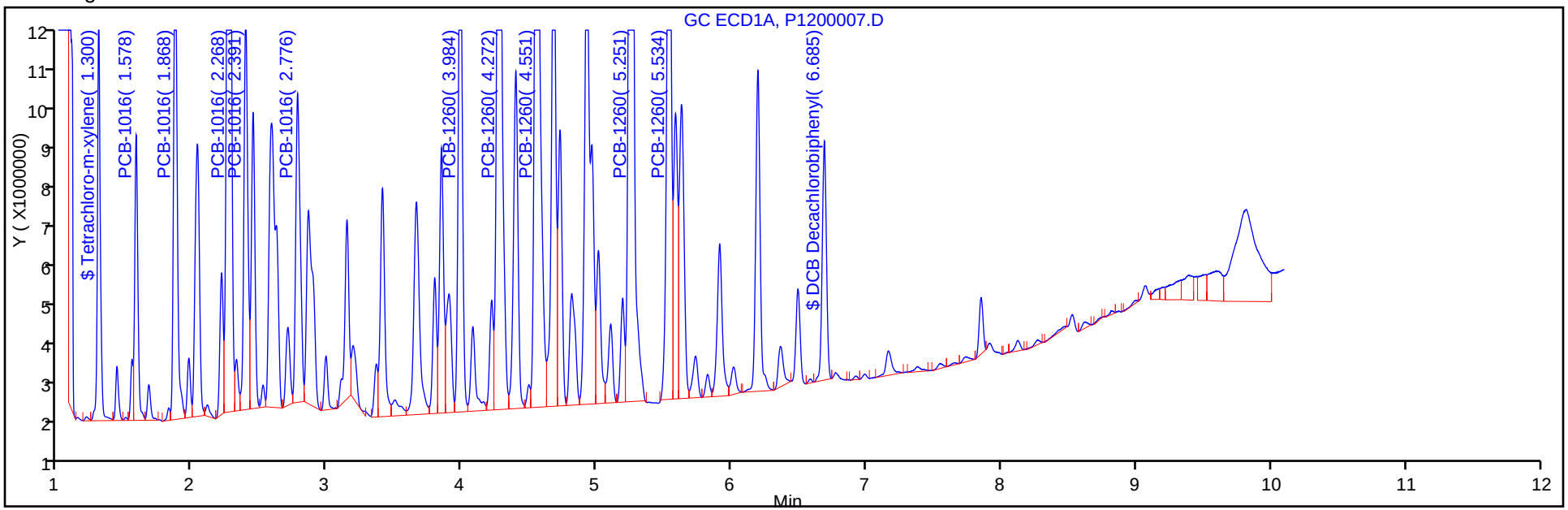
Report Date: 04-Apr-2013 07:27:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

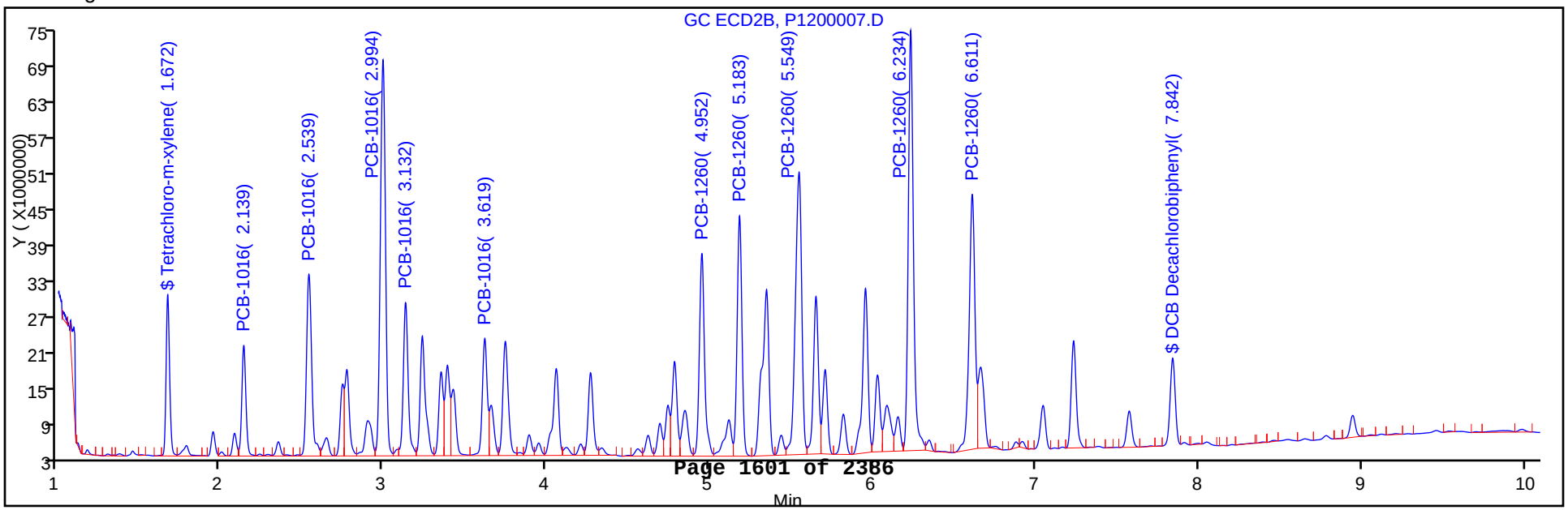
Data File: \\Ncchrom\ChromData\A2HP12\20130403-18511.b\P1200007.D

Injection Date:	03-Apr-2013 14:13:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP12
Lims Batch ID:	80431	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling:



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Start Date: 04/01/2013 10:09

Analysis Batch Number: 80043 End Date: 04/01/2013 21:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-80043/3 IC		04/01/2013 10:09	1	P1200003.D	CLP-1 0.53(mm)
STD005 240-80043/3 IC		04/01/2013 10:09	1	P1200003.D	CLP-2 0.53(mm)
STD01 240-80043/4 IC		04/01/2013 10:23	1	P1200004.D	CLP-1 0.53(mm)
STD01 240-80043/4 IC		04/01/2013 10:23	1	P1200004.D	CLP-2 0.53(mm)
STD02 240-80043/5 IC		04/01/2013 10:38	1	P1200005.D	CLP-1 0.53(mm)
STD02 240-80043/5 IC		04/01/2013 10:38	1	P1200005.D	CLP-2 0.53(mm)
STD05 240-80043/6 IC		04/01/2013 10:52	1	P1200006.D	CLP-1 0.53(mm)
STD05 240-80043/6 IC		04/01/2013 10:52	1	P1200006.D	CLP-2 0.53(mm)
STD1 240-80043/7 IC		04/01/2013 11:07	1	P1200007.D	CLP-1 0.53(mm)
STD1 240-80043/7 IC		04/01/2013 11:07	1	P1200007.D	CLP-2 0.53(mm)
STD2 240-80043/8 IC		04/01/2013 11:21	1	P1200008.D	CLP-1 0.53(mm)
STD2 240-80043/8 IC		04/01/2013 11:21	1	P1200008.D	CLP-2 0.53(mm)
STD005 240-80043/9 IC		04/01/2013 11:35	1	P1200009.D	CLP-1 0.53(mm)
STD005 240-80043/9 IC		04/01/2013 11:35	1	P1200009.D	CLP-2 0.53(mm)
STD01 240-80043/10 IC		04/01/2013 11:50	1	P1200010.D	CLP-1 0.53(mm)
STD01 240-80043/10 IC		04/01/2013 11:50	1	P1200010.D	CLP-2 0.53(mm)
STD02 240-80043/11 IC		04/01/2013 12:05	1	P1200011.D	CLP-1 0.53(mm)
STD02 240-80043/11 IC		04/01/2013 12:05	1	P1200011.D	CLP-2 0.53(mm)
STD05 240-80043/12 IC		04/01/2013 12:19	1	P1200012.D	CLP-1 0.53(mm)
STD05 240-80043/12 IC		04/01/2013 12:19	1	P1200012.D	CLP-2 0.53(mm)
STD1 240-80043/13 IC		04/01/2013 12:33	1	P1200013.D	CLP-1 0.53(mm)
STD1 240-80043/13 IC		04/01/2013 12:33	1	P1200013.D	CLP-2 0.53(mm)
STD2 240-80043/14 IC		04/01/2013 12:48	1	P1200014.D	CLP-1 0.53(mm)
STD2 240-80043/14 IC		04/01/2013 12:48	1	P1200014.D	CLP-2 0.53(mm)
STD005 240-80043/15 IC		04/01/2013 13:02	1	P1200015.D	CLP-1 0.53(mm)
STD005 240-80043/15 IC		04/01/2013 13:02	1	P1200015.D	CLP-2 0.53(mm)
STD01 240-80043/16 IC		04/01/2013 13:16	1	P1200016.D	CLP-1 0.53(mm)
STD01 240-80043/16 IC		04/01/2013 13:16	1	P1200016.D	CLP-2 0.53(mm)
STD02 240-80043/17 IC		04/01/2013 13:31	1	P1200017.D	CLP-1 0.53(mm)
STD02 240-80043/17 IC		04/01/2013 13:31	1	P1200017.D	CLP-2 0.53(mm)
STD05 240-80043/18 IC		04/01/2013 13:45	1	P1200018.D	CLP-1 0.53(mm)
STD05 240-80043/18 IC		04/01/2013 13:45	1	P1200018.D	CLP-2 0.53(mm)
STD1 240-80043/19 IC		04/01/2013 13:59	1	P1200019.D	CLP-1 0.53(mm)
STD1 240-80043/19 IC		04/01/2013 13:59	1	P1200019.D	CLP-2 0.53(mm)
STD2 240-80043/20 IC		04/01/2013 14:13	1	P1200020.D	CLP-1 0.53(mm)
STD2 240-80043/20 IC		04/01/2013 14:13	1	P1200020.D	CLP-2 0.53(mm)
STD005 240-80043/21 IC		04/01/2013 14:28	1	P1200021.D	CLP-1 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Start Date: 04/01/2013 10:09

Analysis Batch Number: 80043 End Date: 04/01/2013 21:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-80043/21 IC		04/01/2013 14:28	1	P1200021.D	CLP-2 0.53(mm)
STD01 240-80043/22 IC		04/01/2013 14:42	1	P1200022.D	CLP-1 0.53(mm)
STD01 240-80043/22 IC		04/01/2013 14:42	1	P1200022.D	CLP-2 0.53(mm)
STD02 240-80043/23 IC		04/01/2013 14:56	1	P1200023.D	CLP-1 0.53(mm)
STD02 240-80043/23 IC		04/01/2013 14:56	1	P1200023.D	CLP-2 0.53(mm)
STD05 240-80043/24 IC		04/01/2013 15:11	1	P1200024.D	CLP-1 0.53(mm)
STD05 240-80043/24 IC		04/01/2013 15:11	1	P1200024.D	CLP-2 0.53(mm)
STD1 240-80043/25 IC		04/01/2013 15:25	1	P1200025.D	CLP-1 0.53(mm)
STD1 240-80043/25 IC		04/01/2013 15:25	1	P1200025.D	CLP-2 0.53(mm)
STD2 240-80043/26 IC		04/01/2013 15:39	1	P1200026.D	CLP-1 0.53(mm)
STD2 240-80043/26 IC		04/01/2013 15:39	1	P1200026.D	CLP-2 0.53(mm)
STD005 240-80043/27 IC		04/01/2013 15:53	1	P1200027.D	CLP-1 0.53(mm)
STD005 240-80043/27 IC		04/01/2013 15:53	1	P1200027.D	CLP-2 0.53(mm)
STD01 240-80043/28 IC		04/01/2013 16:08	1	P1200028.D	CLP-1 0.53(mm)
STD01 240-80043/28 IC		04/01/2013 16:08	1	P1200028.D	CLP-2 0.53(mm)
STD02 240-80043/29 IC		04/01/2013 16:22	1	P1200029.D	CLP-1 0.53(mm)
STD02 240-80043/29 IC		04/01/2013 16:22	1	P1200029.D	CLP-2 0.53(mm)
STD05 240-80043/30 ICRT		04/01/2013 16:36	1	P1200030.D	CLP-1 0.53(mm)
STD05 240-80043/30 ICRT		04/01/2013 16:36	1	P1200030.D	CLP-2 0.53(mm)
STD1 240-80043/31 IC		04/01/2013 16:50	1	P1200031.D	CLP-1 0.53(mm)
STD1 240-80043/31 IC		04/01/2013 16:50	1	P1200031.D	CLP-2 0.53(mm)
STD2 240-80043/32 IC		04/01/2013 17:05	1	P1200032.D	CLP-1 0.53(mm)
STD2 240-80043/32 IC		04/01/2013 17:05	1	P1200032.D	CLP-2 0.53(mm)
STD005 240-80043/33 IC		04/01/2013 17:19	1		CLP-1 0.53(mm)
STD005 240-80043/33 IC		04/01/2013 17:19	1		CLP-2 0.53(mm)
STD01 240-80043/34 IC		04/01/2013 17:33	1		CLP-1 0.53(mm)
STD01 240-80043/34 IC		04/01/2013 17:33	1		CLP-2 0.53(mm)
STD02 240-80043/35 IC		04/01/2013 17:47	1		CLP-1 0.53(mm)
STD02 240-80043/35 IC		04/01/2013 17:47	1		CLP-2 0.53(mm)
STD05 240-80043/36 IC		04/01/2013 18:01	1		CLP-1 0.53(mm)
STD05 240-80043/36 IC		04/01/2013 18:01	1		CLP-2 0.53(mm)
STD1 240-80043/37 IC		04/01/2013 18:15	1		CLP-1 0.53(mm)
STD1 240-80043/37 IC		04/01/2013 18:15	1		CLP-2 0.53(mm)
STD2 240-80043/38 IC		04/01/2013 18:30	1		CLP-1 0.53(mm)
STD2 240-80043/38 IC		04/01/2013 18:30	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Start Date: 04/01/2013 10:09

Analysis Batch Number: 80043 End Date: 04/01/2013 21:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-80043/39 IC		04/01/2013 18:44	1		CLP-1 0.53(mm)
STD005 240-80043/39 IC		04/01/2013 18:44	1		CLP-2 0.53(mm)
STD01 240-80043/40 IC		04/01/2013 18:58	1		CLP-1 0.53(mm)
STD01 240-80043/40 IC		04/01/2013 18:58	1		CLP-2 0.53(mm)
STD02 240-80043/41 IC		04/01/2013 19:12	1		CLP-1 0.53(mm)
STD02 240-80043/41 IC		04/01/2013 19:12	1		CLP-2 0.53(mm)
STD05 240-80043/42 IC		04/01/2013 19:26	1		CLP-1 0.53(mm)
STD05 240-80043/42 IC		04/01/2013 19:26	1		CLP-2 0.53(mm)
STD1 240-80043/43 IC		04/01/2013 19:41	1		CLP-1 0.53(mm)
STD1 240-80043/43 IC		04/01/2013 19:41	1		CLP-2 0.53(mm)
STD2 240-80043/44 IC		04/01/2013 19:55	1		CLP-1 0.53(mm)
STD2 240-80043/44 IC		04/01/2013 19:55	1		CLP-2 0.53(mm)
ICV 240-80043/45		04/01/2013 20:09	1	P1200045.D	CLP-1 0.53(mm)
ICV 240-80043/45		04/01/2013 20:09	1	P1200045.D	CLP-2 0.53(mm)
ICV 240-80043/46		04/01/2013 20:23	1	P1200046.D	CLP-1 0.53(mm)
ICV 240-80043/46		04/01/2013 20:23	1	P1200046.D	CLP-2 0.53(mm)
ICV 240-80043/47		04/01/2013 20:38	1	P1200047.D	CLP-1 0.53(mm)
ICV 240-80043/47		04/01/2013 20:38	1	P1200047.D	CLP-2 0.53(mm)
ICV 240-80043/48		04/01/2013 20:52	1	P1200048.D	CLP-1 0.53(mm)
ICV 240-80043/48		04/01/2013 20:52	1	P1200048.D	CLP-2 0.53(mm)
ICV 240-80043/49		04/01/2013 21:06	1	P1200049.D	CLP-1 0.53(mm)
ICV 240-80043/49		04/01/2013 21:06	1	P1200049.D	CLP-2 0.53(mm)
ICV 240-80043/50		04/01/2013 21:20	1	P1200050.D	CLP-1 0.53(mm)
ICV 240-80043/50		04/01/2013 21:20	1	P1200050.D	CLP-2 0.53(mm)
ICV 240-80043/51		04/01/2013 21:35	1		CLP-1 0.53(mm)
ICV 240-80043/51		04/01/2013 21:35	1		CLP-2 0.53(mm)
ICV 240-80043/52		04/01/2013 21:49	1		CLP-1 0.53(mm)
ICV 240-80043/52		04/01/2013 21:49	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: A2HP12 Start Date: 04/03/2013 13:16

Analysis Batch Number: 80431 End Date: 04/03/2013 15:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-80431/3 CCVRT		04/03/2013 13:16	1	P1200003.D	CLP-1 0.53(mm)
CCV 240-80431/3 CCVRT		04/03/2013 13:16	1	P1200003.D	CLP-2 0.53(mm)
MRL 240-80431/4		04/03/2013 13:31	1	P1200004.D	CLP-1 0.53(mm)
MRL 240-80431/4		04/03/2013 13:31	1	P1200004.D	CLP-2 0.53(mm)
240-22274-2	079SD-0309-0001-SD	04/03/2013 13:45	1	P1200005.D	CLP-1 0.53(mm)
240-22274-2	079SD-0309-0001-SD	04/03/2013 13:45	1	P1200005.D	CLP-2 0.53(mm)
240-22274-2 MS	079SD-0309-0001-SD MS	04/03/2013 13:59	1	P1200006.D	CLP-1 0.53(mm)
240-22274-2 MS	079SD-0309-0001-SD MS	04/03/2013 13:59	1	P1200006.D	CLP-2 0.53(mm)
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/03/2013 14:13	1	P1200007.D	CLP-1 0.53(mm)
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/03/2013 14:13	1	P1200007.D	CLP-2 0.53(mm)
MB 240-79894/23-A		04/03/2013 14:28	1	P1200008.D	CLP-1 0.53(mm)
MB 240-79894/23-A		04/03/2013 14:28	1	P1200008.D	CLP-2 0.53(mm)
LCS 240-79894/24-A		04/03/2013 14:42	1	P1200009.D	CLP-1 0.53(mm)
LCS 240-79894/24-A		04/03/2013 14:42	1	P1200009.D	CLP-2 0.53(mm)
CCV 240-80431/10		04/03/2013 14:56	1	P1200010.D	CLP-1 0.53(mm)
CCV 240-80431/10		04/03/2013 14:56	1	P1200010.D	CLP-2 0.53(mm)
MRL 240-80431/11		04/03/2013 15:10	1	P1200011.D	CLP-1 0.53(mm)
MRL 240-80431/11		04/03/2013 15:10	1	P1200011.D	CLP-2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79894 Batch Start Date: 04/01/13 15:30 Batch Analyst: Moore, Matthew

Batch Method: 3540C Batch End Date: 04/02/13 03:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX10PPMSPK 00007	EX2/.2SURRW 00022		
240-22274-E-2	079SD-0309-0001-SD	3540C, 8082/DOD	T	30.65 g	10 mL		1 mL		
240-22274-E-2 MS	079SD-0309-0001-SD	3540C, 8082/DOD	T	30.18 g	10 mL	1 mL	1 mL		
240-22274-E-2 MSD	079SD-0309-0001-SD	3540C, 8082/DOD	T	30.27 g	10 mL	1 mL	1 mL		
MB 240-79894/23		3540C, 8082/DOD		30.00 g	10 mL		1 mL		
LCS 240-79894/24		3540C, 8082/DOD		30.00 g	10 mL	1 mL	1 mL		

Batch Notes	
Acid used for Clean Up Reagent	724998
Balance ID	b036
Exchange Solvent Lot #	804965
Na2SO4 Lot Number	857437
Prep Solvent Lot #	908883

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8330 Nitroguanidine

Nitroguanidine (HPLC) by Method 8330

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 320-0003783-008-1.d

Lab ID: LCS 320-13506/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Nitroguanidine	1.00	0.931	93	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 320-0003783-010-1.d

Lab ID: 240-22274-2 MS Client ID: 079SD-0309-0001-SD MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Nitroguanidine	0.995	0.097 J	0.817	72	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 320-0003783-012-1.d

Lab ID: 240-22274-2 MSD Client ID: 079SD-0309-0001-SD MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitroguanidine	0.980	0.792	71	3	20	72-121	J

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab File ID: 320-0003783-007-1.d Lab Sample ID: MB 320-13506/1-A

Matrix: Solid Date Extracted: 04/02/2013 15:43

Instrument ID: PDA1 Date Analyzed: 04/09/2013 18:05

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-13506/2-A	320-0003783-008-1.d	04/09/2013 18:23
079SD-0309-0001-SD	240-22274-2	320-0003783-009-1.d	04/09/2013 18:41
079SD-0309-0001-SD MS	240-22274-2 MS	320-0003783-010-1.d	04/09/2013 18:58
079SD-0309-0001-SD MSD	240-22274-2 MSD	320-0003783-012-1.d	04/09/2013 19:34

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab File ID: 320-0003819-006-1.d Lab Sample ID: MB 320-13506/1-A

Matrix: Solid Date Extracted: 04/02/2013 15:43

Instrument ID: PDA1 Date Analyzed: 04/10/2013 18:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
079SD-0309-0001-SD	240-22274-2	320-0003819-007-1.d	04/10/2013 18:48

FORM IV 8330 Modified

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: 320-0003783-009-1.d

Analysis Method: 8330 Modified Date Collected: 03/20/2013 11:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.03(g) Date Analyzed: 04/09/2013 18:41

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 13918 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	*Nitroguanidine*	*0.097*	*J*	*0.25*	0.039	*0.020*

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-009-1.d		
Lims ID:	240-22274-F-2-C	Client ID:	079SD-0309-0001-SD
Inject. Date:	09-Apr-2013 18:41:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003783-009 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	9
Detector:	GC 320-0003783-009-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:59:24	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 11:01:25

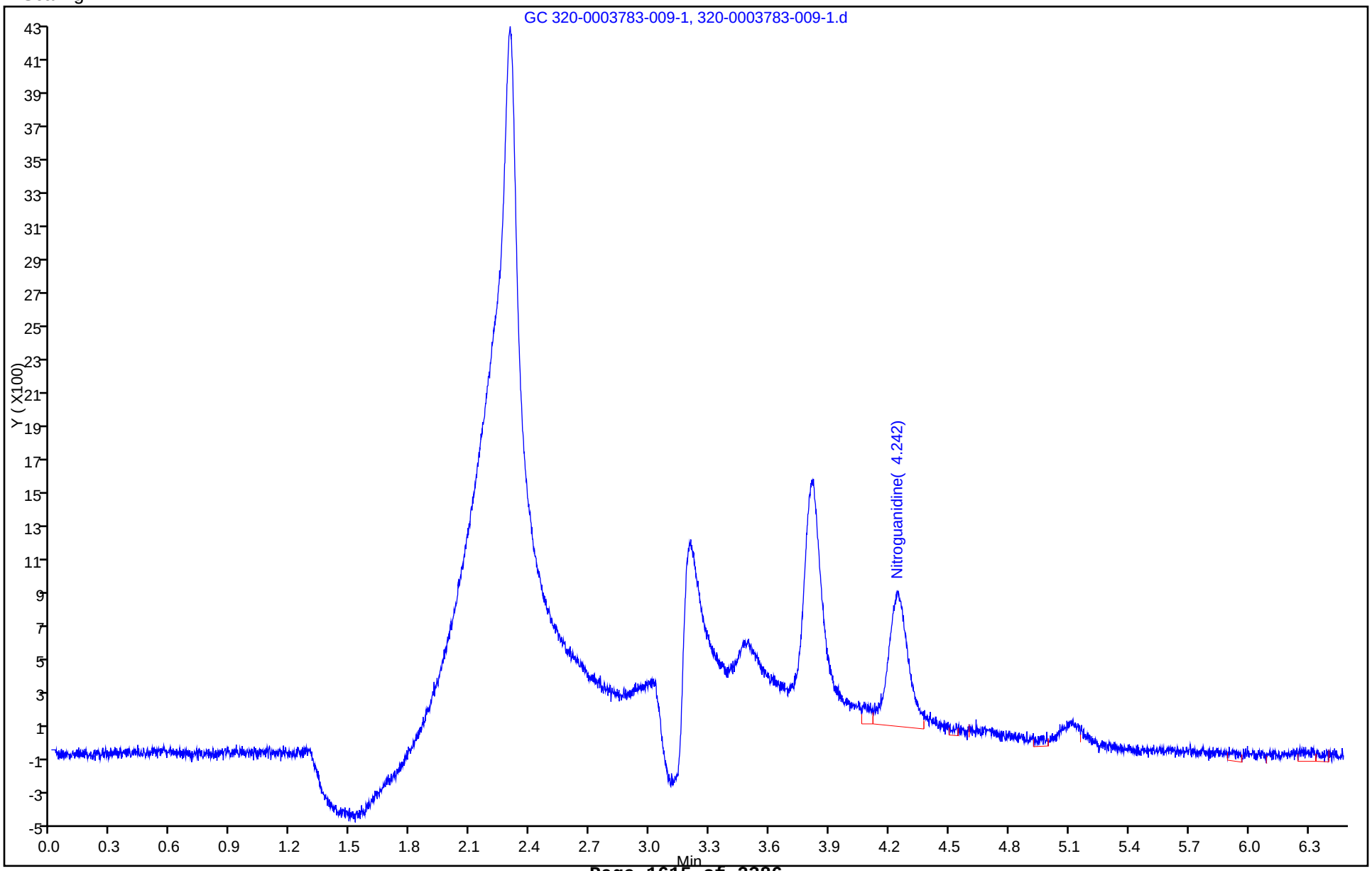
RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.242	4.173	0.069	804	19.6	

Report Date: 10-Apr-2013 11:01:25 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-009-1.d		
Injection Date:	09-Apr-2013 18:41:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	9
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: 320-0003819-007-1.d

Analysis Method: 8330 Modified Date Collected: 03/20/2013 11:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.03(g) Date Analyzed: 04/10/2013 18:48

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 14050 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.039	U	0.25	0.039	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-007-1.d		
Lims ID:	240-22274-F-2-C	Client ID:	079SD-0309-0001-SD
Inject. Date:	10-Apr-2013 18:48:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003819-007 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	7
Detector:	GC 320-0003819-007-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	11-Apr-2013 09:36:20	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK005		

First Level Reviewer: russellk Date: 11-Apr-2013 09:36:55

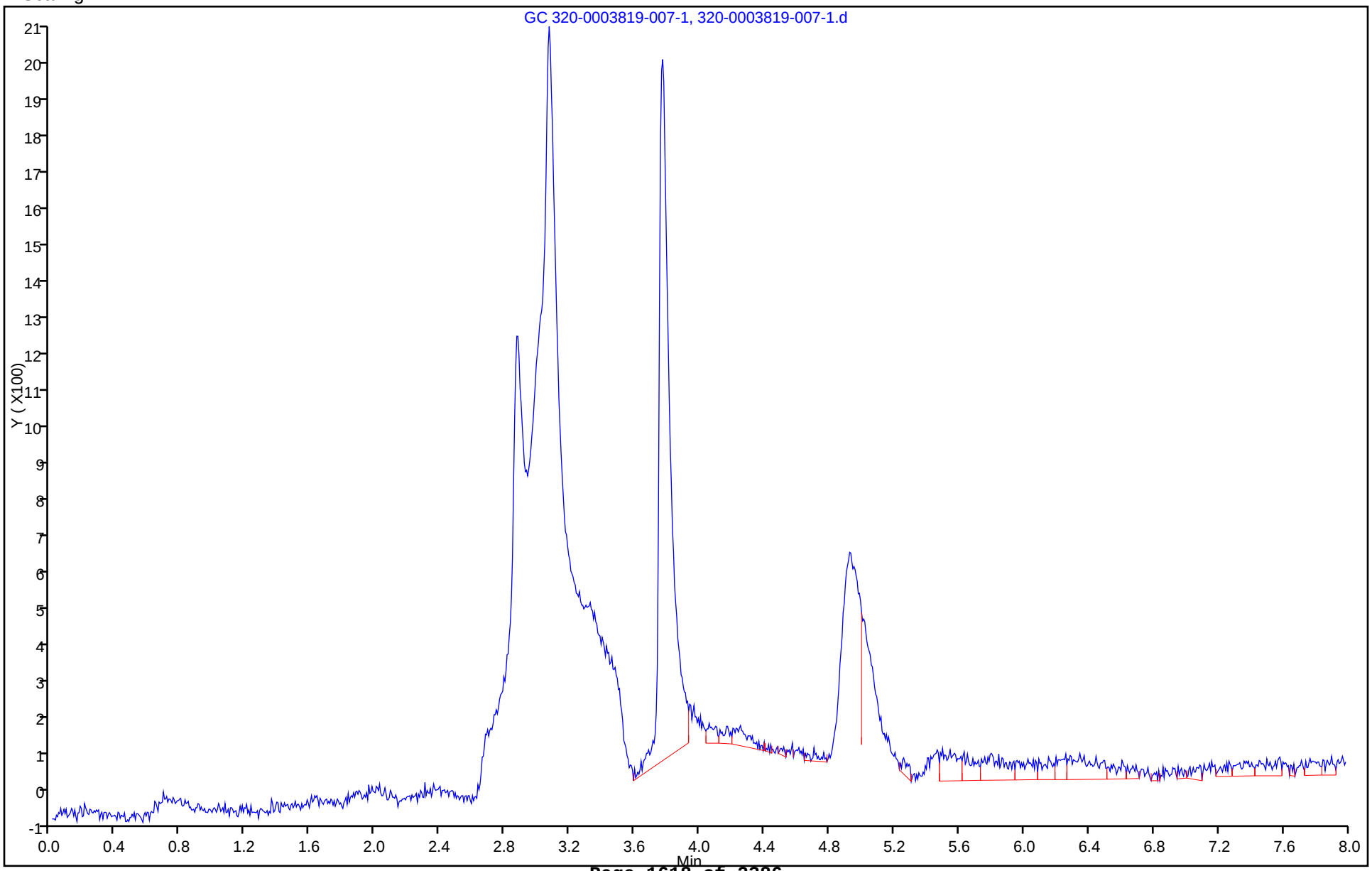
RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

Report Date: 11-Apr-2013 09:36:55 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-007-1.d		
Injection Date:	10-Apr-2013 18:48:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 4779

SDG No.:

Instrument ID: PDA1 GC Column: Hydro RP80A ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2012 15:58 Calibration End Date: 10/19/2012 17:37 Calibration ID: 1497

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-4779/4	HPNQL2_00003002-1.d
Level 2	STD03 320-4779/5	HPNQL3_00003001-1.d
Level 3	STD04 320-4779/6	HPNQL4_00003001-1.d
Level 4	STD05 320-4779/7	HPNQL5_00003001-1.d
Level 5	STD06 320-4779/8	HPNQL6_00003001-1.d
Level 6	STD07 320-4779/9	HPNQL7_00003001-1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Nitroguanidine	4.513	4.560	4.500	4.527	4.460	4.493					4.250 - 4.750	4.509

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 4779

SDG No.:

Instrument ID: PDA1 GC Column: Hydro RP80A ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2012 15:58 Calibration End Date: 10/19/2012 17:37 Calibration ID: 1497

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-4779/4	HPNQL2_00003002-1.d
Level 2	STD03 320-4779/5	HPNQL3_00003001-1.d
Level 3	STD04 320-4779/6	HPNQL4_00003001-1.d
Level 4	STD05 320-4779/7	HPNQL5_00003001-1.d
Level 5	STD06 320-4779/8	HPNQL6_00003001-1.d
Level 6	STD07 320-4779/9	HPNQL7_00003001-1.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Nitroguanidine	46.850 44.304	44.500 42.847	43.690	44.160	Ave		44.3918333				3.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 4779

SDG No.:

Instrument ID: PDA1 GC Column: Hydro RP80A ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2012 15:58 Calibration End Date: 10/19/2012 17:37 Calibration ID: 1497

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-4779/4	HPNQL2_00003002-1.d
Level 2	STD03 320-4779/5	HPNQL3_00003001-1.d
Level 3	STD04 320-4779/6	HPNQL4_00003001-1.d
Level 4	STD05 320-4779/7	HPNQL5_00003001-1.d
Level 5	STD06 320-4779/8	HPNQL6_00003001-1.d
Level 6	STD07 320-4779/9	HPNQL7_00003001-1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Nitroguanidine	Ave	937 42847	2225	4369	8832	22152	20.0 1000	50.0	100	200	500

Curve Type Legend:
Ave = Average by Height

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL2_00003002-1.d		
Lims ID:	std02	Client ID:	
Inject. Date:	19-Oct-2012 15:58:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	HPNQL2_00003 Verification		
Misc. Info.:	none NQ Std 20 ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	4
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC HPNQL2_00003002-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:11:28	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		

First Level Reviewer: noonanr Date: 29-Oct-2012 12:32:00

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.513	4.500	0.013	937	21.1	

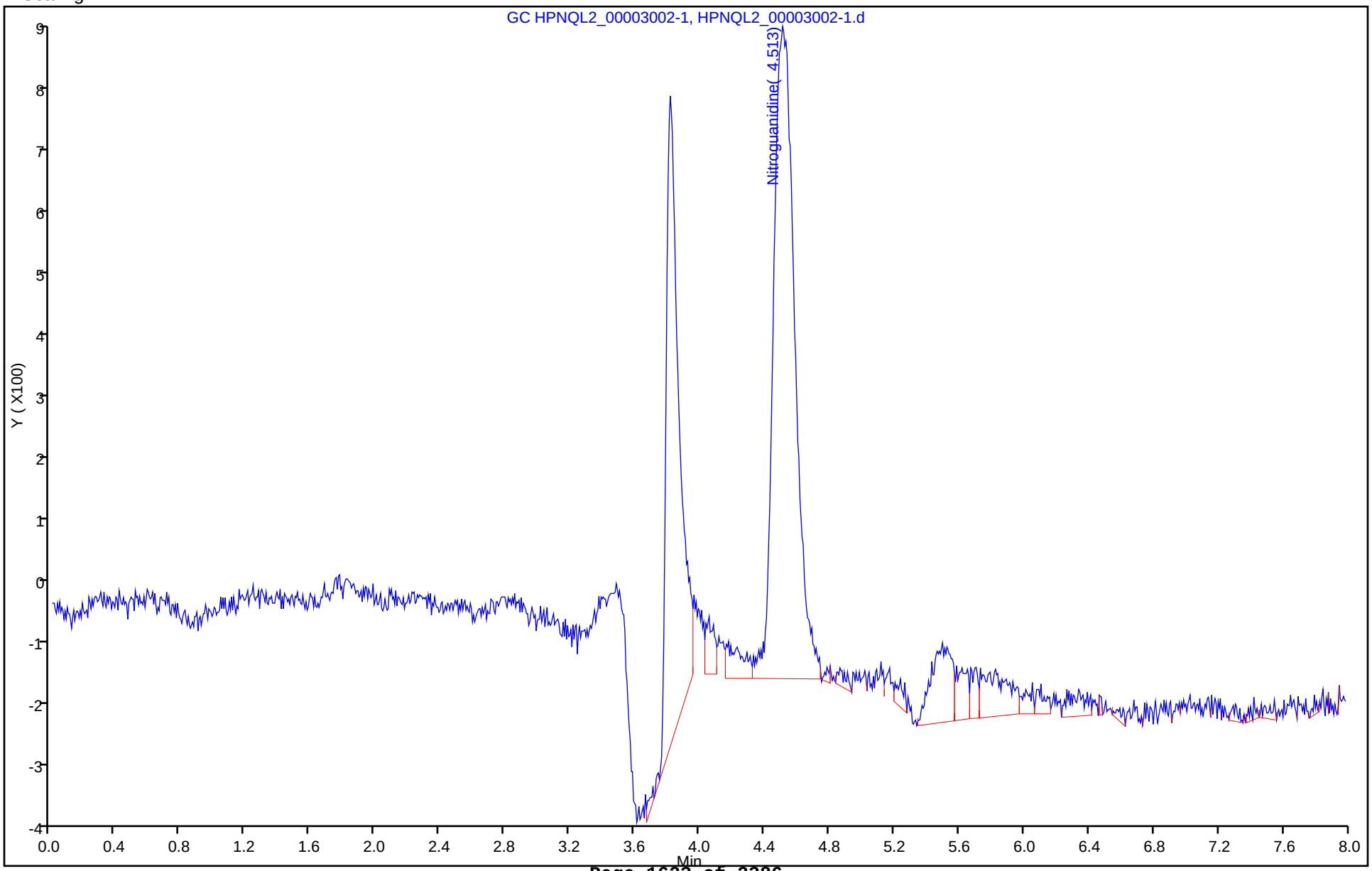
Report Date: 29-Oct-2012 15:11:28 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File: \\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL2_00003002-1.d

Injection Date:	19-Oct-2012 15:58:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL3_00003001-1.d		
Lims ID:	std03	Client ID:	
Inject. Date:	19-Oct-2012 16:18:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	HPNQL3_00003 Verification		
Misc. Info.:	none NQ Std 50 ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	5
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC HPNQL3_00003001-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:11:29	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		
First Level Reviewer: noonanr		Date:	29-Oct-2012 12:32:07

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.560	4.500	0.060	2225	50.1	

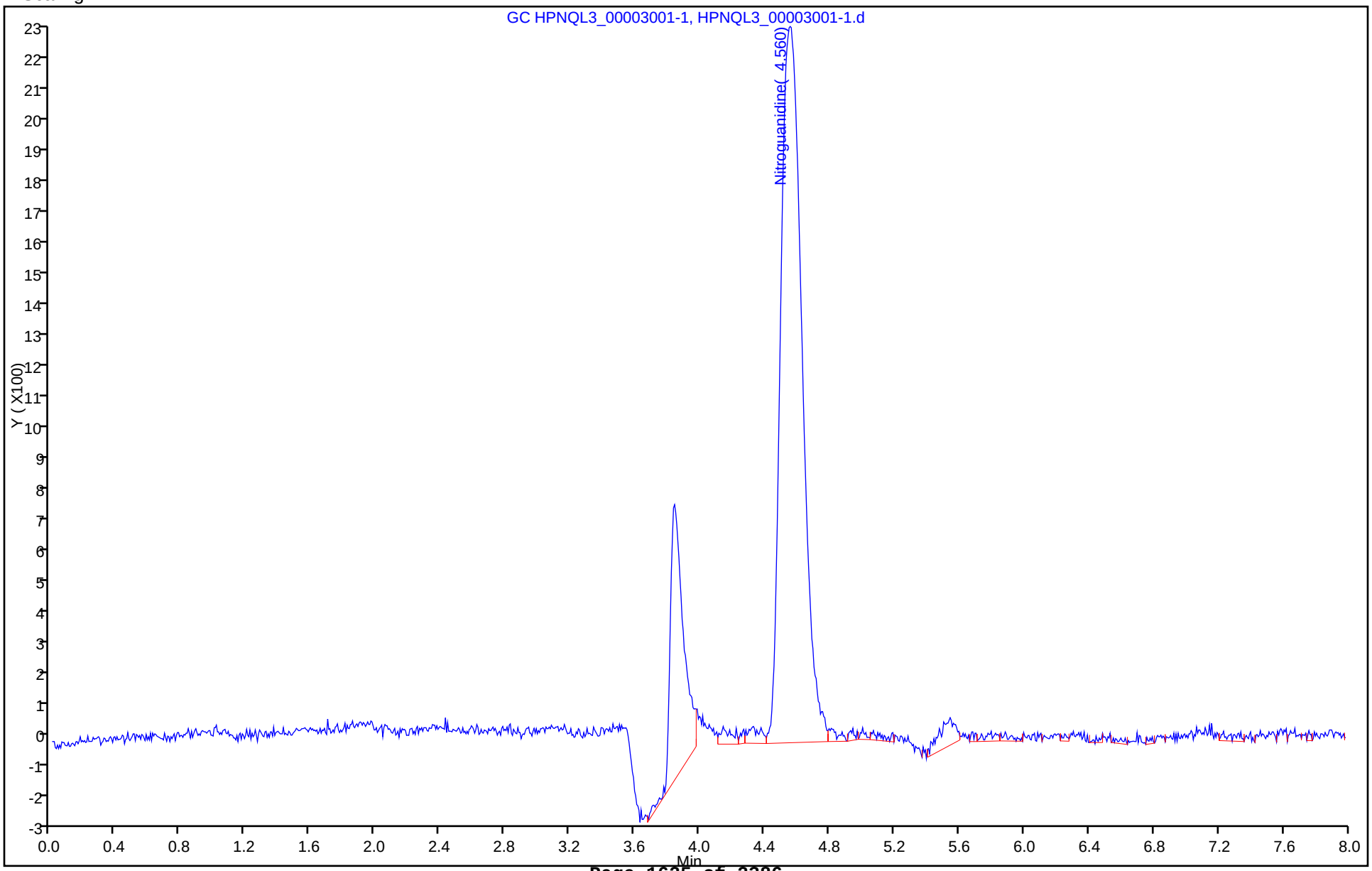
Report Date: 29-Oct-2012 15:11:29 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File: \\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL3_00003001-1.d

Injection Date:	19-Oct-2012 16:18:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL4_00003001-1.d		
Lims ID:	std04	Client ID:	
Inject. Date:	19-Oct-2012 16:37:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	HPNQL4_00003 Verification		
Misc. Info.:	none NQ Std 100 ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	6
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC HPNQL4_00003001-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:11:29	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		

First Level Reviewer: noonanr Date: 29-Oct-2012 12:32:13

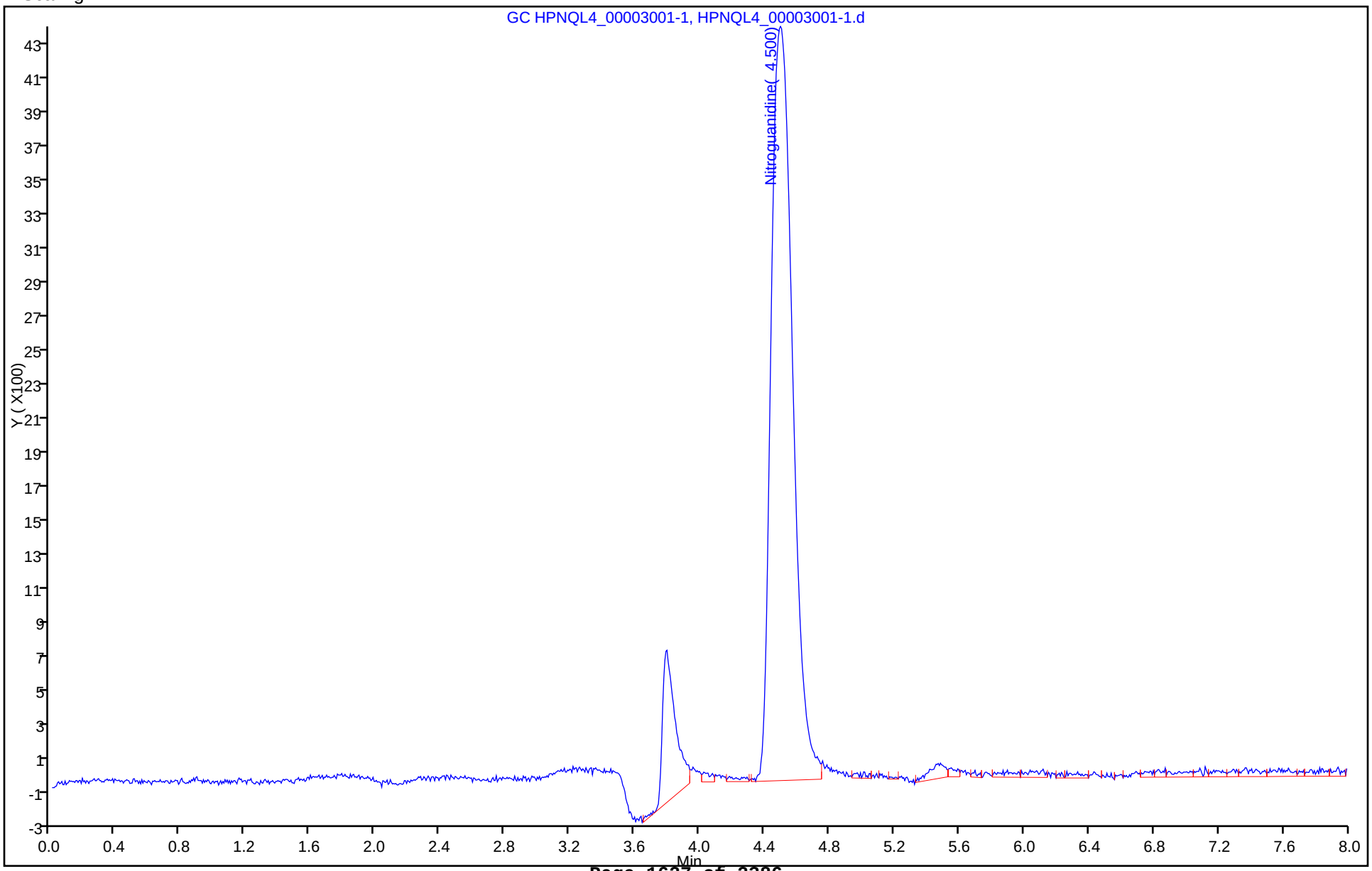
RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.500	4.500	0.0	4369	98.4	

Report Date: 29-Oct-2012 15:11:29 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL4_00003001-1.d		
Injection Date:	19-Oct-2012 16:37:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	6
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL5_00003001-1.d		
Lims ID:	std05	Client ID:	
Inject. Date:	19-Oct-2012 16:57:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	HPNQL5_00003 Verification		
Misc. Info.:	none NQ Std 200 ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	7
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC HPNQL5_00003001-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:11:29	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		
First Level Reviewer: noonanr		Date:	29-Oct-2012 12:32:18

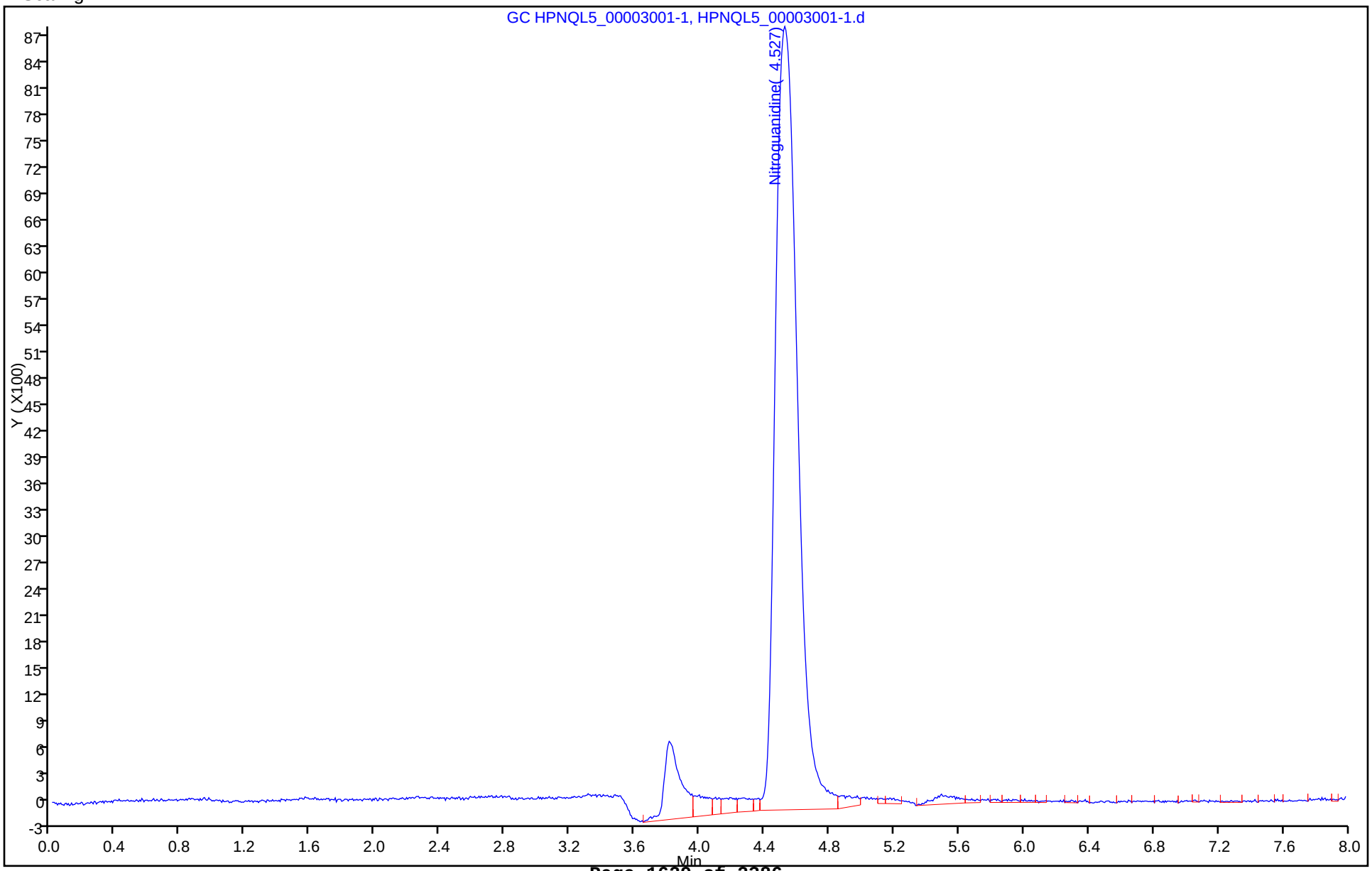
RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.527	4.527	0.0	8832	199.0	

Report Date: 29-Oct-2012 15:11:30 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL5_00003001-1.d		
Injection Date:	19-Oct-2012 16:57:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL6_00003001-1.d		
Lims ID:	std06	Client ID:	
Inject. Date:	19-Oct-2012 17:17:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	HPNQL6_00003 Verification		
Misc. Info.:	none NQ Std 500 ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	8
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC HPNQL6_00003001-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:12:28	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		
First Level Reviewer: noonanr		Date:	29-Oct-2012 12:32:24

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.460	4.500	-0.040	22152	499.0	

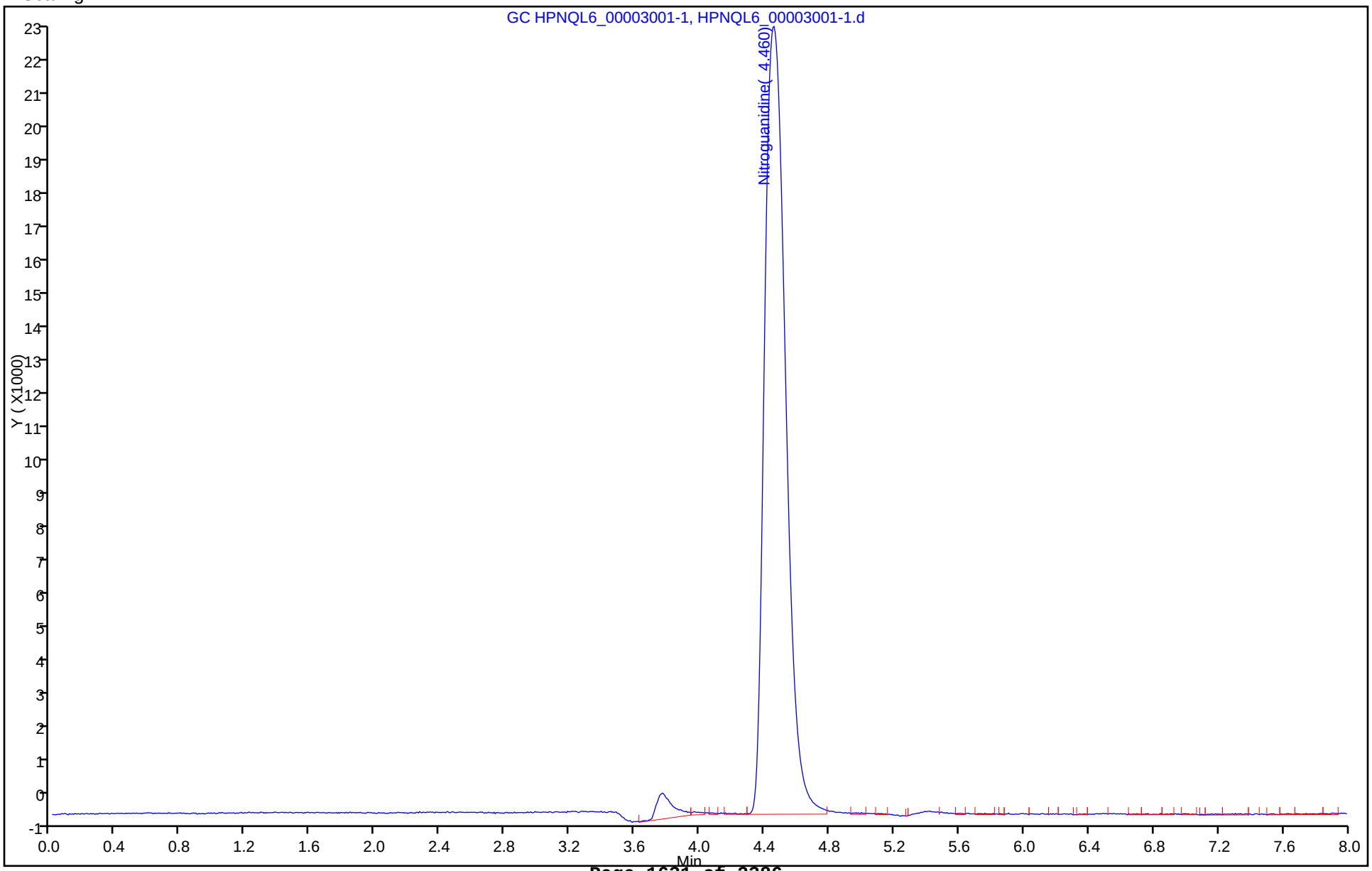
Report Date: 29-Oct-2012 15:12:28 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File: \\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL6_00003001-1.d

Injection Date:	19-Oct-2012 17:17:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	8
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Lims ID:	std07	Client ID:	
Inject. Date:	19-Oct-2012 17:37:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	HPNQL7_00003 Verification		
Misc. Info.:	none NQ Std 1000 ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	9
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC HPNQL7_00003001-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:11:30	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		

First Level Reviewer: noonanr Date: 29-Oct-2012 12:32:30

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.493	4.527	-0.034	42847	965.2	

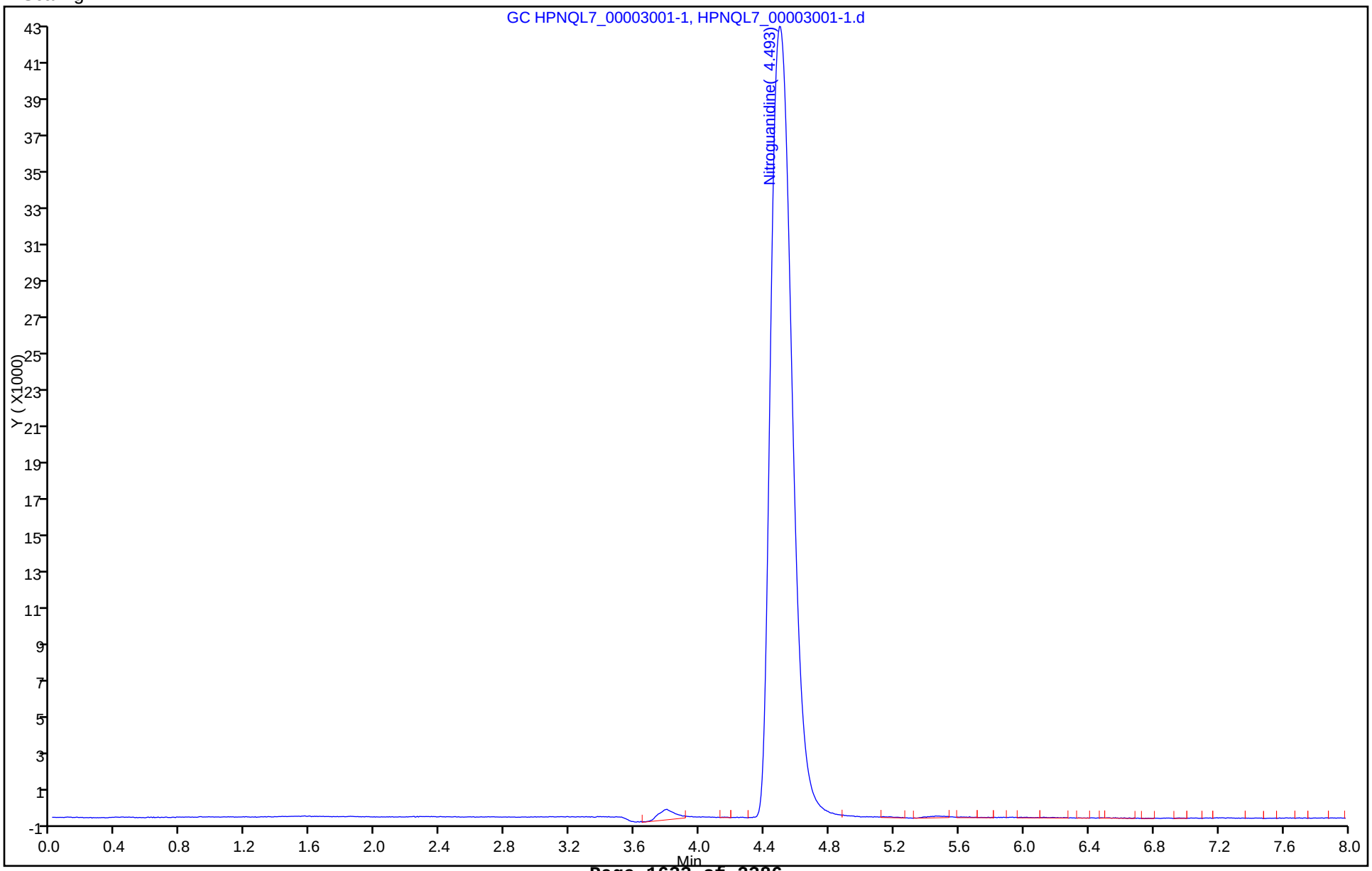
Report Date: 29-Oct-2012 15:11:30 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File: \\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d

Injection Date:	19-Oct-2012 17:37:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	9
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 13890

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 13:21 Calibration End Date: 04/09/2013 14:50 Calibration ID: 2544

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-13890/4	320-0003774-004-1.d
Level 2	STD03 320-13890/5	320-0003774-005-1.d
Level 3	STD04 320-13890/6	320-0003774-006-1.d
Level 4	STD05 320-13890/7	320-0003774-007-1.d
Level 5	STD06 320-13890/8	320-0003774-008-1.d
Level 6	STD07 320-13890/9	320-0003774-009-1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Nitroguanidine	4.195	4.205	4.185	4.187	4.192	4.173					3.942 - 4.442	4.190

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 13890

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 13:21 Calibration End Date: 04/09/2013 14:50 Calibration ID: 2544

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-13890/4	320-0003774-004-1.d
Level 2	STD03 320-13890/5	320-0003774-005-1.d
Level 3	STD04 320-13890/6	320-0003774-006-1.d
Level 4	STD05 320-13890/7	320-0003774-007-1.d
Level 5	STD06 320-13890/8	320-0003774-008-1.d
Level 6	STD07 320-13890/9	320-0003774-009-1.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Nitroguanidine	43.550 39.998	39.600 38.542	43.760	40.260	Ave		40.9516667				5.3		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 13890

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 13:21 Calibration End Date: 04/09/2013 14:50 Calibration ID: 2544

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-13890/4	320-0003774-004-1.d
Level 2	STD03 320-13890/5	320-0003774-005-1.d
Level 3	STD04 320-13890/6	320-0003774-006-1.d
Level 4	STD05 320-13890/7	320-0003774-007-1.d
Level 5	STD06 320-13890/8	320-0003774-008-1.d
Level 6	STD07 320-13890/9	320-0003774-009-1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Nitroguanidine	Ave	871 38542	1980	4376	8052	19999	20.0 1000	50.0	100	200	500

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-004-1.d		
Lims ID:	std02	Client ID:	
Inject. Date:	09-Apr-2013 13:21:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	320-0003774-004 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	4
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-004-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:49:58

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.195	4.192	0.003	871	21.3	

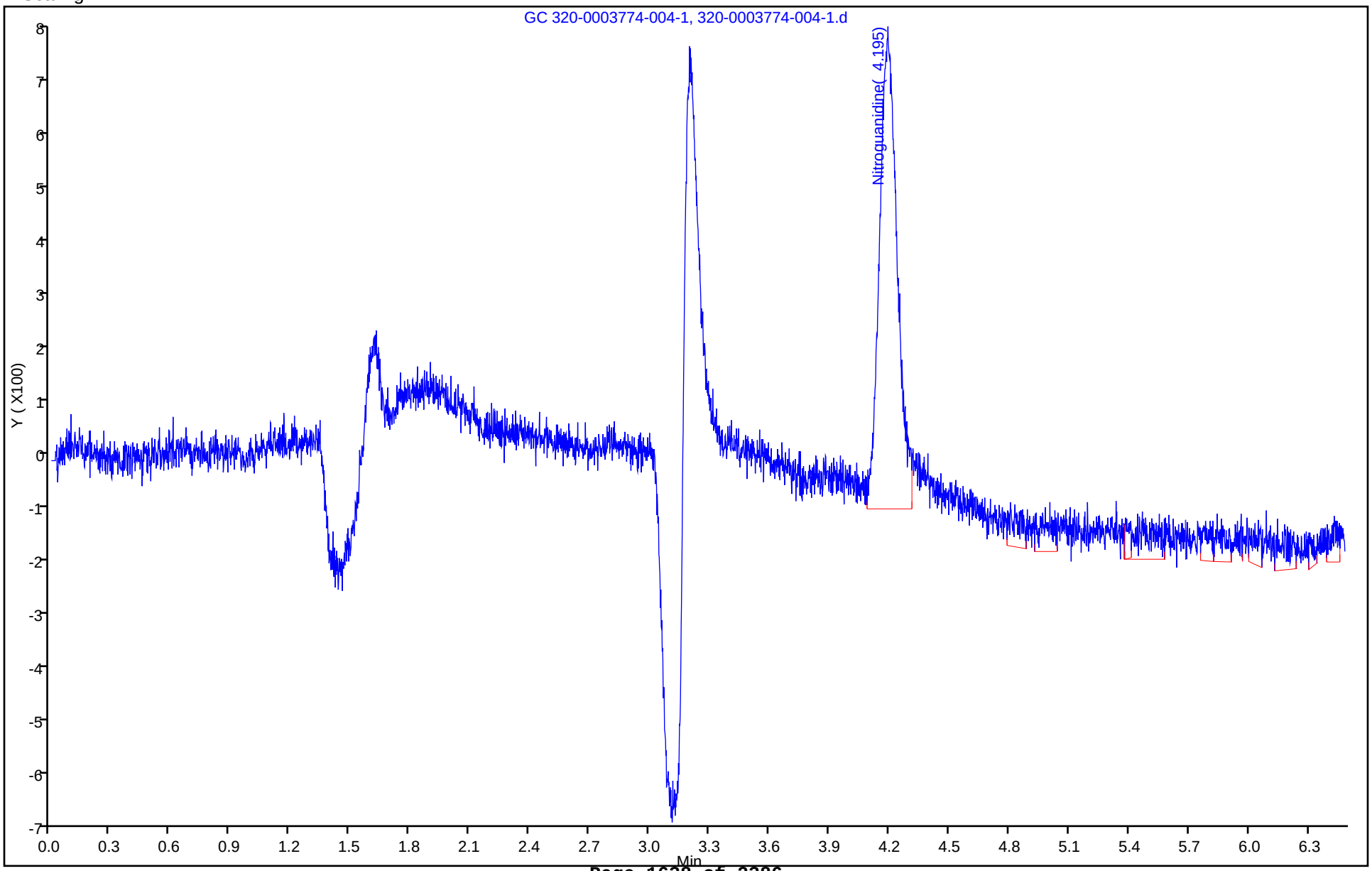
Report Date: 10-Apr-2013 10:05:30 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-004-1.d

Injection Date:	09-Apr-2013 13:21:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	4
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-005-1.d		
Lims ID:	std03	Client ID:	
Inject. Date:	09-Apr-2013 13:39:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	320-0003774-005 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	5
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-005-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:31	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:02

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.205	4.192	0.013	1980	48.3	

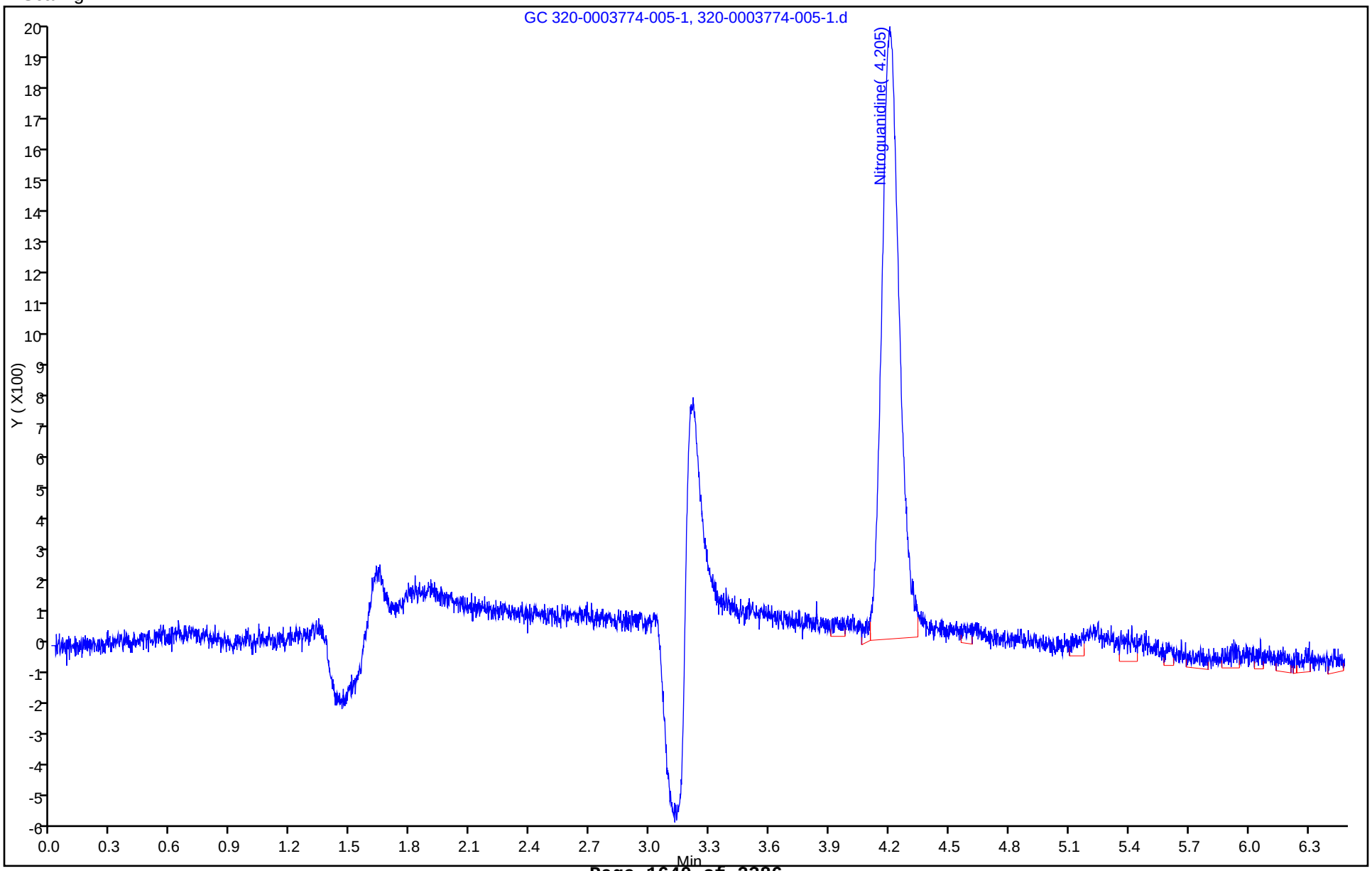
Report Date: 10-Apr-2013 10:05:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-005-1.d

Injection Date:	09-Apr-2013 13:39:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	5
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-006-1.d		
Lims ID:	std04	Client ID:	
Inject. Date:	09-Apr-2013 13:56:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	320-0003774-006 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	6
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-006-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:31	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:05

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.185	4.192	-0.007	4376	106.9	

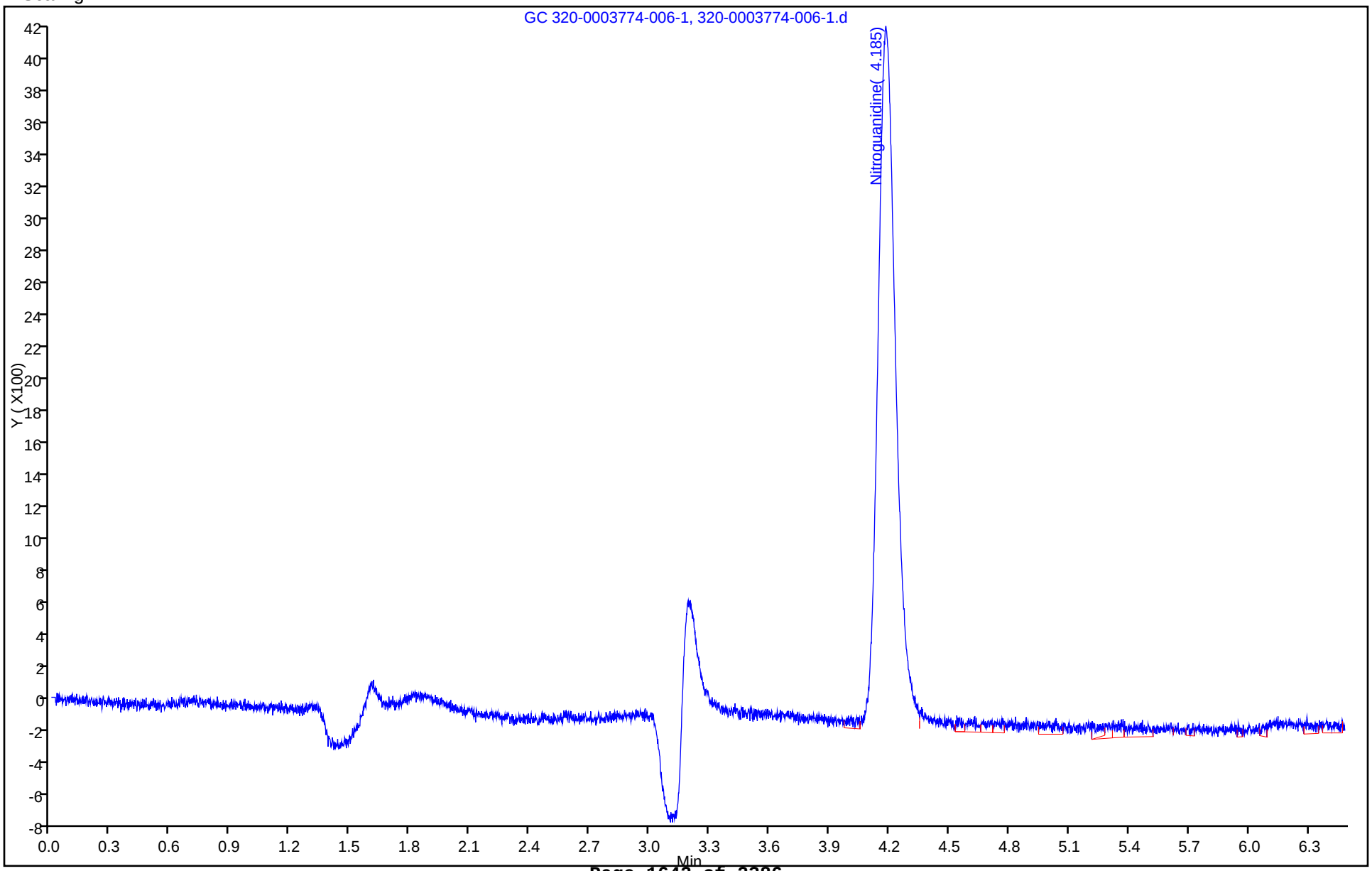
Report Date: 10-Apr-2013 10:05:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-006-1.d

Injection Date:	09-Apr-2013 13:56:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	6
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-007-1.d		
Lims ID:	std05	Client ID:	
Inject. Date:	09-Apr-2013 14:14:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	320-0003774-007 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	7
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-007-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:31	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:09

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.187	4.187	0.0	8052	196.6	

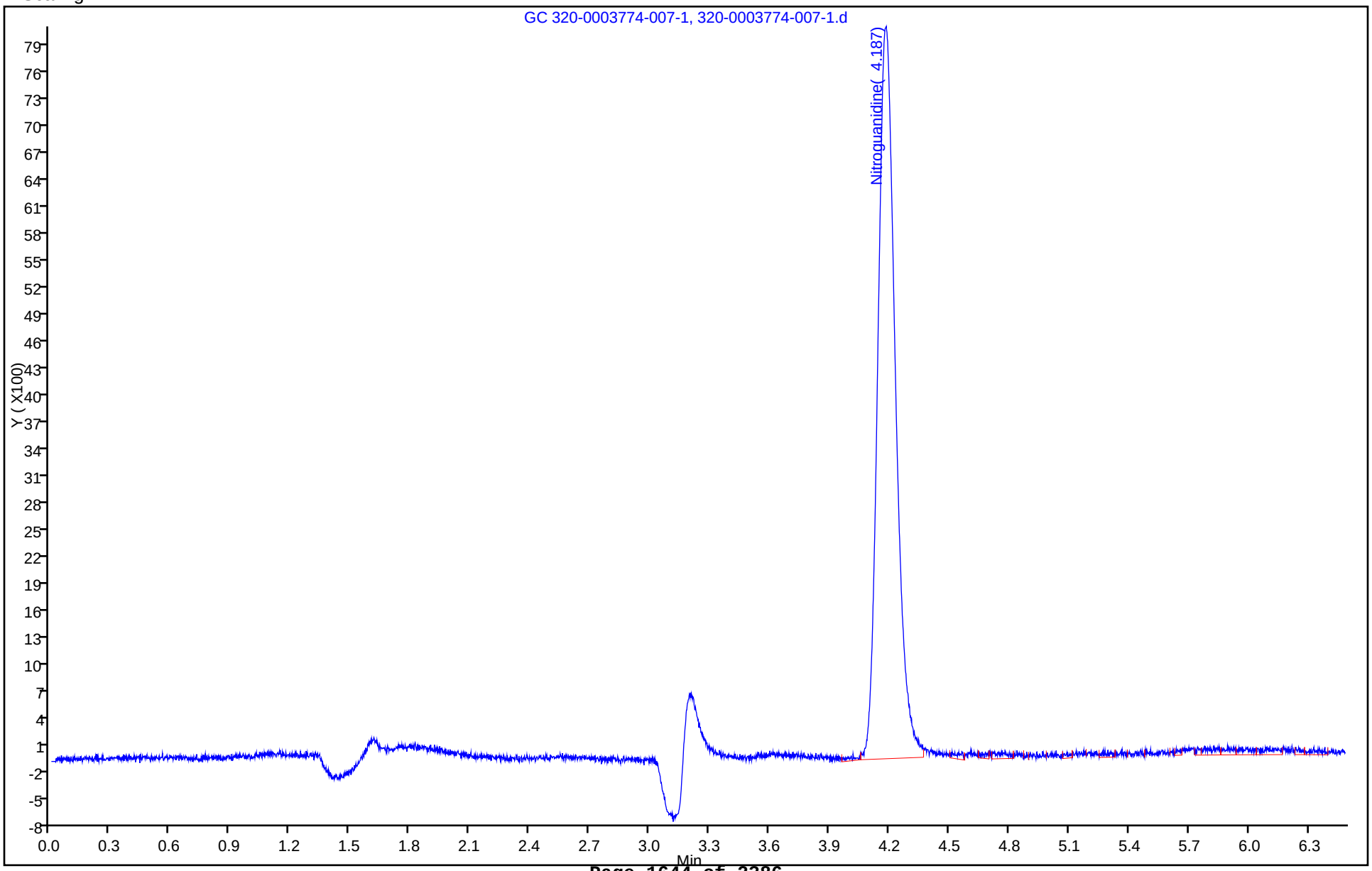
Report Date: 10-Apr-2013 10:05:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-007-1.d

Injection Date:	09-Apr-2013 14:14:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	7
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-008-1.d		
Lims ID:	std06	Client ID:	
Inject. Date:	09-Apr-2013 14:32:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	320-0003774-008 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	8
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-008-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:11

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.192	4.187	0.005	19999	488.4	

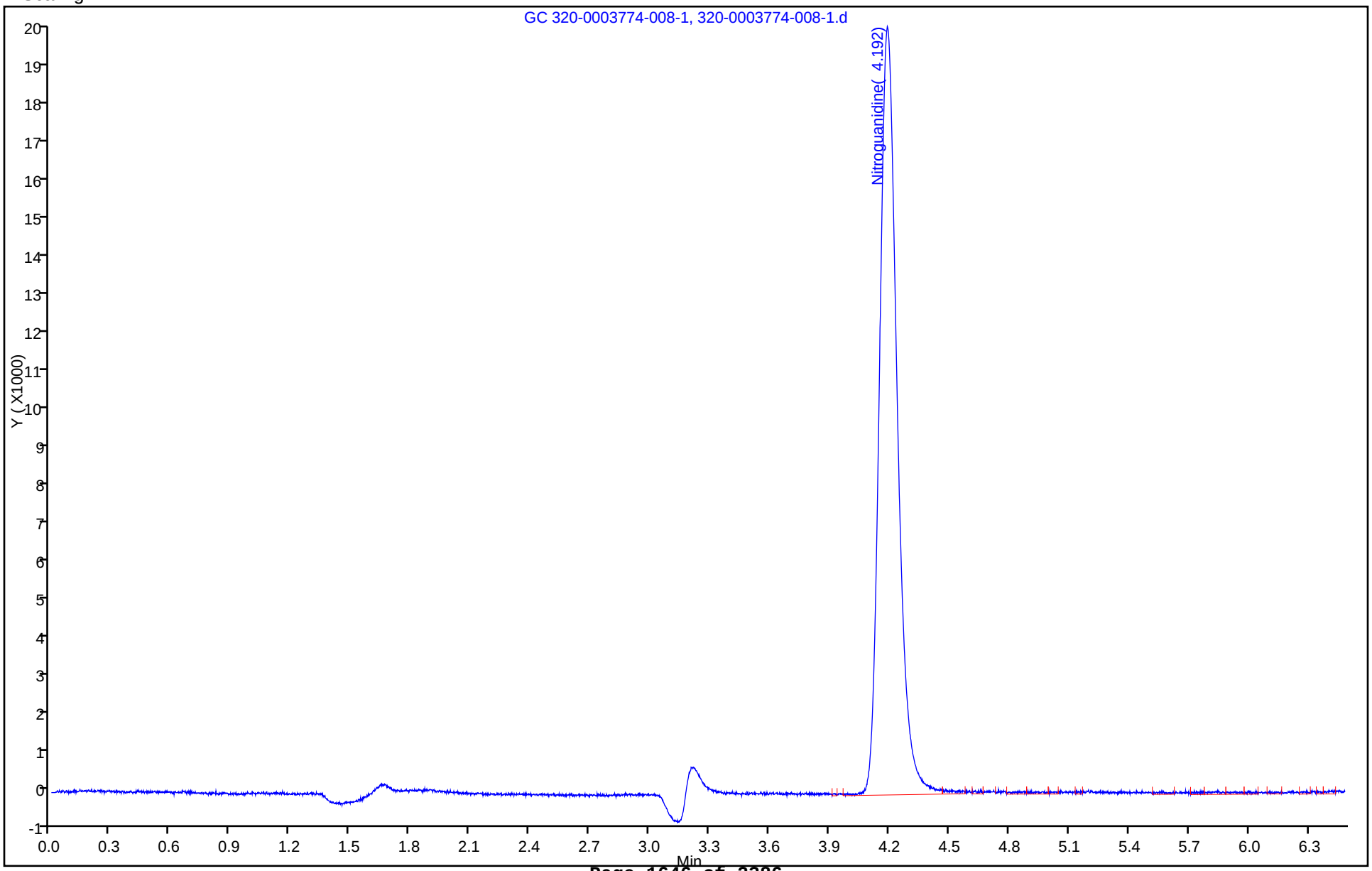
Report Date: 10-Apr-2013 10:05:32 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-008-1.d

Injection Date:	09-Apr-2013 14:32:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	8
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Lims ID:	std07	Client ID:	
Inject. Date:	09-Apr-2013 14:50:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	320-0003774-009 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	9
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-009-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:14

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.173	4.187	-0.014	38542	941.2	

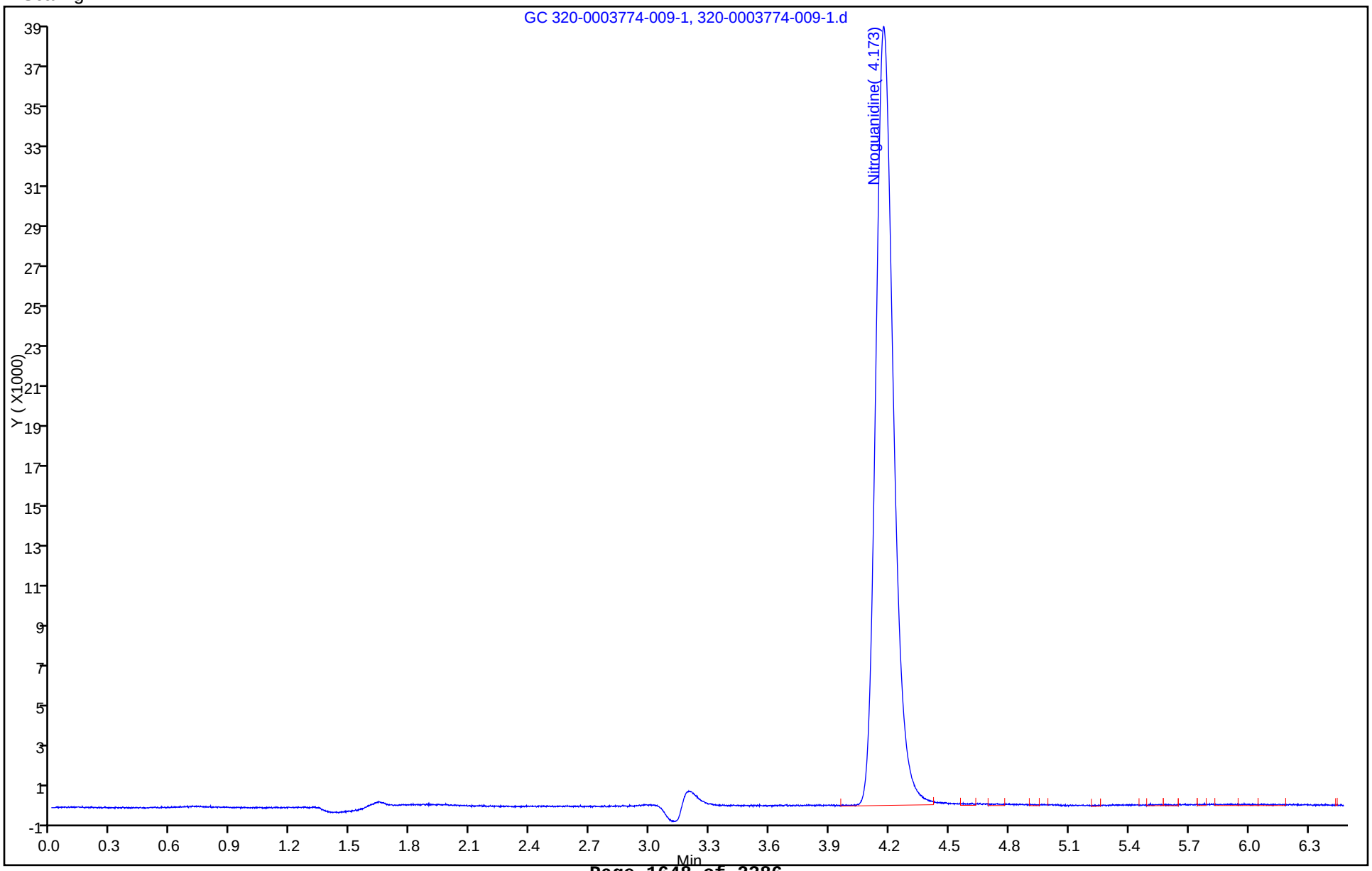
Report Date: 10-Apr-2013 10:05:32 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d

Injection Date:	09-Apr-2013 14:50:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	9
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-4779/11 Calibration Date: 10/19/2012 18:17

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: HPNQIC_00002;002-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	44.39	42.11		190	200	-5.1	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-4779/11 Calibration Date: 10/19/2012 18:17

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: HPNQIC_00002;002-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.51	4.26	4.76

Form VII 8330 Modified

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQIC_00002;002-1.d		
Lims ID:	icv	Client ID:	
Inject. Date:	19-Oct-2012 18:17:00	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	HPNQIC_00002; Analysis		
Misc. Info.:	none ICV 200ng/mL		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	4779	Lims Sample ID:	11
Sublist:			
Detector:	GC HPNQIC_00002;002-1		
Method:	\\SACChrom\ChromData\PDA1\20121019-1096.b\NQ CONFIRMATION.m		
Last Update:	29-Oct-2012 15:09:46	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK037		

First Level Reviewer: noonanr Date: 22-Oct-2012 09:03:15

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.507	4.507	0.0	8422	189.7	

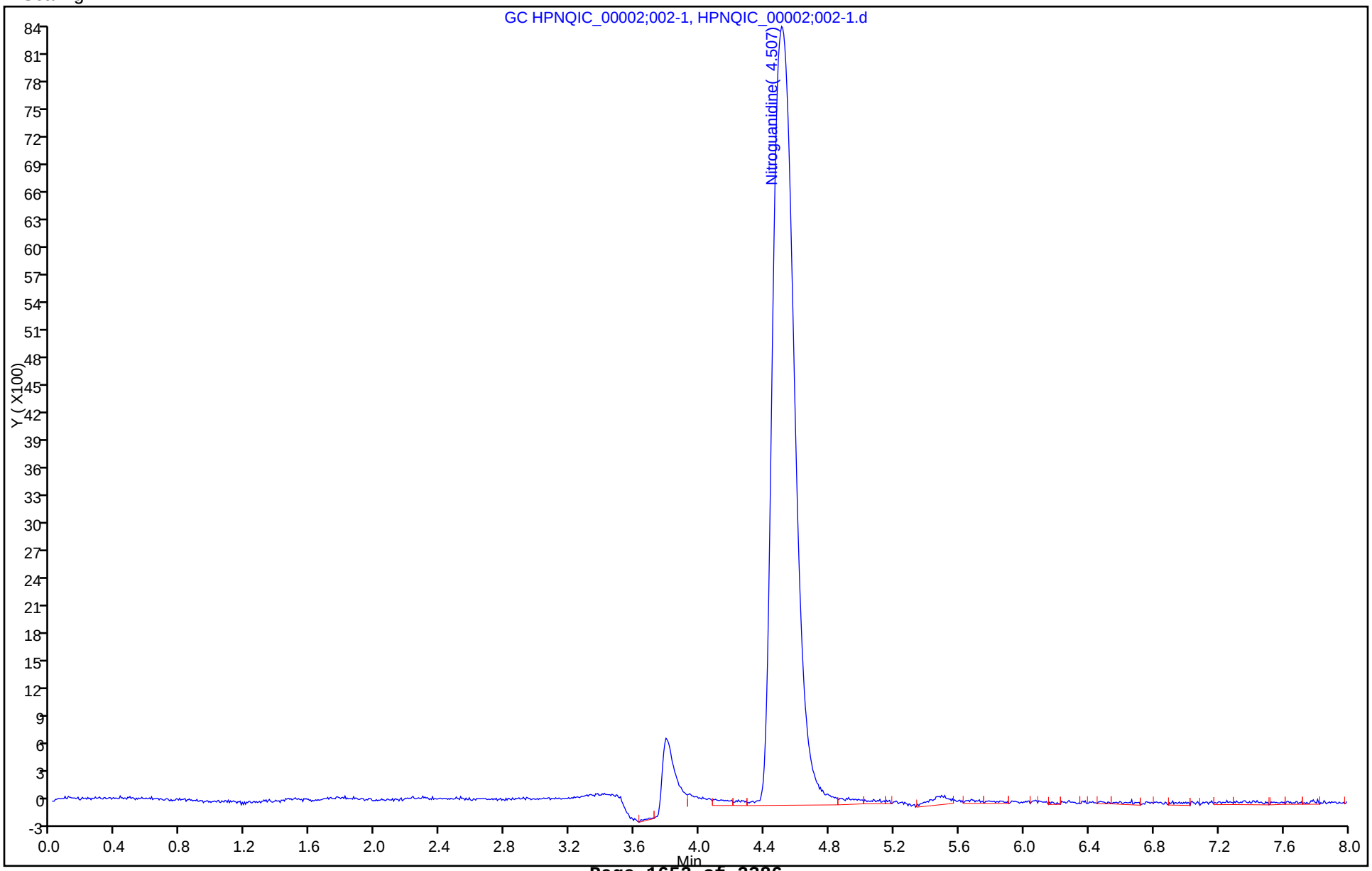
Report Date: 29-Oct-2012 15:09:46 Chrom Revision: 2.1 24-Oct-2012 08:48:06

TestAmerica West Sacramento

Data File: \\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQIC_00002;002-1.d

Injection Date:	19-Oct-2012 18:17:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	4779	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-13890/11 Calibration Date: 04/09/2013 15:25

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-011-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	39.58		193	200	-3.3	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-13890/11 Calibration Date: 04/09/2013 15:25

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-011-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-011-1.d		
Lims ID:	icv	Client ID:	
Inject. Date:	09-Apr-2013 15:25:00	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	320-0003774-011 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	11
Sublist:			
Detector:	GC 320-0003774-011-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:23

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.192	4.187	0.005	7916	193.3	

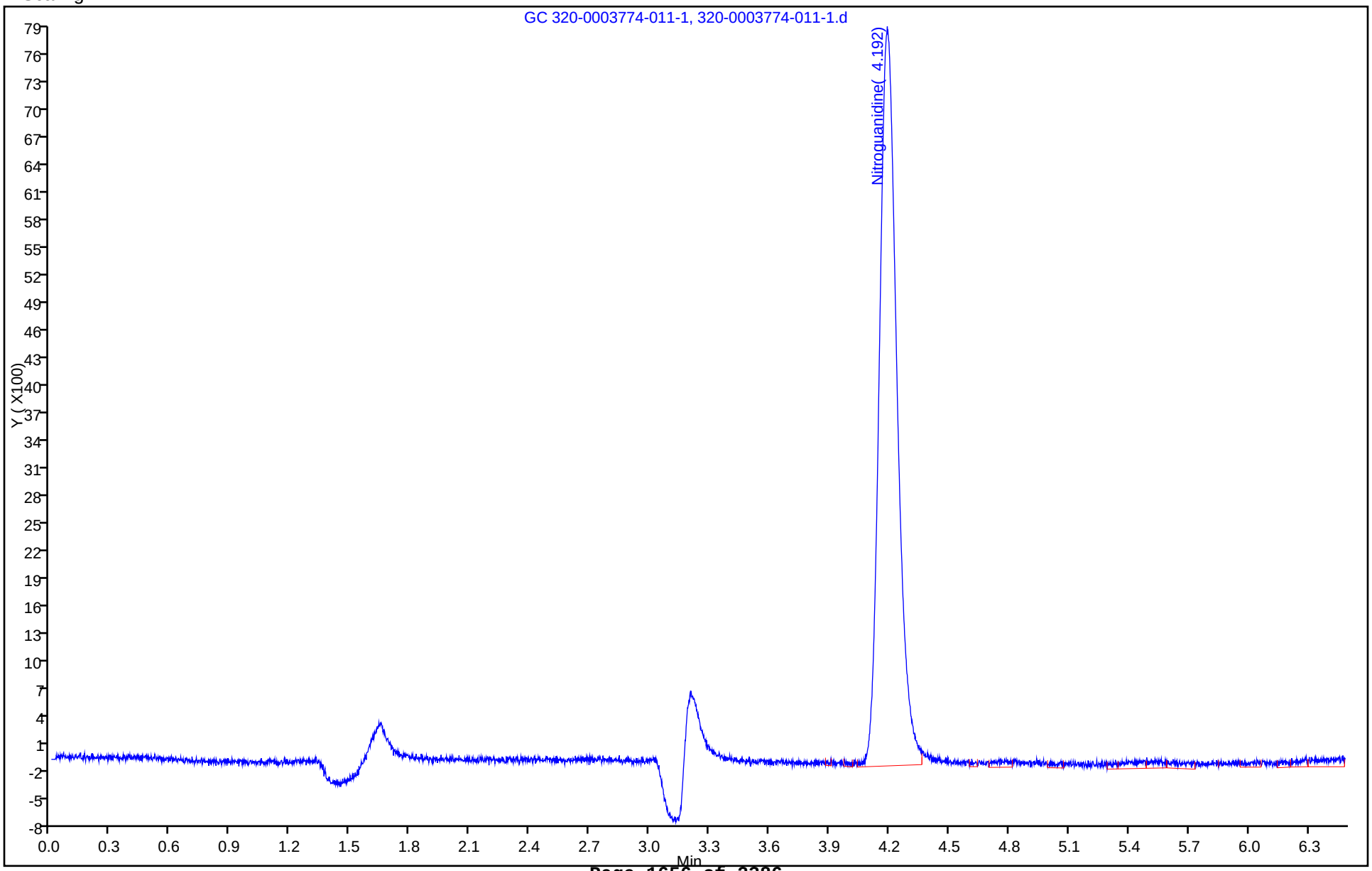
Report Date: 10-Apr-2013 10:05:33 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-011-1.d

Injection Date:	09-Apr-2013 15:25:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	11
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-13890/12 Calibration Date: 04/09/2013 15:43

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-012-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	63.40		7.74	5.00	54.8	

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-13890/12 Calibration Date: 04/09/2013 15:43

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-012-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-012-1.d		
Lims ID:	LODV	Client ID:	
Inject. Date:	09-Apr-2013 15:43:00	Dil. Factor:	1.0000
Sample Type:	LODV		
Sample ID:	320-0003774-012 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	12
Detector:	GC 320-0003774-012-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:28:29

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					M
4.193	4.187	0.006	317	7.74	M

QC Flag Legend

Review Flags
M - Manually Integrated

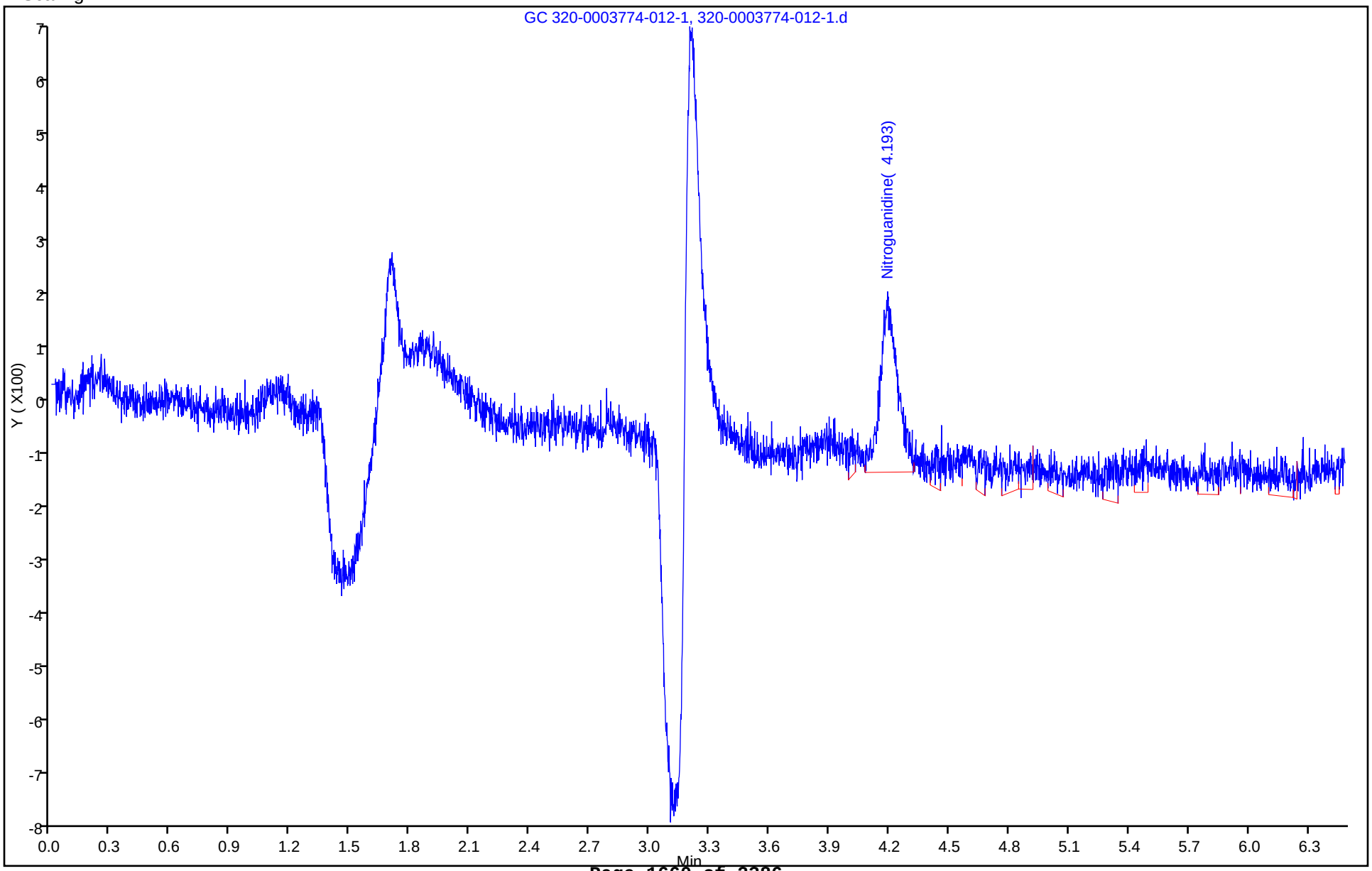
Report Date: 10-Apr-2013 10:05:33 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-012-1.d

Injection Date:	09-Apr-2013 15:43:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	12
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



Report Date: 10-Apr-2013 10:05:33 Chrom Revision: 2.1 07-Apr-2013 20:36:54

Manual Integration/User Assign Peak Report

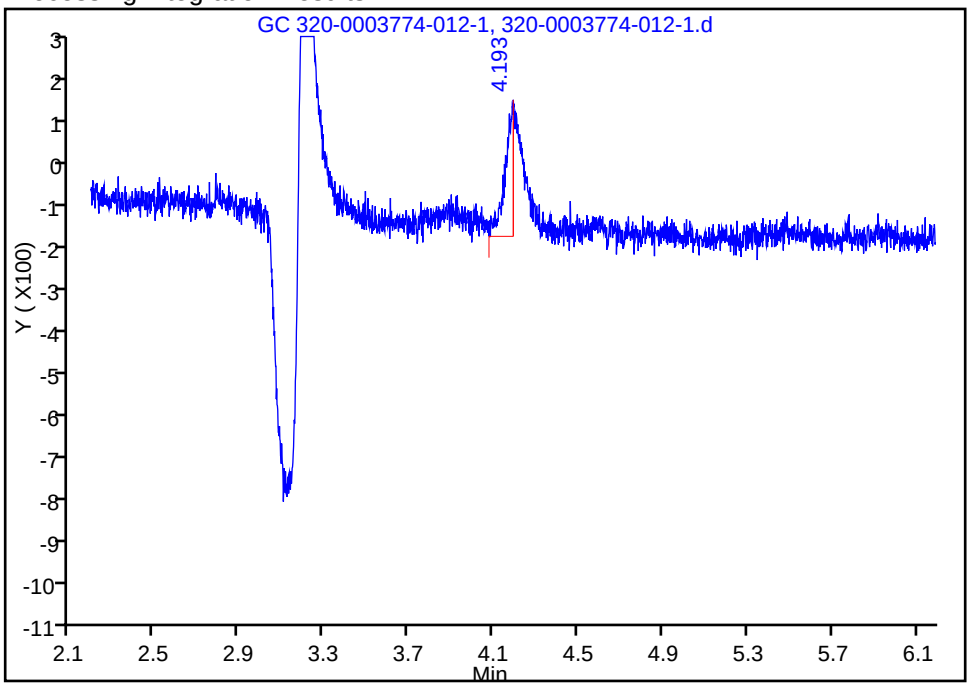
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-012-1.d		
Injection Date:	09-Apr-2013 15:43:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	12
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

1 Nitroguanidine, Signal: 1, Type: quant, RT: 4.19

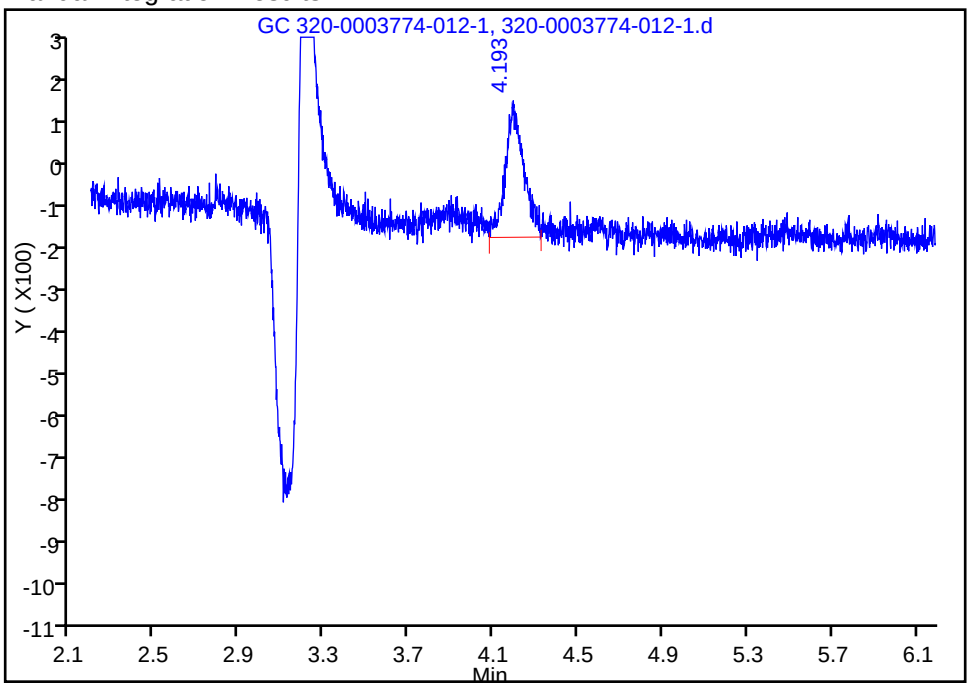
Processing Integration Results

RT: 4.19
Response: 317
Amount: 7.740833



Manual Integration Results

RT: 4.19
Response: 317
Amount: 7.740833



Reviewer: russellk, 10-Apr-2013 09:44:08
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-13890/13 Calibration Date: 04/09/2013 16:01

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-013-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	45.95		22.4	20.0	12.2	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-13890/13 Calibration Date: 04/09/2013 16:01

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-013-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-013-1.d		
Lims ID:	CCVL	Client ID:	
Inject. Date:	09-Apr-2013 16:01:00	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003774-013 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	13
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-013-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:36	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: noonanr Date: 10-Apr-2013 10:05:12

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.192	4.192	0.0	919	22.4	

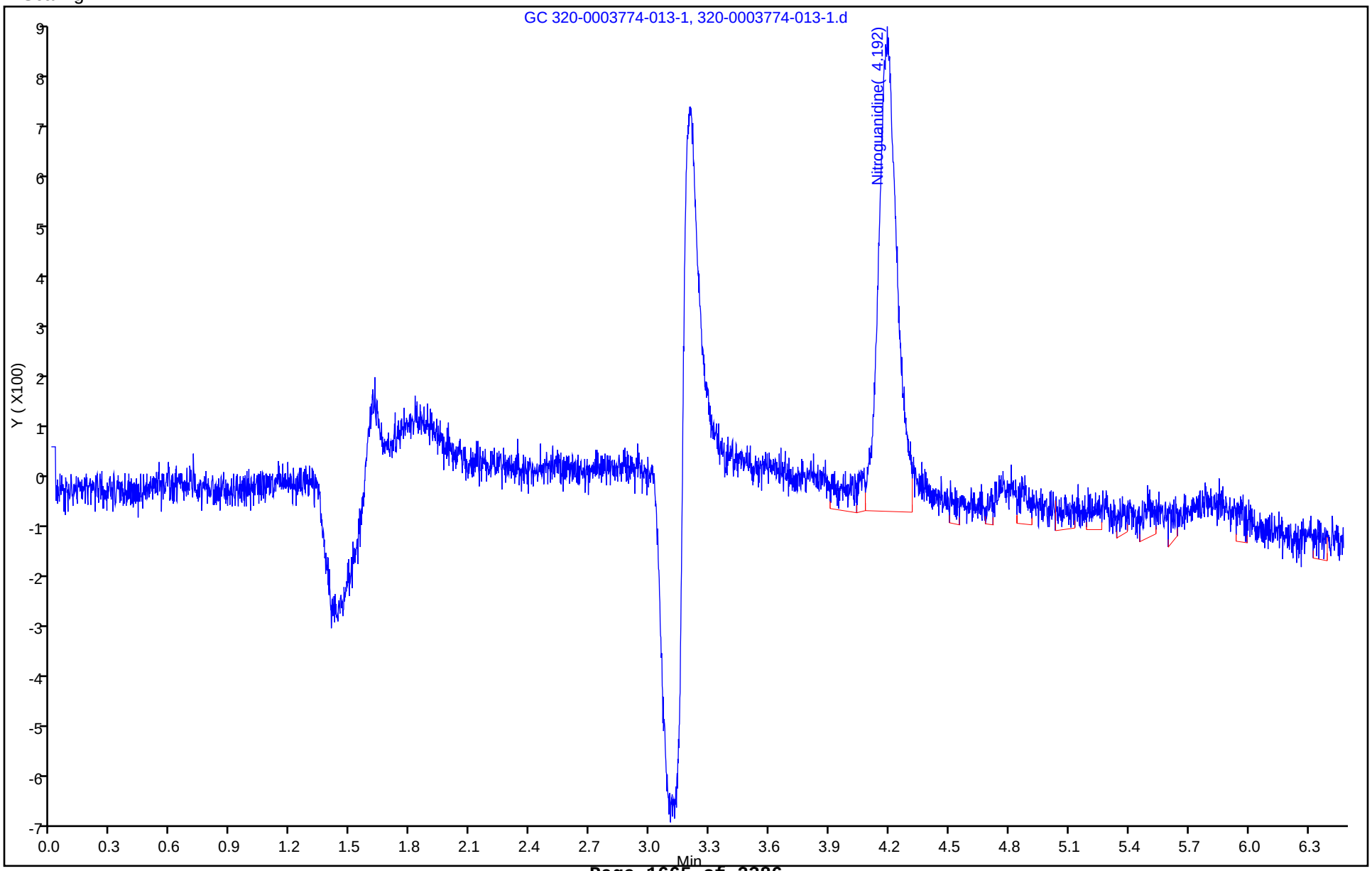
Report Date: 10-Apr-2013 10:05:36 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-013-1.d

Injection Date:	09-Apr-2013 16:01:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	13
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-13918/11 Calibration Date: 04/09/2013 19:16

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003783-011-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	44.06		108	100	7.6	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-13918/11 Calibration Date: 04/09/2013 19:16

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003783-011-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-011-1.d		
Lims ID:	CCV 04	Client ID:	
Inject. Date:	09-Apr-2013 19:16:00	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003783-011 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	11
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003783-011-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 11:02:00	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 11:02:00

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.190	4.190	0.0	4406	107.6	

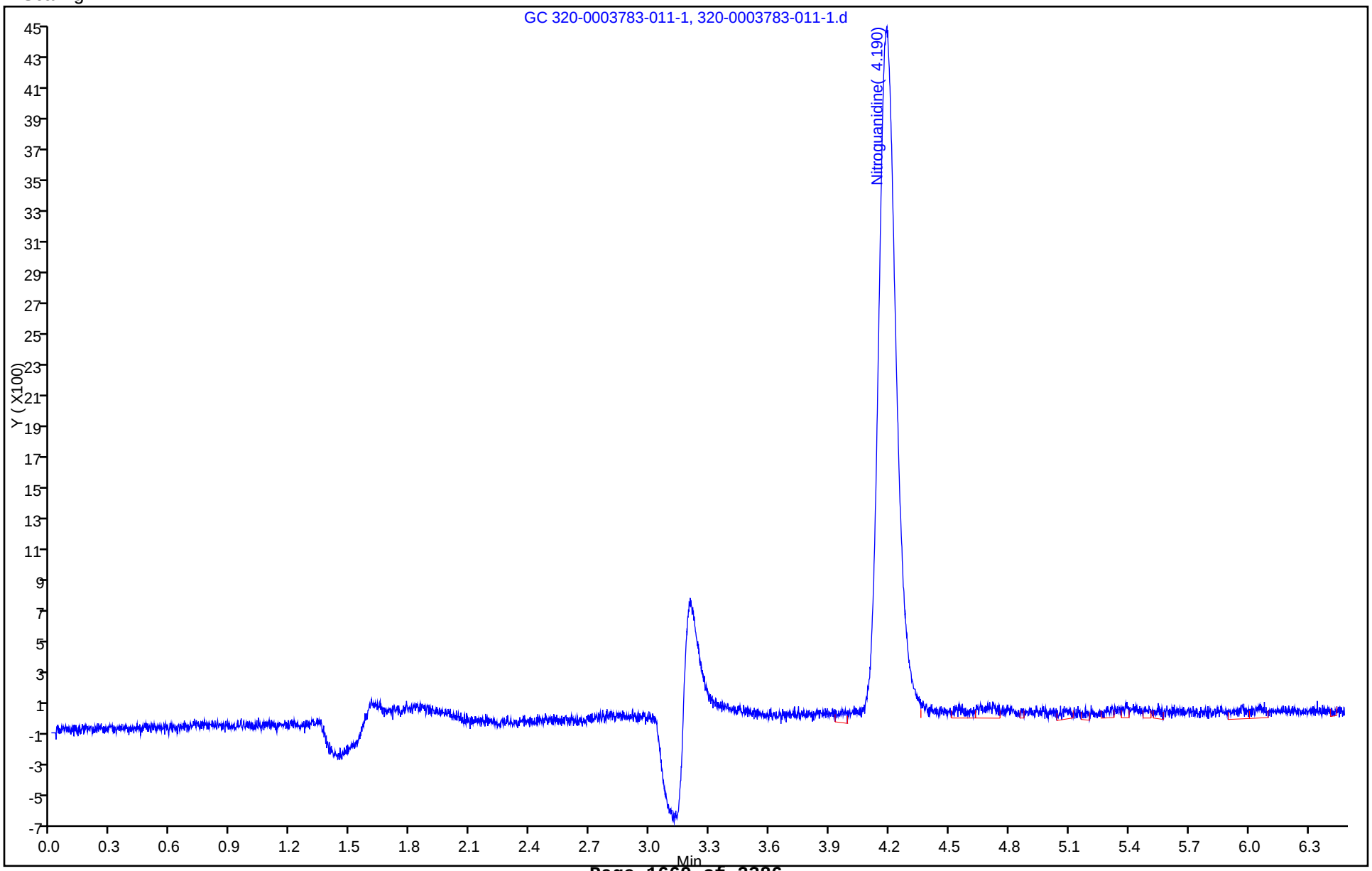
Report Date: 10-Apr-2013 11:02:00 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-011-1.d

Injection Date:	09-Apr-2013 19:16:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	11
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-13918/22 Calibration Date: 04/09/2013 22:31

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003783-022-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	43.81		107	100	7.0	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-13918/22 Calibration Date: 04/09/2013 22:31

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003783-022-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.20	3.95	4.45

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-022-1.d		
Lims ID:	CCV 04	Client ID:	
Inject. Date:	09-Apr-2013 22:31:00	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003783-022 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	22
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003783-022-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 11:06:05	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 11:06:05

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.203	4.203	0.0	4381	107.0	

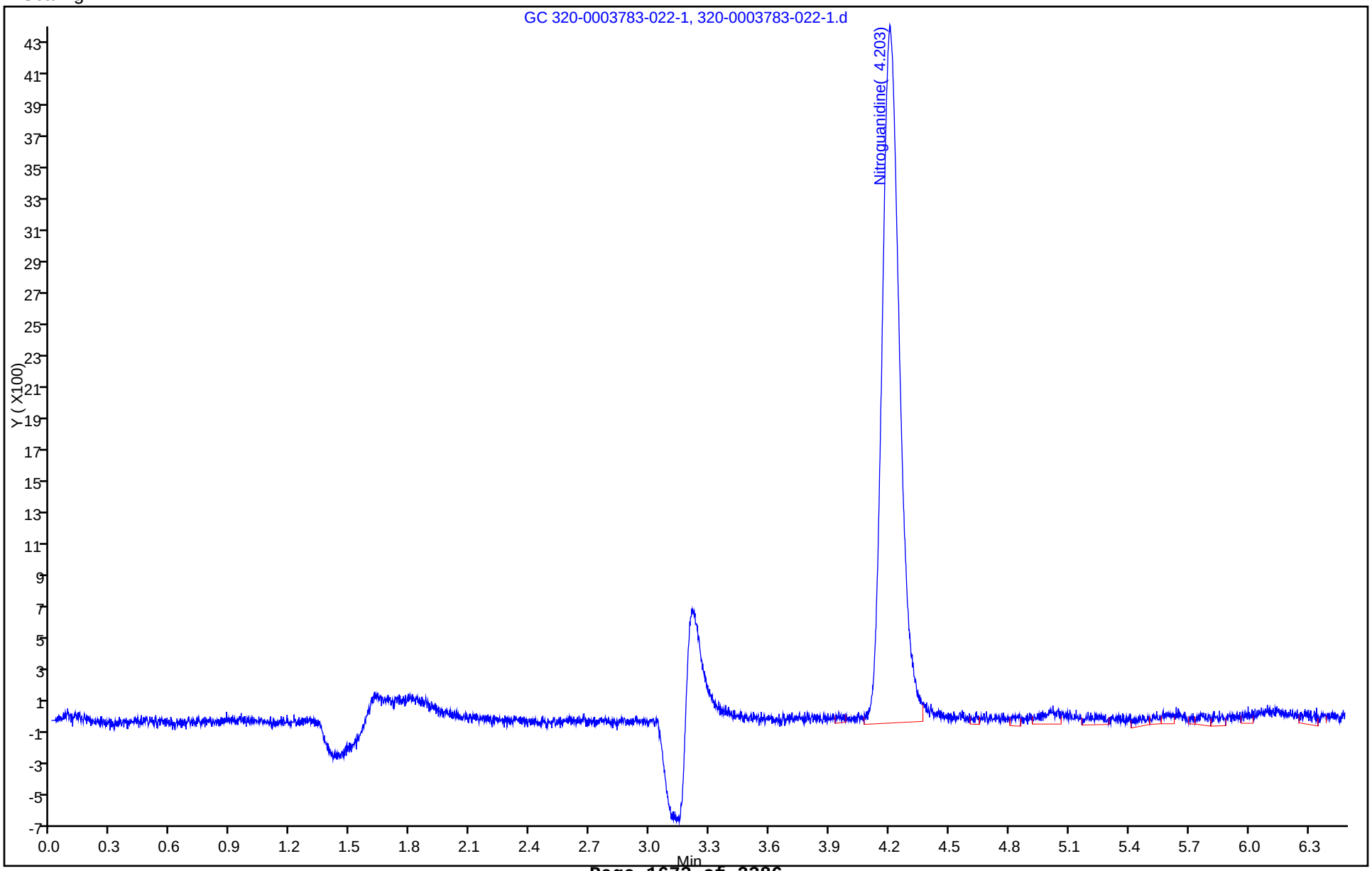
Report Date: 10-Apr-2013 11:06:05 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-022-1.d

Injection Date:	09-Apr-2013 22:31:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	22
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-13918/73 Calibration Date: 04/10/2013 13:36

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003783-073-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	45.05		22.0	20.0	10.0	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-13918/73 Calibration Date: 04/10/2013 13:36

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003783-073-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-073-1.d		
Lims ID:	CCVL	Client ID:	
Inject. Date:	10-Apr-2013 13:36:00	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003783-073 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	73
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003783-073-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 15:54:55	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		
First Level Reviewer: russellk		Date:	10-Apr-2013 15:54:17

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.187	4.187	0.0	901	22.0	

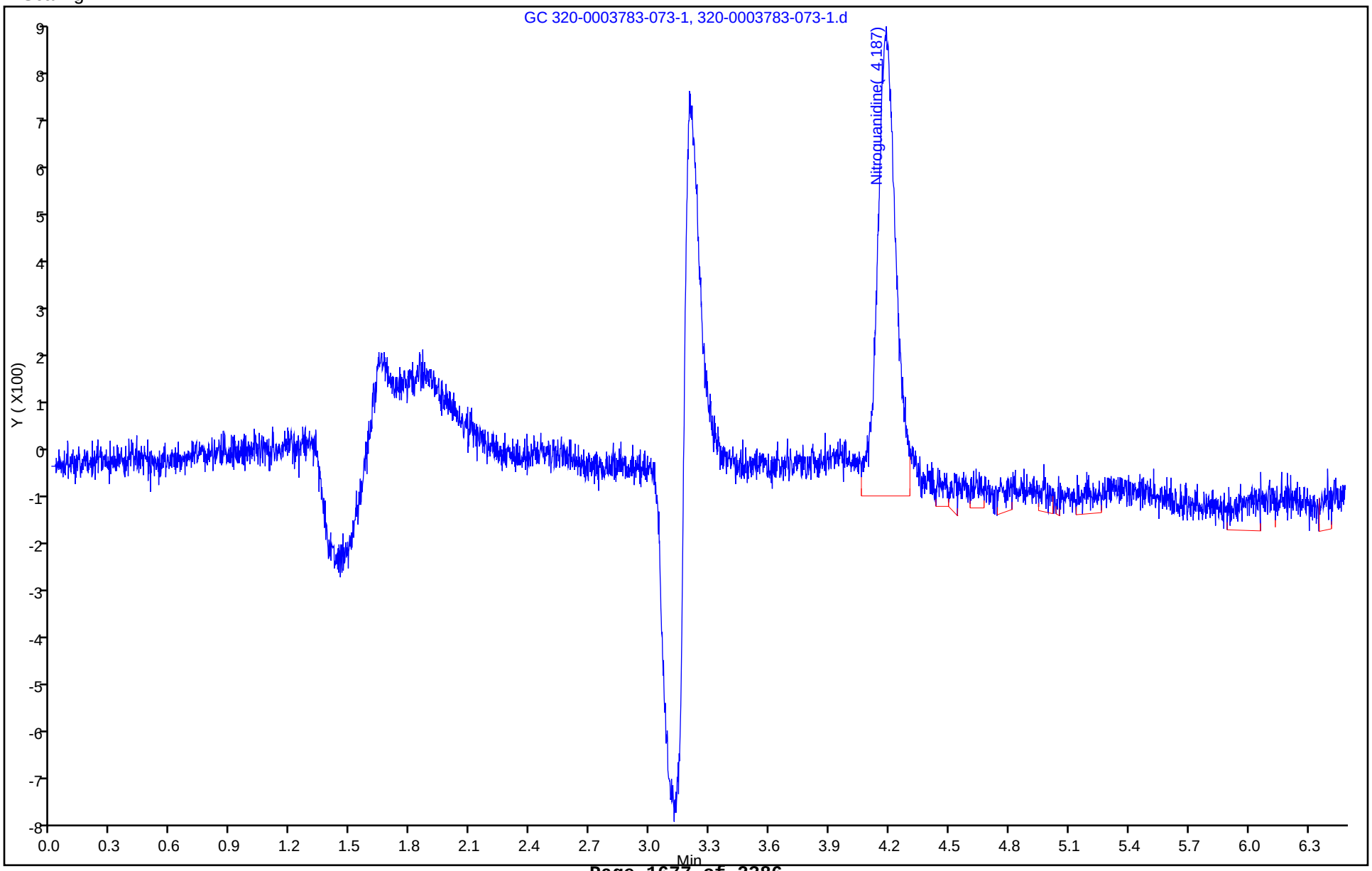
Report Date: 10-Apr-2013 15:54:55 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-073-1.d

Injection Date:	10-Apr-2013 13:36:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	73
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-14050/3 Calibration Date: 04/10/2013 17:28

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-003-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	44.39	61.80		6.98	5.00	39.2	

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-14050/3 Calibration Date: 04/10/2013 17:28

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-003-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.47	4.22	4.72

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-003-1.d		
Lims ID:	LODV Q2 2013	Client ID:	
Inject. Date:	10-Apr-2013 17:28:00	Dil. Factor:	1.0000
Sample Type:	LODV		
Sample ID:	320-0003819-003 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	3
Detector:	GC 320-0003819-003-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	12-Apr-2013 15:37:43	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK034		

First Level Reviewer: russellk Date: 12-Apr-2013 15:35:56

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					M
4.473	4.467	0.006	309	6.98	M

QC Flag Legend

Review Flags
M - Manually Integrated

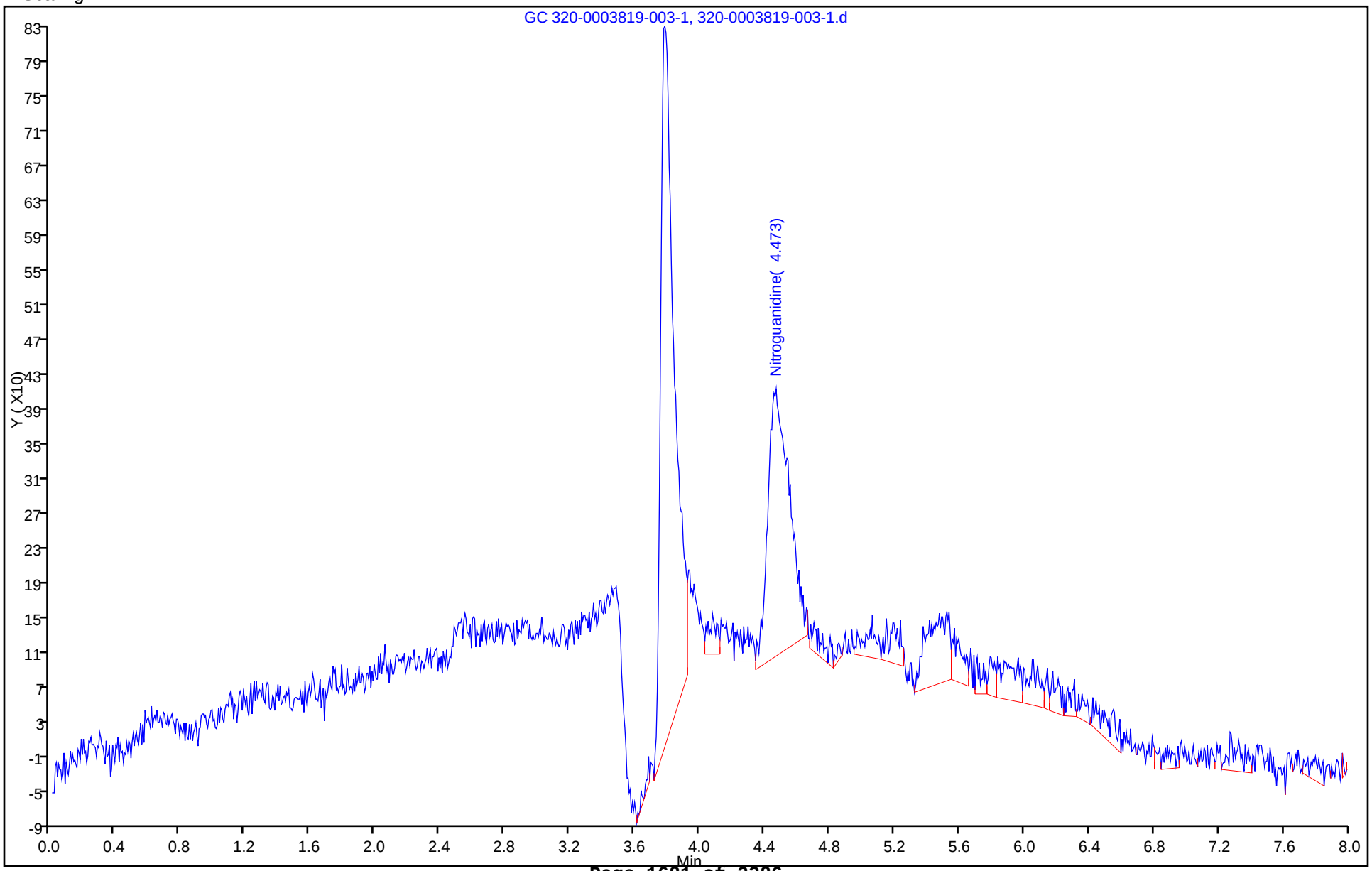
Report Date: 12-Apr-2013 15:37:43 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-003-1.d

Injection Date:	10-Apr-2013 17:28:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



Manual Integration/User Assign Peak Report

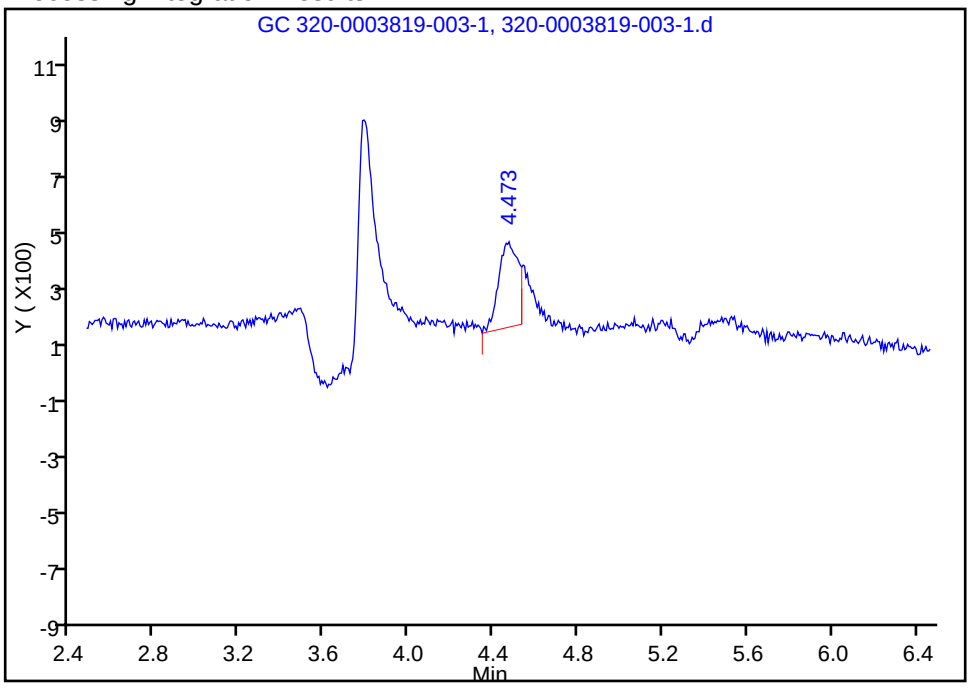
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-003-1.d		
Injection Date:	10-Apr-2013 17:28:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

1 Nitroguanidine, Signal: 1, Type: quant, RT: 4.47

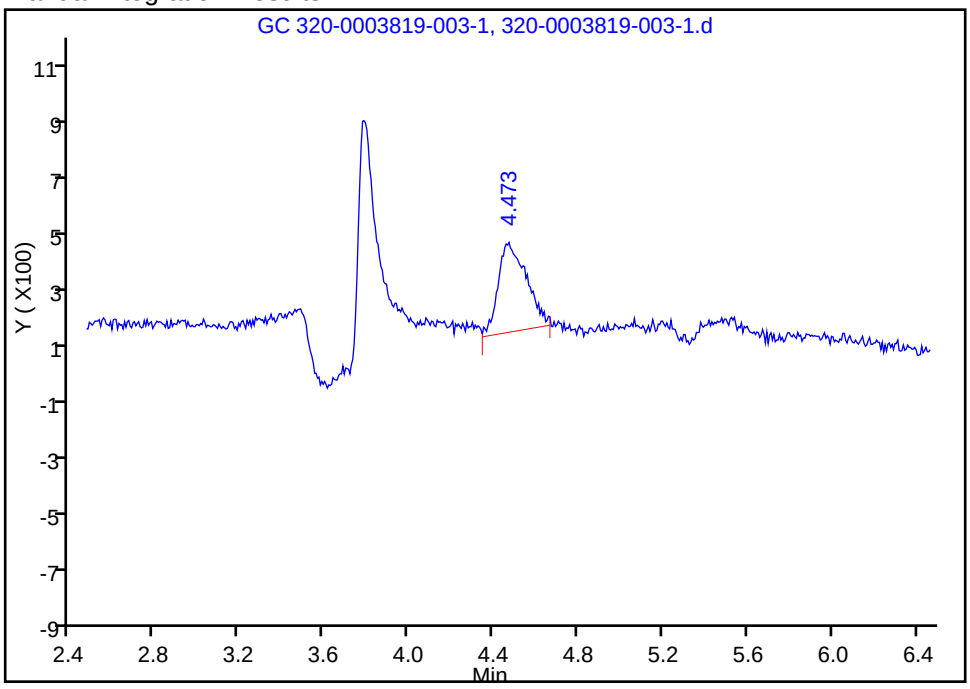
Processing Integration Results

RT: 4.47
Response: 293
Amount: 6.614269



Manual Integration Results

RT: 4.47
Response: 309
Amount: 6.975458



Reviewer: russellk, 12-Apr-2013 15:35:56
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14050/4 Calibration Date: 04/10/2013 17:48

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-004-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	44.39	45.15		204	200	1.7	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14050/4 Calibration Date: 04/10/2013 17:48

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-004-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.47	4.22	4.72

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-004-1.d		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	10-Apr-2013 17:48:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	320-0003819-004 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	4
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC 320-0003819-004-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	11-Apr-2013 09:36:20	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK005		
First Level Reviewer: russellk		Date:	11-Apr-2013 09:35:49

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.467	4.467	0.0	9029	203.8	

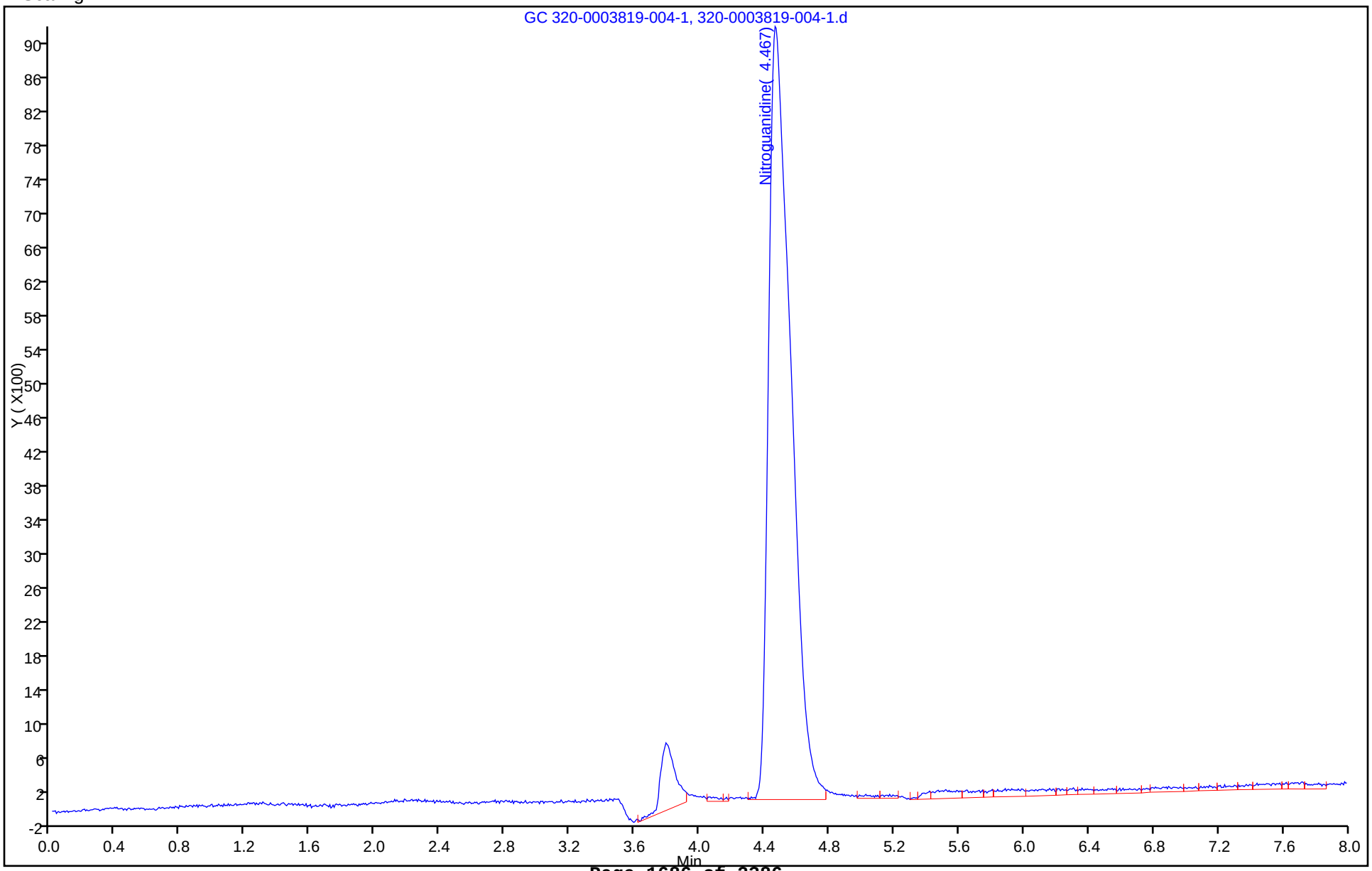
Report Date: 11-Apr-2013 09:36:20 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-004-1.d

Injection Date:	10-Apr-2013 17:48:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14050/5 Calibration Date: 04/10/2013 18:08

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-005-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	44.39	44.80		20.2	20.0	1.1	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14050/5 Calibration Date: 04/10/2013 18:08

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-005-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.47	4.22	4.72

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-005-1.d		
Lims ID:	CCVL	Client ID:	
Inject. Date:	10-Apr-2013 18:08:00	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003819-005 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	5
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC 320-0003819-005-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	12-Apr-2013 15:37:43	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK034		

First Level Reviewer: russellk Date: 12-Apr-2013 15:37:43

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					M
4.467	4.467	0.0	896	20.2	M

QC Flag Legend

Review Flags
M - Manually Integrated

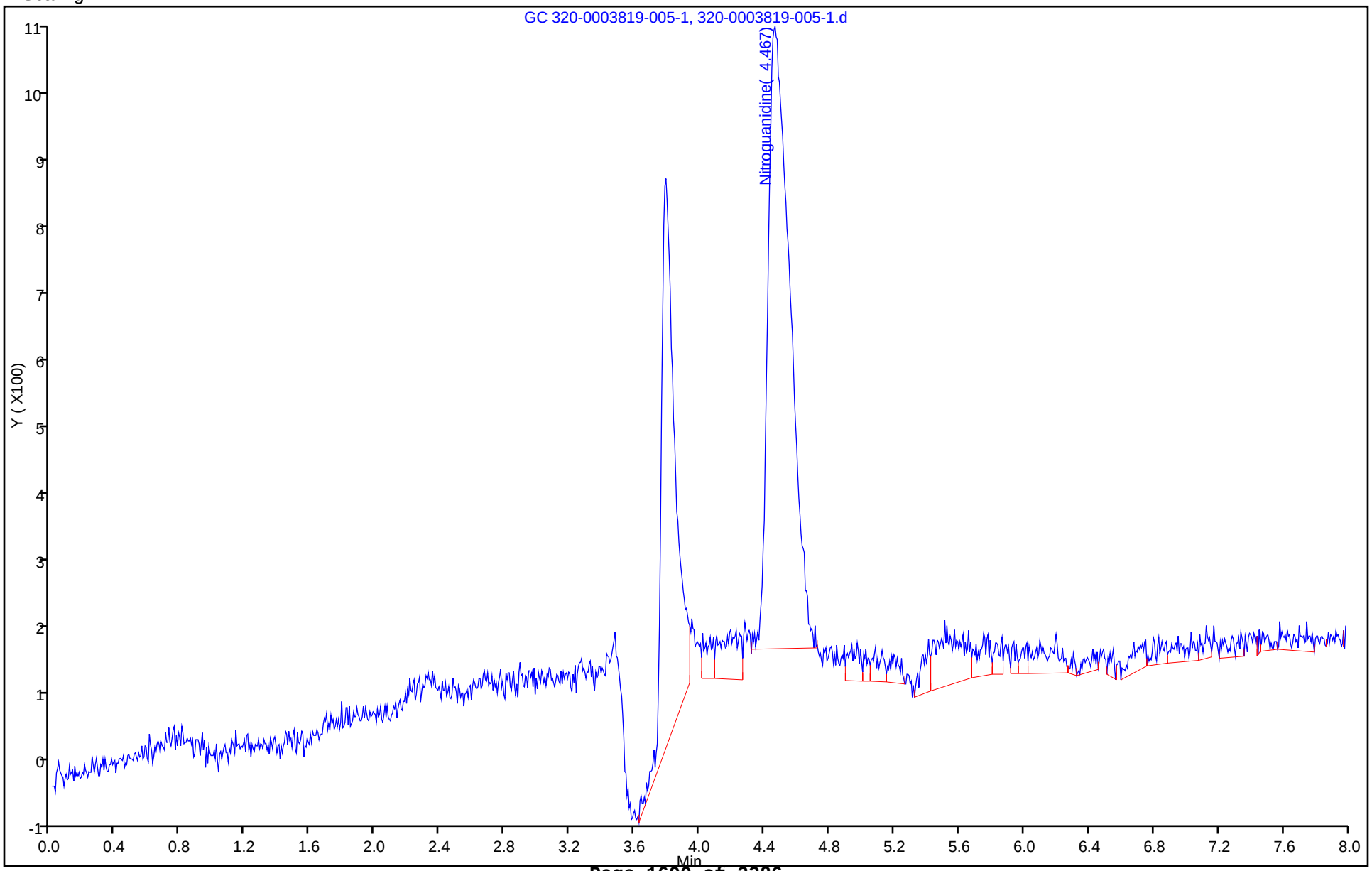
Report Date: 12-Apr-2013 15:37:43 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-005-1.d

Injection Date:	10-Apr-2013 18:08:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



Report Date: 12-Apr-2013 15:37:43 Chrom Revision: 2.1 07-Apr-2013 20:36:54

Manual Integration/User Assign Peak Report

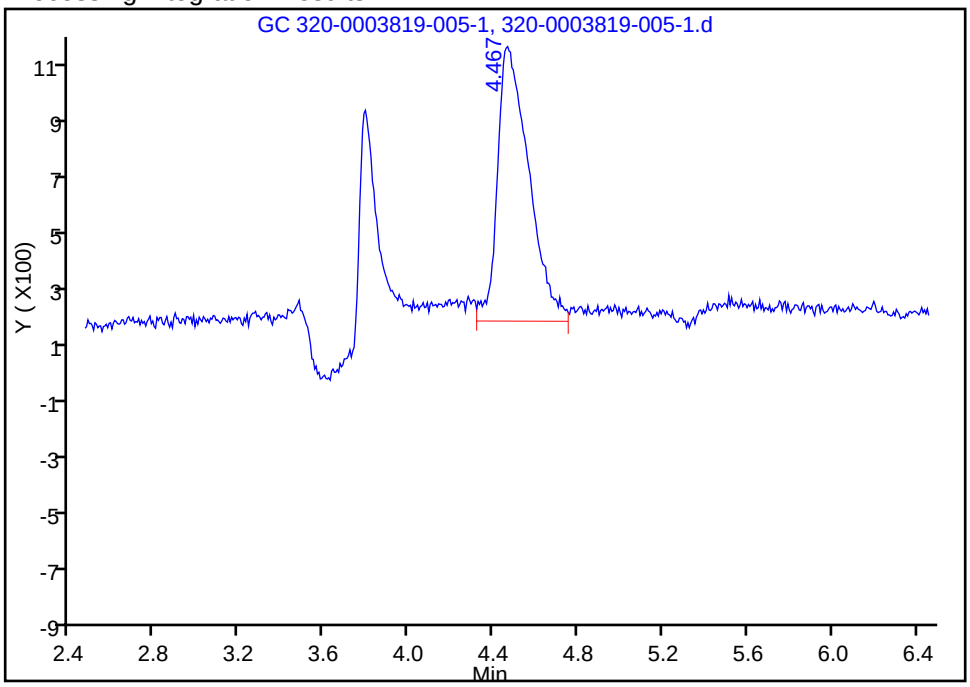
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-005-1.d		
Injection Date:	10-Apr-2013 18:08:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

1 Nitroguanidine, Signal: 1, Type: quant, RT: 4.47

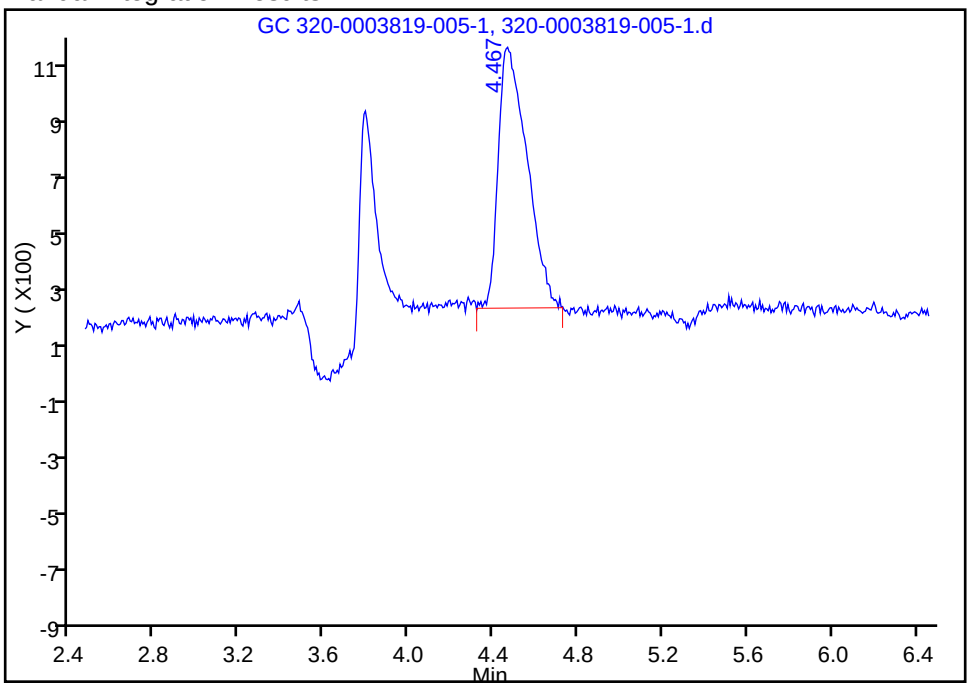
Processing Integration Results

RT: 4.47
Response: 943
Amount: 21.287563



Manual Integration Results

RT: 4.47
Response: 896
Amount: 20.226571



Reviewer: russellk, 12-Apr-2013 15:37:18
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14050/13 Calibration Date: 04/10/2013 20:47

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-013-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	44.39	47.95		108	100	8.0	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14050/13 Calibration Date: 04/10/2013 20:47

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-013-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.40	4.15	4.65

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-013-1.d		
Lims ID:	CCV 04	Client ID:	
Inject. Date:	10-Apr-2013 20:47:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	320-0003819-013 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	13
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC 320-0003819-013-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	11-Apr-2013 09:38:32	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK005		

First Level Reviewer: russellk Date: 11-Apr-2013 09:38:32

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.400	4.400	0.0	4795	108.2	

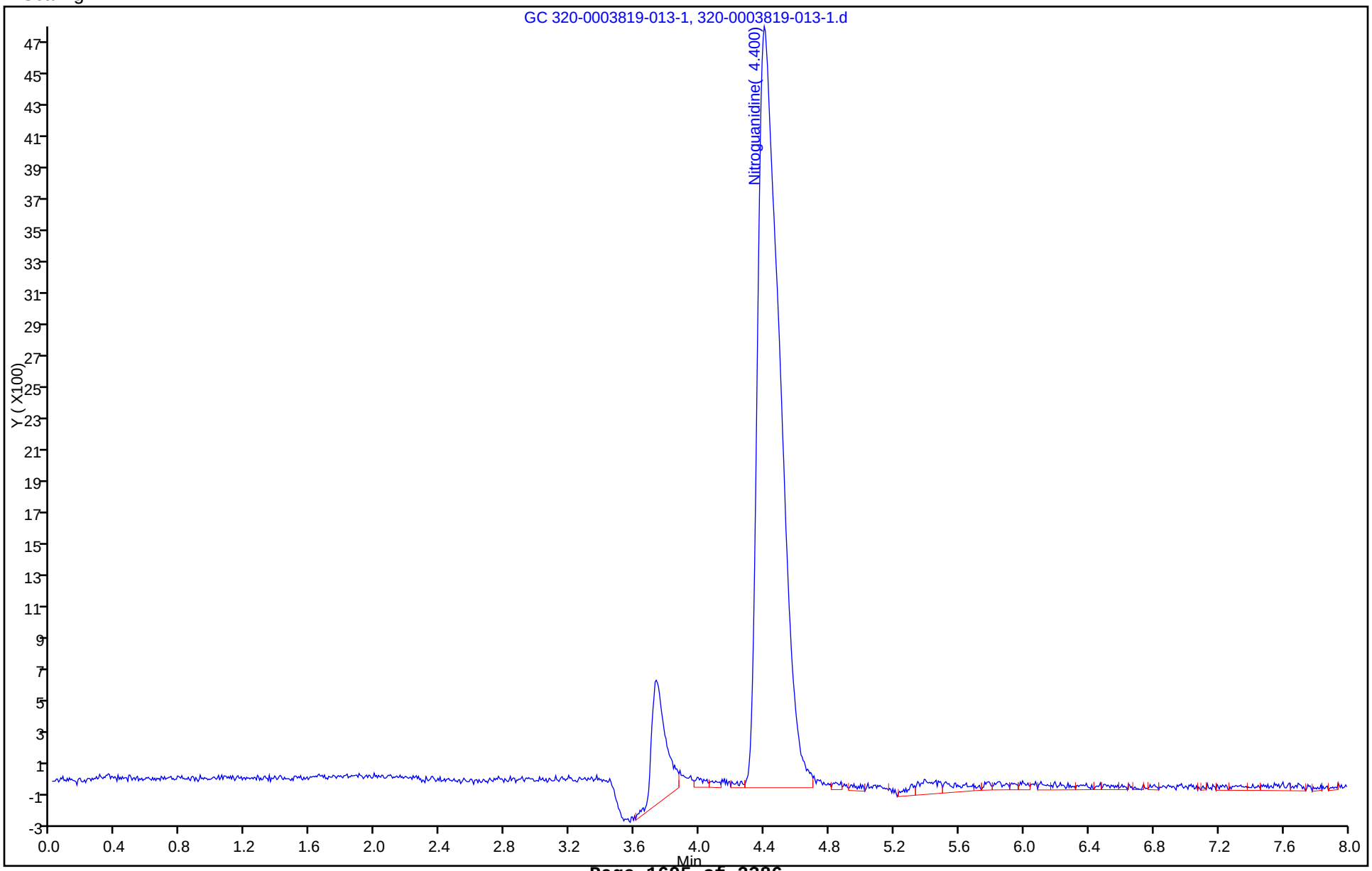
Report Date: 11-Apr-2013 09:38:32 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-013-1.d

Injection Date:	10-Apr-2013 20:47:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	13
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14050/14 Calibration Date: 04/10/2013 21:07

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-014-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	44.39	46.20		20.9	20.0	4.3	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14050/14 Calibration Date: 04/10/2013 21:07

Instrument ID: PDA1 Calib Start Date: 10/19/2012 15:58

GC Column: Hydro RP80A 4 ID: 4.00(mm) Calib End Date: 10/19/2012 17:37

Lab File ID: 320-0003819-014-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.41	4.16	4.66

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-014-1.d		
Lims ID:	CCVL	Client ID:	
Inject. Date:	10-Apr-2013 21:07:00	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003819-014 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	14
Sublist:	chrom-NQ CONFIRMATION*sub1		
Detector:	GC 320-0003819-014-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	11-Apr-2013 09:38:50	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK005		

First Level Reviewer: russellk Date: 11-Apr-2013 09:38:50

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.407	4.407	0.0	924	20.9	

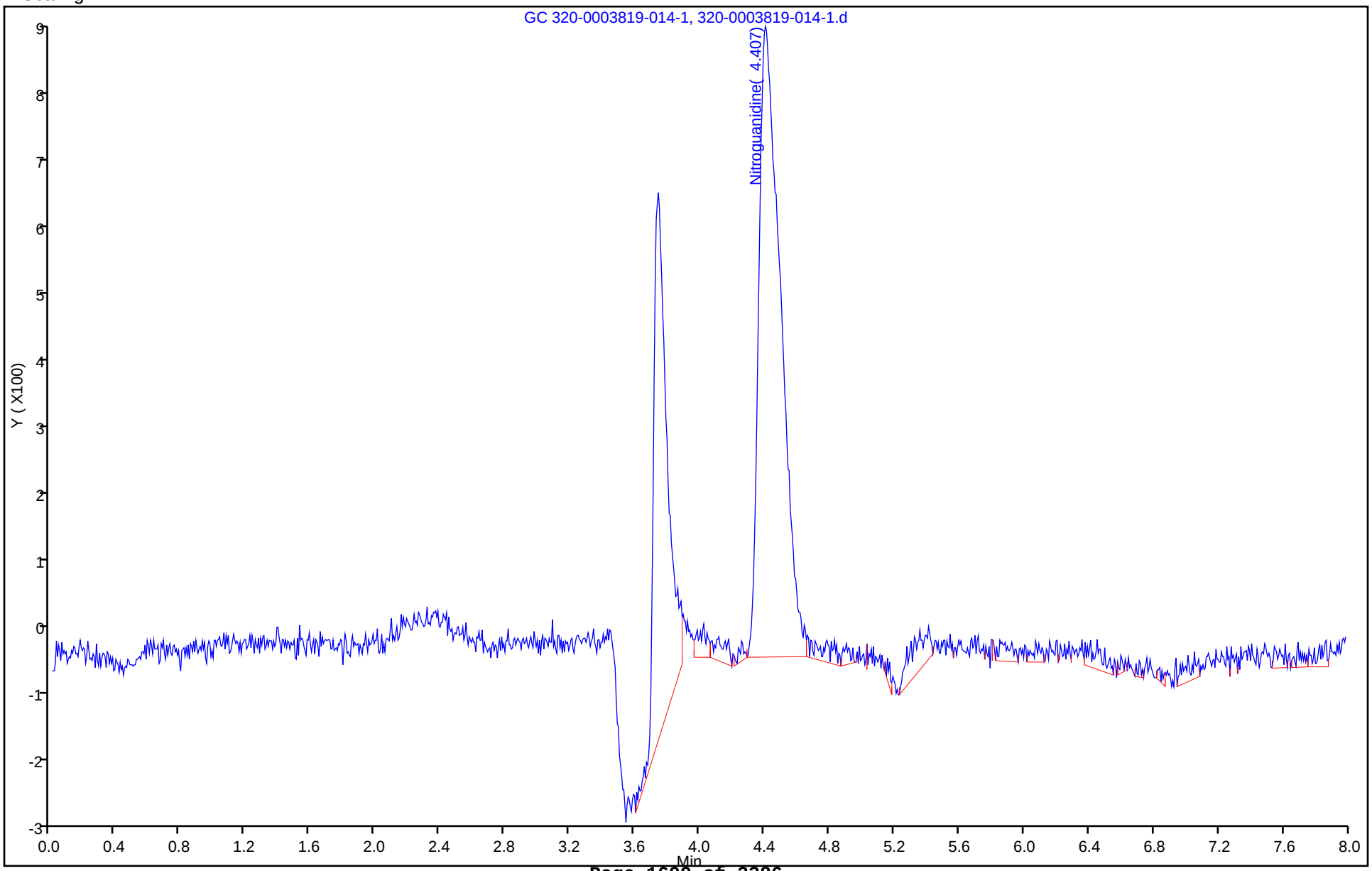
Report Date: 11-Apr-2013 09:38:50 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-014-1.d

Injection Date:	10-Apr-2013 21:07:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	14
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-13506/1-A

Matrix: Solid Lab File ID: 320-0003783-007-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.00(g) Date Analyzed: 04/09/2013 18:05

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 13918 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.040	U	0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-007-1.d		
Lims ID:	MB 320-13506/1-A	Client ID:	
Inject. Date:	09-Apr-2013 18:05:00	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0003783-007 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	7
Detector:	GC 320-0003783-007-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:58:42	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 10:58:57

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

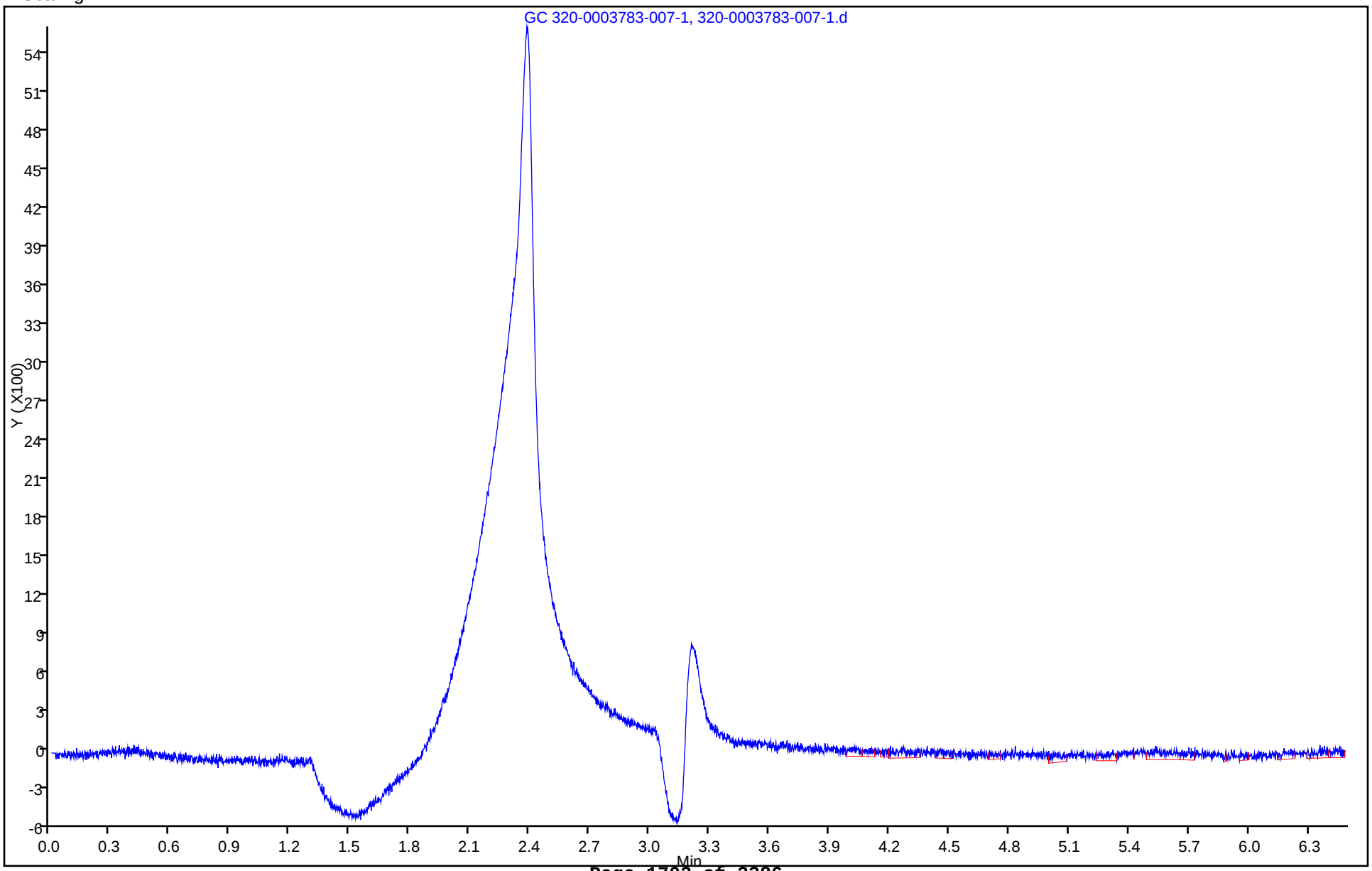
Report Date: 10-Apr-2013 10:58:57 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-007-1.d

Injection Date:	09-Apr-2013 18:05:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	7
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-13506/1-A

Matrix: Solid Lab File ID: 320-0003819-006-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.00(g) Date Analyzed: 04/10/2013 18:28

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 14050 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	*Nitroguanidine*	*0.040*	*U*	*0.25*	0.040	*0.020*

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-006-1.d		
Lims ID:	MB 320-13506/1-A	Client ID:	
Inject. Date:	10-Apr-2013 18:28:00	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0003819-006 Analysis		
Misc. Info.:	none PRIMER		
Operator:	RN	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14050	Lims Sample ID:	6
Detector:	GC 320-0003819-006-1		
Method:	\\SACChrom\ChromData\PDA1\20130410-3819.b\NQ CONFIRMATION.m		
Last Update:	11-Apr-2013 09:36:20	Calib Date:	19-Oct-2012 17:37:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20121019-1096.b\HPNQL7_00003001-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm
Process Host:	XAWRK005		

First Level Reviewer: russellk Date: 11-Apr-2013 09:36:34

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

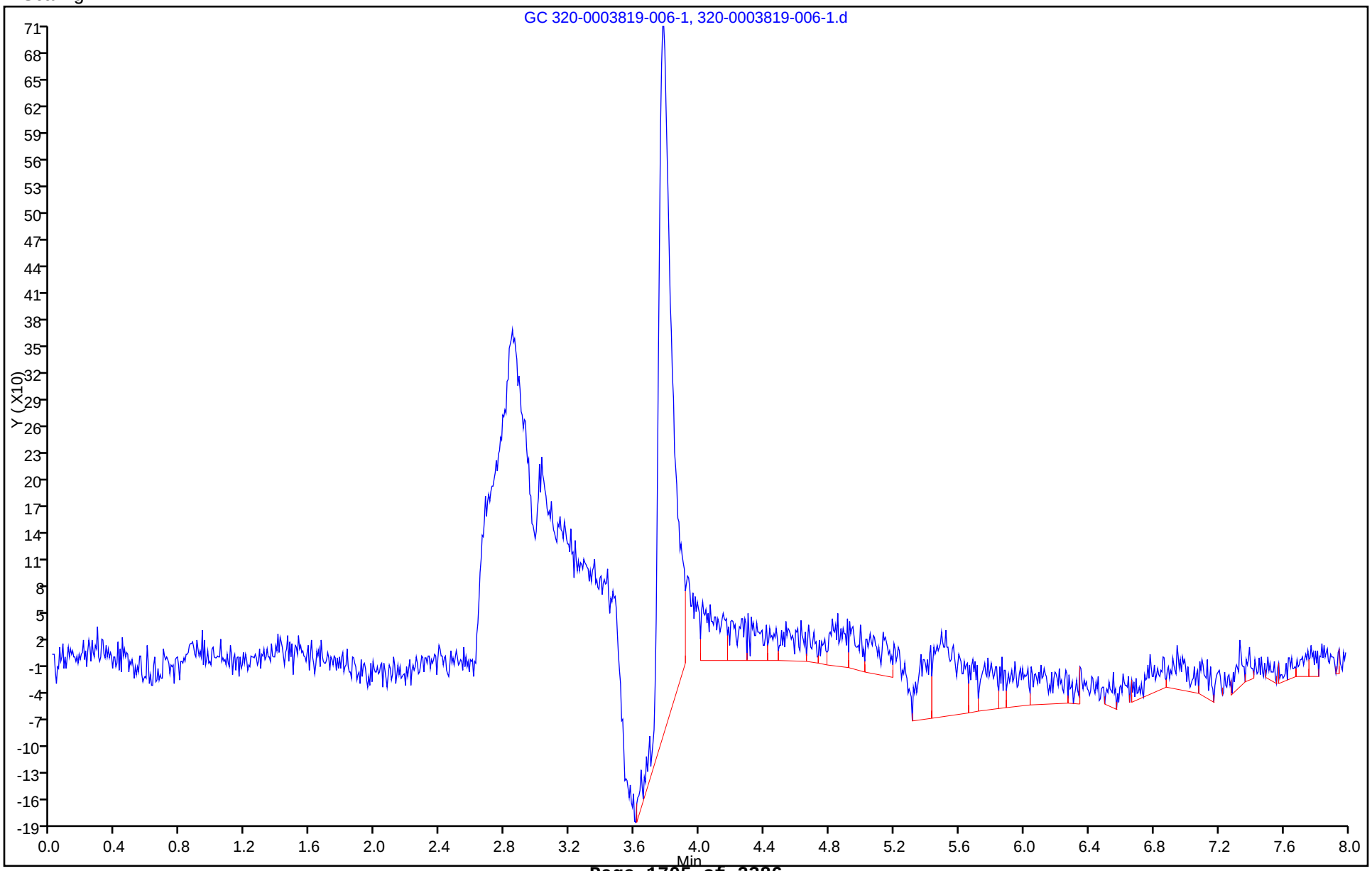
Report Date: 11-Apr-2013 09:36:35 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130410-3819.b\320-0003819-006-1.d

Injection Date:	10-Apr-2013 18:28:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14050	Lims Sample ID:	6
Operator ID:	RN	Injection Vol:	50.0 ul
Column Type:	Synergi 4u Hydro-RP80A	Column Dia:	4.00 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-13506/2-A

Matrix: Solid Lab File ID: 320-0003783-008-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.00(g) Date Analyzed: 04/09/2013 18:23

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 13918 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.931		0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-008-1.d		
Lims ID:	LCS 320-13506/2-A	Client ID:	
Inject. Date:	09-Apr-2013 18:23:00	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	320-0003783-008 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	8
Detector:	GC 320-0003783-008-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:59:24	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 10:59:24

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.193	4.173	0.020	7627	186.2	

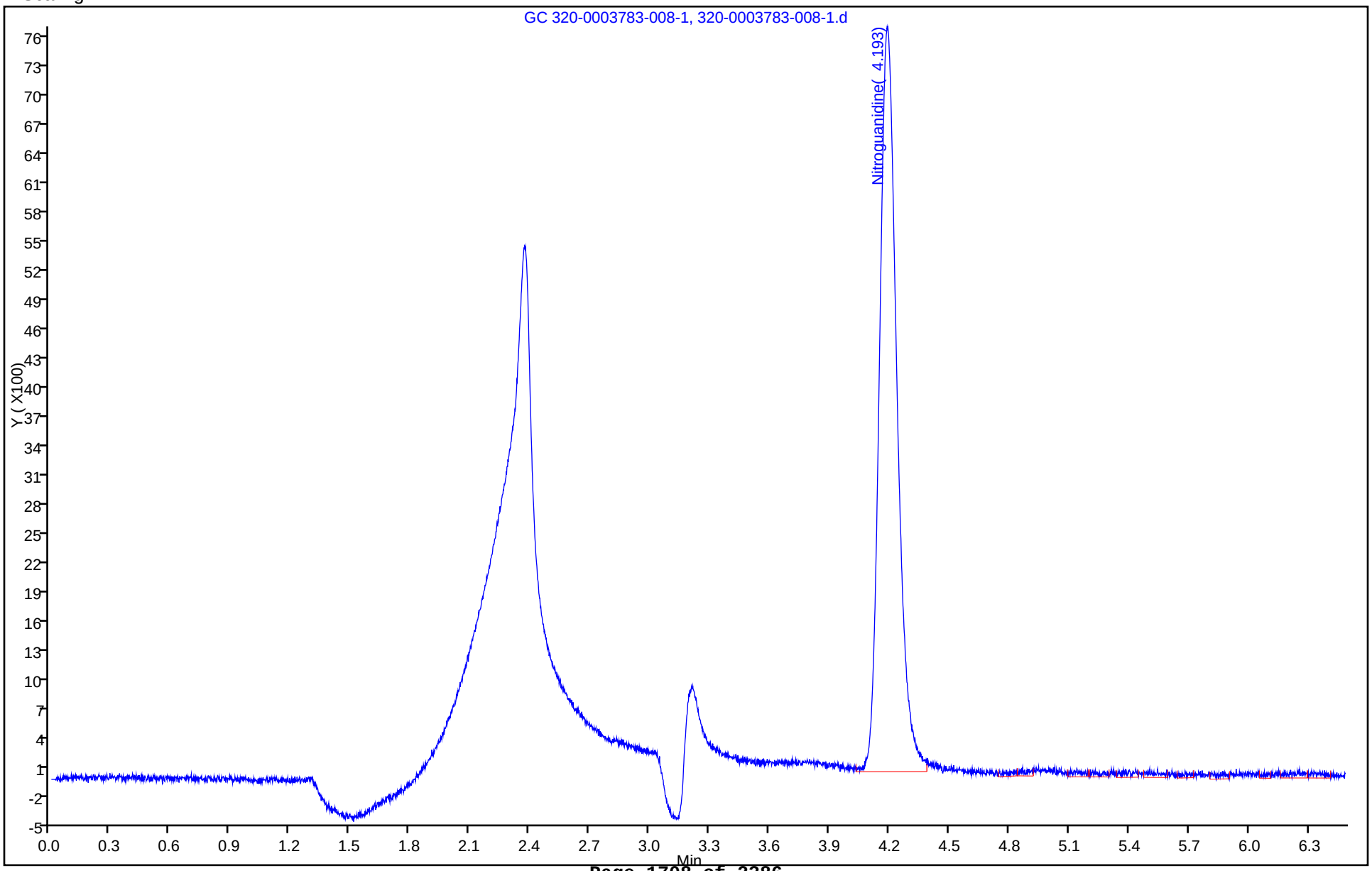
Report Date: 10-Apr-2013 10:59:24 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-008-1.d

Injection Date:	09-Apr-2013 18:23:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	8
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS Lab Sample ID: 240-22274-2 MS

Matrix: Solid Lab File ID: 320-0003783-010-1.d

Analysis Method: 8330 Modified Date Collected: 03/20/2013 11:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.01(g) Date Analyzed: 04/09/2013 18:58

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 13918 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.817		0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-010-1.d		
Lims ID:	240-22274-F-2-D MS	Client ID:	
Inject. Date:	09-Apr-2013 18:58:00	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	320-0003783-010 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	10
Detector:	GC 320-0003783-010-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 11:01:43	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 11:01:43

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.190	4.173	0.017	6721	164.1	

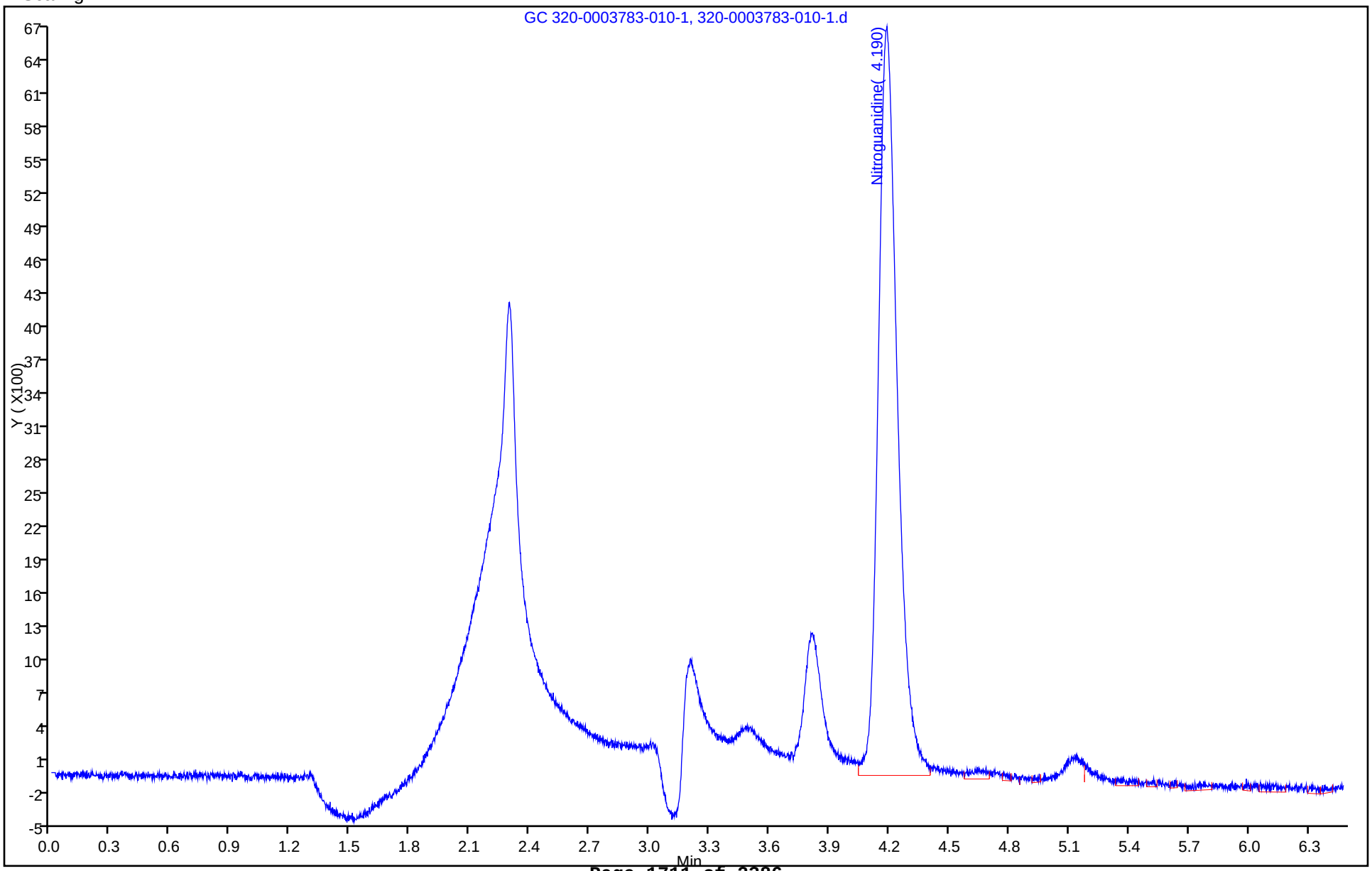
Report Date: 10-Apr-2013 11:01:43 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-010-1.d

Injection Date:	09-Apr-2013 18:58:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	10
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD Lab Sample ID: 240-22274-2 MSD

Matrix: Solid Lab File ID: 320-0003783-012-1.d

Analysis Method: 8330 Modified Date Collected: 03/20/2013 11:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/02/2013 15:43

Sample wt/vol: 2.04(g) Date Analyzed: 04/09/2013 19:34

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 13918 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.792	J	0.25	0.039	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-012-1.d		
Lims ID:	240-22274-F-2-E MSD	Client ID:	
Inject. Date:	09-Apr-2013 19:34:00	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	320-0003783-012 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13918	Lims Sample ID:	12
Detector:	GC 320-0003783-012-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3783.b\NGu Primary.m		
Last Update:	10-Apr-2013 11:02:20	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK020		

First Level Reviewer: russellk Date: 10-Apr-2013 11:02:20

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.208	4.190	0.018	6618	161.6	

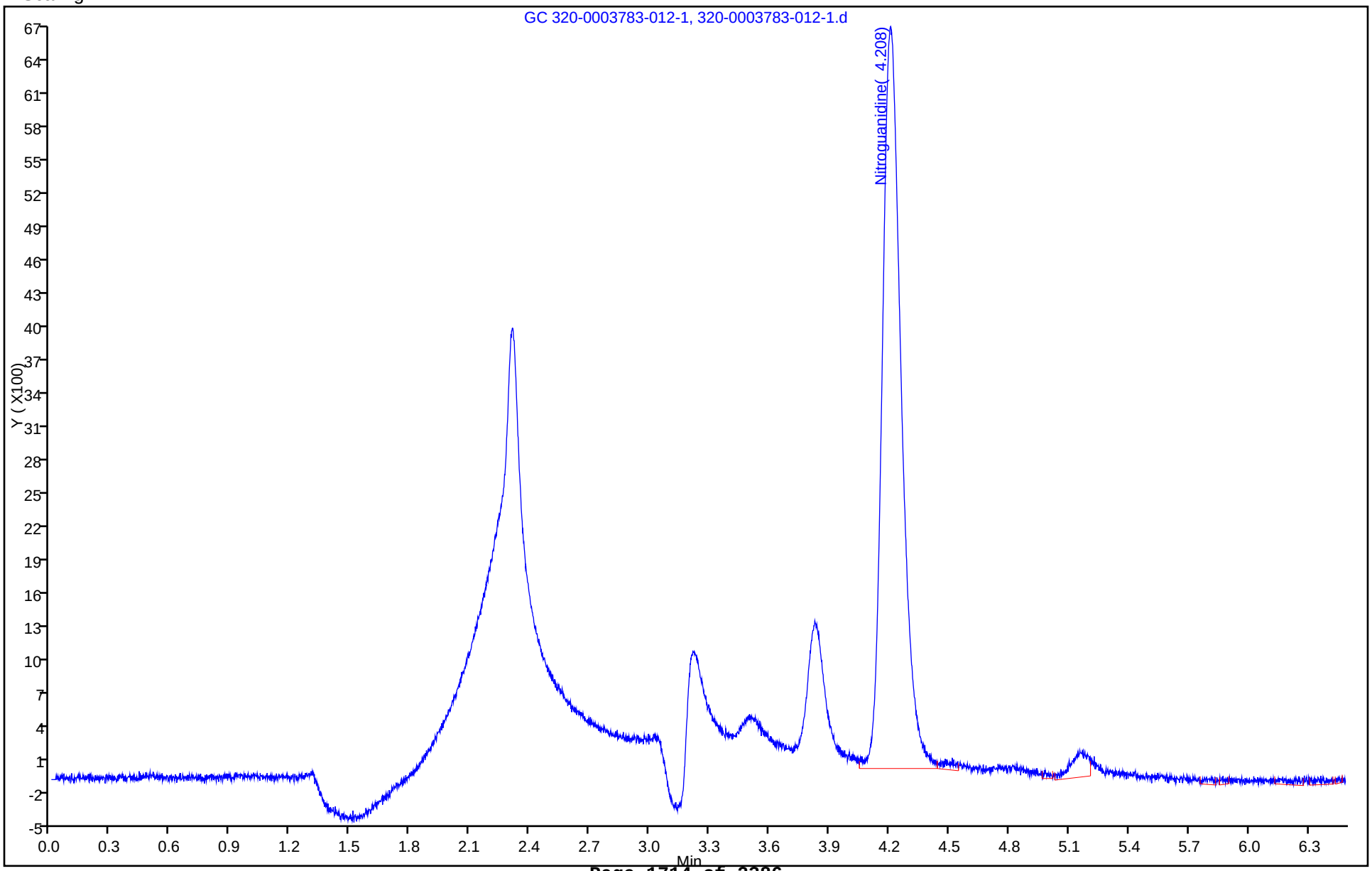
Report Date: 10-Apr-2013 11:02:20 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3783.b\320-0003783-012-1.d

Injection Date:	09-Apr-2013 19:34:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13918	Lims Sample ID:	12
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Start Date: 10/19/2012 14:58

Analysis Batch Number: 4779 End Date: 10/19/2012 18:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		10/19/2012 14:58	1		Hydro RP80A 4 4(mm)
ZZZZZ		10/19/2012 15:18	1		Hydro RP80A 4 4(mm)
EB 320-4779/3 ICB		10/19/2012 15:38	1		Hydro RP80A 4 4(mm)
STD02 320-4779/4 IC		10/19/2012 15:58	1	HPNQL2_00003002-1.d	Hydro RP80A 4 4(mm)
STD03 320-4779/5 IC		10/19/2012 16:18	1	HPNQL3_00003001-1.d	Hydro RP80A 4 4(mm)
STD04 320-4779/6 IC		10/19/2012 16:37	1	HPNQL4_00003001-1.d	Hydro RP80A 4 4(mm)
STD05 320-4779/7 IC		10/19/2012 16:57	1	HPNQL5_00003001-1.d	Hydro RP80A 4 4(mm)
STD06 320-4779/8 IC		10/19/2012 17:17	1	HPNQL6_00003001-1.d	Hydro RP80A 4 4(mm)
STD07 320-4779/9 IC		10/19/2012 17:37	1	HPNQL7_00003001-1.d	Hydro RP80A 4 4(mm)
EB 320-4779/10 CCB		10/19/2012 17:57	1		Hydro RP80A 4 4(mm)
ICV 320-4779/11		10/19/2012 18:17	1	HPNQIC_00002;002-1.d	Hydro RP80A 4 4(mm)
LODV 320-4779/12		10/19/2012 18:36	1		Hydro RP80A 4 4(mm)
CCVL 320-4779/13		10/19/2012 18:56	1		Hydro RP80A 4 4(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/09/2013 13:03

Analysis Batch Number: 13890 End Date: 04/09/2013 16:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 13:03	1		Luna NH2 4.6(mm)
STD02 320-13890/4 IC		04/09/2013 13:21	1	320-0003774-004 -1.d	Luna NH2 4.6(mm)
STD03 320-13890/5 IC		04/09/2013 13:39	1	320-0003774-005 -1.d	Luna NH2 4.6(mm)
STD04 320-13890/6 IC		04/09/2013 13:56	1	320-0003774-006 -1.d	Luna NH2 4.6(mm)
STD05 320-13890/7 IC		04/09/2013 14:14	1	320-0003774-007 -1.d	Luna NH2 4.6(mm)
STD06 320-13890/8 IC		04/09/2013 14:32	1	320-0003774-008 -1.d	Luna NH2 4.6(mm)
STD07 320-13890/9 IC		04/09/2013 14:50	1	320-0003774-009 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 15:08	1		Luna NH2 4.6(mm)
ICV 320-13890/11		04/09/2013 15:25	1	320-0003774-011 -1.d	Luna NH2 4.6(mm)
LODV 320-13890/12		04/09/2013 15:43	1	320-0003774-012 -1.d	Luna NH2 4.6(mm)
CCVL 320-13890/13		04/09/2013 16:01	1	320-0003774-013 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/09/2013 16:19

Analysis Batch Number: 13918 End Date: 04/10/2013 13:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 16:19	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 16:36	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 16:54	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 17:12	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 17:30	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 17:47	1		Luna NH2 4.6(mm)
MB 320-13506/1-A		04/09/2013 18:05	1	320-0003783-007 -1.d	Luna NH2 4.6(mm)
LCS 320-13506/2-A		04/09/2013 18:23	1	320-0003783-008 -1.d	Luna NH2 4.6(mm)
240-22274-2	079SD-0309-0001-SD	04/09/2013 18:41	1	320-0003783-009 -1.d	Luna NH2 4.6(mm)
240-22274-2 MS	079SD-0309-0001-SD MS	04/09/2013 18:58	1	320-0003783-010 -1.d	Luna NH2 4.6(mm)
CCV 320-13918/11 CCVRT		04/09/2013 19:16	1	320-0003783-011 -1.d	Luna NH2 4.6(mm)
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/09/2013 19:34	1	320-0003783-012 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 19:52	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 20:09	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 20:27	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 20:45	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 21:02	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 21:20	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 21:38	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 21:56	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 22:13	1		Luna NH2 4.6(mm)
CCV 320-13918/22 CCVRT		04/09/2013 22:31	1	320-0003783-022 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 22:49	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 23:07	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 23:24	1		Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 23:42	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 00:00	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 00:18	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 00:35	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 00:53	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 01:11	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 01:29	1		Luna NH2 4.6(mm)
CCV 320-13918/33 CCVRT		04/10/2013 01:46	1		Luna NH2 4.6(mm)
CCVL 320-13918/34		04/10/2013 02:04	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 02:22	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 02:40	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 02:57	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 03:15	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 03:33	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 03:51	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 04:08	1		Luna NH2 4.6(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/09/2013 16:19

Analysis Batch Number: 13918 End Date: 04/10/2013 13:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/10/2013 04:26	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 04:44	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 05:01	1		Luna NH2 4.6(mm)
CCV 320-13918/45 CCVRT		04/10/2013 05:19	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 05:37	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 05:55	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 06:12	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 06:30	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 06:48	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 07:06	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 07:23	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 07:41	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 07:59	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 08:17	1		Luna NH2 4.6(mm)
CCV 320-13918/56 CCVRT		04/10/2013 08:34	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 08:52	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 09:10	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 09:28	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 09:45	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 10:03	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 10:21	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 10:38	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 10:56	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 11:14	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 11:32	1		Luna NH2 4.6(mm)
CCV 320-13918/67 CCVRT		04/10/2013 11:49	1		Luna NH2 4.6(mm)
CCVL 320-13918/68		04/10/2013 12:07	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 12:25	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 12:43	1		Luna NH2 4.6(mm)
ZZZZZ		04/10/2013 13:00	1		Luna NH2 4.6(mm)
CCV 320-13918/72 CCVRT		04/10/2013 13:18	1		Luna NH2 4.6(mm)
CCVL 320-13918/73		04/10/2013 13:36	1	320-0003783-073 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/10/2013 17:28

Analysis Batch Number: 14050 End Date: 04/10/2013 21:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
LODV 320-14050/3		04/10/2013 17:28	1	320-0003819-003 -1.d	Hydro RP80A 4 4(mm)
CCV 320-14050/4		04/10/2013 17:48	1	320-0003819-004 -1.d	Hydro RP80A 4 4(mm)
CCVL 320-14050/5		04/10/2013 18:08	1	320-0003819-005 -1.d	Hydro RP80A 4 4(mm)
MB 320-13506/1-A		04/10/2013 18:28	1	320-0003819-006 -1.d	Hydro RP80A 4 4(mm)
240-22274-2	079SD-0309-0001-SD	04/10/2013 18:48	1	320-0003819-007 -1.d	Hydro RP80A 4 4(mm)
ZZZZZ		04/10/2013 19:08	1		Hydro RP80A 4 4(mm)
ZZZZZ		04/10/2013 19:27	1		Hydro RP80A 4 4(mm)
ZZZZZ		04/10/2013 19:47	1		Hydro RP80A 4 4(mm)
ZZZZZ		04/10/2013 20:07	1		Hydro RP80A 4 4(mm)
ZZZZZ		04/10/2013 20:27	1		Hydro RP80A 4 4(mm)
CCV 320-14050/13		04/10/2013 20:47	1	320-0003819-013 -1.d	Hydro RP80A 4 4(mm)
CCVL 320-14050/14		04/10/2013 21:07	1	320-0003819-014 -1.d	Hydro RP80A 4 4(mm)

8330 Modified

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13506 Batch Start Date: 04/02/13 15:43 Batch Analyst: Arauz, Horacio

Batch Method: Sieve/Ultrasoni Batch End Date: 04/05/13 07:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNQSP 00006			
MB 320-13506/1		Sieve/Ultrasoni, 8330 Modified		2.00 g	10.00 mL				
LCS 320-13506/2		Sieve/Ultrasoni, 8330 Modified		2.00 g	10.00 mL	40 uL			
240-22274-F-2	079SD-0309-0001-SD	Sieve/Ultrasoni, 8330 Modified	T	2.03 g	10.00 mL				
240-22274-F-2 MS	079SD-0309-0001-SD	Sieve/Ultrasoni, 8330 Modified	T	2.01 g	10.00 mL	40 uL			
240-22274-F-2 MSD	079SD-0309-0001-SD	Sieve/Ultrasoni, 8330 Modified	T	2.04 g	10.00 mL	40 uL			

Batch Notes	
Balance ID	QA-070
Calcium Chloride Reagent ID	4515-019D
Date of Clean up	4/5/13
Analyst performed Clean Up	NM
Date Sample was Dried	3-27-13
Filter Lot #	R2SA72748
Filter Type	.45um MILLIPORE
Date Sample was Ground	3-28-13
Blank Sand Lot #	FISHER 120571
Sonication End Date	4-03-13
Sonication Start Date	4-02-13
Sonication Start Time	16:30
Sonication Stop Time	10:30
SOP Number	WS-LC-0010
Maximum Temperature	26 Degrees C
Minimum Temperature	8 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13506 Batch Start Date: 04/02/13 15:43 Batch Analyst: Arauz, Horacio

Batch Method: Sieve/Ultrasoni Batch End Date: 04/05/13 07:25

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8330B

Nitroaromatics and Nitramines (HPLC) by Method 8330B

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Synergi C18 ID: 4.6 (mm) GC Column (2): Zorbax CN 4.6 (mm)

Client Sample ID	Lab Sample ID	DNT1 #	DNT2 #
079SD-0309-0001-SD	240-22274-2	91	
079SD-0309-0001-SD	240-22274-2		109
	MB 320-13509/1-A	92	
	MB 320-13509/1-A		117 M
	LCS 320-13509/2-A	94	
079SD-0309-0001-SD MS	240-22274-2 MS	95	
079SD-0309-0001-SD MSD	240-22274-2 MSD	97	

	QC LIMITS
DNT = 3,4-Dinitrotoluene	78-118

Column to be used to flag recovery values

FORM II 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L-000031.D

Lab ID: LCS 320-13509/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.500	0.451	90	79-119	
4-Amino-2,6-dinitrotoluene	0.500	0.454	91	81-121	
1,3-Dinitrobenzene	0.500	0.459	92	81-121	
2,4-Dinitrotoluene	0.500	0.462	92	79-119	
2,6-Dinitrotoluene	0.500	0.452	90	79-119	
HMX	0.500	0.473	95	80-120	
Nitrobenzene	0.500	0.466	93	80-120	
Nitroglycerin	1.00	0.930	93	76-116	M
2-Nitrotoluene	0.500	0.496	99	78-118	
3-Nitrotoluene	0.500	0.501	100	77-117	
4-Nitrotoluene	0.500	0.489	98	78-118	
PETN	1.00	0.989	99	76-116	M
RDX	0.500	0.466	93	82-122	
Tetryl	0.500	0.390	78	63-120	
1,3,5-Trinitrobenzene	0.500	0.462	92	81-121	
2,4,6-Trinitrotoluene	0.500	0.410	82	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L-000033.D

Lab ID: 240-22274-2 MS Client ID: 079SD-0309-0001-SD MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.500	0.056 J	0.449	79	79-119	
4-Amino-2,6-dinitrotoluene	0.500	0.12 J	0.440	65	81-121	J
1,3-Dinitrobenzene	0.500	0.050 U	0.462	92	81-121	
2,4-Dinitrotoluene	0.500	0.050 U	0.462	92	79-119	
2,6-Dinitrotoluene	0.500	0.050 U	0.452	90	79-119	
HMX	0.500	0.050 U	0.459	92	80-120	
Nitrobenzene	0.500	0.050 U	0.466	93	80-120	
Nitroglycerin	1.00	0.25 U	1.53	153	76-116	J
2-Nitrotoluene	0.500	0.050 U	0.748	150	78-118	J
3-Nitrotoluene	0.500	0.050 U	0.496	99	77-117	
4-Nitrotoluene	0.500	0.050 U	0.488	98	78-118	
PETN	1.00	0.25 U	0.915	91	76-116	
RDX	0.500	0.050 U	0.420	84	82-122	
Tetryl	0.500	0.050 U	0.390	78	63-120	
1,3,5-Trinitrobenzene	0.500	0.050 U	0.461	92	81-121	
2,4,6-Trinitrotoluene	0.500	0.050 U	0.408	82	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L-000035.D

Lab ID: 240-22274-2 MSD Client ID: 079SD-0309-0001-SD MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.499	0.455	80	1	20	79-119	
4-Amino-2,6-dinitrotoluene	0.499	0.445	66	1	20	81-121	J
1,3-Dinitrobenzene	0.499	0.457	92	1	20	81-121	
2,4-Dinitrotoluene	0.499	0.465	93	1	20	79-119	
2,6-Dinitrotoluene	0.499	0.462	93	2	20	79-119	
HMX	0.499	0.455	91	1	20	80-120	
Nitrobenzene	0.499	0.470	94	1	20	80-120	
Nitroglycerin	0.997	0.959	96	46	20	76-116	M J
2-Nitrotoluene	0.499	0.514	103	37	20	78-118	J
3-Nitrotoluene	0.499	0.505	101	2	20	77-117	
4-Nitrotoluene	0.499	0.486	98	0	20	78-118	
PETN	0.997	1.00	101	9	20	76-116	M
RDX	0.499	0.425	85	1	20	82-122	
Tetryl	0.499	0.386	77	1	20	63-120	
1,3,5-Trinitrobenzene	0.499	0.464	93	1	20	81-121	
2,4,6-Trinitrotoluene	0.499	0.413	83	1	20	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: MB 320-13509/1-A

Matrix: Solid Date Extracted: 04/02/2013 15:58

Lab File ID:(1) L-000030.D Lab File ID:(2) P000050.D

Date Analyzed:(1) 04/13/2013 16:32 Date Analyzed:(2) 04/18/2013 09:54

Instrument ID:(1) LC11 Instrument ID:(2) LC12

GC Column:(1) Synergi C18 ID: 4.6(mm) GC Column:(2) Zorbax CN ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 320-13509/2-A	04/13/2013 17:29	
079SD-0309-0001-SD	240-22274-2	04/13/2013 18:26	04/18/2013 11:00
079SD-0309-0001-SD MS	240-22274-2 MS	04/13/2013 19:23	
079SD-0309-0001-SD MSD	240-22274-2 MSD	04/13/2013 21:17	

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Sample No.: CCV 320-14179/23 Date Analyzed: 04/13/2013 09:52

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm)

Lab File ID (Standard): L-000023.D Heated Purge: (Y/N) N

Calibration ID: 1035

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				32.43		
UPPER LIMIT				32.68		
LOWER LIMIT				32.18		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14179/23 CCVRT		04/13/2013 09:52	L-000023.D	32.43		
CCVL 320-14179/24		04/13/2013 10:49	L-000024.D	32.45		
MB 320-13509/1-A		04/13/2013 16:32	L-000030.D	32.44		
LCS 320-13509/2-A		04/13/2013 17:29	L-000031.D	32.44		
240-22274-2	079SD-0309-0001-SD	04/13/2013 18:26	L-000032.D	32.44		
240-22274-2 MS	079SD-0309-0001-SD MS	04/13/2013 19:23	L-000033.D	32.44		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Sample No.: CCV 320-14179/34 Date Analyzed: 04/13/2013 20:20

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm)

Lab File ID (Standard): L-000034.D Heated Purge: (Y/N) N

Calibration ID: 1035

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				32.43		
UPPER LIMIT				32.68		
LOWER LIMIT				32.18		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14179/34 CCVRT		04/13/2013 20:20	L-000034.D	32.43		
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/13/2013 21:17	L-000035.D	32.44		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Sample No.: CCV 320-14569/41 Date Analyzed: 04/18/2013 06:36

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): P000047.D Heated Purge: (Y/N) N

Calibration ID: 2128

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				38.68		
UPPER LIMIT				38.93		
LOWER LIMIT				38.43		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14569/41 CCVRT		04/18/2013 06:36	P000047.D	38.68		
CCVL 320-14569/46		04/18/2013 07:42	P000048.D	38.65		
MB 320-13509/1-A		04/18/2013 09:54	P000050.D	38.61		
240-22274-2	079SD-0309-0001-SD	04/18/2013 11:00	P000051.D	38.67		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Sample No.: CCV 320-14569/43 Date Analyzed: 04/18/2013 17:37

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): P000057.D Heated Purge: (Y/N) N

Calibration ID: 2128

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				38.68		
UPPER LIMIT				38.93		
LOWER LIMIT				38.43		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14569/43 CCVRT		04/18/2013 17:37	P000057.D	38.68		
CCVL 320-14569/63		04/19/2013 04:38	P000067.D	38.71		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: L-000032.D

Analysis Method: 8330B Date Collected: 03/20/2013 11:30

Extraction Method: 8330B Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.02(g) Date Analyzed: 04/13/2013 18:26

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 14179 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	91		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000032.D		
Lims ID:	240-22274-F-2-F	Client ID:	079SD-0309-0001-SD
Inject. Date:	13-Apr-2013 18:26:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003856-032		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	76
Lims Batch ID:	14179	Lims Sample ID:	32
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 09:07:53	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer:	russellk	Date:	15-Apr-2013 10:39:42

Det	RT	EXP RT	DLT RT	Response	Flags
27 1,3,5-Trinitrobenzene					
1	25.337	25.346	-0.009	301	1.40
24 1,3-Dinitrobenzene					
1	27.963	28.050	-0.087	125	0.5467
9 3,5-Dinitroaniline					
1	29.113	29.196	-0.083	278	1.85
7 Nitroglycerin					
2	30.420	30.360	0.060	6970	77.4
$ 30 3,4-Dinitrotoluene					
1	32.443	32.446	-0.003	3982	57.0
2	32.437	32.450	-0.013	7498	58.1
16 o-Nitrotoluene					
1	36.923	37.063	-0.140	1061	20.5

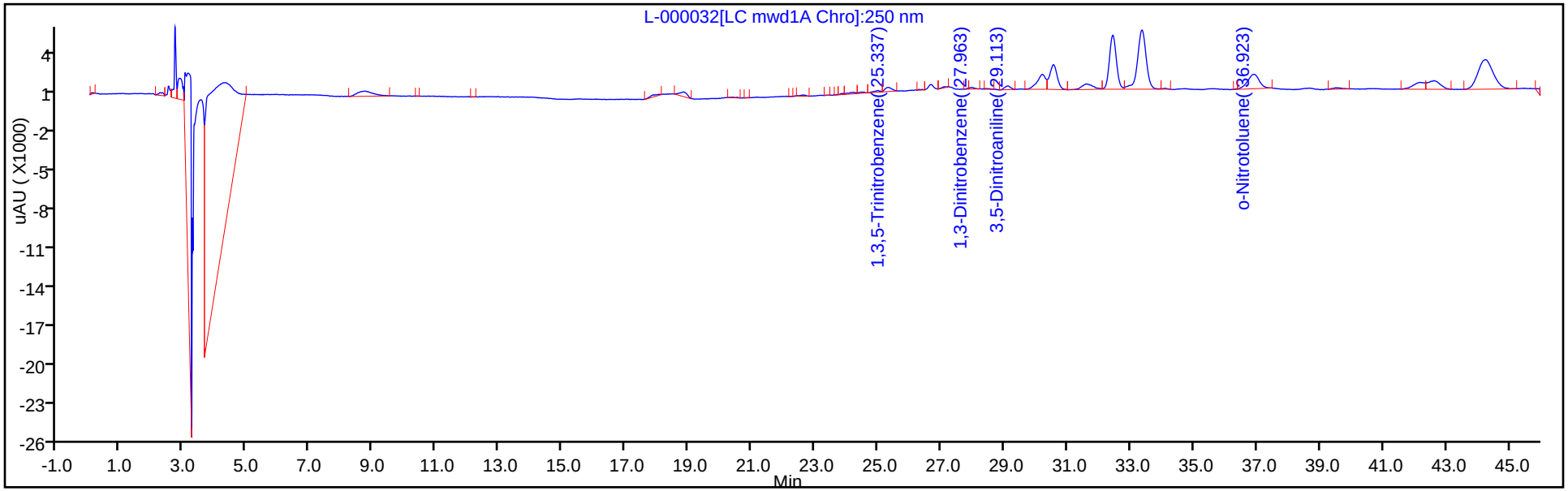
Report Date: 16-Apr-2013 09:07:54 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

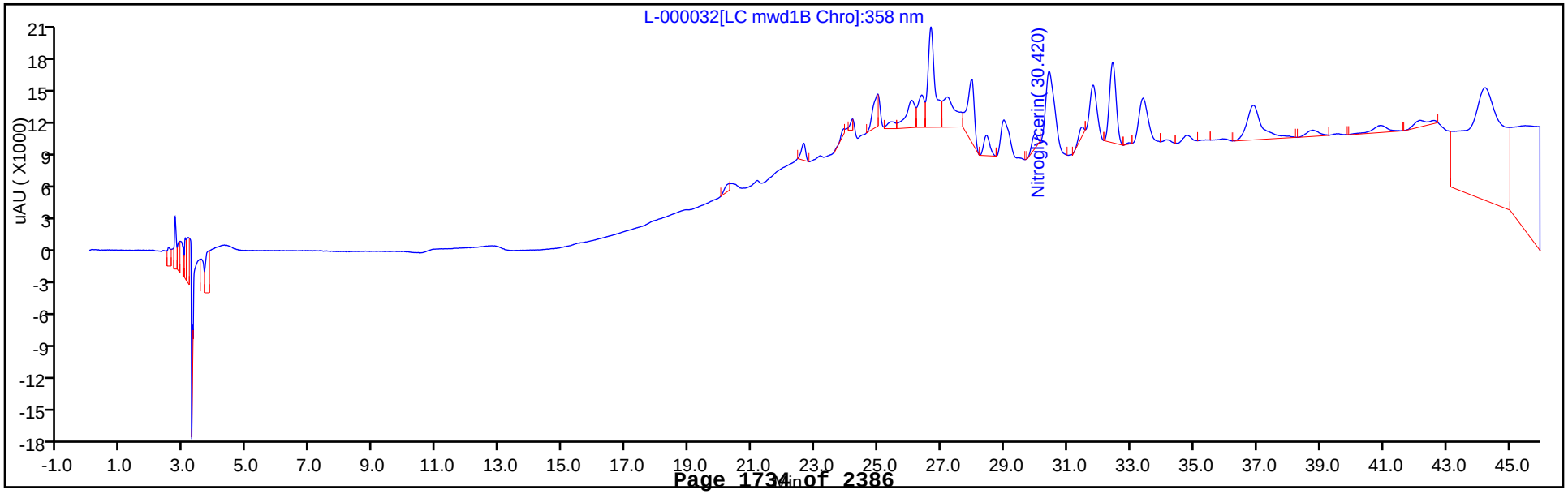
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000032.D

Injection Date:	13-Apr-2013 18:26:22	Limit Group:	LC 8330B ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	32
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD Lab Sample ID: 240-22274-2

Matrix: Solid Lab File ID: P000051.D

Analysis Method: 8330B Date Collected: 03/20/2013 11:30

Extraction Method: 8330B Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.02(g) Date Analyzed: 04/18/2013 11:00

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Zorbax CN ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 14569 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
55-63-0	Nitroglycerin	0.25	U J	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U J	0.25	0.050	0.013
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	109		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000051.D		
Lims ID:	240-22274-F-2-F	Client ID:	079SD-0309-0001-SD
Inject. Date:	18-Apr-2013 11:00:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003897-048		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	49
Lims Batch ID:	14569	Lims Sample ID:	48
Method:	\\SACChrom\ChromData\LC12\20130415-3897.b\LC12_Conf_8330.m		
Last Update:	18-Apr-2013 12:21:00	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK017		
First Level Reviewer: noonanr		Date:	18-Apr-2013 12:21:00

Det	RT	RT	DLT RT	Response		Flags
6 2-Amino-4,6-dinitrotoluene						
1	36.175	36.288	-0.113	520	6.99	
26 4-Amino-2,6-dinitrotoluene						
1	36.975	36.914	0.061	1015	14.4	
$ 30 3,4-Dinitrotoluene						
1	38.671	38.648	0.023	3629	67.9	

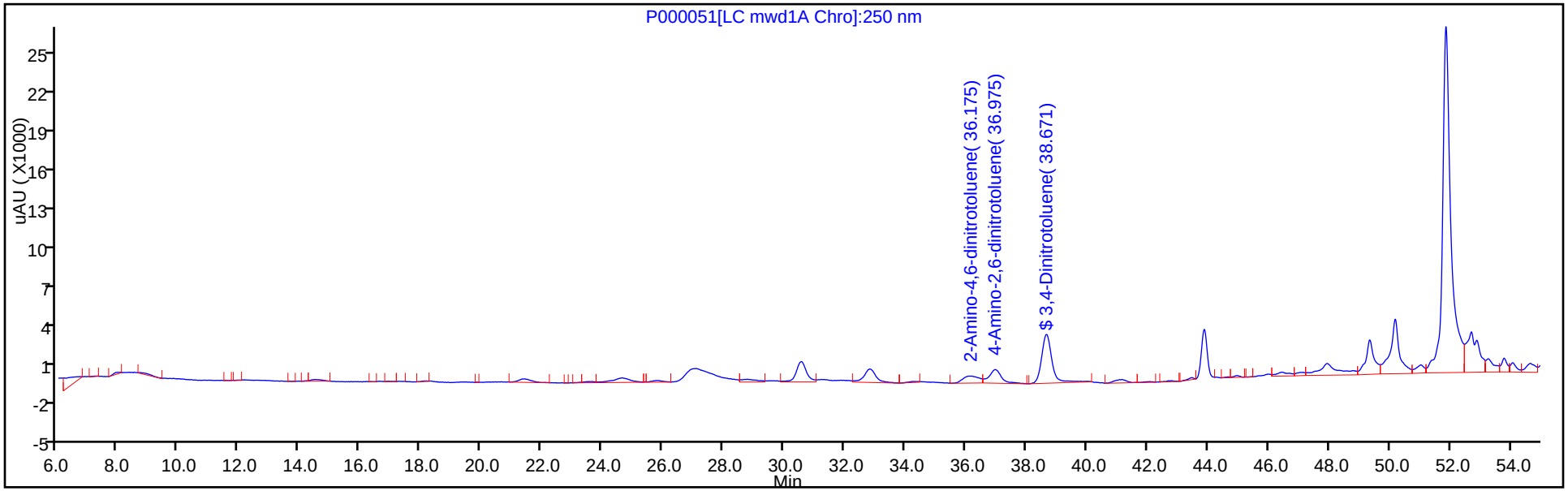
Report Date: 18-Apr-2013 12:21:00 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

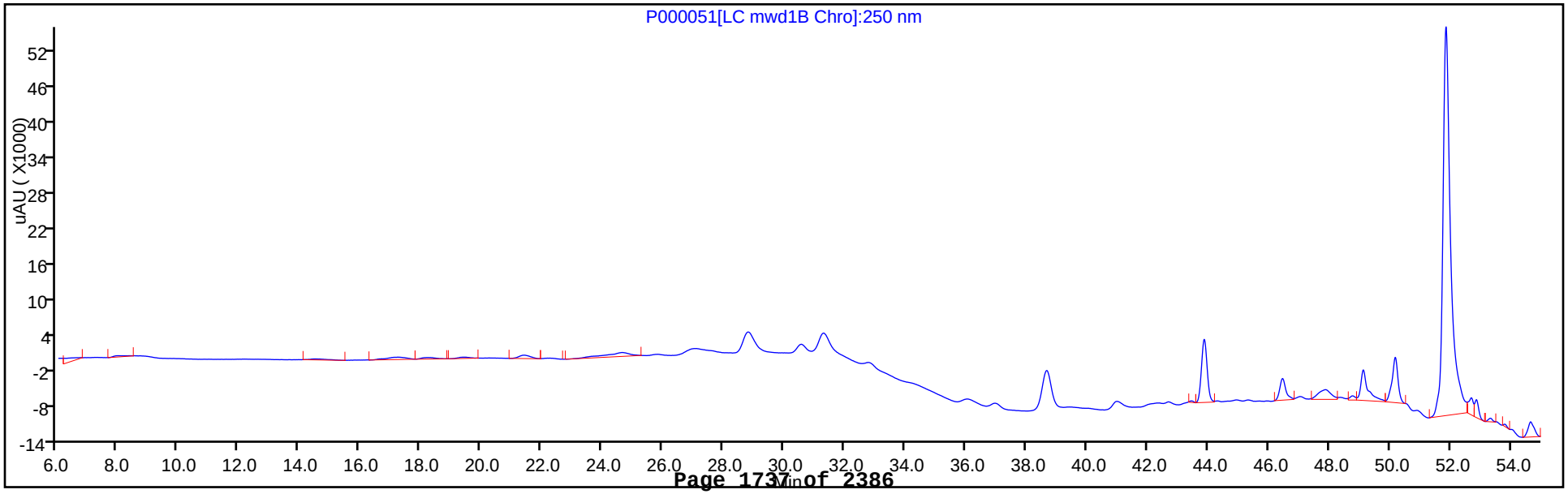
Data File: \\SACChrom\ChromData\LC12\20130415-3897.b\P000051.D

Injection Date:	18-Apr-2013 11:00:56	Limit Group:	LC 8330B ICAL
Client ID:	079SD-0309-0001-SD	Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	48
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 1385

SDG No.:

Instrument ID: LC11 GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 14:52 Calibration End Date: 04/30/2012 21:31 Calibration ID: 1035

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-1385/2	M-002.D
Level 2	STD02 320-1385/3	M-003.D
Level 3	STD03 320-1385/4	M-004.D
Level 4	STD04 320-1385/5	M-005.D
Level 5	STD05 320-1385/6	M-006.D
Level 6	STD06 320-1385/7	M-007.D
Level 7	STD07 320-1385/8	M-008.D
Level 8	STD08 320-1385/9	M-009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
HMX	20.442	20.414	20.432	20.412	20.410	20.405	20.371	20.360			20.160 - 20.660	20.406
RDX	23.655	23.638	23.639	23.639	23.647	23.638	23.614	23.600			23.397 - 23.897	23.634
1,3,5-Trinitrobenzene	25.605	25.584	25.586	25.589	25.600	25.588	25.574	25.560			25.350 - 25.850	25.586
Picric acid	25.945	25.938	25.929	25.926	25.923	25.878	25.828	25.747			25.673 - 26.173	25.889
1,3-Dinitrobenzene	28.322	28.301	28.296	28.302	28.323	28.308	28.294	28.277			28.073 - 28.573	28.303
3,5-Dinitroaniline	29.445	29.424	29.422	29.429	29.453	29.435	29.418	29.404			29.203 - 29.703	29.429
Nitrobenzene	29.915	29.898	29.882	29.896	29.920	29.901	29.888	29.870			29.670 - 30.170	29.896
Tetryl	30.249	30.218	30.219	30.226	30.250	30.231	30.218	30.210			30.000 - 30.500	30.228
Nitroglycerin	+++++	+++++	30.712	30.716	30.743	30.725	30.711	30.700			30.493 - 30.993	30.718
2,4,6-Trinitrotoluene	31.475	31.448	31.442	31.449	31.477	31.455	31.441	31.430			31.227 - 31.727	31.452
4-Amino-2,6-dinitrotoluene	32.439	32.428	32.416	32.426	32.457	32.435	32.418	32.400			32.207 - 32.707	32.427
2-Amino-4,6-dinitrotoluene	33.135	33.111	33.102	33.112	33.147	33.118	33.104	33.084			32.897 - 33.397	33.114
2,6-Dinitrotoluene	34.382	34.344	34.312	34.332	34.373	34.345	34.331	34.317			34.123 - 34.623	34.342
2,4-Dinitrotoluene	34.752	34.724	34.706	34.722	34.760	34.731	34.718	34.700			34.510 - 35.010	34.727
2-Nitrotoluene	37.628	37.601	37.565	37.599	37.646	37.611	37.601	37.577			37.396 - 37.896	37.604
4-Nitrotoluene	38.828	38.827	38.785	38.812	38.866	38.828	38.821	38.794			38.616 - 39.116	38.820
3-Nitrotoluene	40.332	40.304	40.282	40.299	40.356	40.318	40.311	40.280			40.106 - 40.606	40.310
PETN	+++++	+++++	40.932	40.962	41.016	40.965	40.961	40.940			40.766 - 41.266	40.963
3,4-Dinitrotoluene	32.795	32.778	32.769	32.772	32.810	32.785	32.771	32.757			32.560 - 33.060	32.780

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 1385

SDG No.:

Instrument ID: LC11 GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 14:52 Calibration End Date: 04/30/2012 21:31 Calibration ID: 1035

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-1385/2	M-002.D
Level 2	STD02 320-1385/3	M-003.D
Level 3	STD03 320-1385/4	M-004.D
Level 4	STD04 320-1385/5	M-005.D
Level 5	STD05 320-1385/6	M-006.D
Level 6	STD06 320-1385/7	M-007.D
Level 7	STD07 320-1385/8	M-008.D
Level 8	STD08 320-1385/9	M-009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	102.00 100.69	99.500 96.920	98.300 88.544	97.120 70.622	Ave		94.2120000				11.0		20.0			
RDX	103.80 100.88	99.100 96.140	99.150 86.862	97.280 68.761	Ave		93.9966250				12.0		20.0			
1,3,5-Trinitrobenzene	223.80 223.84	223.10 220.13	217.70 210.02	216.44 188.23	Ave		215.407625				5.5		20.0			
Picric acid	241.80 199.01	197.05 185.80	187.38 164.50	196.81 143.76	Ave		189.514188				15.0		20.0			
1,3-Dinitrobenzene	234.40 239.30	233.20 234.66	229.70 224.64	230.68 202.70	Ave		228.660000				5.0		20.0			
3,5-Dinitroaniline	152.20 154.70	154.50 154.17	152.40 148.73	150.88 135.98	Ave		150.444125				4.1		20.0			
Nitrobenzene	104.00 102.99	101.20 100.84	92.650 97.416	99.360 88.896	Ave		98.4190000				5.3		20.0			
Tetryl	124.60 125.04	123.00 124.39	120.75 123.00	120.56 120.94	Ave		122.785375				1.5		20.0			
Nitroglycerin	+++++ 94.100	+++++ 94.595	77.600 95.572	85.080 93.287	Ave		90.0390000				8.0		20.0			
2,4,6-Trinitrotoluene	129.40 132.78	131.60 132.12	127.90 130.38	128.26 126.74	Ave		129.897750				1.7		20.0			
4-Amino-2,6-dinitrotoluene	104.20 105.84	105.80 106.65	104.50 104.73	103.14 99.890	Ave		104.343625				2.0		20.0			
2-Amino-4,6-dinitrotoluene	117.40 117.77	116.80 118.19	115.15 115.71	114.80 109.87	Ave		115.711125				2.3		20.0			
2,6-Dinitrotoluene	81.600 81.440	80.500 80.775	78.550 79.264	78.740 76.622	Ave		79.6863750				2.1		20.0			
2,4-Dinitrotoluene	133.00 133.49	131.20 132.68	128.50 130.62	128.76 126.12	Ave		130.546000				2.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 1385

SDG No.:

Instrument ID: LC11 GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 14:52 Calibration End Date: 04/30/2012 21:31 Calibration ID: 1035

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2-Nitrotoluene	57.000 53.850	51.300 52.535	47.250 52.020	50.720 49.792	Ave		51.8083750				5.6		20.0			
4-Nitrotoluene	64.000 68.690	68.300 68.150	61.900 67.794	66.620 65.856	Ave		66.4137500				3.6		20.0			
3-Nitrotoluene	63.400 67.720	66.100 67.285	60.700 67.154	65.580 65.463	Ave		65.4252500				3.6		20.0			
PETN	+++++ 53.180	+++++ 53.445	45.300 53.150	49.620 53.251	Ave		51.3243333				6.4		20.0			
3,4-Dinitrotoluene	71.000 73.420	69.200 73.020	67.650 62.654	69.320 72.180	Ave		69.8055357				5.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 1385

SDG No.:

Instrument ID: LC11 GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 14:52 Calibration End Date: 04/30/2012 21:31 Calibration ID: 1035

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-1385/2	M-002.D
Level 2	STD02 320-1385/3	M-003.D
Level 3	STD03 320-1385/4	M-004.D
Level 4	STD04 320-1385/5	M-005.D
Level 5	STD05 320-1385/6	M-006.D
Level 6	STD06 320-1385/7	M-007.D
Level 7	STD07 320-1385/8	M-008.D
Level 8	STD08 320-1385/9	M-009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
HMX	Ave	510 19384	995 44272	1966 70622	4856	10069	5.00 200	10.0 500	20.0 1000	50.0	100
RDX	Ave	519 19228	991 43431	1983 68761	4864	10088	5.00 200	10.0 500	20.0 1000	50.0	100
1,3,5-Trinitrobenzene	Ave	1119 44026	2231 105011	4354 188229	10822	22384	5.00 200	10.0 500	20.0 1000	50.0	100
Picric acid	Ave	2418 92902	3941 164503	9369 287523	19681	39801	10.0 500	20.0 1000	50.0 2000	100	200
1,3-Dinitrobenzene	Ave	1172 46932	2332 112318	4594 202704	11534	23930	5.00 200	10.0 500	20.0 1000	50.0	100
3,5-Dinitroaniline	Ave	761 30834	1545 74363	3048 135977	7544	15470	5.00 200	10.0 500	20.0 1000	50.0	100
Nitrobenzene	Ave	520 20168	1012 48708	1853 88896	4968	10299	5.00 200	10.0 500	20.0 1000	50.0	100
Tetryl	Ave	623 24878	1230 61501	2415 120941	6028	12504	5.00 200	10.0 500	20.0 1000	50.0	100
Nitroglycerin	Ave	+++++ 18919	+++++ 47786	1552 93287	4254	9410	+++++ 200	+++++ 500	20.0 1000	50.0	100
2,4,6-Trinitrotoluene	Ave	647 26424	1316 65191	2558 126740	6413	13278	5.00 200	10.0 500	20.0 1000	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	521 21329	1058 52367	2090 99890	5157	10584	5.00 200	10.0 500	20.0 1000	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	587 23637	1168 57857	2303 109870	5740	11777	5.00 200	10.0 500	20.0 1000	50.0	100
2,6-Dinitrotoluene	Ave	408 16155	805 39632	1571 76622	3937	8144	5.00 200	10.0 500	20.0 1000	50.0	100
2,4-Dinitrotoluene	Ave	665 26536	1312 65308	2570 126122	6438	13349	5.00 200	10.0 500	20.0 1000	50.0	100
2-Nitrotoluene	Ave	285 10507	513 26010	945 49792	2536	5385	5.00 200	10.0 500	20.0 1000	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 1385

SDG No.:

Instrument ID: LC11 GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 14:52 Calibration End Date: 04/30/2012 21:31 Calibration ID: 1035

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Nitrotoluene	Ave	320 13630	683 33897	1238 65856	3331	6869	5.00 200	10.0 500	20.0 1000	50.0	100
3-Nitrotoluene	Ave	317 13457	661 33577	1214 65463	3279	6772	5.00 200	10.0 500	20.0 1000	50.0	100
PETN	Ave	+++++ 10689	+++++ 26575	906 53251	2481	5318	+++++ 200	+++++ 500	20.0 1000	50.0	100
3,4-Dinitrotoluene	Ave	355 14604	692 21929	1353 36090	3466	7342	5.00 200	10.0 350	20.0 500	50.0	100

Curve Type Legend:
Ave = Average by Height

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-002.D		
Lims ID:	STD01	Client ID:	
Inject. Date:	30-Apr-2012 14:52:49	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD_01 HP8330L1_00001 5 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	11
Lims Batch ID:	1385	Lims Sample ID:	2
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:49	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		
First Level Reviewer: noonanr		Date:	27-Aug-2012 15:40:19

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.442	20.410	0.032	510	5.41	
19 RDX						
1	23.655	23.647	0.008	519	5.52	
27 1,3,5-Trinitrobenzene						
1	25.605	25.600	0.005	1119	5.19	
10 2,4,6-Trinitrophenol						M
2	25.945	25.923	0.022	2418	12.8	M
1	25.962	25.923	0.039	1270	10.3	
24 1,3-Dinitrobenzene						
1	28.322	28.323	-0.001	1172	5.13	
9 3,5-Dinitroaniline						
1	29.445	29.453	-0.008	761	5.06	
5 Nitrobenzene						
1	29.915	29.920	-0.005	520	5.28	
20 Tetryl						
1	30.249	30.250	-0.001	623	5.07	
7 Nitroglycerin						
2	30.739	30.743	-0.004	428	4.75	
25 2,4,6-Trinitrotoluene						
1	31.475	31.477	-0.002	647	4.98	
26 4-Amino-2,6-dinitrotoluene						
1	32.439	32.457	-0.018	521	4.99	
$ 30 3,4-Dinitrotoluene						
1	32.795	32.810	-0.015	355	5.09	
2	32.805	32.807	-0.002	496	3.84	
6 2-Amino-4,6-dinitrotoluene						
1	33.135	33.147	-0.012	587	5.07	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.382	34.373	0.009	408	5.12	
23 2,4-Dinitrotoluene						
1	34.752	34.760	-0.008	665	5.09	
16 o-Nitrotoluene						
1	37.628	37.646	-0.018	285	5.50	
15 p-Nitrotoluene						
1	38.828	38.866	-0.038	320	4.82	
8 m-Nitrotoluene						
1	40.332	40.356	-0.024	317	4.85	
21 PETN						
2	41.015	41.016	-0.001	205	3.99	

QC Flag Legend

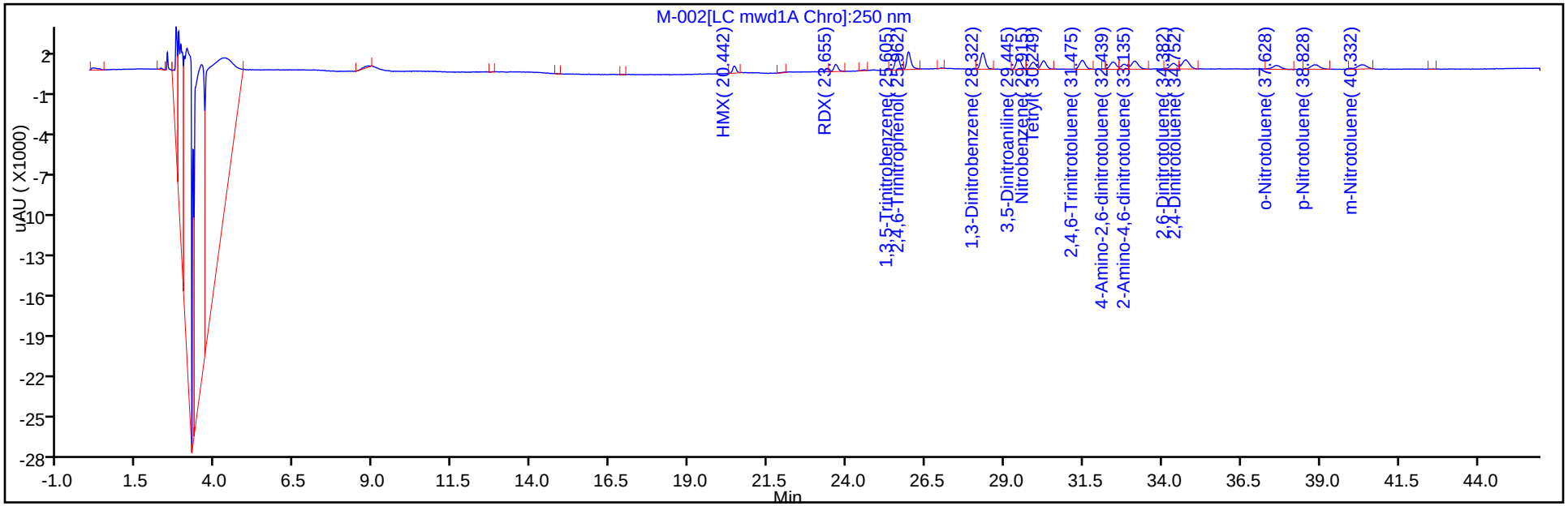
Review Flags
M - Manually Integrated

Report Date: 18-Sep-2012 15:07:50 Chrom Revision: 2.1 16-Sep-2012 09:37:06

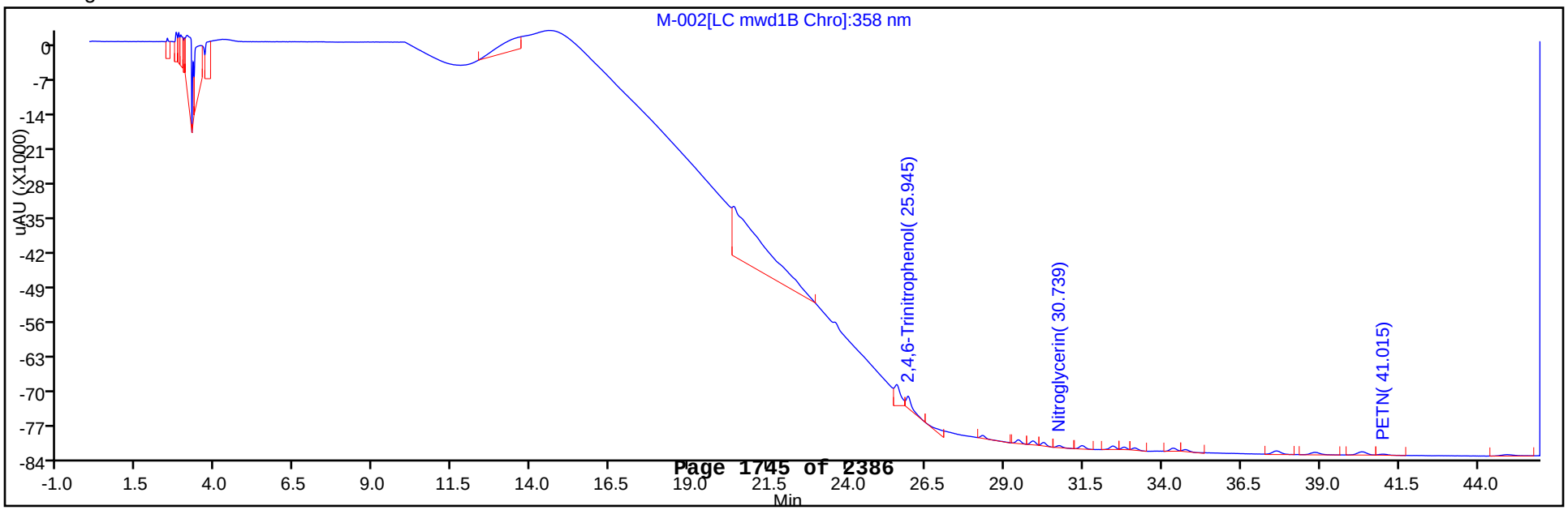
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-002.D		
Injection Date:	30-Apr-2012 14:52:49	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

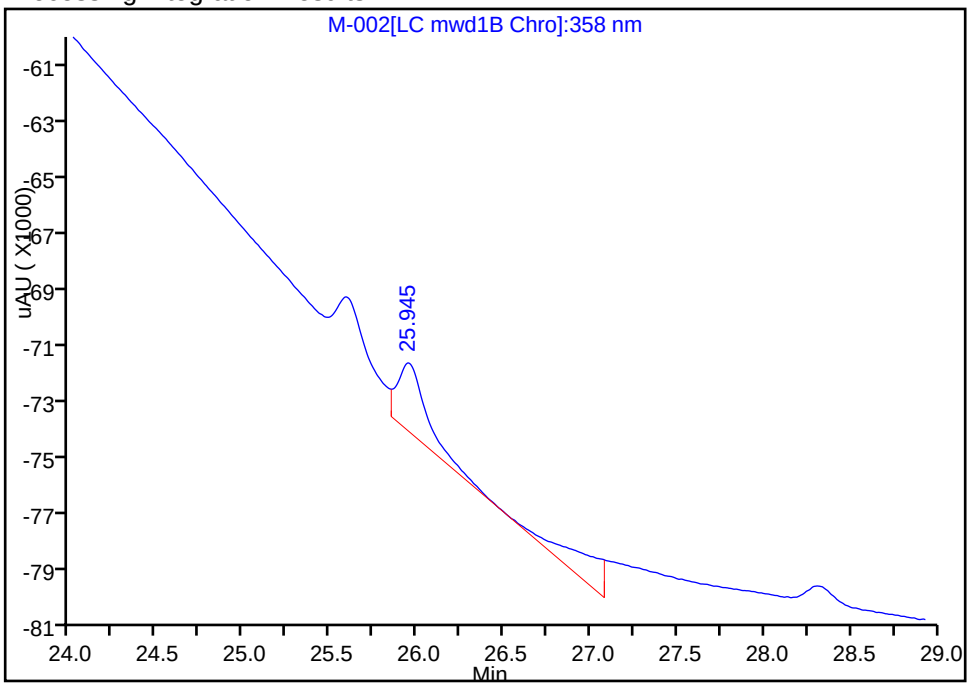
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-002.D		
Injection Date:	30-Apr-2012 14:52:49	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

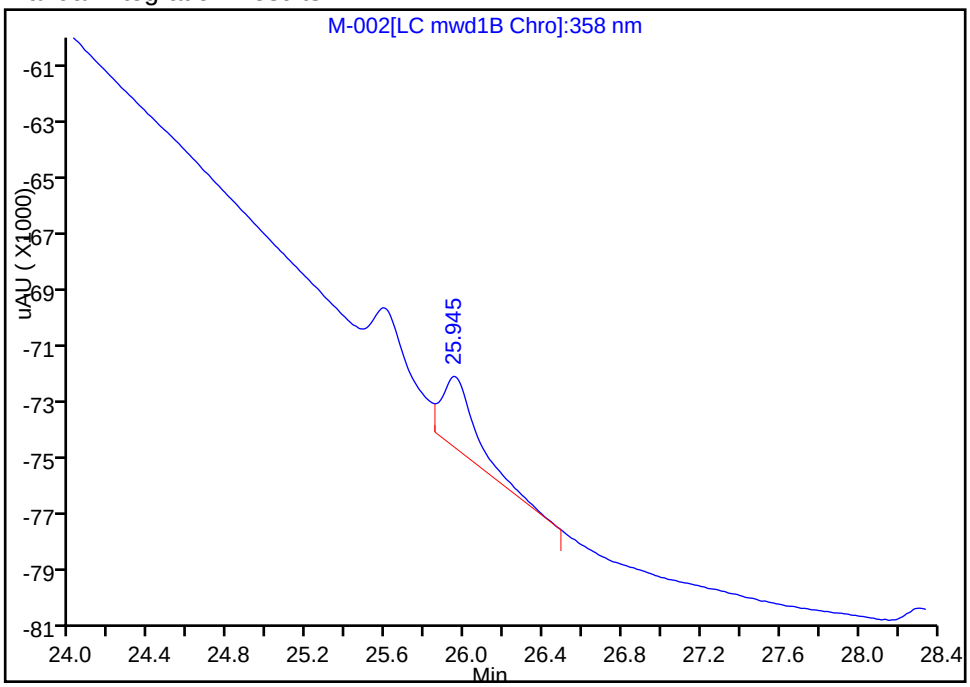
Processing Integration Results

RT: 25.95
Response: 2419
Amount: 13.175951



Manual Integration Results

RT: 25.95
Response: 2418
Amount: 12.758939



Reviewer: noonanr, 27-Aug-2012 15:40:19
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-003.D		
Lims ID:	STD02	Client ID:	
Inject. Date:	30-Apr-2012 15:49:47	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD_02 HP8330L2_00001 10 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	12
Lims Batch ID:	1385	Lims Sample ID:	3
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:50	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		
First Level Reviewer: noonanr		Date:	27-Aug-2012 15:42:45

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.414	20.410	0.004	995	10.6	
19 RDX						
1	23.638	23.647	-0.009	991	10.5	
27 1,3,5-Trinitrobenzene						
1	25.584	25.600	-0.016	2231	10.4	
10 2,4,6-Trinitrophenol						M
2	25.938	25.923	0.015	3941	20.8	M
1	25.944	25.923	0.021	2433	19.7	
24 1,3-Dinitrobenzene						
1	28.301	28.323	-0.022	2332	10.2	
9 3,5-Dinitroaniline						
1	29.424	29.453	-0.029	1545	10.3	
5 Nitrobenzene						
1	29.898	29.920	-0.022	1012	10.3	
20 Tetryl						
1	30.218	30.250	-0.032	1230	10.0	
7 Nitroglycerin						
2	30.714	30.743	-0.029	519	5.76	
25 2,4,6-Trinitrotoluene						
1	31.448	31.477	-0.029	1316	10.1	
26 4-Amino-2,6-dinitrotoluene						
1	32.428	32.457	-0.029	1058	10.1	
$ 30 3,4-Dinitrotoluene						
1	32.778	32.810	-0.032	692	9.91	
2	32.788	32.807	-0.019	1299	10.1	
6 2-Amino-4,6-dinitrotoluene						
1	33.111	33.147	-0.036	1168	10.1	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.344	34.373	-0.029	805	10.1	
23 2,4-Dinitrotoluene						
1	34.724	34.760	-0.036	1312	10.1	
16 o-Nitrotoluene						
1	37.601	37.646	-0.045	513	9.90	
15 p-Nitrotoluene						
1	38.827	38.866	-0.039	683	10.3	
8 m-Nitrotoluene						
1	40.304	40.356	-0.052	661	10.1	
21 PETN						
2	40.961	41.016	-0.055	517	10.1	

QC Flag Legend

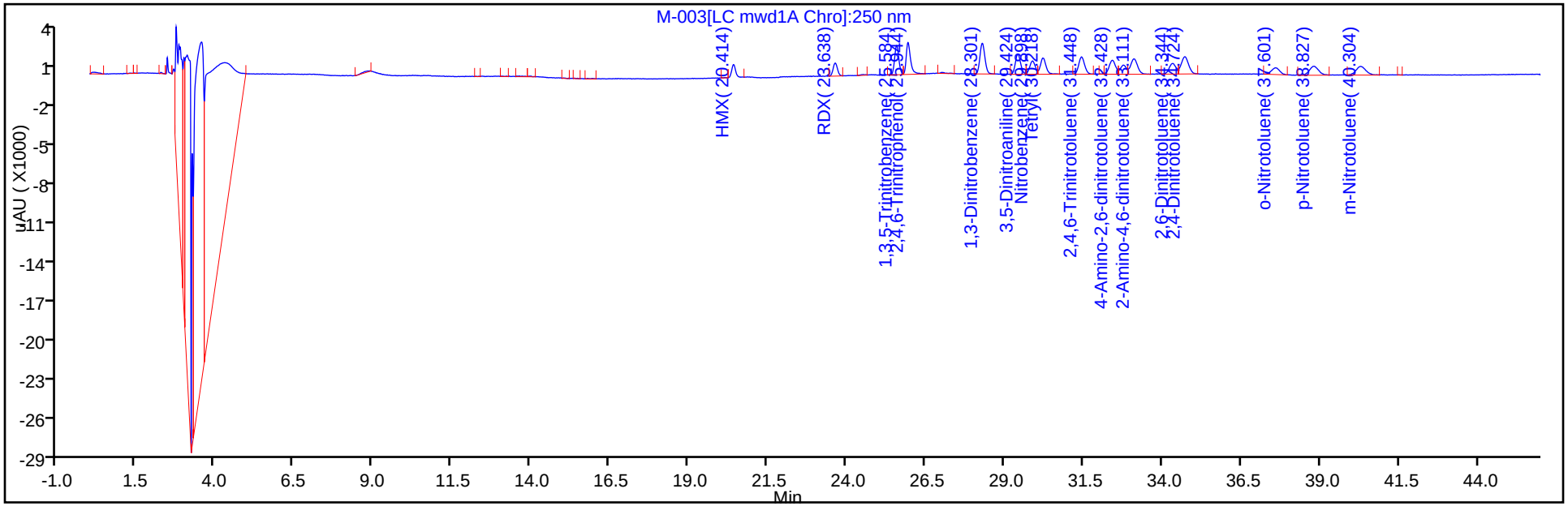
Review Flags
M - Manually Integrated

Report Date: 18-Sep-2012 15:07:51 Chrom Revision: 2.1 16-Sep-2012 09:37:06

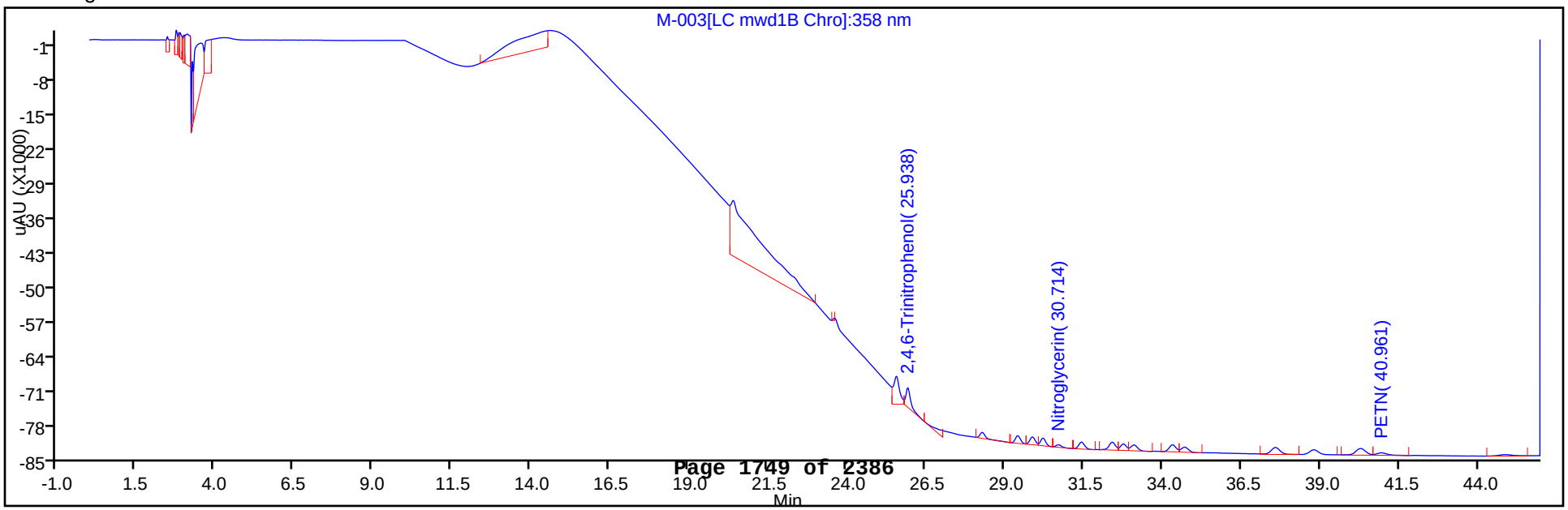
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-003.D		
Injection Date:	30-Apr-2012 15:49:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

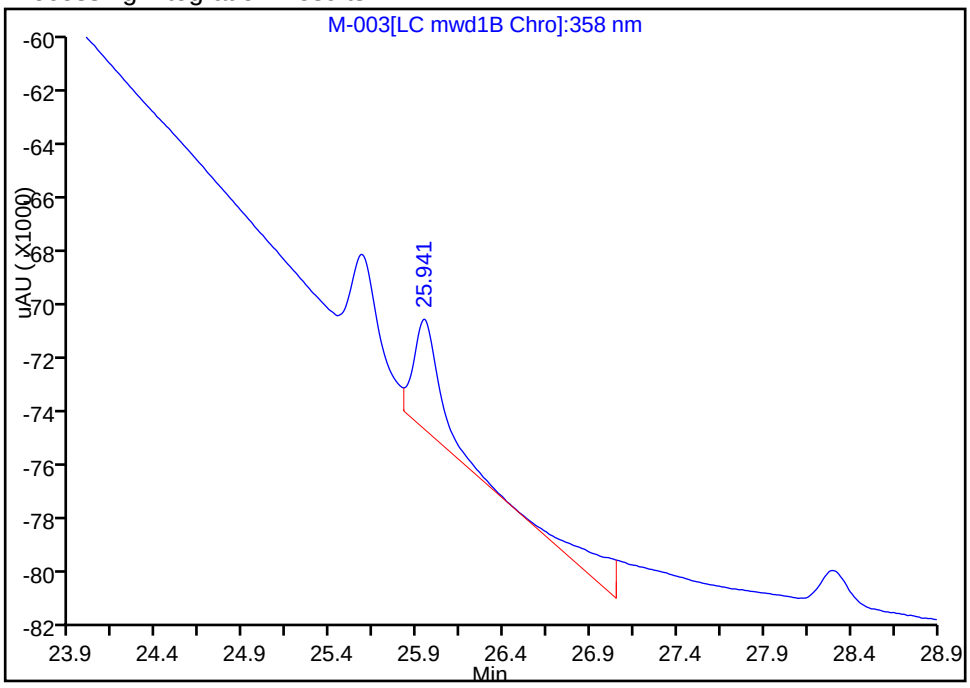
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-003.D		
Injection Date:	30-Apr-2012 15:49:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

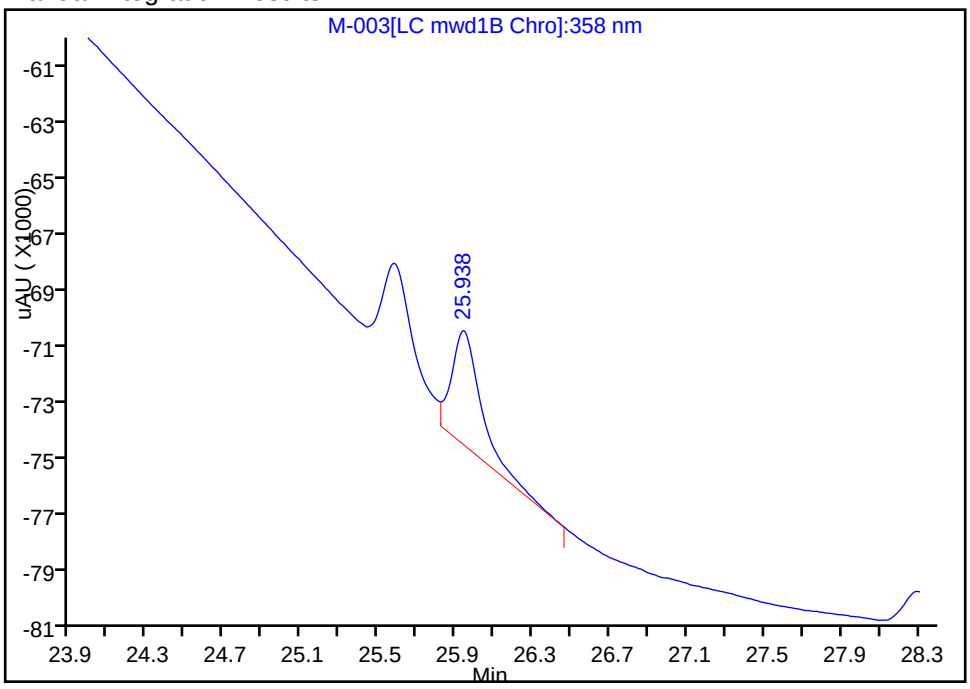
Processing Integration Results

RT: 25.94
Response: 3960
Amount: 21.104010



Manual Integration Results

RT: 25.94
Response: 3941
Amount: 20.795277



Reviewer: noonanr, 27-Aug-2012 15:42:45
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-004.D		
Lims ID:	STD03	Client ID:	
Inject. Date:	30-Apr-2012 16:46:47	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	STD_03 HP8330L3_00001 20 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	13
Lims Batch ID:	1385	Lims Sample ID:	4
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:08:38	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		
First Level Reviewer: noonanr		Date:	27-Aug-2012 15:44:08

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.432	20.410	0.022	1966	20.9	
19 RDX						
1	23.639	23.647	-0.008	1983	21.1	
27 1,3,5-Trinitrobenzene						
1	25.586	25.600	-0.014	4354	20.2	
10 2,4,6-Trinitrophenol						M
2	25.929	25.923	0.006	9369	49.4	M
1	25.932	25.923	0.009	6172	49.9	
24 1,3-Dinitrobenzene						
1	28.296	28.323	-0.027	4594	20.1	
9 3,5-Dinitroaniline						
1	29.422	29.453	-0.031	3048	20.3	
5 Nitrobenzene						
1	29.882	29.920	-0.038	1853	18.8	
20 Tetryl						
1	30.219	30.250	-0.031	2415	19.7	
7 Nitroglycerin						
2	30.712	30.743	-0.031	1552	17.2	
25 2,4,6-Trinitrotoluene						
1	31.442	31.477	-0.035	2558	19.7	
26 4-Amino-2,6-dinitrotoluene						
1	32.416	32.457	-0.041	2090	20.0	
$ 30 3,4-Dinitrotoluene						
1	32.769	32.810	-0.041	1353	19.4	
2	32.762	32.807	-0.045	2600	20.1	
6 2-Amino-4,6-dinitrotoluene						
1	33.102	33.147	-0.045	2303	19.9	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.312	34.373	-0.061	1571	19.7	
23 2,4-Dinitrotoluene						
1	34.706	34.760	-0.054	2570	19.7	
16 o-Nitrotoluene						
1	37.565	37.646	-0.081	945	18.2	
15 p-Nitrotoluene						
1	38.785	38.866	-0.081	1238	18.6	
8 m-Nitrotoluene						
1	40.282	40.356	-0.074	1214	18.6	
21 PETN						
2	40.932	41.016	-0.084	906	17.7	

QC Flag Legend

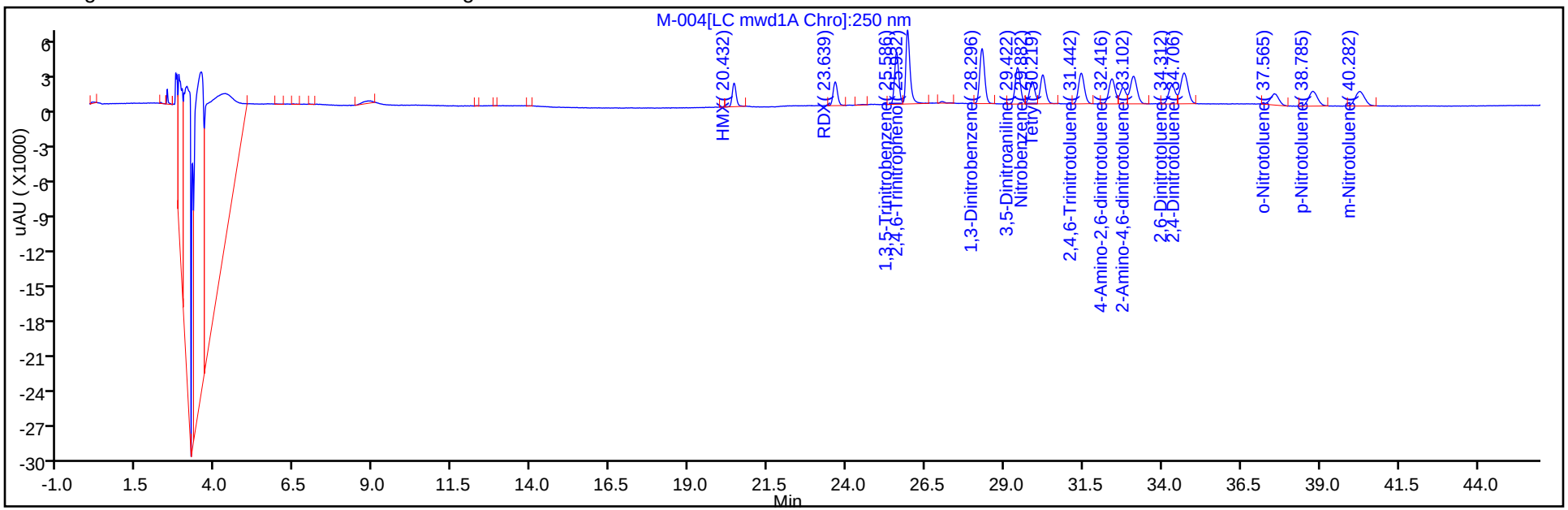
Review Flags
M - Manually Integrated

Report Date: 18-Sep-2012 15:08:39 Chrom Revision: 2.1 16-Sep-2012 09:37:06

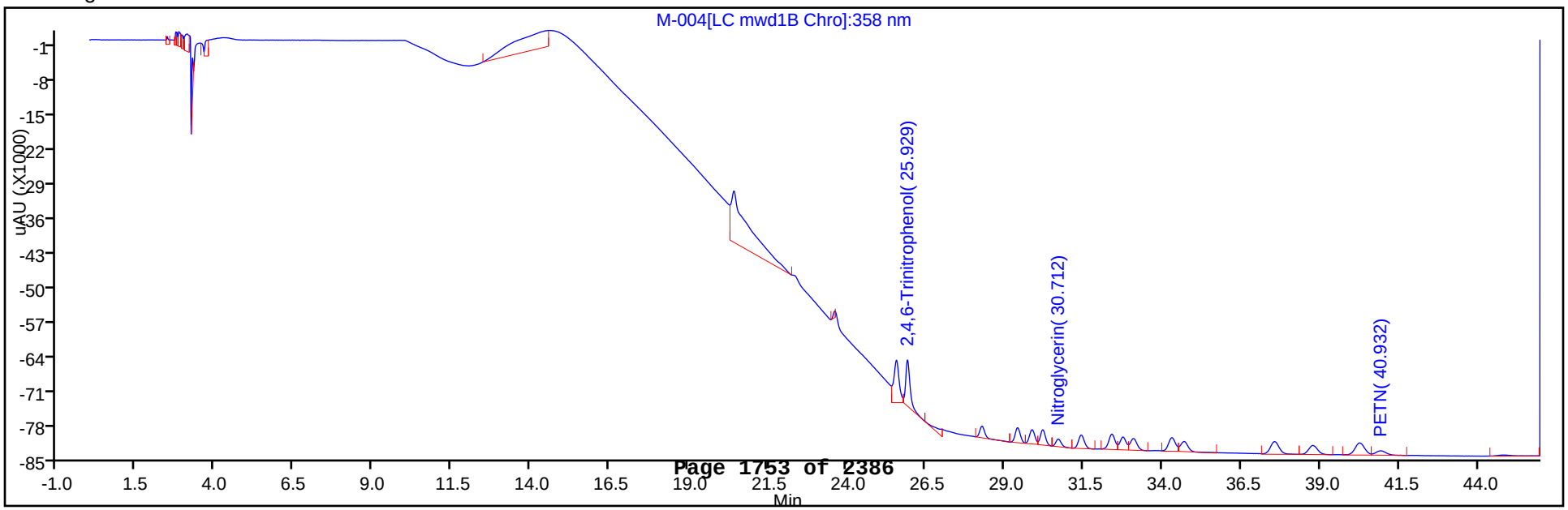
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-004.D		
Injection Date:	30-Apr-2012 16:46:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

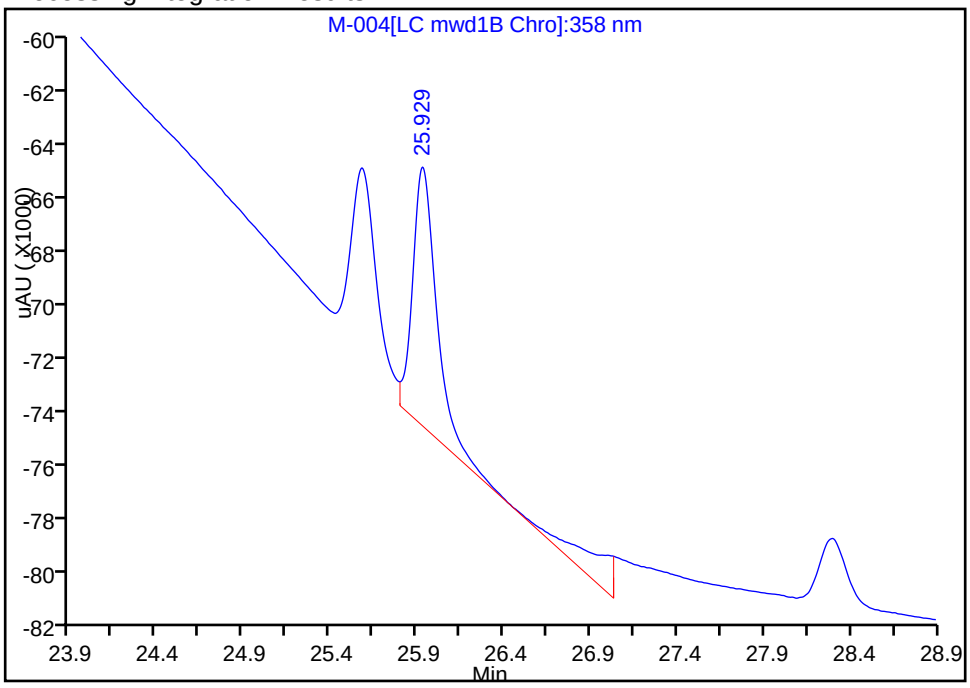
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-004.D		
Injection Date:	30-Apr-2012 16:46:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

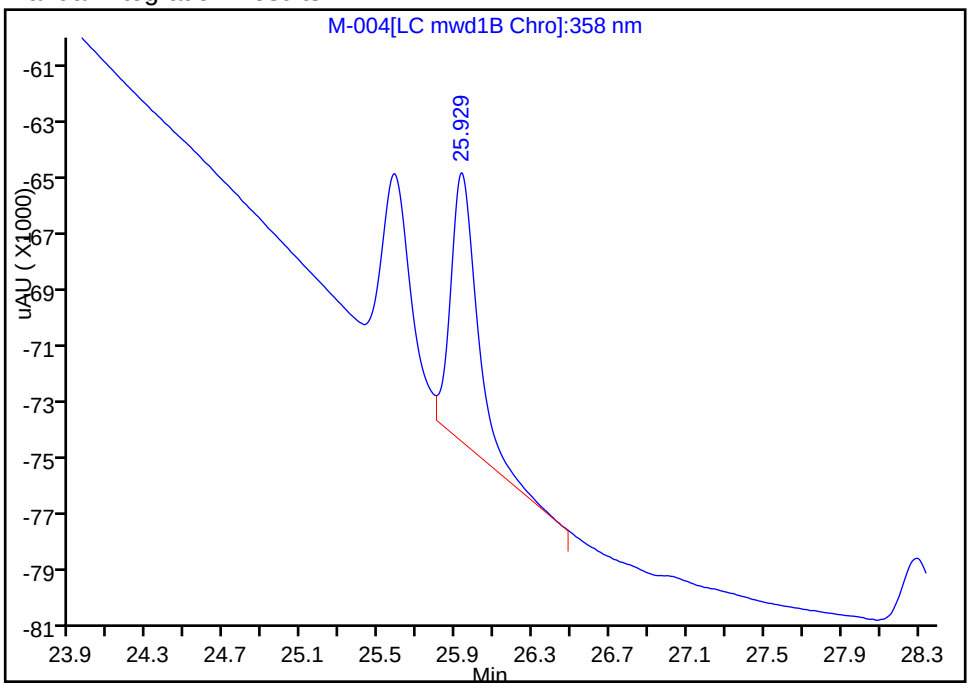
Processing Integration Results

RT: 25.93
Response: 9369
Amount: 49.523395



Manual Integration Results

RT: 25.93
Response: 9369
Amount: 49.436932



Reviewer: noonanr, 27-Aug-2012 15:44:08
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-005.D		
Lims ID:	STD04	Client ID:	
Inject. Date:	30-Apr-2012 17:43:41	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD_04 HP8330L4_00001 50 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	14
Lims Batch ID:	1385	Lims Sample ID:	5
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:51	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		
First Level Reviewer: noonanr		Date:	27-Aug-2012 15:48:38

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.412	20.410	0.002	4856	51.5	
19 RDX						
1	23.639	23.647	-0.008	4864	51.7	
27 1,3,5-Trinitrobenzene						
1	25.589	25.600	-0.011	10822	50.2	
10 2,4,6-Trinitrophenol						M
2	25.926	25.923	0.003	19681	103.8	M
1	25.926	25.923	0.003	13435	108.7	
24 1,3-Dinitrobenzene						
1	28.302	28.323	-0.021	11534	50.4	
9 3,5-Dinitroaniline						
1	29.429	29.453	-0.024	7544	50.1	
5 Nitrobenzene						
1	29.896	29.920	-0.024	4968	50.5	
20 Tetryl						
1	30.226	30.250	-0.024	6028	49.1	
7 Nitroglycerin						
2	30.716	30.743	-0.027	4254	47.2	
25 2,4,6-Trinitrotoluene						
1	31.449	31.477	-0.028	6413	49.4	
26 4-Amino-2,6-dinitrotoluene						
1	32.426	32.457	-0.031	5157	49.4	
$ 30 3,4-Dinitrotoluene						
1	32.772	32.810	-0.038	3466	49.7	
2	32.776	32.807	-0.031	6671	51.7	
6 2-Amino-4,6-dinitrotoluene						
1	33.112	33.147	-0.035	5740	49.6	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.332	34.373	-0.041	3937	49.4	
23 2,4-Dinitrotoluene						
1	34.722	34.760	-0.038	6438	49.3	
16 o-Nitrotoluene						
1	37.599	37.646	-0.047	2536	48.9	
15 p-Nitrotoluene						
1	38.812	38.866	-0.054	3331	50.2	
8 m-Nitrotoluene						
1	40.299	40.356	-0.057	3279	50.1	
21 PETN						
2	40.962	41.016	-0.054	2481	48.3	

QC Flag Legend

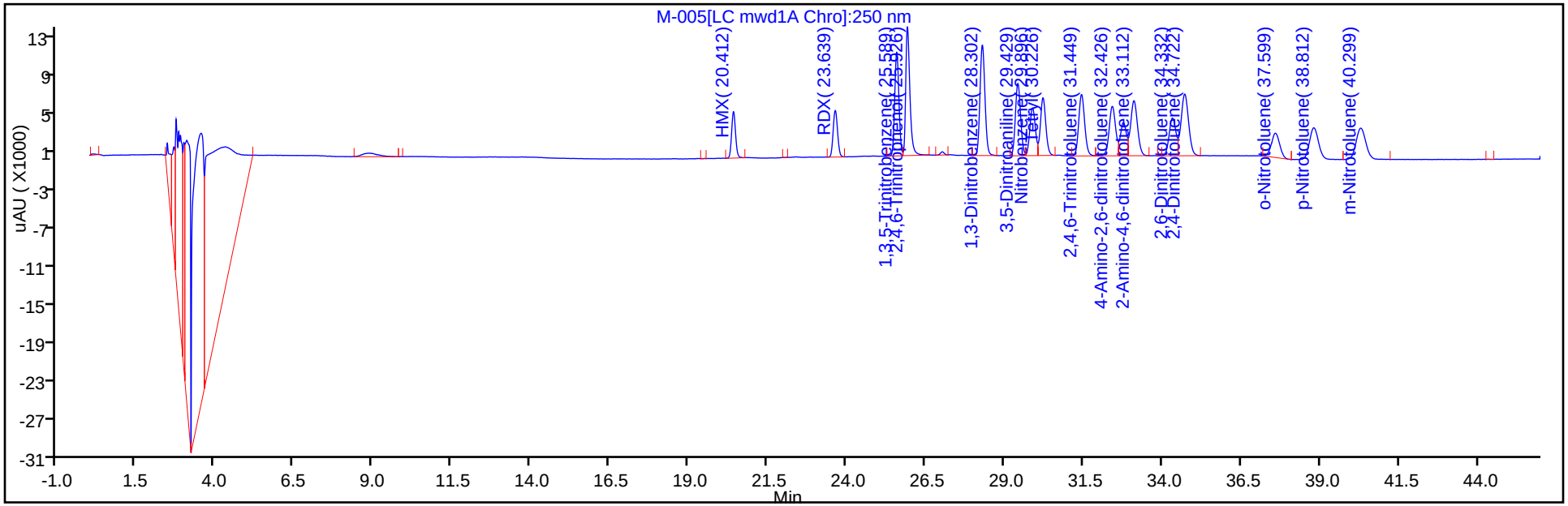
Review Flags
M - Manually Integrated

Report Date: 18-Sep-2012 15:07:52 Chrom Revision: 2.1 16-Sep-2012 09:37:06

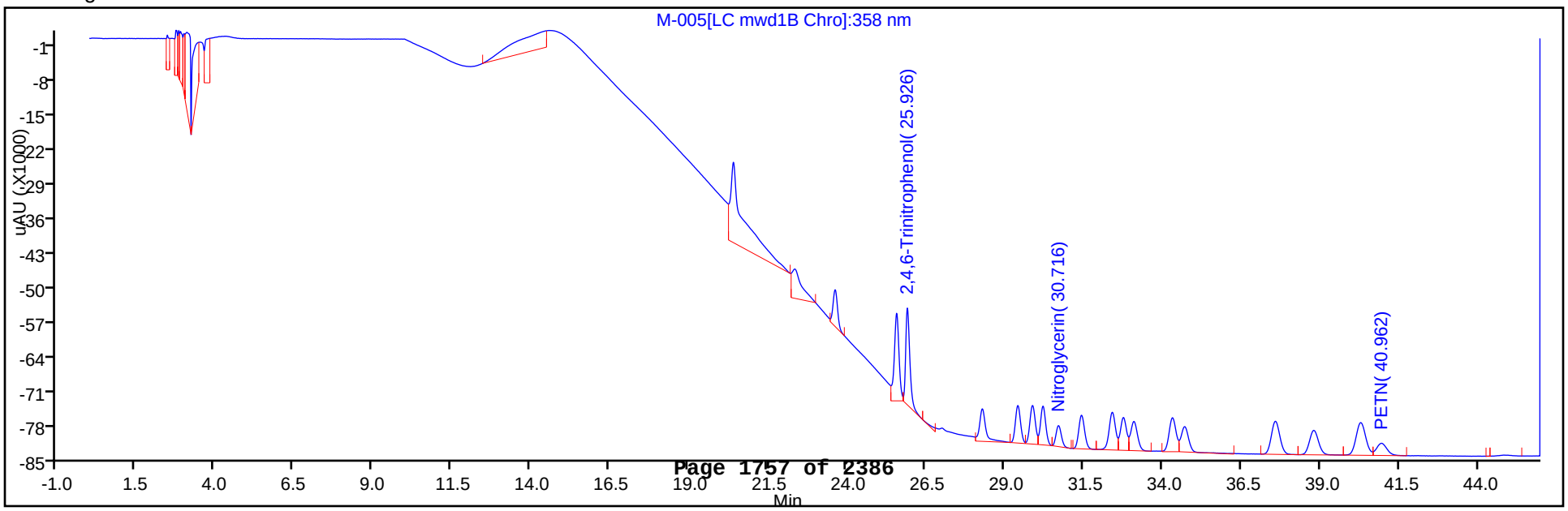
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-005.D		
Injection Date:	30-Apr-2012 17:43:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

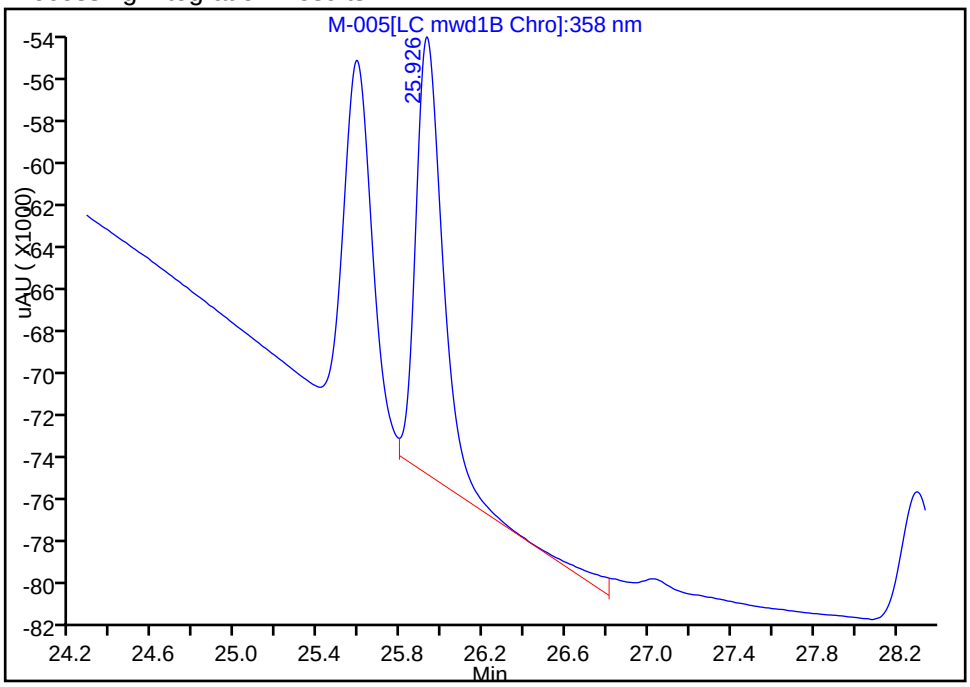
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-005.D		
Injection Date:	30-Apr-2012 17:43:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

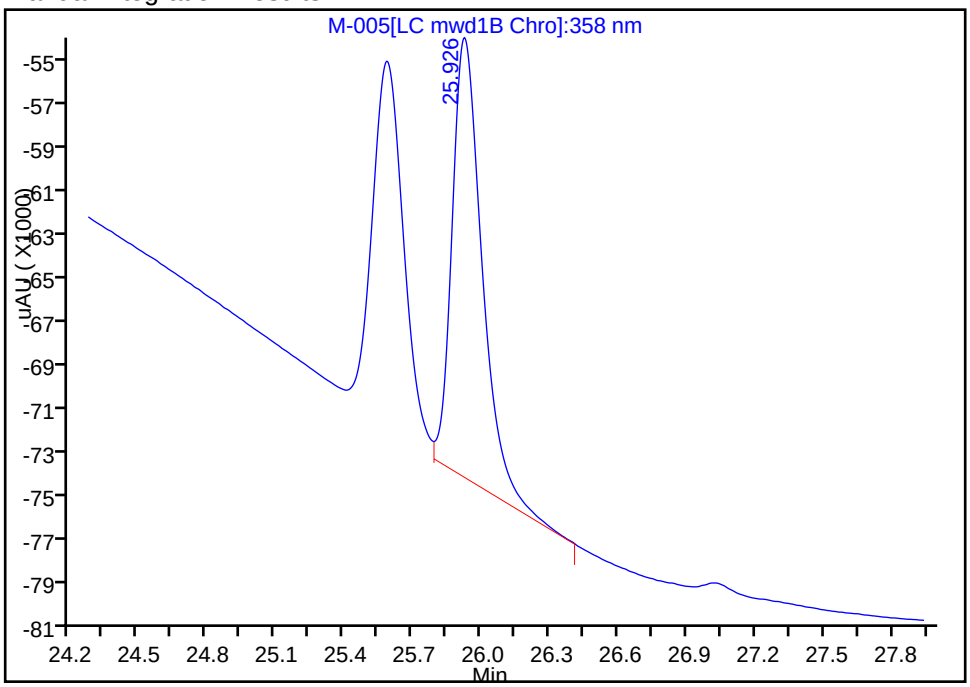
Processing Integration Results

RT: 25.93
Response: 19682
Amount: 103.6279



Manual Integration Results

RT: 25.93
Response: 19681
Amount: 103.8497



Reviewer: noonanr, 27-Aug-2012 15:48:38
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-006.D		
Lims ID:	STD05	Client ID:	
Inject. Date:	30-Apr-2012 18:40:40	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	STD_05 HP8330L5_00001 100 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	15
Lims Batch ID:	1385	Lims Sample ID:	6
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:52	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: noonanr Date: 27-Aug-2012 15:49:15

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.410	20.410	0.0	10069	106.9	
19 RDX						
1	23.647	23.647	0.0	10088	107.3	
27 1,3,5-Trinitrobenzene						
1	25.600	25.600	0.0	22384	103.9	
10 2,4,6-Trinitrophenol						
2	25.923	25.923	0.0	39801	210.0	
1	25.923	25.923	0.0	26964	218.1	
24 1,3-Dinitrobenzene						
1	28.323	28.323	0.0	23930	104.7	
9 3,5-Dinitroaniline						
1	29.453	29.453	0.0	15470	102.8	
5 Nitrobenzene						
1	29.920	29.920	0.0	10299	104.6	
20 Tetryl						
1	30.250	30.250	0.0	12504	101.8	
7 Nitroglycerin						
2	30.743	30.743	0.0	9410	104.5	
25 2,4,6-Trinitrotoluene						
1	31.477	31.477	0.0	13278	102.2	
26 4-Amino-2,6-dinitrotoluene						
1	32.457	32.457	0.0	10584	101.4	
$ 30 3,4-Dinitrotoluene						
1	32.810	32.810	0.0	7342	105.2	
2	32.807	32.807	0.0	14177	109.8	
6 2-Amino-4,6-dinitrotoluene						
1	33.147	33.147	0.0	11777	101.8	

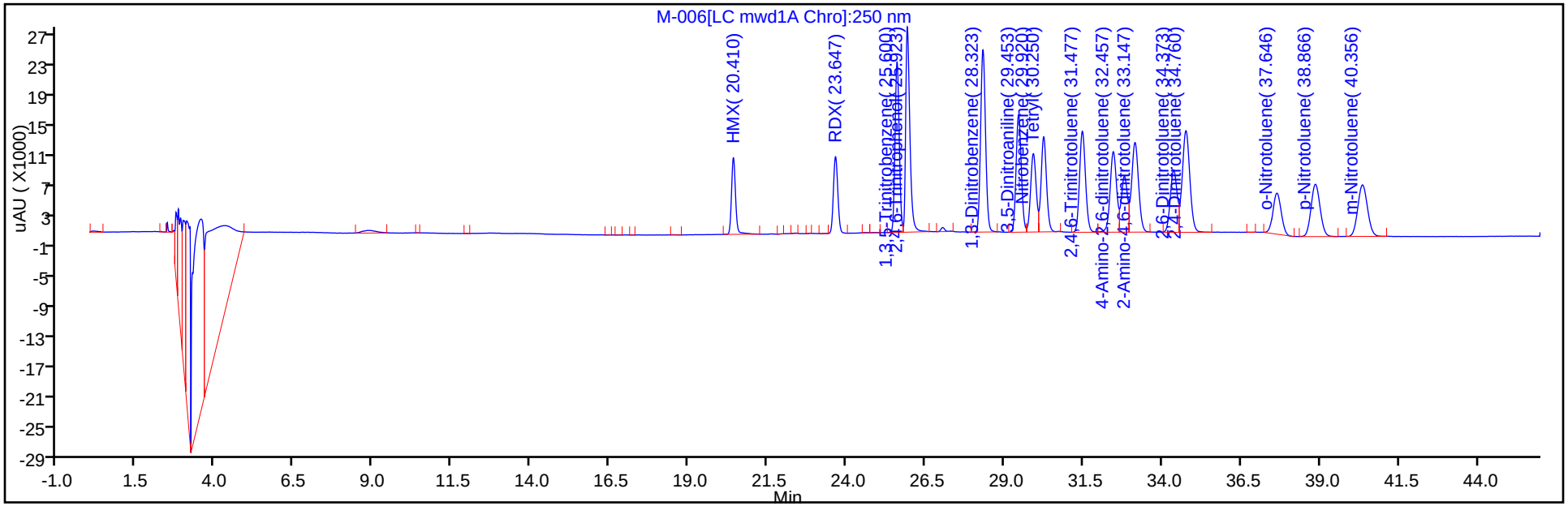
Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.373	34.373	0.0	8144	102.2	
23 2,4-Dinitrotoluene						
1	34.760	34.760	0.0	13349	102.3	
16 o-Nitrotoluene						
1	37.646	37.646	0.0	5385	103.9	
15 p-Nitrotoluene						
1	38.866	38.866	0.0	6869	103.4	
8 m-Nitrotoluene						
1	40.356	40.356	0.0	6772	103.5	
21 PETN						
2	41.016	41.016	0.0	5318	103.6	

Report Date: 18-Sep-2012 15:07:53 Chrom Revision: 2.1 16-Sep-2012 09:37:06

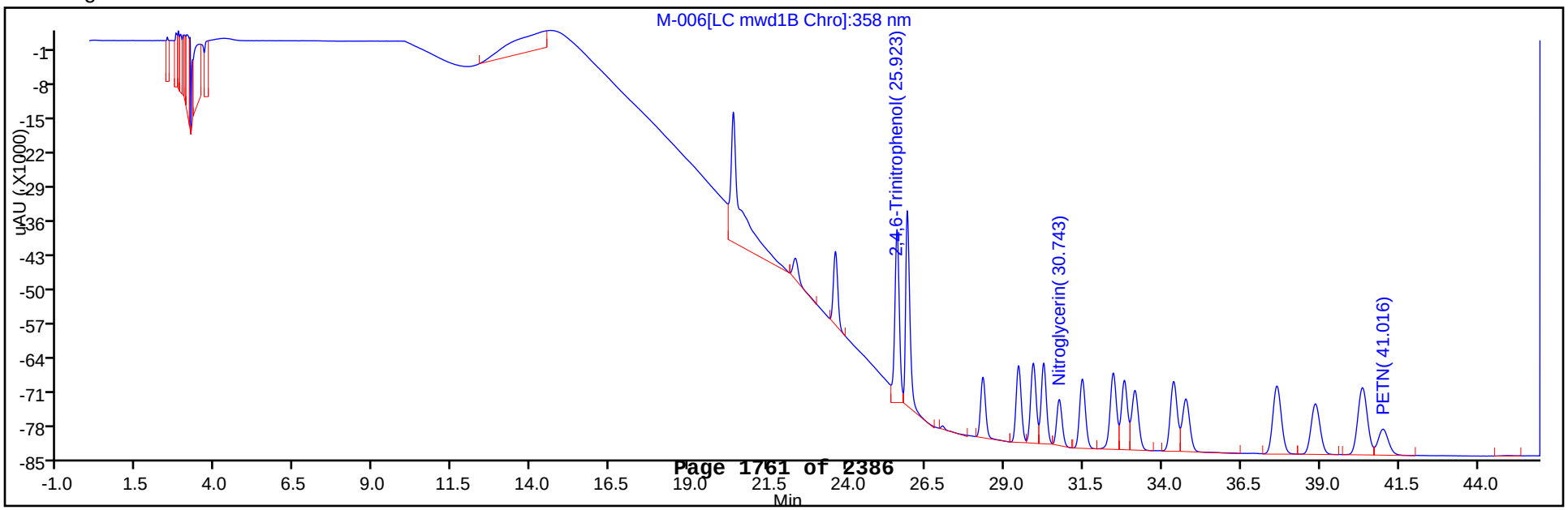
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-006.D		
Injection Date:	30-Apr-2012 18:40:40	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	6
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-007.D		
Lims ID:	STD06	Client ID:	
Inject. Date:	30-Apr-2012 19:37:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	STD_06 HP8330L6_00001 200 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	16
Lims Batch ID:	1385	Lims Sample ID:	7
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:53	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: noonanr Date: 27-Aug-2012 15:49:53

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.405	20.410	-0.005	19384	205.7	
19 RDX						
1	23.638	23.647	-0.009	19228	204.6	
27 1,3,5-Trinitrobenzene						
1	25.588	25.600	-0.012	44026	204.4	
10 2,4,6-Trinitrophenol						
2	25.878	25.923	-0.045	92902	490.2	
1	25.878	25.923	-0.045	64148	518.8	
24 1,3-Dinitrobenzene						
1	28.308	28.323	-0.015	46932	205.2	
9 3,5-Dinitroaniline						
1	29.435	29.453	-0.018	30834	205.0	
5 Nitrobenzene						
1	29.901	29.920	-0.019	20168	204.9	
20 Tetryl						
1	30.231	30.250	-0.019	24878	202.6	
7 Nitroglycerin						
2	30.725	30.743	-0.018	18919	210.1	
25 2,4,6-Trinitrotoluene						
1	31.455	31.477	-0.022	26424	203.4	
26 4-Amino-2,6-dinitrotoluene						
1	32.435	32.457	-0.022	21329	204.4	
$ 30 3,4-Dinitrotoluene						
1	32.785	32.810	-0.025	14604	209.2	
2	32.785	32.807	-0.022	28143	218.0	
6 2-Amino-4,6-dinitrotoluene						
1	33.118	33.147	-0.029	23637	204.3	

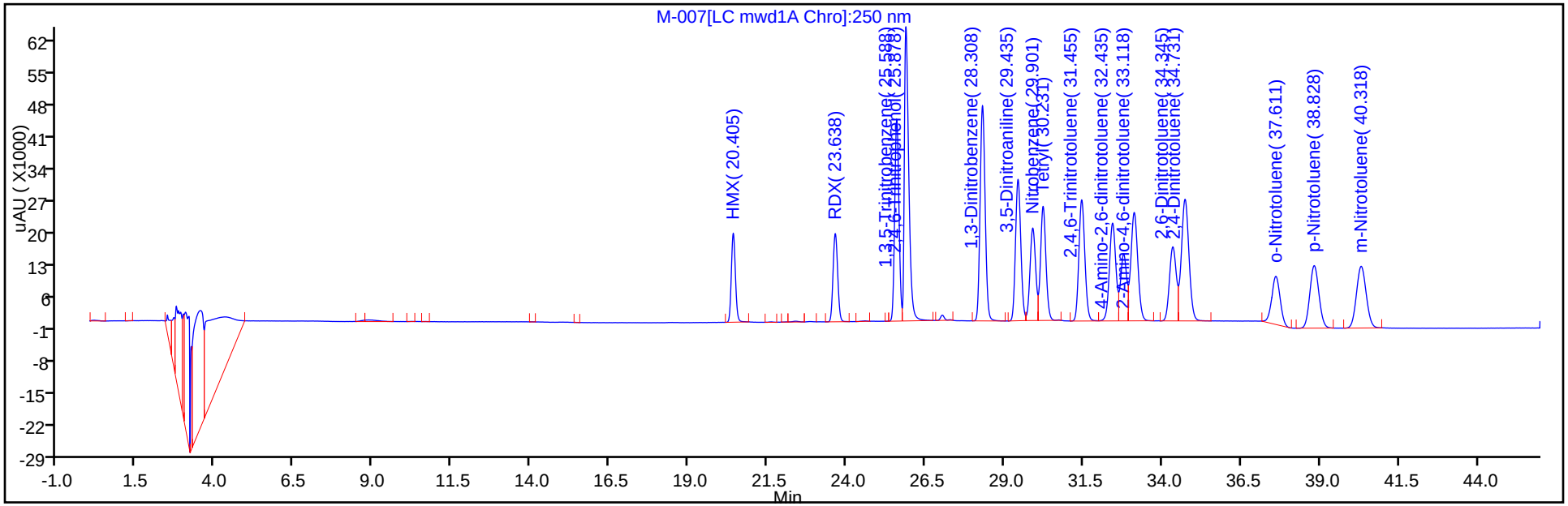
Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.345	34.373	-0.028	16155	202.7	
23 2,4-Dinitrotoluene						
1	34.731	34.760	-0.029	26536	203.3	
16 o-Nitrotoluene						
1	37.611	37.646	-0.035	10507	202.8	
15 p-Nitrotoluene						
1	38.828	38.866	-0.038	13630	205.2	
8 m-Nitrotoluene						
1	40.318	40.356	-0.038	13457	205.7	
21 PETN						
2	40.965	41.016	-0.051	10689	208.3	

Report Date: 18-Sep-2012 15:07:53 Chrom Revision: 2.1 16-Sep-2012 09:37:06

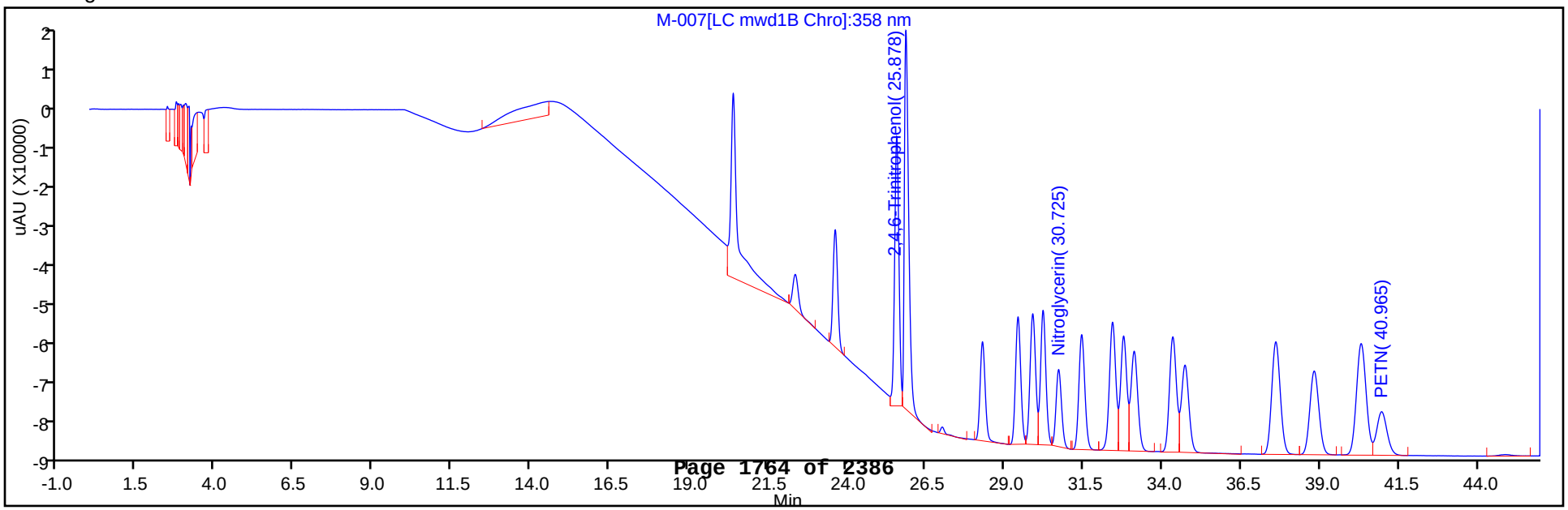
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-007.D		
Injection Date:	30-Apr-2012 19:37:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-008.D		
Lims ID:	STD07	Client ID:	
Inject. Date:	30-Apr-2012 20:34:38	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD_07 HP8330L7_00001 500 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	17
Lims Batch ID:	1385	Lims Sample ID:	8
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:54	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: noonanr Date: 27-Aug-2012 15:50:34

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.371	20.410	-0.039	44272	469.9	
19 RDX						
1	23.614	23.647	-0.033	43431	462.0	
27 1,3,5-Trinitrobenzene						
1	25.574	25.600	-0.026	105011	487.5	
10 2,4,6-Trinitrophenol						
2	25.828	25.923	-0.095	164503	868.0	
1	25.828	25.923	-0.095	116896	945.4	
24 1,3-Dinitrobenzene						
1	28.294	28.323	-0.029	112318	491.2	
9 3,5-Dinitroaniline						
1	29.418	29.453	-0.035	74363	494.3	
5 Nitrobenzene						
1	29.888	29.920	-0.032	48708	494.9	
20 Tetryl						
1	30.218	30.250	-0.032	61501	500.9	
7 Nitroglycerin						
2	30.711	30.743	-0.032	47786	530.7	
25 2,4,6-Trinitrotoluene						
1	31.441	31.477	-0.036	65191	501.9	
26 4-Amino-2,6-dinitrotoluene						
1	32.418	32.457	-0.039	52367	501.9	
$ 30 3,4-Dinitrotoluene						
1	32.771	32.810	-0.039	21929	314.1	
2	32.771	32.807	-0.036	42103	326.1	
6 2-Amino-4,6-dinitrotoluene						
1	33.104	33.147	-0.043	57857	500.0	

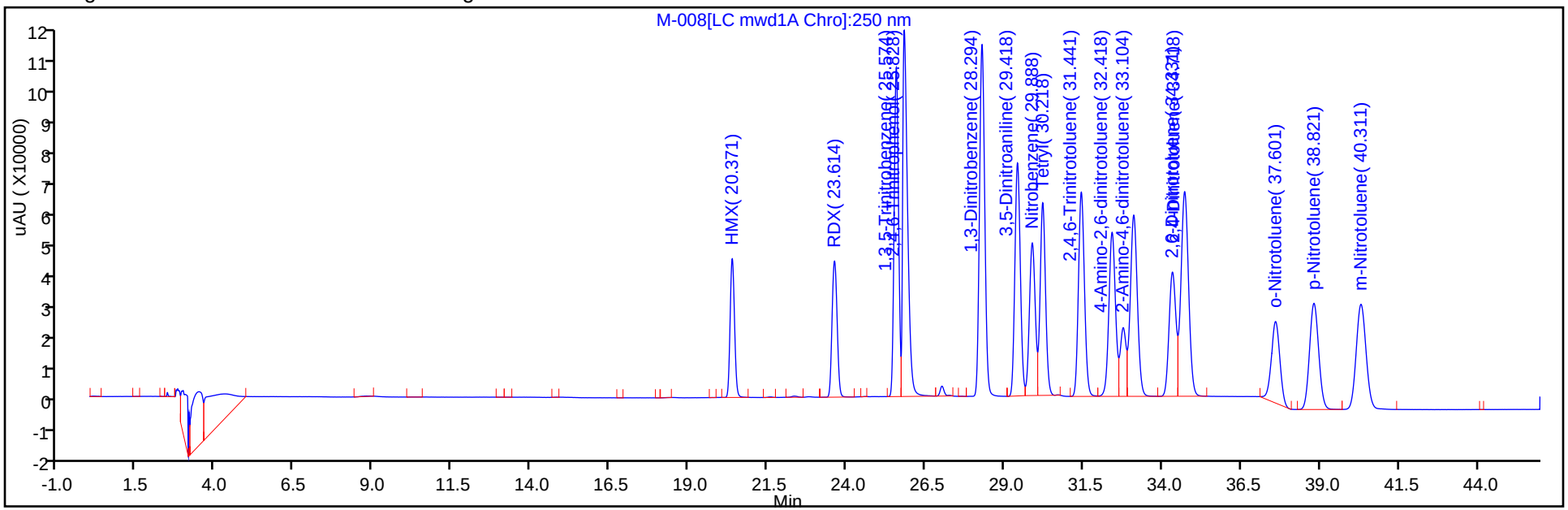
Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.331	34.373	-0.042	39632	497.3	
23 2,4-Dinitrotoluene						
1	34.718	34.760	-0.042	65308	500.3	
16 o-Nitrotoluene						
1	37.601	37.646	-0.045	26010	502.0	
15 p-Nitrotoluene						
1	38.821	38.866	-0.045	33897	510.4	
8 m-Nitrotoluene						
1	40.311	40.356	-0.045	33577	513.2	
21 PETN						
2	40.961	41.016	-0.055	26575	517.8	

Report Date: 18-Sep-2012 15:07:54 Chrom Revision: 2.1 16-Sep-2012 09:37:06

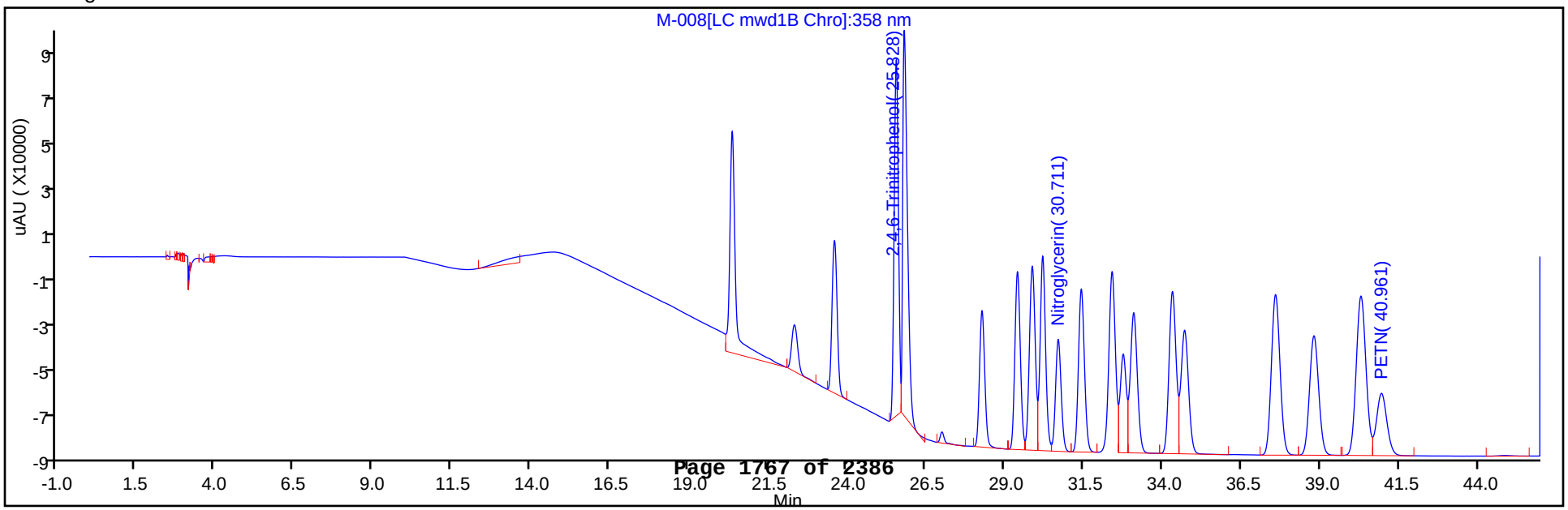
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-008.D		
Injection Date:	30-Apr-2012 20:34:38	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	8
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Lims ID:	STD08	Client ID:	
Inject. Date:	30-Apr-2012 21:31:38	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	STD_08 HP8330L8_00001 1000 ng/mL;1;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	18
Lims Batch ID:	1385	Lims Sample ID:	9
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:07:55	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		
First Level Reviewer: noonanr		Date:	27-Aug-2012 16:03:46

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.360	20.410	-0.050	70622	749.6	
19 RDX						
1	23.600	23.647	-0.047	68761	731.5	
27 1,3,5-Trinitrobenzene						
1	25.560	25.600	-0.040	188229	873.8	
10 2,4,6-Trinitrophenol						M
2	25.747	25.923	-0.176	287523	1517.2	M
1	25.747	25.923	-0.176	205473	1661.8	
24 1,3-Dinitrobenzene						
1	28.277	28.323	-0.046	202704	886.5	
9 3,5-Dinitroaniline						
1	29.404	29.453	-0.049	135977	903.8	
5 Nitrobenzene						
1	29.870	29.920	-0.050	88896	903.2	
20 Tetryl						
1	30.210	30.250	-0.040	120941	985.0	
7 Nitroglycerin						
2	30.700	30.743	-0.043	93287	1036.1	
25 2,4,6-Trinitrotoluene						
1	31.430	31.477	-0.047	126740	975.7	
26 4-Amino-2,6-dinitrotoluene						
1	32.400	32.457	-0.057	99890	957.3	
$ 30 3,4-Dinitrotoluene						
1	32.757	32.810	-0.053	36090	517.0	
2	32.757	32.807	-0.050	68786	532.8	
6 2-Amino-4,6-dinitrotoluene						
1	33.084	33.147	-0.063	109870	949.5	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.317	34.373	-0.056	76622	961.5	
23 2,4-Dinitrotoluene						
1	34.700	34.760	-0.060	126122	966.1	
16 o-Nitrotoluene						
1	37.577	37.646	-0.069	49792	961.1	
15 p-Nitrotoluene						
1	38.794	38.866	-0.072	65856	991.6	
8 m-Nitrotoluene						
1	40.280	40.356	-0.076	65463	1000.6	
21 PETN						
2	40.940	41.016	-0.076	53251	1037.5	

QC Flag Legend

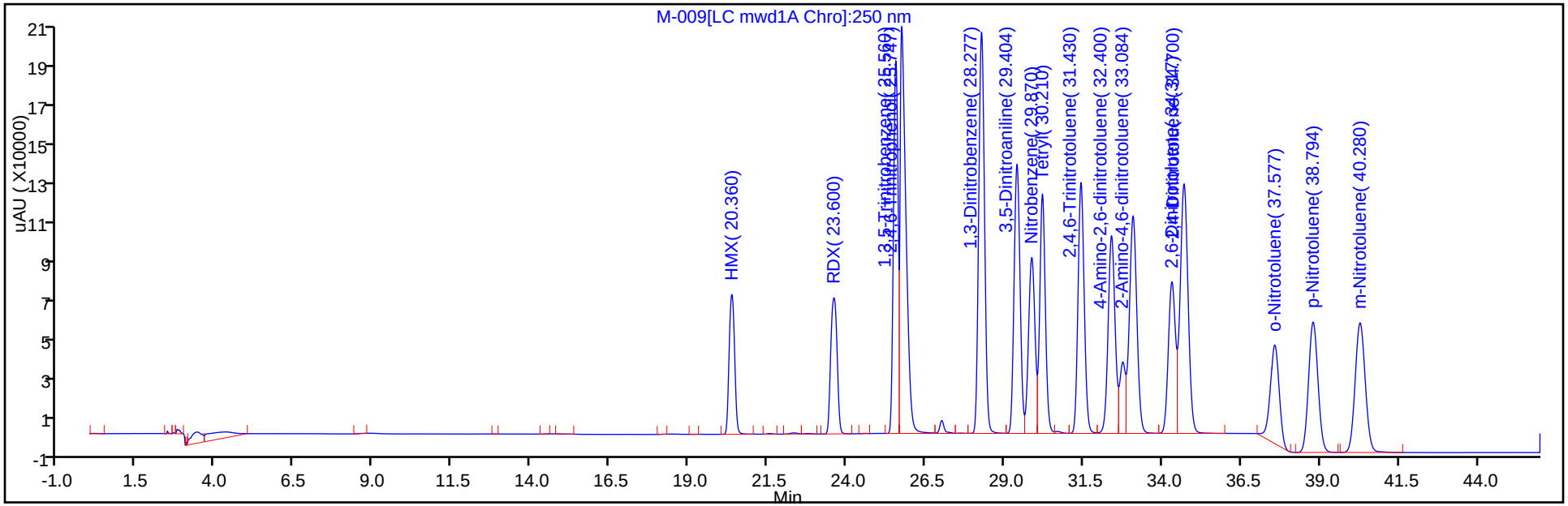
Review Flags
M - Manually Integrated

Report Date: 18-Sep-2012 15:07:55 Chrom Revision: 2.1 16-Sep-2012 09:37:06

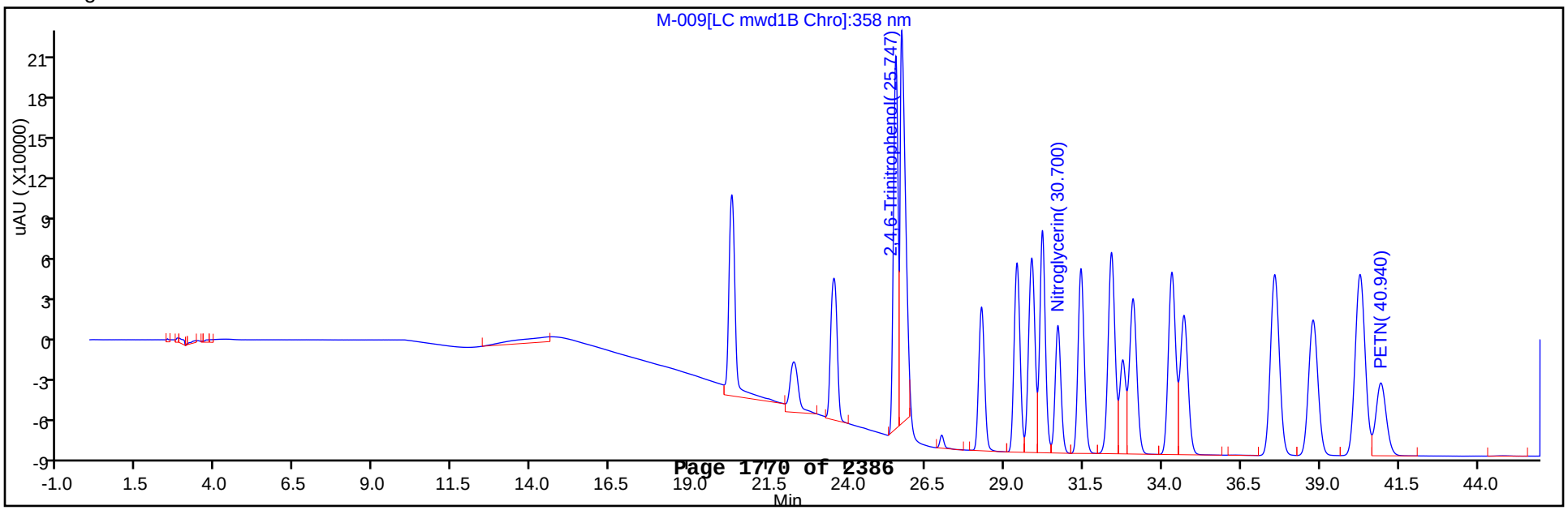
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Injection Date:	30-Apr-2012 21:31:38	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	9
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Injection Date:	30-Apr-2012 21:31:38	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	9
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

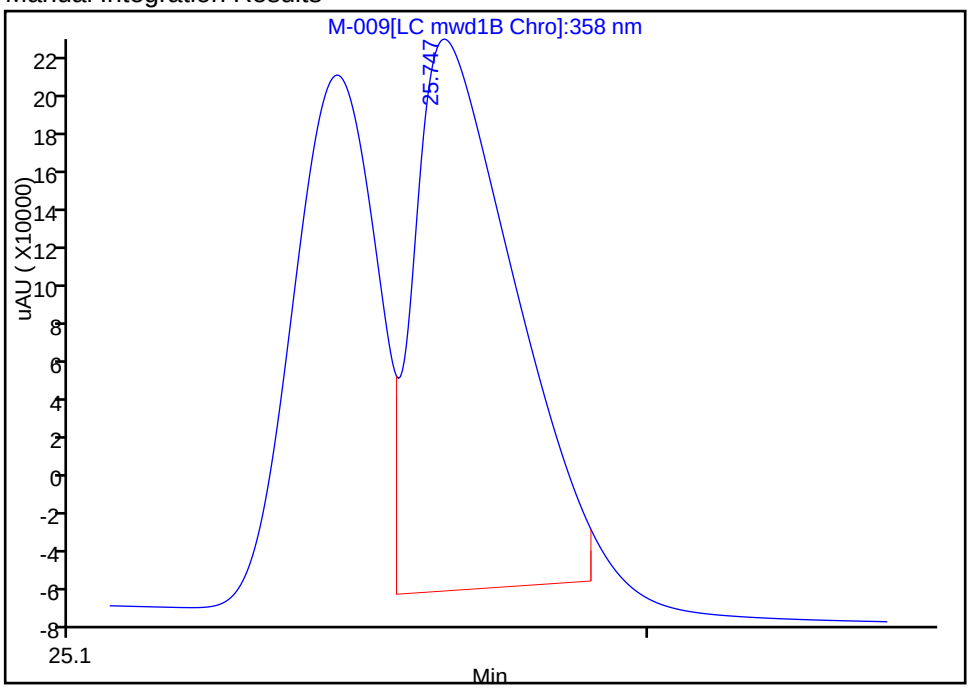
10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

Processing Integration Results

RT: 0.00
Response: 0
Amount: 0

Manual Integration Results

RT: 25.75
Response: 287523
Amount: 1517.1582



Reviewer: noonanr, 27-Aug-2012 16:02:42
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-10422/2	M000003.D
Level 2	STD02 320-10422/3	M000004.D
Level 3	STD03 320-10422/4	M000005.D
Level 4	STD04 320-10422/5	M000006.D
Level 5	STD05 320-10422/6	M000007.D
Level 6	STD06 320-10422/7	M000008.D
Level 7	STD07 320-10422/8	M000009.D
Level 8	STD08 320-10422/9	M000010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Nitrobenzene	22.647	22.792	22.724	22.701	22.719	22.685	22.683	22.568			22.469 - 22.969	22.690
Ethylene glycol dinitrate			23.951	23.961	23.972	23.939	23.960	23.865			23.722 - 24.222	23.941
1,3-Dinitrobenzene	25.801	25.899	25.831	25.814	25.819	25.792	25.813	25.688			25.569 - 26.069	25.807
1,3,5-Trinitrobenzene	28.744	28.849	28.761	28.751	28.749	28.735	28.773	28.668			28.499 - 28.999	28.754
2-Nitrotoluene	29.854	29.992	29.921	29.887	29.882	29.862	29.913	29.735			29.632 - 30.132	29.881
4-Nitrotoluene	29.854	29.992	29.921	29.887	29.882	29.862	29.913	29.735			29.632 - 30.132	29.881
3-Nitrotoluene	30.464	30.599	30.514	30.491	30.496	30.475	30.523	30.328			30.246 - 30.746	30.486
3,5-Dinitroaniline	31.874	32.025	31.918	31.881	31.889	31.872	31.940	31.755			31.639 - 32.139	31.894
RDX	32.451	32.639	32.521	32.497	32.489	32.469	32.540	32.298			32.239 - 32.739	32.488
2,4-Dinitrotoluene	33.711	33.875	33.758	33.734	33.726	33.715	33.780	33.595			33.476 - 33.976	33.737
2,6-Dinitrotoluene	34.721	34.859	34.768	34.741	34.739	34.725	34.796	34.605			34.489 - 34.989	34.744
2-Amino-4,6-dinitrotoluene	36.767	36.972	36.844	36.807	36.802	36.782	36.886	36.671			36.552 - 37.052	36.816
4-Amino-2,6-dinitrotoluene	37.384	37.515	37.418	37.394	37.376	37.362	37.456	37.255			37.126 - 37.626	37.395
2,4,6-Trinitrotoluene	41.221	41.309	41.224	41.207	41.196	41.189	41.263	41.145			40.946 - 41.446	41.219
HMX	42.604	42.739	42.648	42.614	42.609	42.595	42.690	42.541			42.359 - 42.859	42.630
Nitroglycerin			45.151	45.127	45.139	45.115	45.223	45.088			44.889 - 45.389	45.141
Tetryl	46.727	46.829	46.744	46.711	46.719	46.695	46.816	46.668			46.469 - 46.969	46.739
PETN			53.101	53.074	53.082	53.039	53.166	53.048			52.832 - 53.332	53.085
3,4-Dinitrotoluene	39.014	39.169	39.041	39.004	38.999	38.979	39.073	38.891			38.749 - 39.249	39.021

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-10422/2	M000003.D
Level 2	STD02 320-10422/3	M000004.D
Level 3	STD03 320-10422/4	M000005.D
Level 4	STD04 320-10422/5	M000006.D
Level 5	STD05 320-10422/6	M000007.D
Level 6	STD06 320-10422/7	M000008.D
Level 7	STD07 320-10422/8	M000009.D
Level 8	STD08 320-10422/9	M000010.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Nitrobenzene	51.000 51.610	51.800 49.560	49.600 45.418	49.780 37.954	Ave		48.3402500				9.6		20.0			
Ethylene glycol dinitrate	 22.300	 22.135	24.000 21.404	22.960 18.459	Ave		21.8763333				8.6		20.0			
1,3-Dinitrobenzene	112.80 111.57	111.60 107.36	108.80 101.91	106.94 87.481	Ave		106.057000				7.8		20.0			
1,3,5-Trinitrobenzene	87.200 83.750	86.300 81.460	83.750 80.706	81.120 72.832	Ave		82.1397500				5.4		20.0			
2-Nitrotoluene	69.800 66.450	66.600 64.130	65.200 60.696	61.820 53.073	Ave		63.4711250				8.0		20.0			
4-Nitrotoluene	69.800 66.450	66.600 64.130	65.200 60.696	61.820 53.073	Ave		63.4711250				8.0		20.0			
3-Nitrotoluene	48.600 43.300	45.100 41.840	44.050 40.234	40.780 35.115	Ave		42.3773750				9.4		20.0			
3,5-Dinitroaniline	93.600 84.090	89.200 81.130	85.500 77.098	80.740 67.286	Ave		82.3305000				9.7		20.0			
RDX	59.600 48.330	54.000 46.555	51.400 45.108	47.540 39.765	Ave		49.0372500				12.0		20.0			
2,4-Dinitrotoluene	89.600 92.530	91.800 89.960	90.950 86.594	88.020 77.286	Ave		88.3425000				5.5		20.0			
2,6-Dinitrotoluene	55.000 54.920	56.600 53.555	55.400 52.806	53.420 47.331	Ave		53.6290000				5.3		20.0			
2-Amino-4,6-dinitrotoluene	69.800 78.190	78.200 76.745	75.750 75.752	75.660 65.117	Ave		74.4017500				6.2		20.0			
4-Amino-2,6-dinitrotoluene	70.600 73.020	72.200 72.060	70.750 70.936	70.380 62.561	Ave		70.3133750				4.6		20.0			
2,4,6-Trinitrotoluene	86.400 96.600	90.300 95.185	85.250 85.510	84.240 79.866	Ave		87.9188750				6.5		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	65.600 66.080	66.700 65.275	67.050 65.788	65.060 60.901	Ave		65.3067500				2.9		20.0			
Nitroglycerin	 87.830	 89.345	91.650 94.326	94.100 91.734	Ave		91.4975000				2.8		20.0			
Tetryl	115.60 135.04	115.70 133.31	113.25 114.99	112.12 111.50	Ave		118.937750				8.0		20.0			
PETN	 141.91	 142.71	146.35 151.90	148.06 149.64	Ave		146.761000				2.7		20.0			
3,4-Dinitrotoluene	56.000 53.590	55.900 53.170	53.100 53.943	53.400 48.234	Ave		53.4171667				4.5		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-10422/2	M000003.D
Level 2	STD02 320-10422/3	M000004.D
Level 3	STD03 320-10422/4	M000005.D
Level 4	STD04 320-10422/5	M000006.D
Level 5	STD05 320-10422/6	M000007.D
Level 6	STD06 320-10422/7	M000008.D
Level 7	STD07 320-10422/8	M000009.D
Level 8	STD08 320-10422/9	M000010.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Nitrobenzene	Ave	255 9912	518 22709	992 37954	2489	5161	5.00 200	10.0 500	20.0 1000	50.0	100
Ethylene glycol dinitrate	Ave	 4427	 10702	480 18459	1148	2230	 200	 500	20.0 1000	50.0	100
1,3-Dinitrobenzene	Ave	564 21471	1116 50955	2176 87481	5347	11157	5.00 200	10.0 500	20.0 1000	50.0	100
1,3,5-Trinitrobenzene	Ave	436 16292	863 40353	1675 72832	4056	8375	5.00 200	10.0 500	20.0 1000	50.0	100
2-Nitrotoluene	Ave	349 12826	666 30348	1304 53073	3091	6645	5.00 200	10.0 500	20.0 1000	50.0	100
4-Nitrotoluene	Ave	349 12826	666 30348	1304 53073	3091	6645	5.00 200	10.0 500	20.0 1000	50.0	100
3-Nitrotoluene	Ave	243 8368	451 20117	881 35115	2039	4330	5.00 200	10.0 500	20.0 1000	50.0	100
3,5-Dinitroaniline	Ave	468 16226	892 38549	1710 67286	4037	8409	5.00 200	10.0 500	20.0 1000	50.0	100
RDX	Ave	298 9311	540 22554	1028 39765	2377	4833	5.00 200	10.0 500	20.0 1000	50.0	100
2,4-Dinitrotoluene	Ave	448 17992	918 43297	1819 77286	4401	9253	5.00 200	10.0 500	20.0 1000	50.0	100
2,6-Dinitrotoluene	Ave	275 10711	566 26403	1108 47331	2671	5492	5.00 200	10.0 500	20.0 1000	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	349 15349	782 37876	1515 65117	3783	7819	5.00 200	10.0 500	20.0 1000	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	353 14412	722 35468	1415 62561	3519	7302	5.00 200	10.0 500	20.0 1000	50.0	100
2,4,6-Trinitrotoluene	Ave	432 19037	903 42755	1705 79866	4212	9660	5.00 200	10.0 500	20.0 1000	50.0	100
HMX	Ave	328 13055	667 32894	1341 60901	3253	6608	5.00 200	10.0 500	20.0 1000	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Nitroglycerin	Ave	17869	47163	1833 91734	4705	8783	200	500	20.0 1000	50.0	100
Tetryl	Ave	578 26661	1157 57496	2265 111495	5606	13504	5.00 200	10.0 500	20.0 1000	50.0	100
PETN	Ave	28542	75949	2927 149638	7403	14191	200	500	20.0 1000	50.0	100
3,4-Dinitrotoluene	Ave	280 10634	559 16183	1062 24117	2670	5359	5.00 200	10.0 300	20.0 500	50.0	100

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000003.D		
Lims ID:	STD01	Client ID:	
Inject. Date:	13-Feb-2013 17:16:36	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	320-0002792-002		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	11
Lims Batch ID:	10422	Lims Sample ID:	2
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:13	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:29:01

Det	RT	EXP RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.647	22.719	-0.072	255	5.28	
3 Ethylene glycol dinitrate						
2	23.981	23.972	0.009	122	5.58	
24 1,3-Dinitrobenzene						
1	25.801	25.819	-0.018	564	5.32	
27 1,3,5-Trinitrobenzene						
1	28.744	28.749	-0.005	436	5.31	
16 o-Nitrotoluene						
1	29.854	29.882	-0.028	349	5.50	
15 p-Nitrotoluene						
1	29.854	29.882	-0.028	349	5.50	
8 m-Nitrotoluene						
1	30.464	30.496	-0.032	243	5.73	
9 3,5-Dinitroaniline						
1	31.874	31.889	-0.015	468	5.68	
19 RDX						
1	32.451	32.489	-0.038	298	6.08	
23 2,4-Dinitrotoluene						
1	33.711	33.726	-0.015	448	5.07	
12 2,6-Dinitrotoluene						
1	34.721	34.739	-0.018	275	5.13	
6 2-Amino-4,6-dinitrotoluene						
1	36.767	36.802	-0.035	349	4.69	
26 4-Amino-2,6-dinitrotoluene						
1	37.384	37.376	0.008	353	5.02	
$ 30 3,4-Dinitrotoluene						
1	39.014	38.999	0.015	280	5.24	

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.221	41.196	0.025	432	4.91
11 HMX					
1	42.604	42.609	-0.005	328	5.02
7 Nitroglycerin					
2	45.137	45.139	-0.002	244	2.67
20 Tetryl					
1	46.727	46.719	0.008	578	4.86
21 PETN					
2	53.067	53.082	-0.015	744	5.07

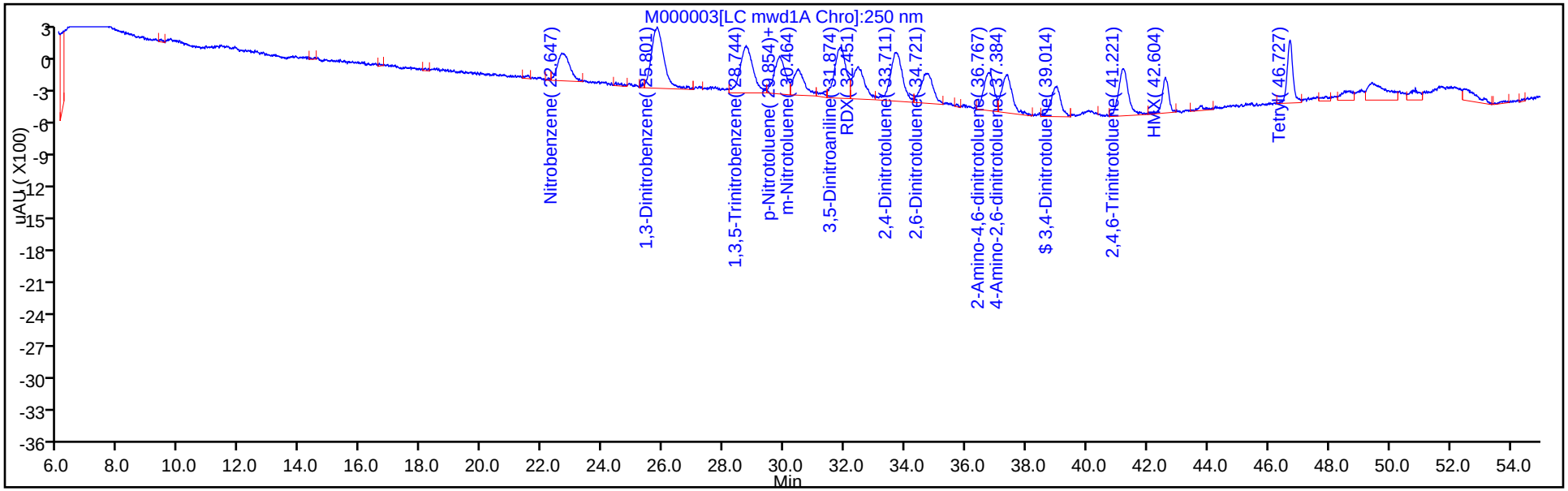
Report Date: 14-Feb-2013 07:52:14 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

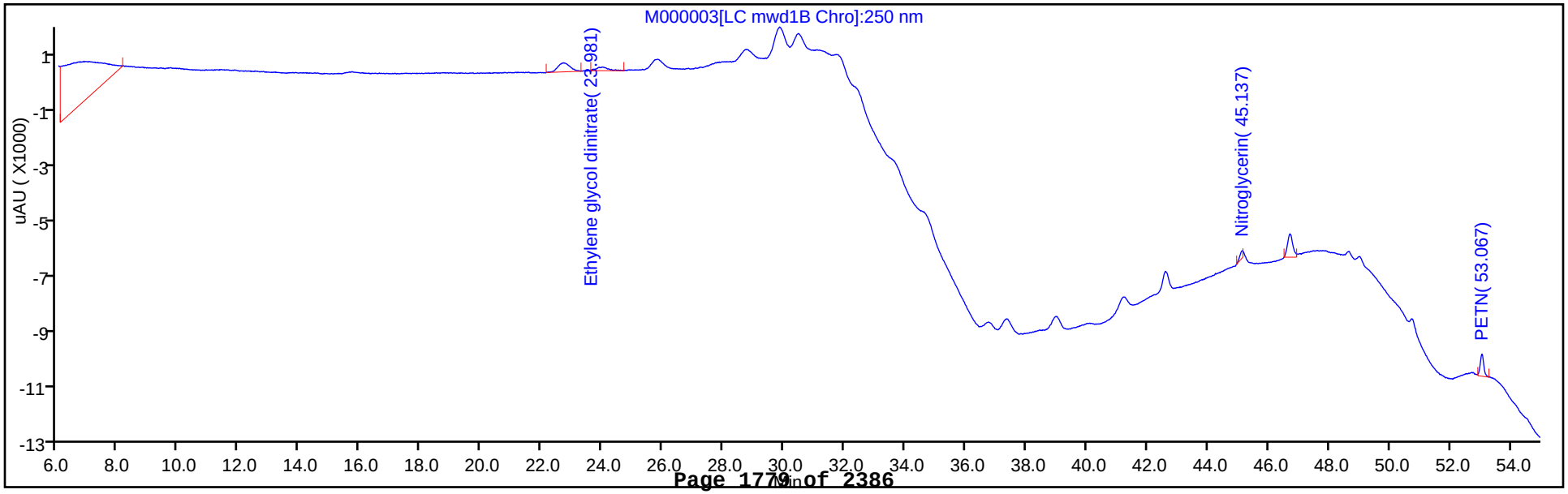
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000003.D

Injection Date:	13-Feb-2013 17:16:36	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000004.D		
Lims ID:	STD02	Client ID:	
Inject. Date:	13-Feb-2013 18:22:04	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	320-0002792-003		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	12
Lims Batch ID:	10422	Lims Sample ID:	3
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:14	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:42:54

Det	RT	EXP RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.792	22.719	0.073	518	10.7	
3 Ethylene glycol dinitrate						
2	24.042	23.972	0.070	246	11.2	
24 1,3-Dinitrobenzene						
1	25.899	25.819	0.080	1116	10.5	
27 1,3,5-Trinitrobenzene						
1	28.849	28.749	0.100	863	10.5	
16 o-Nitrotoluene						
1	29.992	29.882	0.110	666	10.5	
15 p-Nitrotoluene						
1	29.992	29.882	0.110	666	10.5	
8 m-Nitrotoluene						
1	30.599	30.496	0.103	451	10.6	
9 3,5-Dinitroaniline						
1	32.025	31.889	0.136	892	10.8	
19 RDX						
1	32.639	32.489	0.150	540	11.0	
23 2,4-Dinitrotoluene						
1	33.875	33.726	0.149	918	10.4	
12 2,6-Dinitrotoluene						
1	34.859	34.739	0.120	566	10.6	
6 2-Amino-4,6-dinitrotoluene						
1	36.972	36.802	0.170	782	10.5	
26 4-Amino-2,6-dinitrotoluene						
1	37.515	37.376	0.139	722	10.3	
$ 30 3,4-Dinitrotoluene						
1	39.169	38.999	0.170	559	10.5	

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.309	41.196	0.113	903	10.3
11 HMX					
1	42.739	42.609	0.130	667	10.2
7 Nitroglycerin					
2	45.239	45.139	0.100	540	5.90
20 Tetryl					
1	46.829	46.719	0.110	1157	9.73
21 PETN					
2	53.155	53.082	0.073	1475	10.1

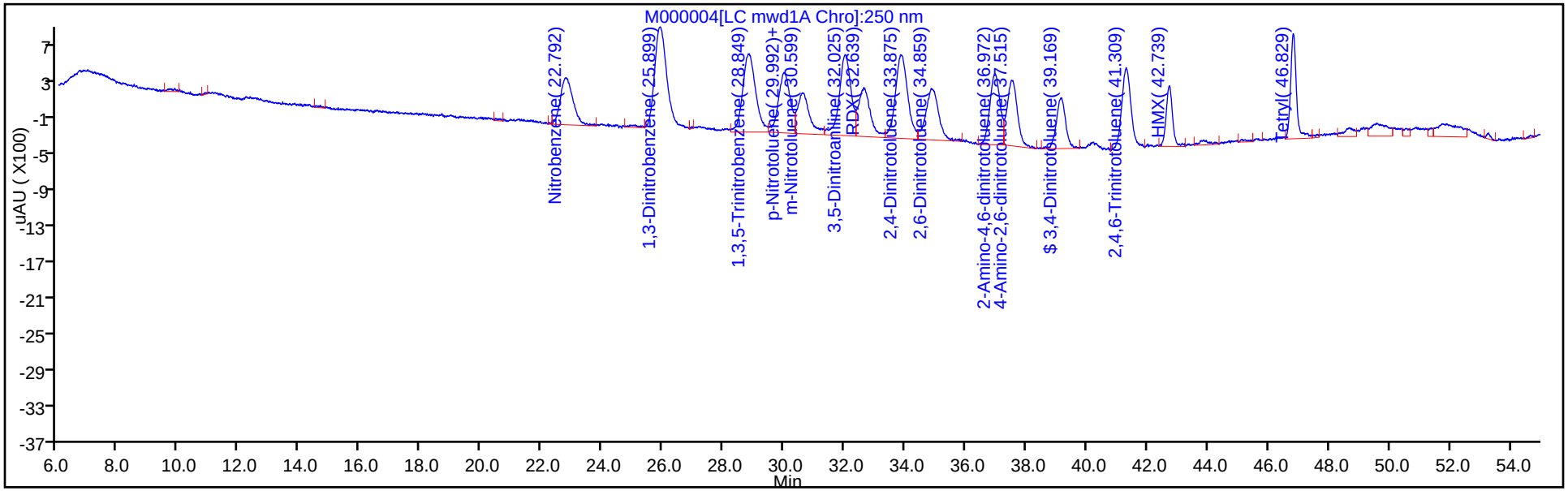
Report Date: 14-Feb-2013 07:52:15 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

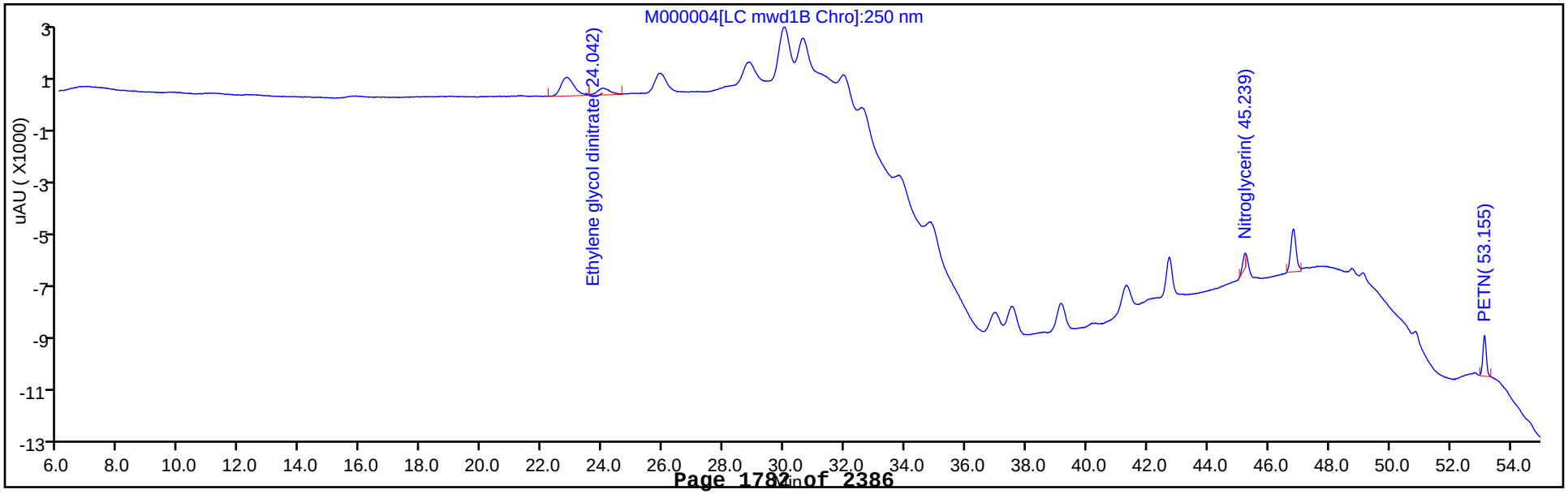
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000004.D

Injection Date:	13-Feb-2013 18:22:04	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000005.D		
Lims ID:	STD03	Client ID:	
Inject. Date:	13-Feb-2013 19:27:28	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	320-0002792-004		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	13
Lims Batch ID:	10422	Lims Sample ID:	4
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:15	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:42:59

Det	RT	EXP RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.724	22.719	0.005	992	20.5	
3 Ethylene glycol dinitrate						
2	23.951	23.972	-0.021	480	21.9	
24 1,3-Dinitrobenzene						
1	25.831	25.819	0.012	2176	20.5	
27 1,3,5-Trinitrobenzene						
1	28.761	28.749	0.012	1675	20.4	
16 o-Nitrotoluene						
1	29.921	29.882	0.039	1304	20.5	
15 p-Nitrotoluene						
1	29.921	29.882	0.039	1304	20.5	
8 m-Nitrotoluene						
1	30.514	30.496	0.018	881	20.8	
9 3,5-Dinitroaniline						
1	31.918	31.889	0.029	1710	20.8	
19 RDX						
1	32.521	32.489	0.032	1028	21.0	
23 2,4-Dinitrotoluene						
1	33.758	33.726	0.032	1819	20.6	
12 2,6-Dinitrotoluene						
1	34.768	34.739	0.029	1108	20.7	
6 2-Amino-4,6-dinitrotoluene						
1	36.844	36.802	0.042	1515	20.4	
26 4-Amino-2,6-dinitrotoluene						
1	37.418	37.376	0.042	1415	20.1	
$ 30 3,4-Dinitrotoluene						
1	39.041	38.999	0.042	1062	19.9	

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.224	41.196	0.028	1705	19.4
11 HMX					
1	42.648	42.609	0.039	1341	20.5
7 Nitroglycerin					
2	45.151	45.139	0.012	1833	20.0
20 Tetryl					
1	46.744	46.719	0.025	2265	19.0
21 PETN					
2	53.101	53.082	0.019	2927	19.9

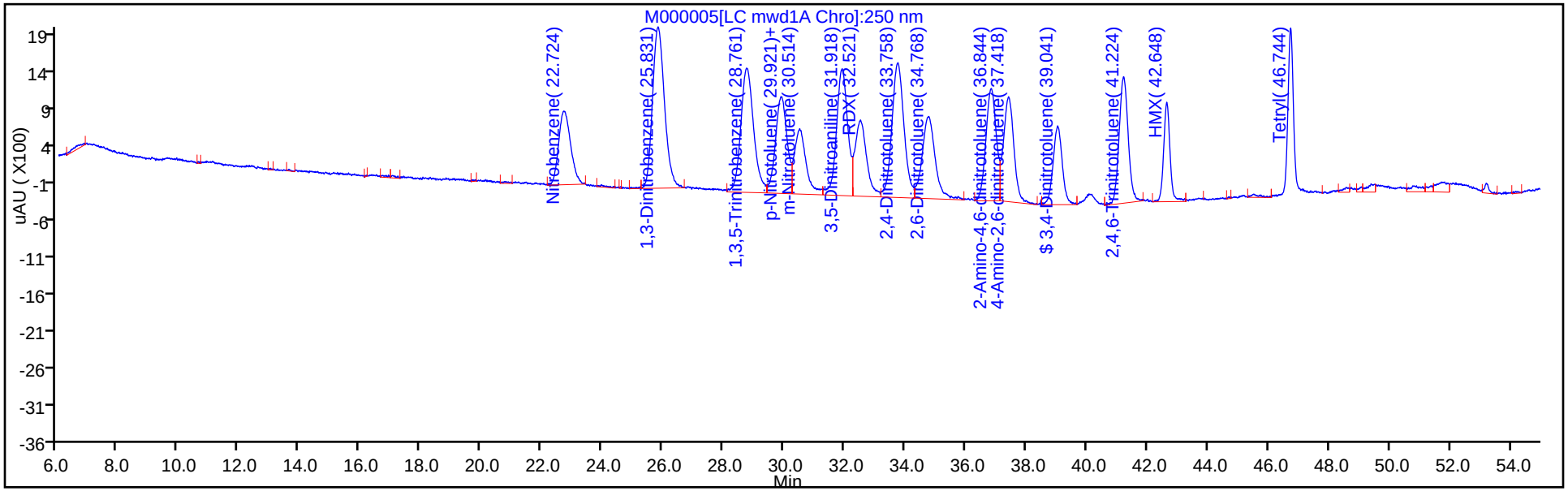
Report Date: 14-Feb-2013 07:52:16 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

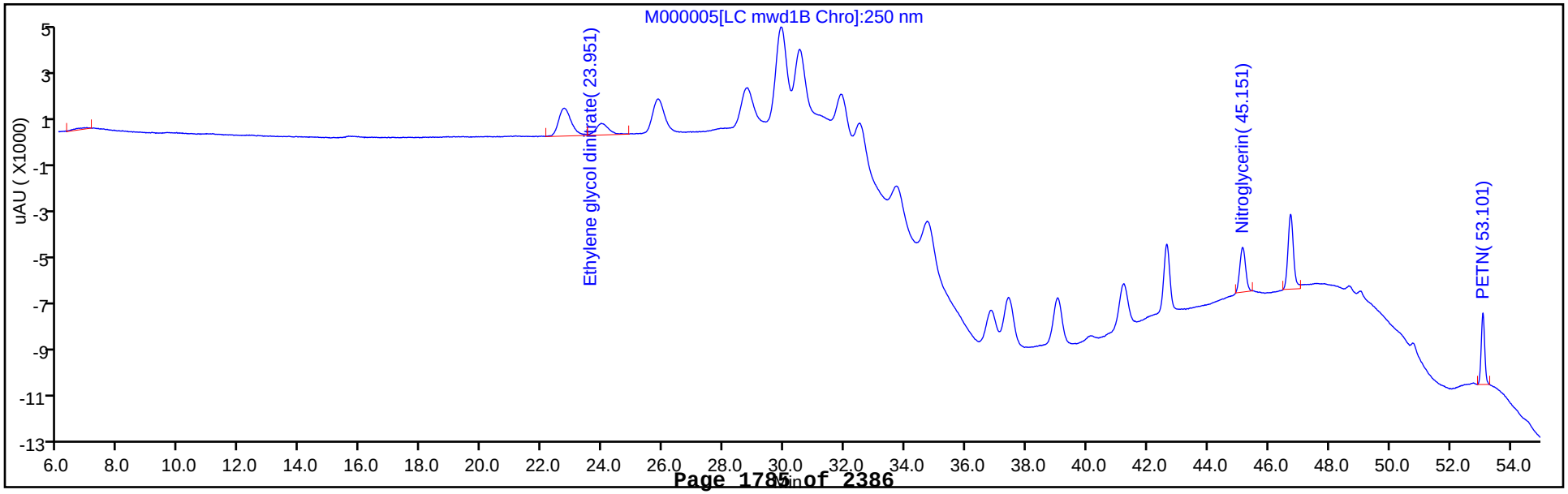
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000005.D

Injection Date:	13-Feb-2013 19:27:28	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000006.D		
Lims ID:	STD04	Client ID:	
Inject. Date:	13-Feb-2013 20:32:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	320-0002792-005		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	14
Lims Batch ID:	10422	Lims Sample ID:	5
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:16	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:45:51

Det	RT	EXP RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.701	22.719	-0.018	2489	51.5	
3 Ethylene glycol dinitrate						
2	23.961	23.972	-0.011	1148	52.5	
24 1,3-Dinitrobenzene						
1	25.814	25.819	-0.005	5347	50.4	
27 1,3,5-Trinitrobenzene						
1	28.751	28.749	0.002	4056	49.4	
16 o-Nitrotoluene						
1	29.887	29.882	0.005	3091	48.7	
15 p-Nitrotoluene						
1	29.887	29.882	0.005	3091	48.7	
8 m-Nitrotoluene						
1	30.491	30.496	-0.005	2039	48.1	
9 3,5-Dinitroaniline						
1	31.881	31.889	-0.008	4037	49.0	
19 RDX						
1	32.497	32.489	0.008	2377	48.5	
23 2,4-Dinitrotoluene						
1	33.734	33.726	0.008	4401	49.8	
12 2,6-Dinitrotoluene						
1	34.741	34.739	0.002	2671	49.8	
6 2-Amino-4,6-dinitrotoluene						
1	36.807	36.802	0.005	3783	50.8	
26 4-Amino-2,6-dinitrotoluene						
1	37.394	37.376	0.018	3519	50.0	
$ 30 3,4-Dinitrotoluene						
1	39.004	38.999	0.005	2670	50.0	

Det	RT	EXP RT	DLT RT	Response		Flags
25 2,4,6-Trinitrotoluene						
1	41.207	41.196	0.011	4212	47.9	
11 HMX						
1	42.614	42.609	0.005	3253	49.8	
7 Nitroglycerin						
2	45.127	45.139	-0.012	4705	51.4	
20 Tetryl						
1	46.711	46.719	-0.008	5606	47.1	
21 PETN						
2	53.074	53.082	-0.008	7403	50.4	

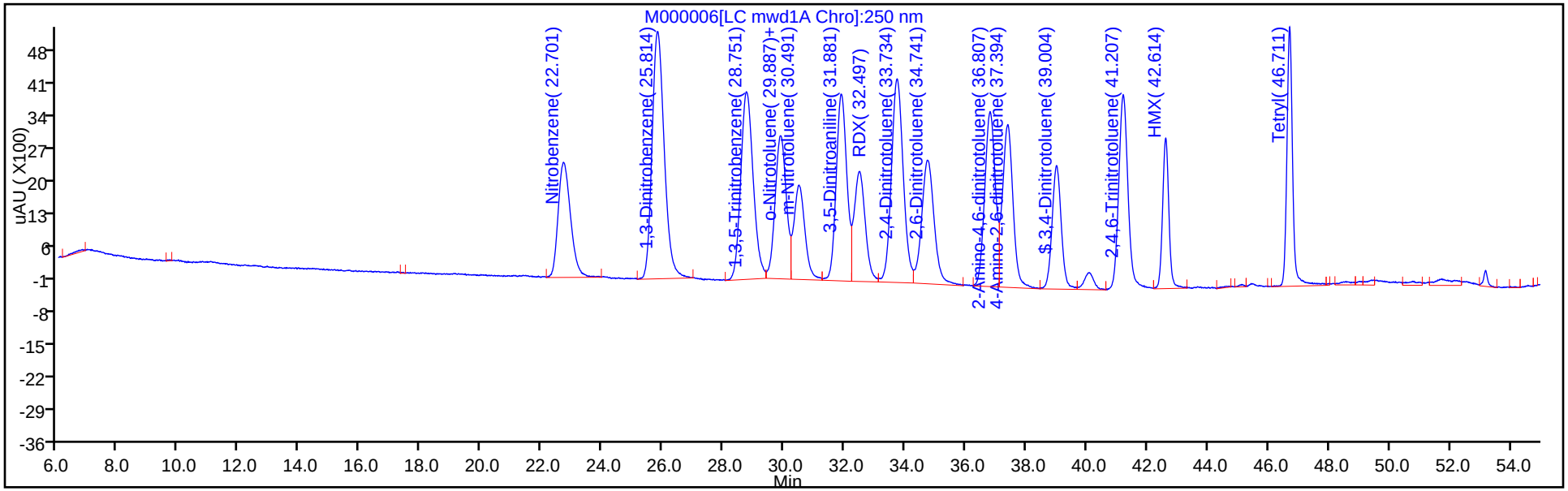
Report Date: 14-Feb-2013 07:52:16 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

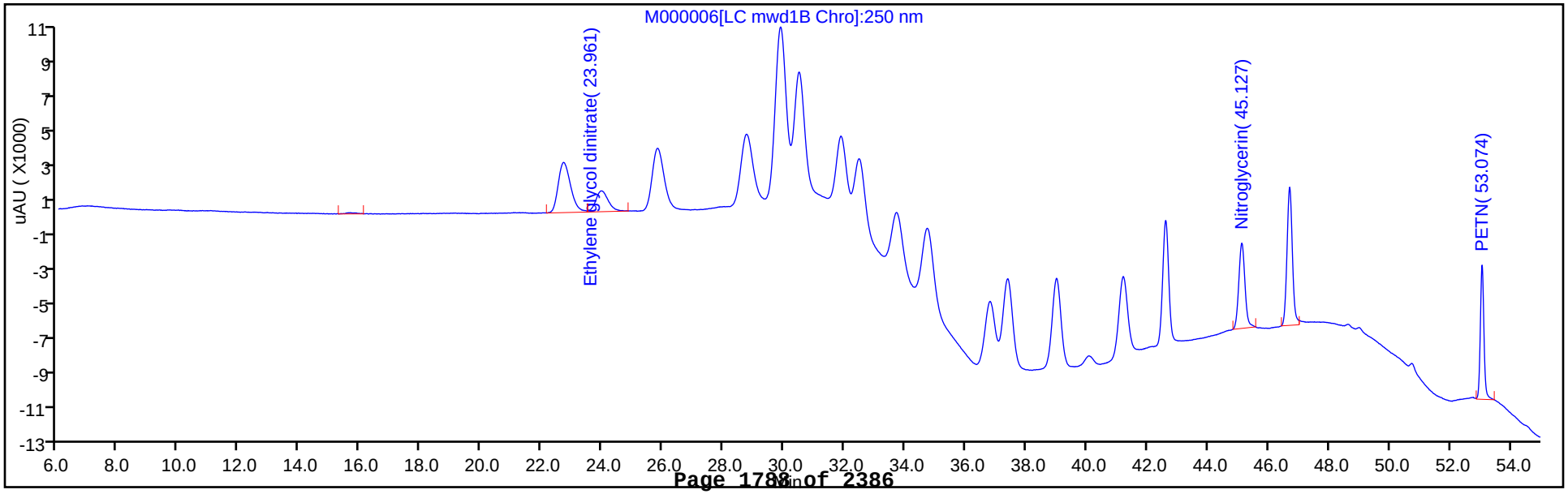
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000006.D

Injection Date:	13-Feb-2013 20:32:51	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000007.D		
Lims ID:	STD05	Client ID:	
Inject. Date:	13-Feb-2013 21:38:19	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	320-0002792-006		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	15
Lims Batch ID:	10422	Lims Sample ID:	6
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:17	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:47:34

Det	RT	EXP RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.719	22.719	0.0	5161	106.8	
3 Ethylene glycol dinitrate						
2	23.972	23.972	0.0	2230	101.9	
24 1,3-Dinitrobenzene						
1	25.819	25.819	0.0	11157	105.2	
27 1,3,5-Trinitrobenzene						
1	28.749	28.749	0.0	8375	102.0	
16 o-Nitrotoluene						
1	29.882	29.882	0.0	6645	104.7	
15 p-Nitrotoluene						
1	29.882	29.882	0.0	6645	104.7	
8 m-Nitrotoluene						
1	30.496	30.496	0.0	4330	102.2	
9 3,5-Dinitroaniline						
1	31.889	31.889	0.0	8409	102.1	
19 RDX						
1	32.489	32.489	0.0	4833	98.6	
23 2,4-Dinitrotoluene						
1	33.726	33.726	0.0	9253	104.7	
12 2,6-Dinitrotoluene						
1	34.739	34.739	0.0	5492	102.4	
6 2-Amino-4,6-dinitrotoluene						
1	36.802	36.802	0.0	7819	105.1	
26 4-Amino-2,6-dinitrotoluene						
1	37.376	37.376	0.0	7302	103.8	
$ 30 3,4-Dinitrotoluene						
1	38.999	38.999	0.0	5359	100.3	

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.196	41.196	0.0	9660	109.9
11 HMX					
1	42.609	42.609	0.0	6608	101.2
7 Nitroglycerin					
2	45.139	45.139	0.0	8783	96.0
20 Tetryl					
1	46.719	46.719	0.0	13504	113.5
21 PETN					
2	53.082	53.082	0.0	14191	96.7

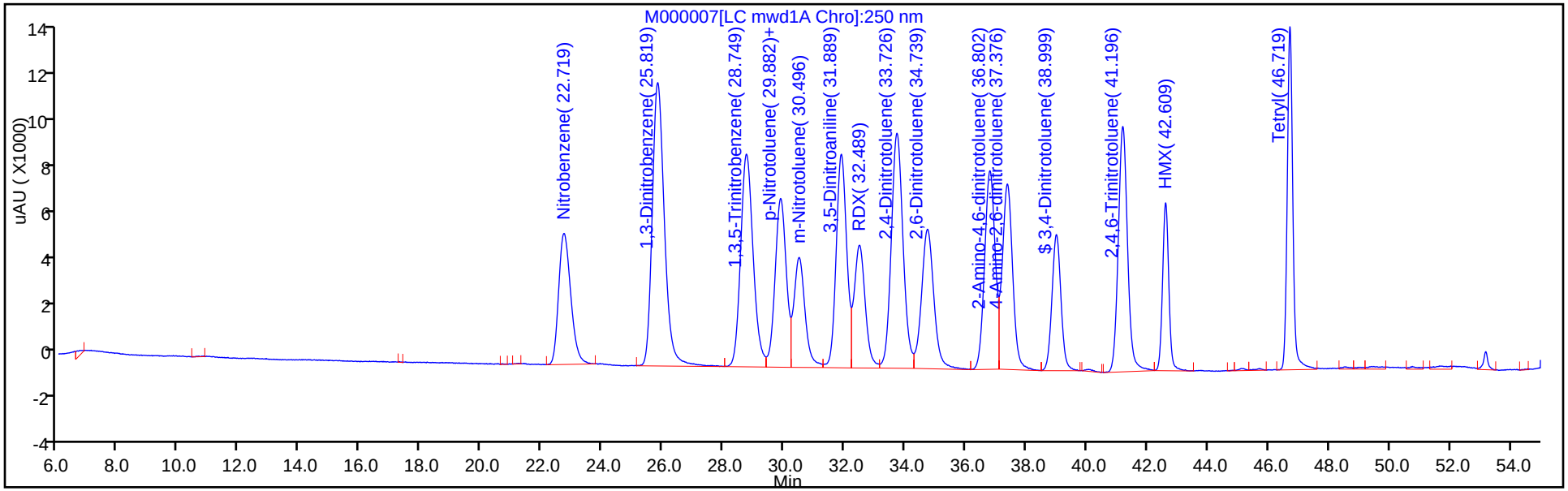
Report Date: 14-Feb-2013 07:52:17 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

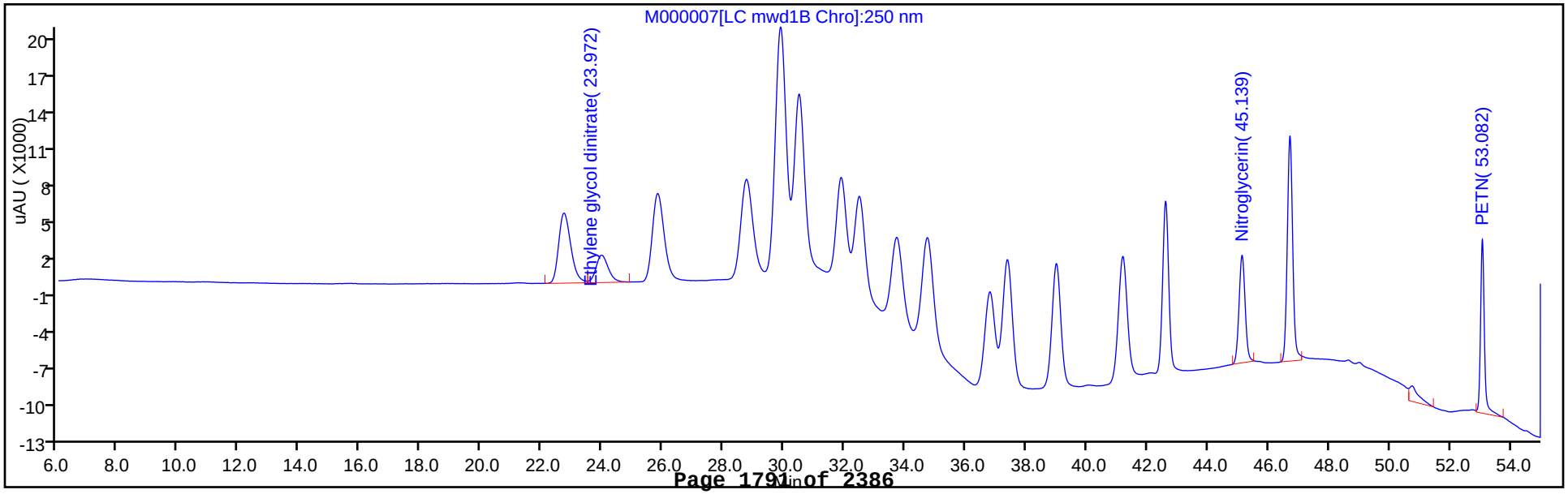
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000007.D

Injection Date:	13-Feb-2013 21:38:19	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	6
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000008.D		
Lims ID:	STD06	Client ID:	
Inject. Date:	13-Feb-2013 22:43:44	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	320-0002792-007		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	16
Lims Batch ID:	10422	Lims Sample ID:	7
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:18	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:47:55

Det	RT	EXP RT	DLT RT	Response	Flags
5 Nitrobenzene					
1	22.685	22.719	-0.034	9912	205.0
3 Ethylene glycol dinitrate					
2	23.939	23.972	-0.033	4427	202.4
24 1,3-Dinitrobenzene					
1	25.792	25.819	-0.027	21471	202.4
27 1,3,5-Trinitrobenzene					
1	28.735	28.749	-0.014	16292	198.3
16 o-Nitrotoluene					
1	29.862	29.882	-0.020	12826	202.1
15 p-Nitrotoluene					
1	29.862	29.882	-0.020	12826	202.1
8 m-Nitrotoluene					
1	30.475	30.496	-0.021	8368	197.5
9 3,5-Dinitroaniline					
1	31.872	31.889	-0.017	16226	197.1
19 RDX					
1	32.469	32.489	-0.020	9311	189.9
23 2,4-Dinitrotoluene					
1	33.715	33.726	-0.011	17992	203.7
12 2,6-Dinitrotoluene					
1	34.725	34.739	-0.014	10711	199.7
6 2-Amino-4,6-dinitrotoluene					
1	36.782	36.802	-0.020	15349	206.3
26 4-Amino-2,6-dinitrotoluene					
1	37.362	37.376	-0.014	14412	205.0
$ 30 3,4-Dinitrotoluene					
1	38.979	38.999	-0.020	10634	199.1

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.189	41.196	-0.007	19037	216.5
11 HMX					
1	42.595	42.609	-0.014	13055	199.9
7 Nitroglycerin					
2	45.115	45.139	-0.024	17869	195.3
20 Tetryl					
1	46.695	46.719	-0.024	26661	224.2
21 PETN					
2	53.039	53.082	-0.043	28542	194.5

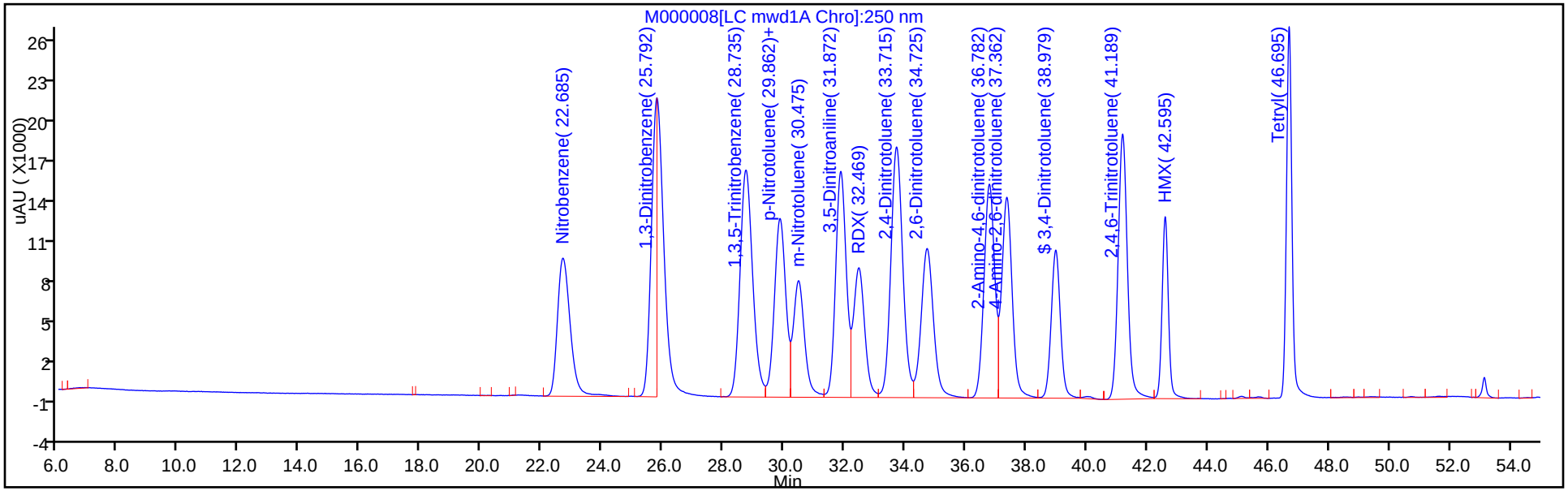
Report Date: 14-Feb-2013 07:52:18 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

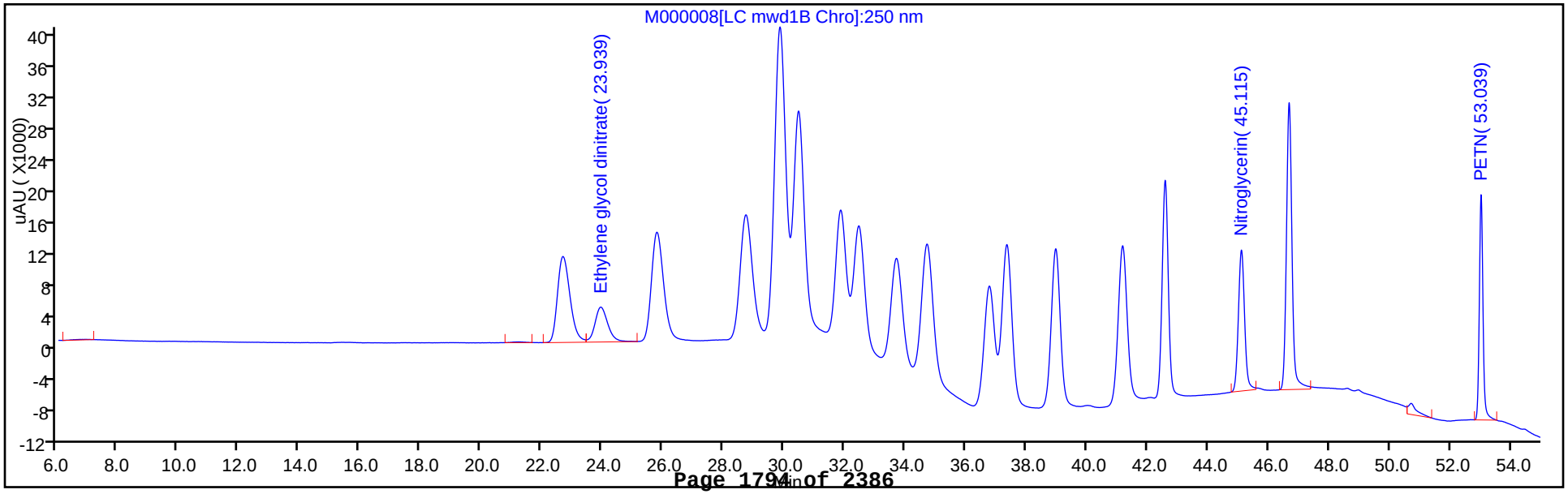
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000008.D

Injection Date:	13-Feb-2013 22:43:44	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000009.D		
Lims ID:	STD07	Client ID:	
Inject. Date:	13-Feb-2013 23:49:07	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	320-0002792-008		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	17
Lims Batch ID:	10422	Lims Sample ID:	8
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:19	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:47:59

Det	RT	EXP RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.683	22.719	-0.036	22709	469.8	
3 Ethylene glycol dinitrate						
2	23.960	23.972	-0.012	10702	489.2	
24 1,3-Dinitrobenzene						
1	25.813	25.819	-0.006	50955	480.4	
27 1,3,5-Trinitrobenzene						
1	28.773	28.749	0.024	40353	491.3	
16 o-Nitrotoluene						
1	29.913	29.882	0.031	30348	478.1	
15 p-Nitrotoluene						
1	29.913	29.882	0.031	30348	478.1	
8 m-Nitrotoluene						
1	30.523	30.496	0.027	20117	474.7	
9 3,5-Dinitroaniline						
1	31.940	31.889	0.051	38549	468.2	
19 RDX						
1	32.540	32.489	0.051	22554	459.9	
23 2,4-Dinitrotoluene						
1	33.780	33.726	0.054	43297	490.1	
12 2,6-Dinitrotoluene						
1	34.796	34.739	0.057	26403	492.3	
6 2-Amino-4,6-dinitrotoluene						
1	36.886	36.802	0.084	37876	509.1	
26 4-Amino-2,6-dinitrotoluene						
1	37.456	37.376	0.080	35468	504.4	
$ 30 3,4-Dinitrotoluene						
1	39.073	38.999	0.074	16183	303.0	

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.263	41.196	0.067	42755	486.3
11 HMX					
1	42.690	42.609	0.081	32894	503.7
7 Nitroglycerin					
2	45.223	45.139	0.084	47163	515.5
20 Tetryl					
1	46.816	46.719	0.097	57496	483.4
21 PETN					
2	53.166	53.082	0.084	75949	517.5

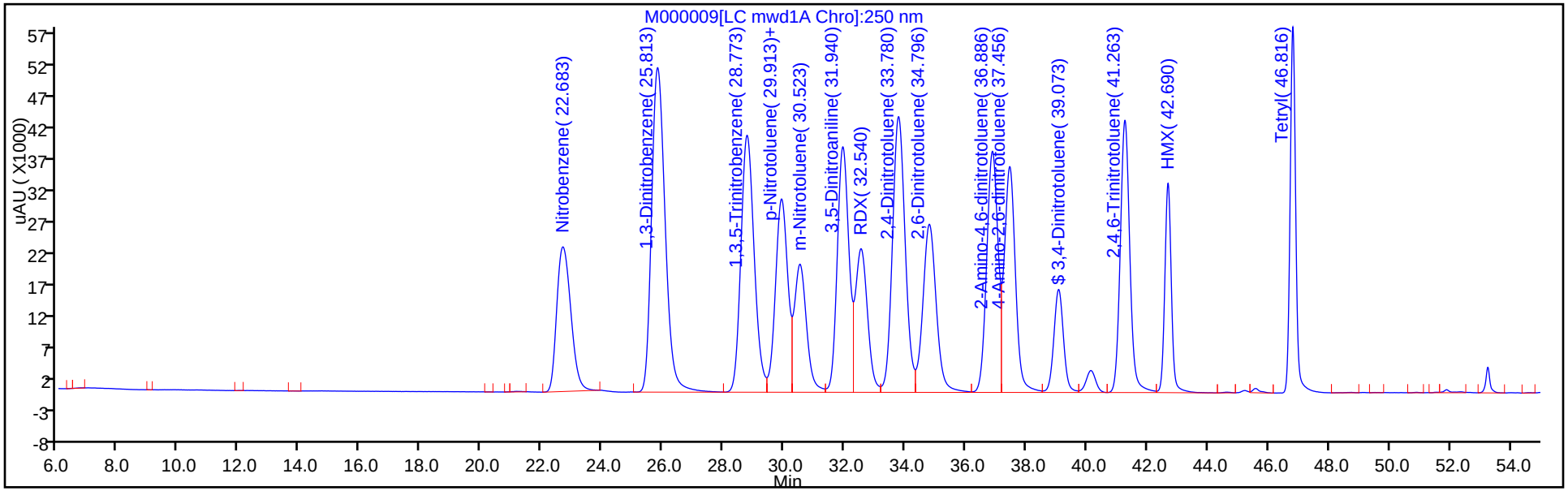
Report Date: 14-Feb-2013 07:52:19 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

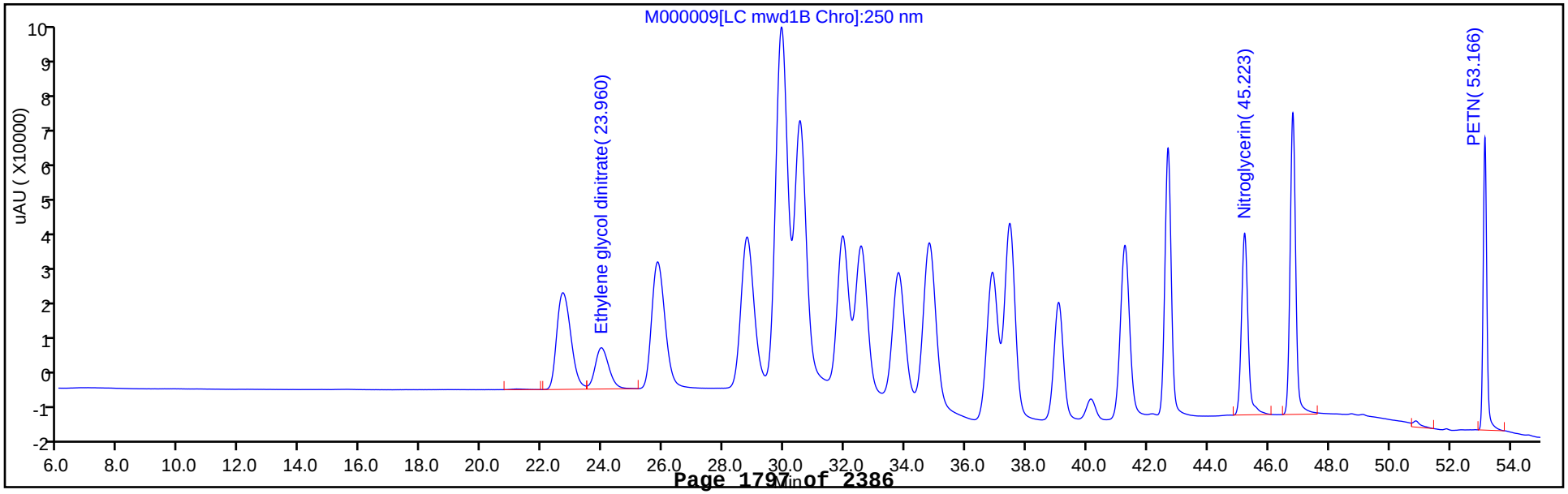
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000009.D

Injection Date:	13-Feb-2013 23:49:07	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	8
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Lims ID:	STD08	Client ID:	
Inject. Date:	14-Feb-2013 00:54:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	320-0002792-009		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	18
Lims Batch ID:	10422	Lims Sample ID:	9
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:20	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:50:54

Det	RT	EXP RT	DLT RT	Response	Flags
5 Nitrobenzene					
1	22.568	22.719	-0.151	37954	785.1
3 Ethylene glycol dinitrate					
2	23.865	23.972	-0.107	18459	843.8
24 1,3-Dinitrobenzene					
1	25.688	25.819	-0.131	87481	824.8
27 1,3,5-Trinitrobenzene					
1	28.668	28.749	-0.081	72832	886.7
16 o-Nitrotoluene					
1	29.735	29.882	-0.147	53073	836.2
15 p-Nitrotoluene					
1	29.735	29.882	-0.147	53073	836.2
8 m-Nitrotoluene					
1	30.328	30.496	-0.168	35115	828.6
9 3,5-Dinitroaniline					
1	31.755	31.889	-0.134	67286	817.3
19 RDX					
1	32.298	32.489	-0.191	39765	810.9
23 2,4-Dinitrotoluene					
1	33.595	33.726	-0.131	77286	874.8
12 2,6-Dinitrotoluene					
1	34.605	34.739	-0.134	47331	882.6
6 2-Amino-4,6-dinitrotoluene					
1	36.671	36.802	-0.131	65117	875.2
26 4-Amino-2,6-dinitrotoluene					
1	37.255	37.376	-0.121	62561	889.7
$ 30 3,4-Dinitrotoluene					
1	38.891	38.999	-0.108	24117	451.5

Det	RT	EXP RT	DLT RT	Response	Flags
25 2,4,6-Trinitrotoluene					
1	41.145	41.196	-0.051	79866	908.4
11 HMX					
1	42.541	42.609	-0.068	60901	932.5
7 Nitroglycerin					
2	45.088	45.139	-0.051	91734	1002.6
20 Tetryl					
1	46.668	46.719	-0.051	111495	937.4
21 PETN					
2	53.048	53.082	-0.034	149638	1019.6

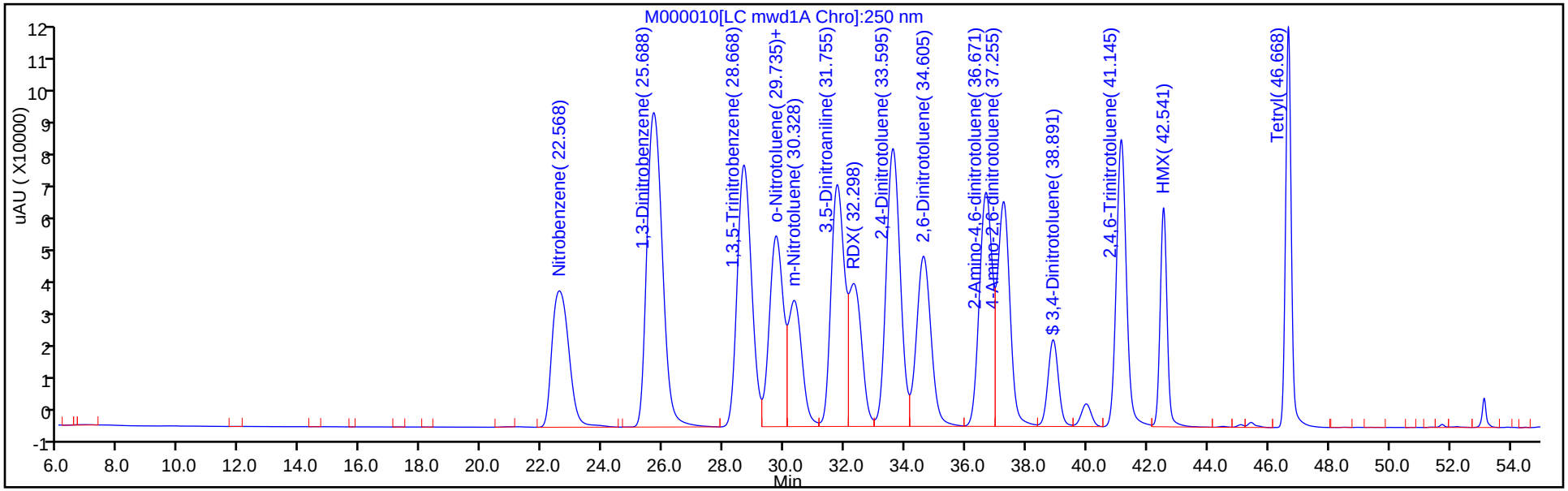
Report Date: 14-Feb-2013 07:52:20 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

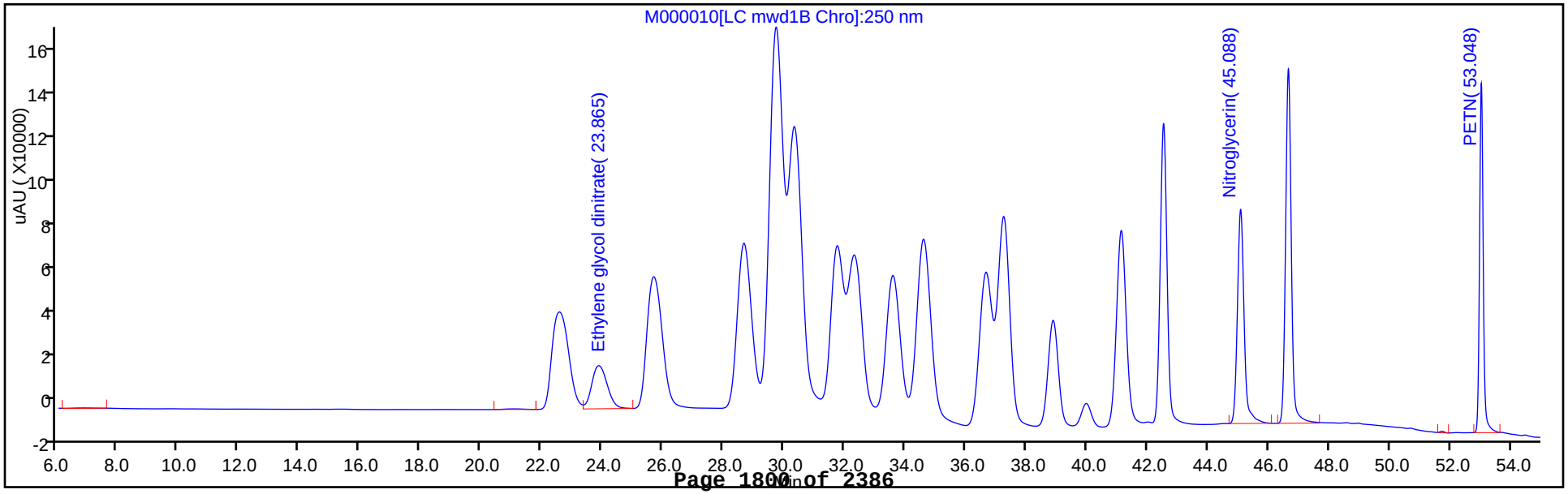
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D

Injection Date:	14-Feb-2013 00:54:32	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	9
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-1385/11 Calibration Date: 04/30/2012 23:25

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: ID: Calib End Date: 04/30/2012 21:31

Lab File ID: M-011.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	98.20		5.21	5.00	4.2	
RDX	Ave	94.00	104.4		5.55	5.00	11.1	
1,3,5-Trinitrobenzene	Ave	215.4	228.0		5.29	5.00	5.8	
Picric acid	Ave	189.5	248.9		13.1	10.0	31.3	
1,3-Dinitrobenzene	Ave	228.7	234.4		5.13	5.00	2.5	
3,5-Dinitroaniline	Ave	150.4	155.4		5.16	5.00	3.3	
Nitrobenzene	Ave	98.42	98.60		5.01	5.00	0.2	
Tetryl	Ave	122.8	121.4		4.94	5.00	-1.1	
Nitroglycerin	Ave	90.04	84.60		4.70	5.00	-6.0	
2,4,6-Trinitrotoluene	Ave	129.9	128.6		4.95	5.00	-1.0	
4-Amino-2,6-dinitrotoluene	Ave	104.3	106.2		5.09	5.00	1.8	
2-Amino-4,6-dinitrotoluene	Ave	115.7	120.8		5.22	5.00	4.4	
2,6-Dinitrotoluene	Ave	79.69	83.20		5.22	5.00	4.4	
2,4-Dinitrotoluene	Ave	130.5	133.0		5.09	5.00	1.9	
2-Nitrotoluene	Ave	51.81	49.00		4.73	5.00	-5.4	
4-Nitrotoluene	Ave	66.41	66.40		5.00	5.00	-0.0	
3-Nitrotoluene	Ave	65.43	67.40		5.15	5.00	3.0	
PETN	Ave	51.32	45.40		4.42	5.00	-11.5	
Ethylene glycol dinitrate	None				0.500	5.00	-100.0	
3,4-Dinitrotoluene	Ave	69.81	72.60		5.20	5.00	4.0	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-1385/11 Calibration Date: 04/30/2012 23:25

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: ID: Calib End Date: 04/30/2012 21:31

Lab File ID: M-011.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.38	20.16	20.66
RDX	23.63	23.40	23.90
1,3,5-Trinitrobenzene	25.58	25.35	25.85
Picric acid	25.93	25.67	26.17
1,3-Dinitrobenzene	28.30	28.07	28.57
3,5-Dinitroaniline	29.42	29.20	29.70
Nitrobenzene	29.91	29.67	30.17
Tetryl	30.22	30.00	30.50
Nitroglycerin	30.69	30.49	30.99
2,4,6-Trinitrotoluene	31.43	31.23	31.73
4-Amino-2,6-dinitrotoluene	32.41	32.21	32.71
2-Amino-4,6-dinitrotoluene	33.11	32.90	33.40
2,6-Dinitrotoluene	34.33	34.12	34.62
2,4-Dinitrotoluene	34.72	34.51	35.01
2-Nitrotoluene	37.59	37.40	37.90
4-Nitrotoluene	38.80	38.62	39.12
3-Nitrotoluene	40.31	40.11	40.61
PETN	40.94	40.77	41.27
Ethylene glycol dinitrate			
3,4-Dinitrotoluene	32.76	32.56	33.06

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20120531-303.b\M-011.D
Lims ID: LODV 5ng/mL Client ID:
Inject. Date: 30-Apr-2012 23:25:29 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: STD_01 HP8330L1_00001 5 ng/mL;2;
Misc. Info.:
Operator: RN Instrument ID: LC11
Injection Vol: 500.0 ul ALS Bottle#: 11
Lims Batch ID: 1385 Lims Sample ID: 11

Method: \\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m
Last Update: 18-Sep-2012 15:38:25 Calib Date: 30-Apr-2012 21:31:38
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC11\20120531-303.b\M-009.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK014

First Level Reviewer: noonanr Date: 04-Jun-2012 09:29:48

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.378	20.410	-0.032	491	5.21	
19 RDX						
1	23.625	23.647	-0.022	522	5.55	
27 1,3,5-Trinitrobenzene						
1	25.578	25.600	-0.022	1140	5.29	
10 2,4,6-Trinitrophenol						M
2	25.931	25.923	0.008	2489	13.1	M
1	25.938	25.923	0.015	1309	10.6	
24 1,3-Dinitrobenzene						
1	28.298	28.323	-0.025	1172	5.13	
9 3,5-Dinitroaniline						
1	29.415	29.453	-0.038	777	5.16	
5 Nitrobenzene						
1	29.905	29.920	-0.015	493	5.01	
20 Tetryl						
1	30.215	30.250	-0.035	607	4.94	
7 Nitroglycerin						
2	30.688	30.743	-0.055	423	4.70	
25 2,4,6-Trinitrotoluene						
1	31.431	31.477	-0.046	643	4.95	
26 4-Amino-2,6-dinitrotoluene						
1	32.411	32.457	-0.046	531	5.09	
$ 30 3,4-Dinitrotoluene						
1	32.755	32.810	-0.055	363	5.20	
2	32.761	32.807	-0.046	663	5.14	
6 2-Amino-4,6-dinitrotoluene						
1	33.105	33.147	-0.042	604	5.22	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
12 2,6-Dinitrotoluene						
1	34.328	34.373	-0.045	416	5.22	
23 2,4-Dinitrotoluene						
1	34.715	34.760	-0.045	665	5.09	
16 o-Nitrotoluene						
1	37.591	37.646	-0.055	245	4.73	
15 p-Nitrotoluene						
1	38.795	38.866	-0.071	332	5.00	
8 m-Nitrotoluene						
1	40.308	40.356	-0.048	337	5.15	
21 PETN						
2	40.935	41.016	-0.081	227	4.42	

QC Flag Legend

Review Flags
M - Manually Integrated

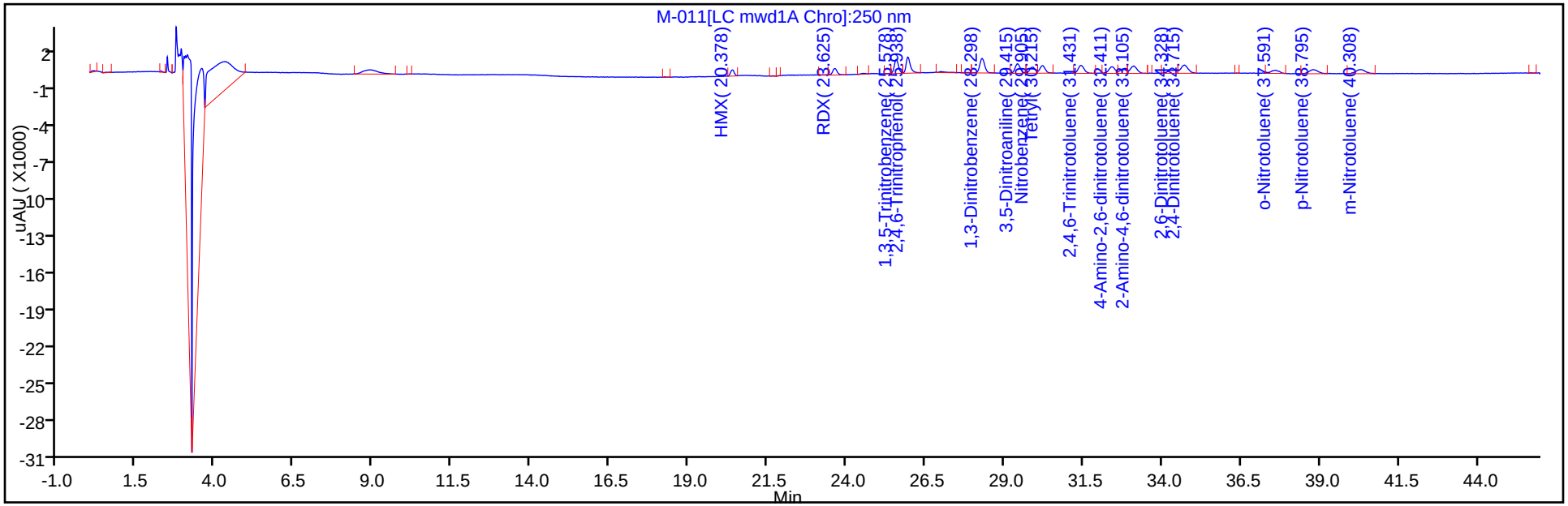
Report Date: 18-Sep-2012 15:38:38 Chrom Revision: 2.1 16-Sep-2012 09:37:06

TestAmerica West Sacramento

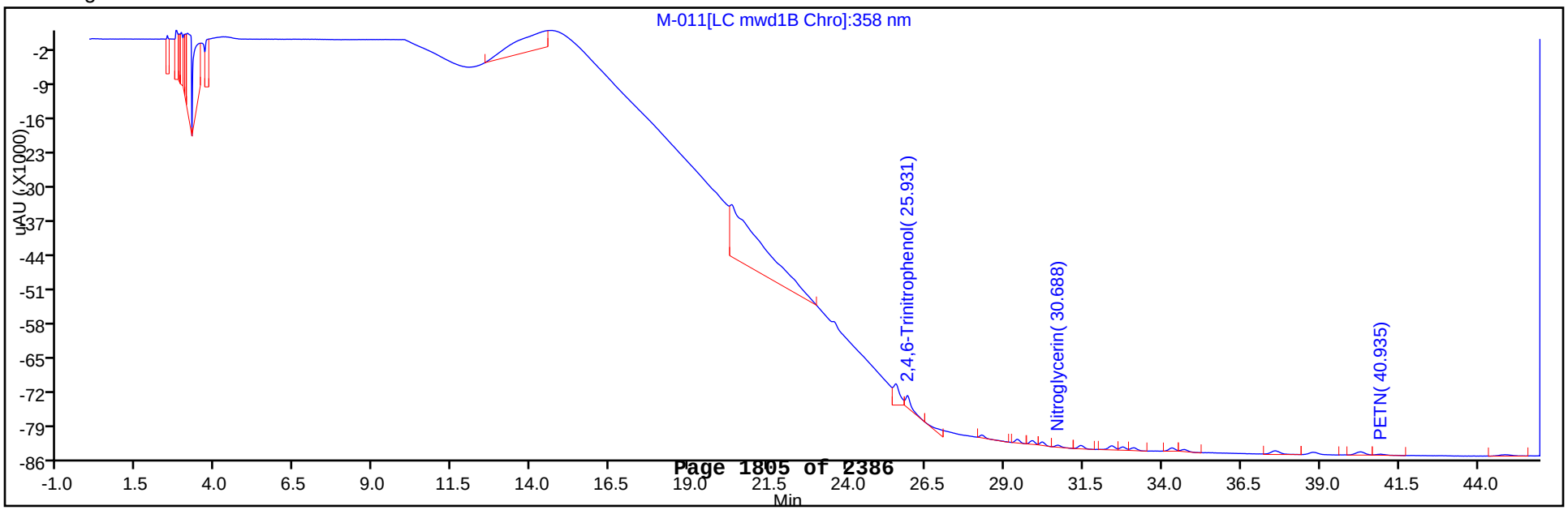
Data File: \\SACChrom\ChromData\LC11\20120531-303.b\M-011.D

Injection Date:	30-Apr-2012 23:25:29	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

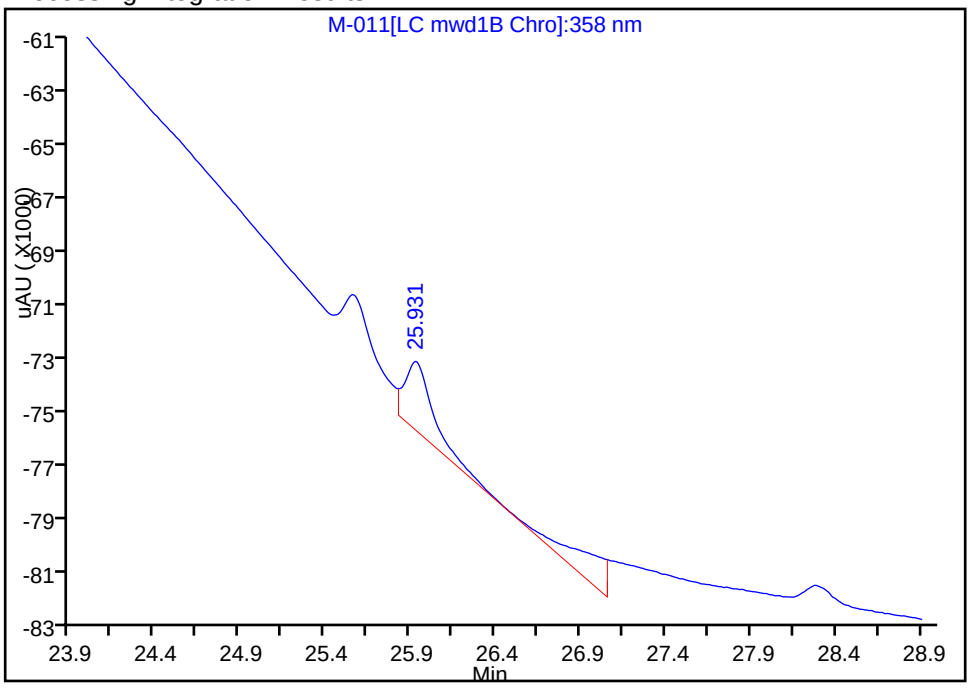
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-011.D		
Injection Date:	30-Apr-2012 23:25:29	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

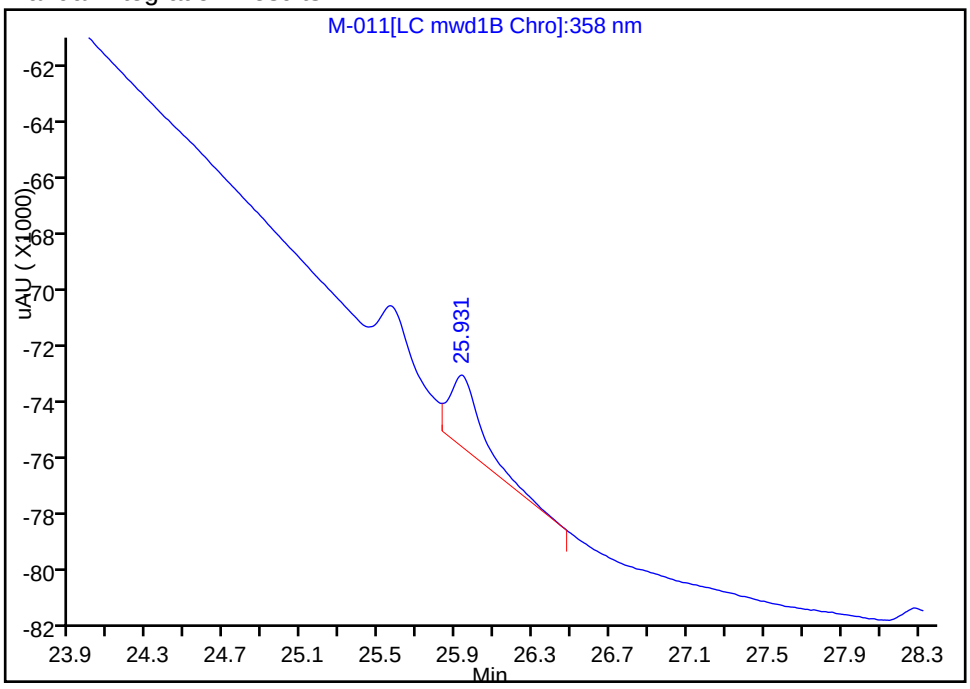
Processing Integration Results

RT: 25.93
Response: 2490
Amount: 13.138858



Manual Integration Results

RT: 25.93
Response: 2489
Amount: 13.133581



Reviewer: noonanr, 27-Aug-2012 16:05:14
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-1385/13 Calibration Date: 05/01/2012 10:50

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: ID: Calib End Date: 04/30/2012 21:31

Lab File ID: I-003.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	99.06		210	200	5.1	20.0
RDX	Ave	94.00	95.05		202	200	1.1	20.0
1,3,5-Trinitrobenzene	Ave	215.4	214.7		199	200	-0.3	20.0
Picric acid	Ave	189.5	177.1		467	500	-6.6	20.0
1,3-Dinitrobenzene	Ave	228.7	219.7		192	200	-3.9	20.0
3,5-Dinitroaniline	Ave	150.4	153.6		204	200	2.1	20.0
Nitrobenzene	Ave	98.42	99.15		201	200	0.7	20.0
Tetryl	Ave	122.8	128.2		209	200	4.4	20.0
Nitroglycerin	Ave	90.04	98.54		219	200	9.4	20.0
2,4,6-Trinitrotoluene	Ave	129.9	130.2		200	200	0.2	20.0
4-Amino-2,6-dinitrotoluene	Ave	104.3	100.3		192	200	-3.8	20.0
2-Amino-4,6-dinitrotoluene	Ave	115.7	113.0		195	200	-2.4	20.0
2,6-Dinitrotoluene	Ave	79.69	77.72		195	200	-2.5	20.0
2,4-Dinitrotoluene	Ave	130.5	127.8		196	200	-2.1	20.0
2-Nitrotoluene	Ave	51.81	51.14		197	200	-1.3	20.0
4-Nitrotoluene	Ave	66.41	67.20		202	200	1.2	20.0
3-Nitrotoluene	Ave	65.43	66.22		202	200	1.2	20.0
PETN	Ave	51.32	55.23		215	200	7.6	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-1385/13 Calibration Date: 05/01/2012 10:50

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: ID: Calib End Date: 04/30/2012 21:31

Lab File ID: I-003.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.45	20.16	20.66
RDX	23.66	23.40	23.90
1,3,5-Trinitrobenzene	25.60	25.35	25.85
Picric acid	25.91	25.67	26.17
1,3-Dinitrobenzene	28.32	28.07	28.57
3,5-Dinitroaniline	29.45	29.20	29.70
Nitrobenzene	29.91	29.67	30.17
Tetryl	30.24	30.00	30.50
Nitroglycerin	30.72	30.49	30.99
2,4,6-Trinitrotoluene	31.46	31.23	31.73
4-Amino-2,6-dinitrotoluene	32.44	32.21	32.71
2-Amino-4,6-dinitrotoluene	33.12	32.90	33.40
2,6-Dinitrotoluene	34.34	34.12	34.62
2,4-Dinitrotoluene	34.73	34.51	35.01
2-Nitrotoluene	37.60	37.40	37.90
4-Nitrotoluene	38.82	38.62	39.12
3-Nitrotoluene	40.31	40.11	40.61
PETN	40.96	40.77	41.27

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\I-003.D		
Lims ID:	ICV	Client ID:	
Inject. Date:	01-May-2012 10:50:11	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	STD_ICV HP8330IC_00002 200 ng/mL;2;		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	11
Lims Batch ID:	1385	Lims Sample ID:	13
Sublist:			
Method:	\\SACChrom\ChromData\LC11\20120531-303.b\8330 Metab LC11.m		
Last Update:	18-Sep-2012 15:38:25	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK014		
First Level Reviewer: noonanr		Date:	04-Jun-2012 13:30:48

Det	RT	RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.448	20.410	0.038	19811	210.3	
19 RDX						
1	23.658	23.647	0.011	19009	202.2	
27 1,3,5-Trinitrobenzene						
1	25.598	25.600	-0.002	42943	199.4	
10 2,4,6-Trinitrophenol						M
2	25.905	25.923	-0.018	88530	467.1	M
1	25.905	25.923	-0.018	61200	495.0	
24 1,3-Dinitrobenzene						
1	28.315	28.323	-0.008	43931	192.1	
9 3,5-Dinitroaniline						
1	29.445	29.453	-0.008	30713	204.1	
5 Nitrobenzene						
1	29.905	29.920	-0.015	19829	201.5	
20 Tetryl						
1	30.235	30.250	-0.015	25645	208.9	
7 Nitroglycerin						
2	30.721	30.743	-0.022	19707	218.9	
25 2,4,6-Trinitrotoluene						
1	31.458	31.477	-0.019	26044	200.5	
26 4-Amino-2,6-dinitrotoluene						
1	32.435	32.457	-0.022	20066	192.3	
6 2-Amino-4,6-dinitrotoluene						
1	33.121	33.147	-0.026	22594	195.3	
12 2,6-Dinitrotoluene						
1	34.341	34.373	-0.032	15543	195.1	

Det	RT	RT	DLT RT	Response	ng/ml	Flags
23 2,4-Dinitrotoluene						
1	34.728	34.760	-0.032	25562	195.8	
16 o-Nitrotoluene						
1	37.601	37.646	-0.045	10228	197.4	
15 p-Nitrotoluene						
1	38.821	38.866	-0.045	13439	202.4	
8 m-Nitrotoluene						
1	40.308	40.356	-0.048	13244	202.4	
21 PETN						
2	40.958	41.016	-0.058	11045	215.2	

QC Flag Legend

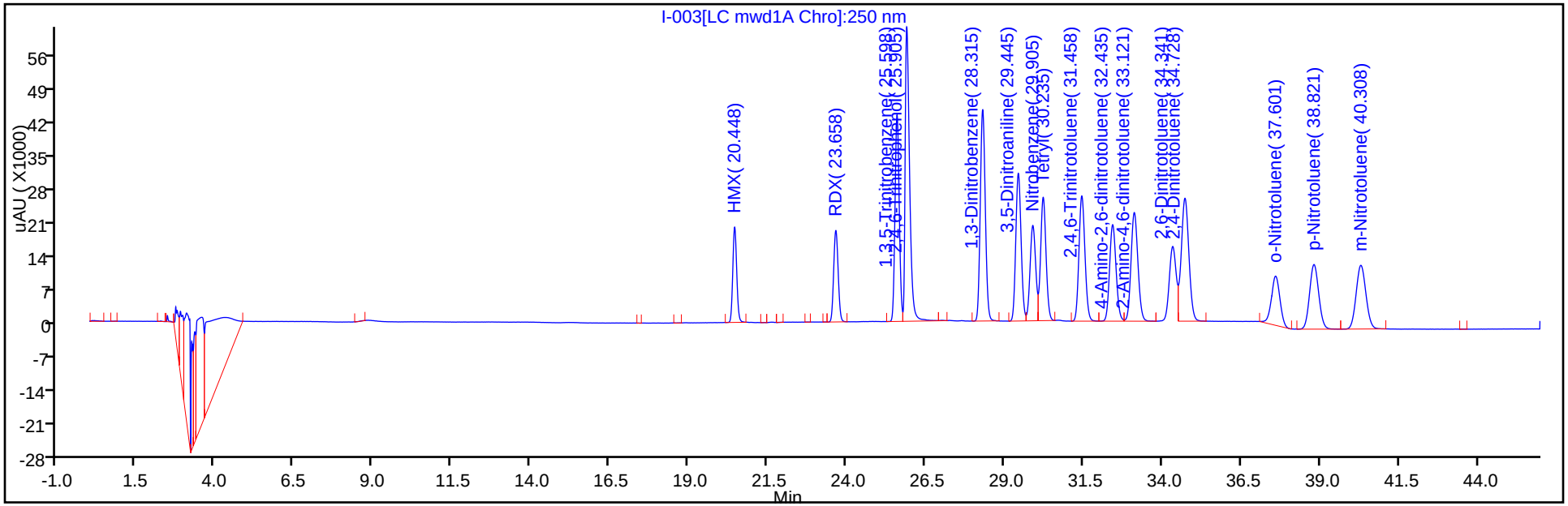
Review Flags
M - Manually Integrated

Report Date: 18-Sep-2012 15:38:40 Chrom Revision: 2.1 16-Sep-2012 09:37:06

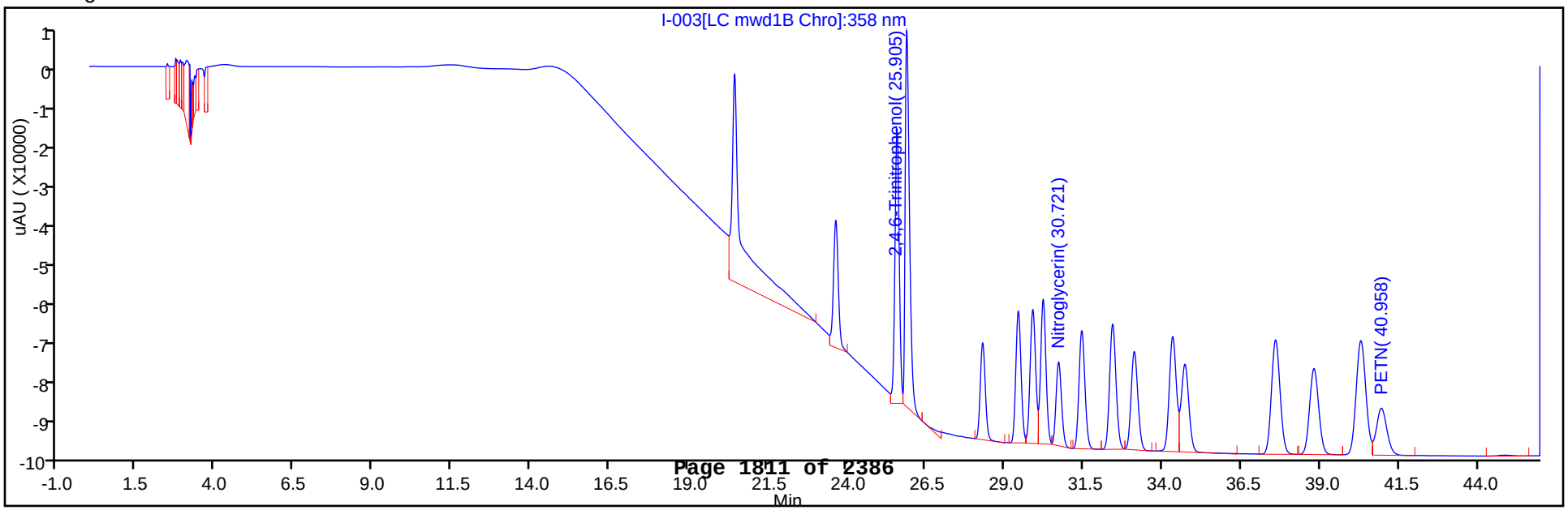
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\I-003.D		
Injection Date:	01-May-2012 10:50:11	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	13
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

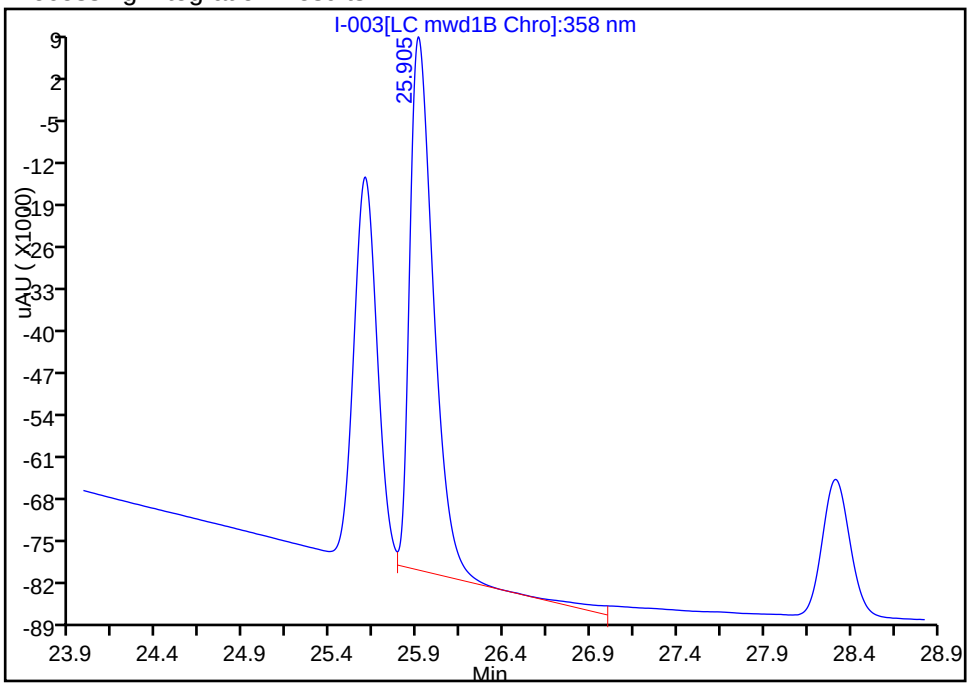
TestAmerica West Sacramento

Data File:	\\SACChrom\ChromData\LC11\20120531-303.b\I-003.D		
Injection Date:	01-May-2012 10:50:11	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	1385	Lims Sample ID:	13
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:		Column Dia:	

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 25.92, Det: LC mwd1B

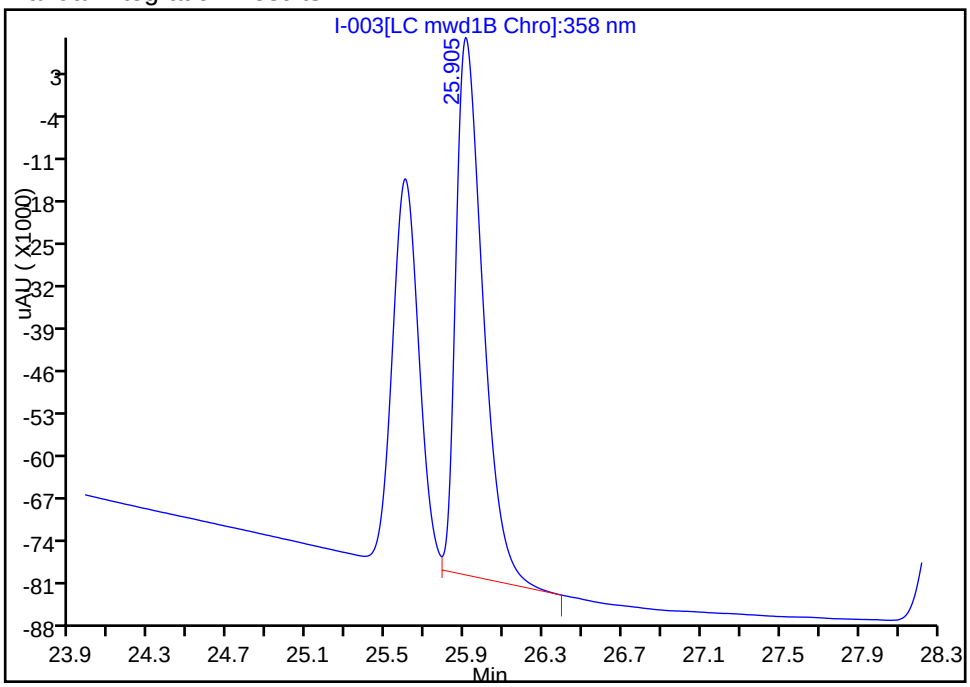
Processing Integration Results

RT: 25.90
Response: 88532
Amount: 467.1524



Manual Integration Results

RT: 25.90
Response: 88530
Amount: 467.1418



Reviewer: noonanr, 27-Aug-2012 16:13:46
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14179/23 Calibration Date: 04/13/2013 09:52

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000023.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	91.19		96.8	100	-3.2	20.0
RDX	Ave	94.00	89.73		95.5	100	-4.5	20.0
1,3,5-Trinitrobenzene	Ave	215.4	202.1		93.8	100	-6.2	20.0
Picric acid	Ave	189.5	182.7		241	250	-3.6	20.0
1,3-Dinitrobenzene	Ave	228.7	216.2		94.6	100	-5.4	20.0
3,5-Dinitroaniline	Ave	150.4	136.3		90.6	100	-9.4	20.0
Nitrobenzene	Ave	98.42	92.48		94.0	100	-6.0	20.0
Tetryl	Ave	122.8	116.2		94.6	100	-5.4	20.0
Nitroglycerin	Ave	90.04	86.18		95.7	100	-4.3	20.0
2,4,6-Trinitrotoluene	Ave	129.9	124.2		95.6	100	-4.4	20.0
4-Amino-2,6-dinitrotoluene	Ave	104.3	95.43		91.5	100	-8.5	20.0
2-Amino-4,6-dinitrotoluene	Ave	115.7	107.8		93.2	100	-6.8	20.0
2,6-Dinitrotoluene	Ave	79.69	74.96		94.1	100	-5.9	20.0
2,4-Dinitrotoluene	Ave	130.5	125.4		96.1	100	-3.9	20.0
2-Nitrotoluene	Ave	51.81	52.24		101	100	0.8	20.0
4-Nitrotoluene	Ave	66.41	66.71		100	100	0.4	20.0
3-Nitrotoluene	Ave	65.43	65.54		100	100	0.2	20.0
PETN	Ave	51.32	57.29		112	100	11.6	20.0
3,4-Dinitrotoluene	Ave	69.81	68.60		98.3	100	-1.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14179/23 Calibration Date: 04/13/2013 09:52

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000023.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.21	19.96	20.46
RDX	23.45	23.20	23.70
1,3,5-Trinitrobenzene	25.35	25.10	25.60
Picric acid	25.81	25.56	26.06
1,3-Dinitrobenzene	28.05	27.80	28.30
3,5-Dinitroaniline	29.19	28.94	29.44
Nitrobenzene	29.59	29.34	29.84
Tetryl	29.91	29.66	30.16
Nitroglycerin	30.34	30.09	30.59
2,4,6-Trinitrotoluene	31.07	30.82	31.32
4-Amino-2,6-dinitrotoluene	32.09	31.84	32.34
2-Amino-4,6-dinitrotoluene	32.76	32.51	33.01
2,6-Dinitrotoluene	33.89	33.64	34.14
2,4-Dinitrotoluene	34.27	34.02	34.52
2-Nitrotoluene	37.04	36.79	37.29
4-Nitrotoluene	38.22	37.97	38.47
3-Nitrotoluene	39.64	39.39	39.89
PETN	40.11	39.86	40.36
3,4-Dinitrotoluene	32.43	32.18	32.68

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000023.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	13-Apr-2013 09:52:41	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003856-023		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	3
Lims Batch ID:	14179	Lims Sample ID:	23
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 08:56:27	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer:	russellk	Date:	15-Apr-2013 10:30:23

Det	RT	EXP RT	DLT RT	Response		Flags
11 HMX						
1	20.212	20.212	0.0	9119	96.8	
19 RDX						
1	23.449	23.449	0.0	8973	95.5	
27 1,3,5-Trinitrobenzene						
1	25.346	25.346	0.0	20212	93.8	
10 2,4,6-Trinitrophenol						
2	25.812	25.812	0.0	45671	241.0	
1	25.812	25.812	0.0	31233	252.6	
24 1,3-Dinitrobenzene						
1	28.052	28.052	0.0	21624	94.6	
9 3,5-Dinitroaniline						
1	29.186	29.186	0.0	13626	90.6	
5 Nitrobenzene						
1	29.586	29.586	0.0	9248	94.0	
20 Tetryl						
1	29.906	29.906	0.0	11621	94.6	
7 Nitroglycerin						M
2	30.342	30.342	0.0	8618	95.7	M
25 2,4,6-Trinitrotoluene						
1	31.069	31.069	0.0	12416	95.6	
26 4-Amino-2,6-dinitrotoluene						
1	32.086	32.086	0.0	9543	91.5	
$ 30 3,4-Dinitrotoluene						M
1	32.429	32.429	0.0	6860	98.3	
2	32.426	32.426	0.0	13352	103.4	M
6 2-Amino-4,6-dinitrotoluene						
1	32.759	32.759	0.0	10782	93.2	

Det	RT	EXP RT	DLT RT	Response	Flags
12 2,6-Dinitrotoluene					
1	33.886	33.886	0.0	7496	94.1
23 2,4-Dinitrotoluene					
1	34.269	34.269	0.0	12539	96.1
16 o-Nitrotoluene					
1	37.035	37.035	0.0	5224	100.8
15 p-Nitrotoluene					
1	38.219	38.219	0.0	6671	100.4
8 m-Nitrotoluene					
1	39.639	39.639	0.0	6554	100.2
21 PETN					
2	40.109	40.109	0.0	5729	111.6

QC Flag Legend

Review Flags
M - Manually Integrated

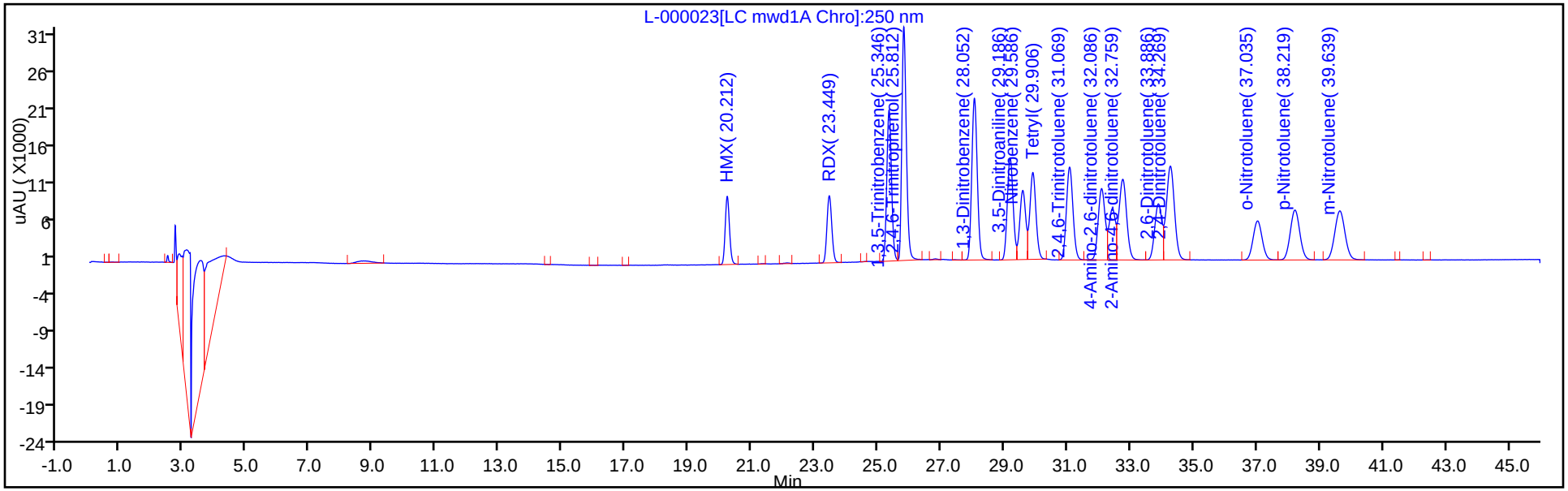
Report Date: 16-Apr-2013 08:56:28 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

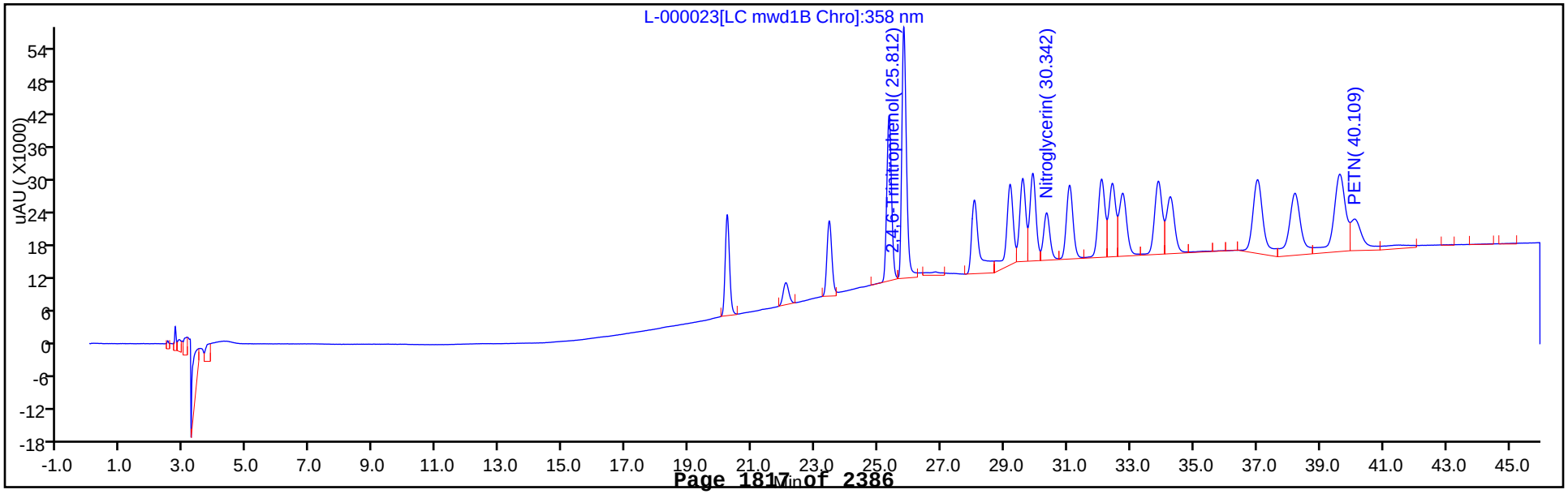
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000023.D

Injection Date:	13-Apr-2013 09:52:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	23
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

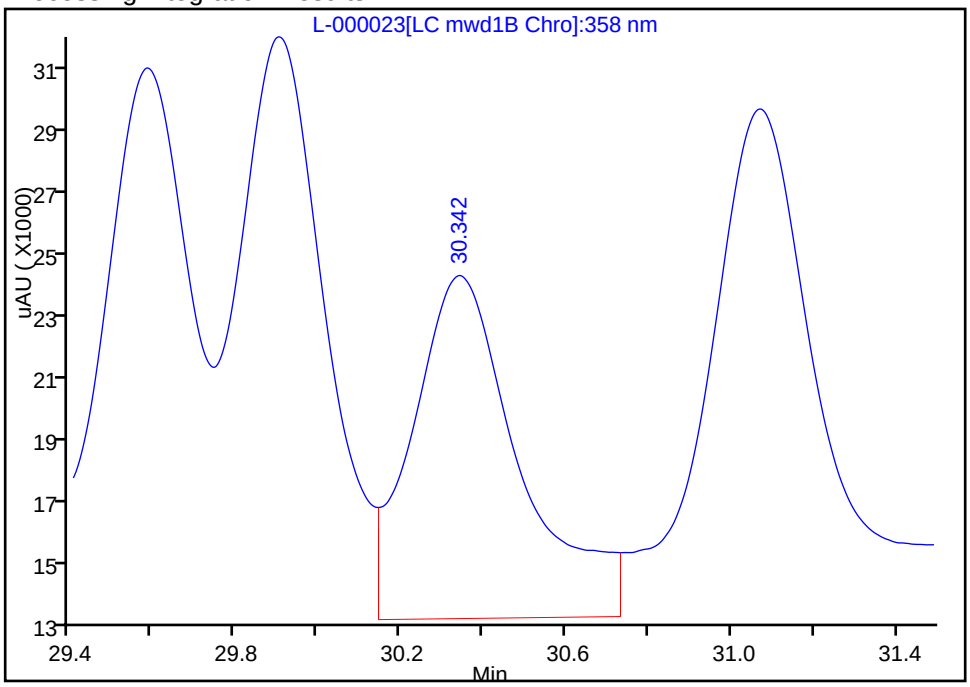
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000023.D		
Injection Date:	13-Apr-2013 09:52:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	23
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

7 Nitroglycerin, Signal: 1, Type: quant, RT: 30.34, Det: LC mwd1B

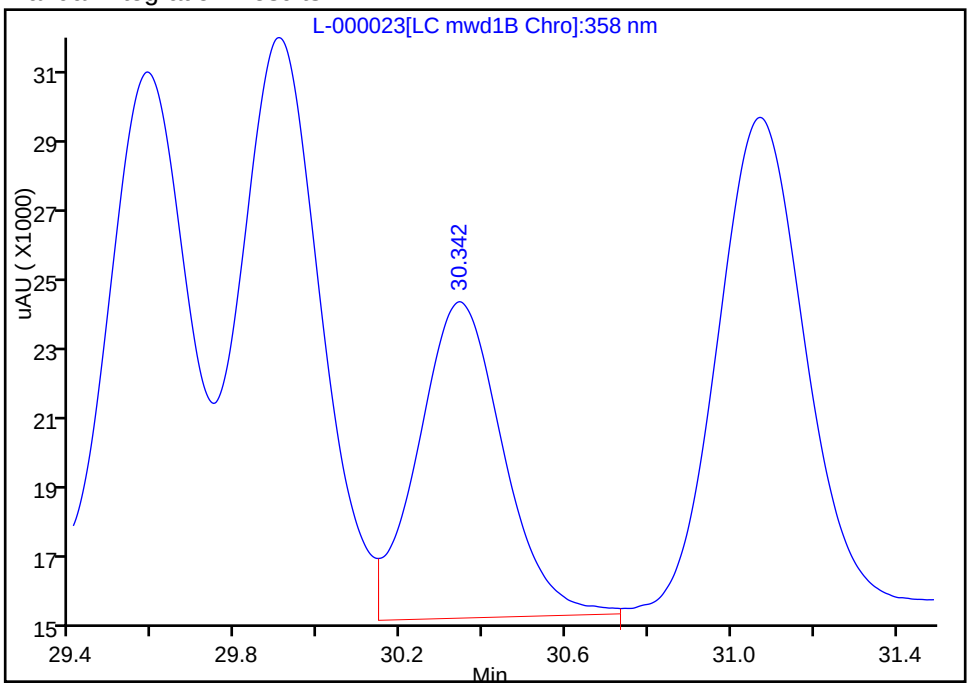
Processing Integration Results

RT: 30.34
Response: 10342
Amount: 114.8613



Manual Integration Results

RT: 30.34
Response: 8618
Amount: 95.714079



Reviewer: noonanr, 16-Apr-2013 08:56:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

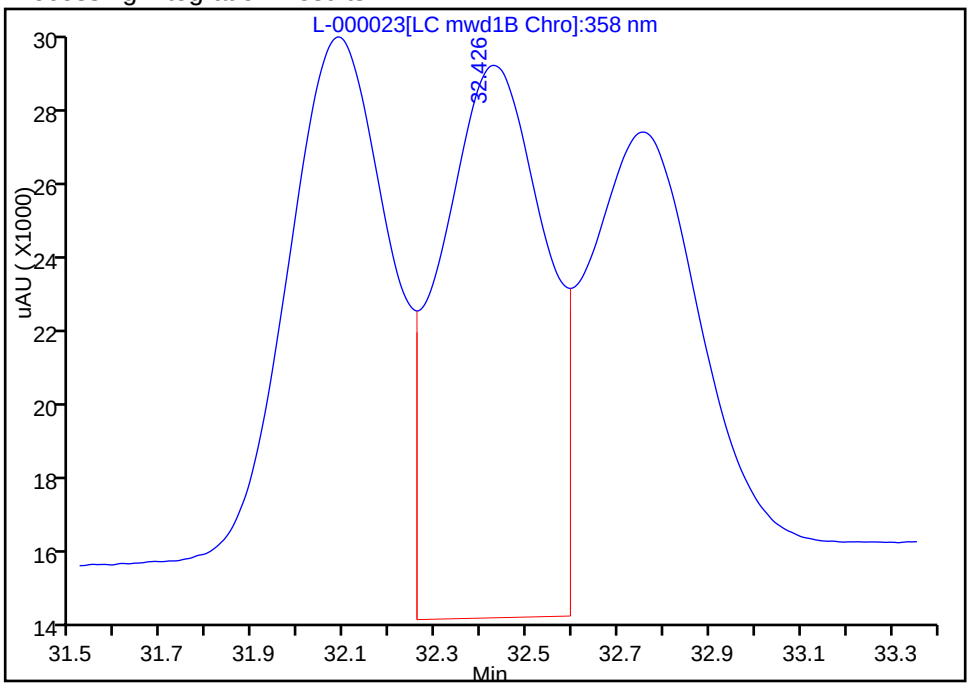
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000023.D		
Injection Date:	13-Apr-2013 09:52:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	23
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 2, Type: quant, RT: 32.43, Det: LC mwd1B

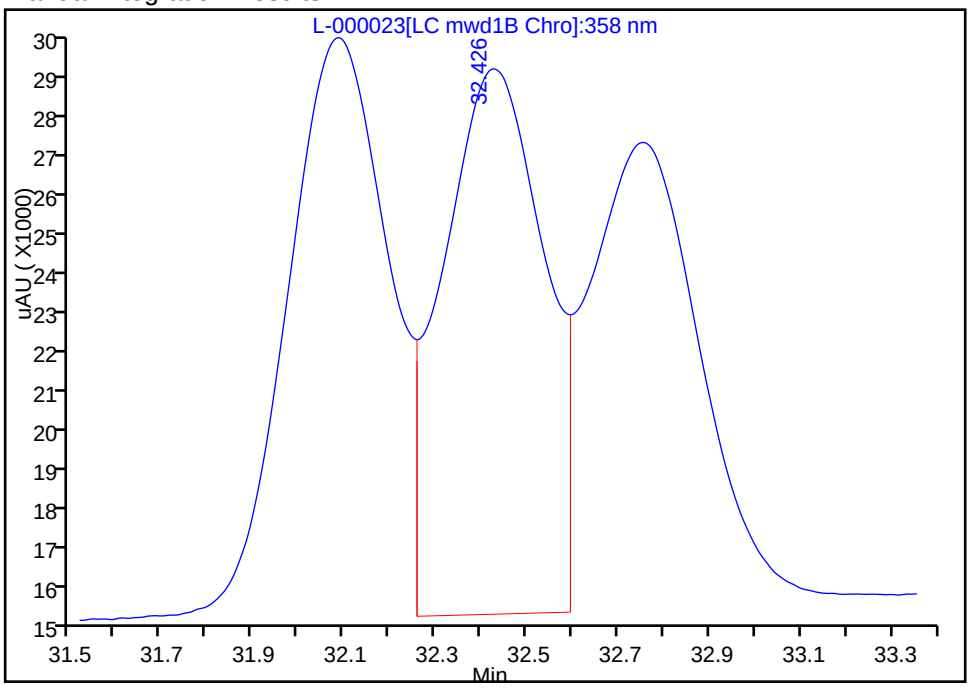
Processing Integration Results

RT: 32.43
Response: 14910
Amount: 115.4839



Manual Integration Results

RT: 32.43
Response: 13352
Amount: 103.4166



Reviewer: noonanr, 16-Apr-2013 08:56:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14179/24 Calibration Date: 04/13/2013 10:49

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000024.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	99.40		5.28	5.00	5.5	30.0
RDX	Ave	94.00	103.2		5.49	5.00	9.8	30.0
1,3,5-Trinitrobenzene	Ave	215.4	225.0		5.22	5.00	4.5	30.0
1,3-Dinitrobenzene	Ave	228.7	232.8		5.09	5.00	1.8	30.0
3,5-Dinitroaniline	Ave	150.4	144.8		4.81	5.00	-3.8	30.0
Nitrobenzene	Ave	98.42	92.00		4.67	5.00	-6.5	30.0
Tetryl	Ave	122.8	114.6		4.67	5.00	-6.7	30.0
Nitroglycerin	Ave	90.04	84.90		18.9	20.0	-5.7	30.0
2,4,6-Trinitrotoluene	Ave	129.9	126.0		4.85	5.00	-3.0	30.0
4-Amino-2,6-dinitrotoluene	Ave	104.3	105.8		5.07	5.00	1.4	30.0
2-Amino-4,6-dinitrotoluene	Ave	115.7	121.2		5.24	5.00	4.7	30.0
2,6-Dinitrotoluene	Ave	79.69	83.40		5.23	5.00	4.7	30.0
2,4-Dinitrotoluene	Ave	130.5	133.0		5.09	5.00	1.9	30.0
2-Nitrotoluene	Ave	51.81	52.40		5.06	5.00	1.1	30.0
4-Nitrotoluene	Ave	66.41	63.60		4.79	5.00	-4.2	30.0
3-Nitrotoluene	Ave	65.43	67.60		5.17	5.00	3.3	30.0
PETN	Ave	51.32	59.80		23.3	20.0	16.5	30.0
3,4-Dinitrotoluene	Ave	69.81	66.00		18.9	20.0	-5.5	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14179/24 Calibration Date: 04/13/2013 10:49

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000024.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.20	19.95	20.45
RDX	23.45	23.20	23.70
1,3,5-Trinitrobenzene	25.35	25.10	25.60
1,3-Dinitrobenzene	28.05	27.80	28.30
3,5-Dinitroaniline	29.20	28.95	29.45
Nitrobenzene	29.58	29.33	29.83
Tetryl	29.91	29.66	30.16
Nitroglycerin	30.36	30.11	30.61
2,4,6-Trinitrotoluene	31.09	30.84	31.34
4-Amino-2,6-dinitrotoluene	32.10	31.85	32.35
2-Amino-4,6-dinitrotoluene	32.78	32.53	33.03
2,6-Dinitrotoluene	33.91	33.66	34.16
2,4-Dinitrotoluene	34.30	34.05	34.55
2-Nitrotoluene	37.06	36.81	37.31
4-Nitrotoluene	38.23	37.98	38.48
3-Nitrotoluene	39.68	39.43	39.93
PETN	40.18	39.93	40.43
3,4-Dinitrotoluene	32.45	32.20	32.70

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000024.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	13-Apr-2013 10:49:48	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003856-024		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	7
Lims Batch ID:	14179	Lims Sample ID:	24
Sublist:	chrom-8330 Metab LC11*sub4		
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 08:57:13	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer: russellk		Date:	15-Apr-2013 09:24:02

Det	RT	EXP RT	DLT RT	Response		Flags
11 HMX						
1	20.200	20.200	0.0	497	5.28	
19 RDX						
1	23.453	23.453	0.0	516	5.49	
27 1,3,5-Trinitrobenzene						
1	25.346	25.346	0.0	1125	5.22	
24 1,3-Dinitrobenzene						
1	28.050	28.050	0.0	1164	5.09	
9 3,5-Dinitroaniline						
1	29.196	29.196	0.0	724	4.81	
5 Nitrobenzene						
1	29.580	29.580	0.0	460	4.67	
20 Tetryl						
1	29.910	29.910	0.0	573	4.67	
7 Nitroglycerin						
2	30.360	30.360	0.0	1698	18.9	
25 2,4,6-Trinitrotoluene						
1	31.086	31.086	0.0	630	4.85	
26 4-Amino-2,6-dinitrotoluene						
1	32.096	32.096	0.0	529	5.07	
$ 30 3,4-Dinitrotoluene						M
1	32.446	32.446	0.0	1320	18.9	
2	32.450	32.450	0.0	2829	21.9	M
6 2-Amino-4,6-dinitrotoluene						
1	32.783	32.783	0.0	606	5.24	
12 2,6-Dinitrotoluene						
1	33.913	33.913	0.0	417	5.23	

Det	RT	EXP RT	DLT RT	Response	Flags
23 2,4-Dinitrotoluene					
1	34.300	34.300	0.0	665	5.09
16 o-Nitrotoluene					
1	37.063	37.063	0.0	262	5.06
15 p-Nitrotoluene					
1	38.233	38.233	0.0	318	4.79
8 m-Nitrotoluene					
1	39.676	39.676	0.0	338	5.17
21 PETN					
2	40.183	40.183	0.0	1196	23.3

QC Flag Legend

Review Flags
M - Manually Integrated

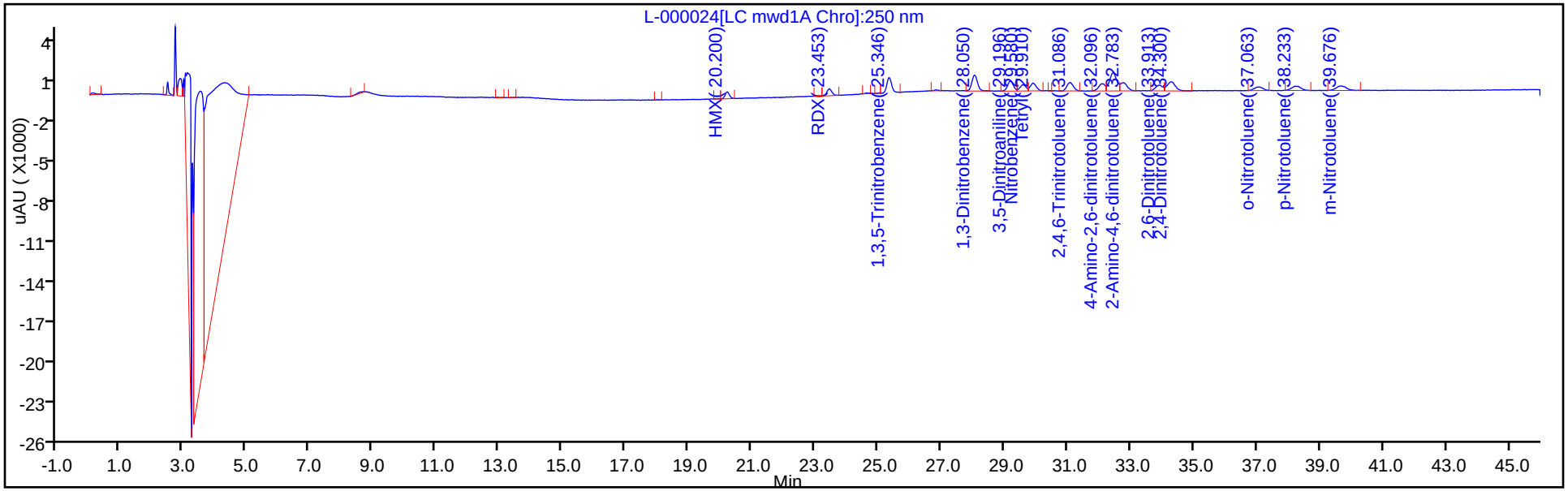
Report Date: 16-Apr-2013 08:57:13 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

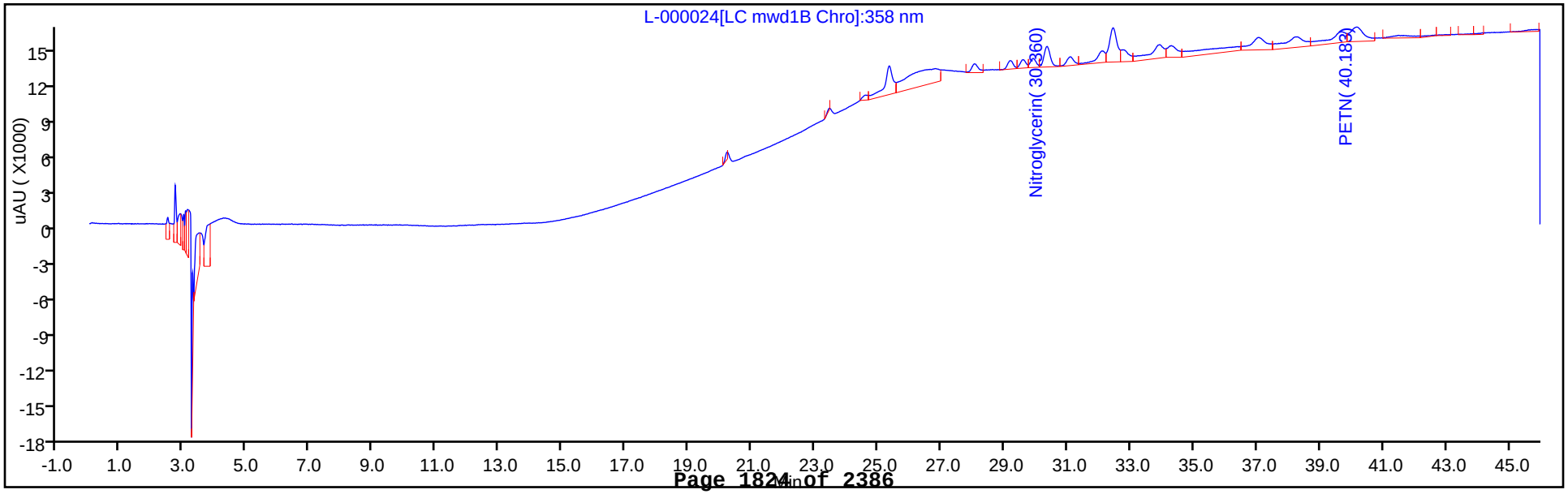
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000024.D

Injection Date:	13-Apr-2013 10:49:48	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	24
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Report Date: 16-Apr-2013 08:57:14 Chrom Revision: 2.1 07-Apr-2013 20:36:54

Manual Integration/User Assign Peak Report

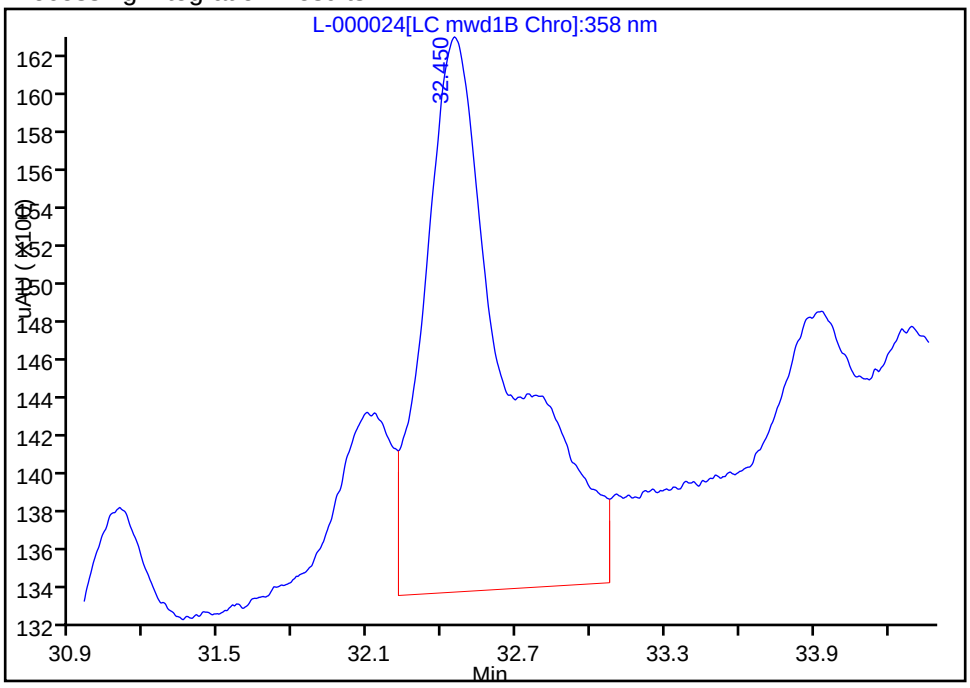
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000024.D		
Injection Date:	13-Apr-2013 10:49:48	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	24
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 2, Type: quant, RT: 32.45, Det: LC mwd1B

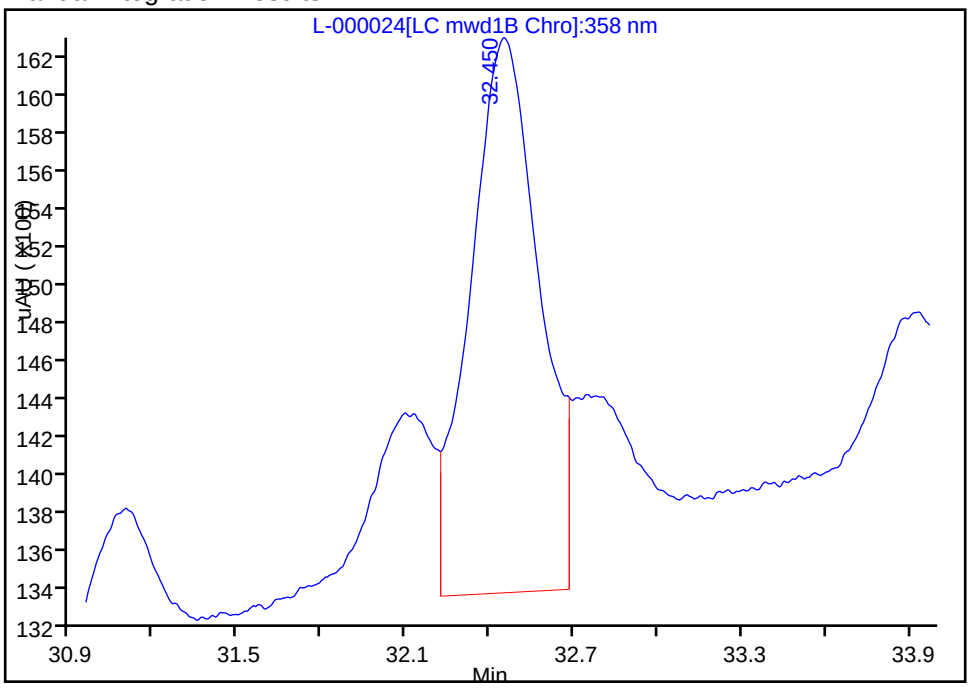
Processing Integration Results

RT: 32.45
Response: 2829
Amount: 21.911733



Manual Integration Results

RT: 32.45
Response: 2829
Amount: 21.911733



Reviewer: noonanr, 16-Apr-2013 08:57:13
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14179/34 Calibration Date: 04/13/2013 20:20

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000034.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	92.31		98.0	100	-2.0	20.0
RDX	Ave	94.00	90.88		96.7	100	-3.3	20.0
1,3,5-Trinitrobenzene	Ave	215.4	204.0		94.7	100	-5.3	20.0
Picric acid	Ave	189.5	185.1		244	250	-2.3	20.0
1,3-Dinitrobenzene	Ave	228.7	218.0		95.3	100	-4.7	20.0
3,5-Dinitroaniline	Ave	150.4	137.8		91.6	100	-8.4	20.0
Nitrobenzene	Ave	98.42	88.81		90.2	100	-9.8	20.0
Tetryl	Ave	122.8	117.6		95.8	100	-4.2	20.0
Nitroglycerin	Ave	90.04	85.71		95.2	100	-4.8	20.0
2,4,6-Trinitrotoluene	Ave	129.9	125.5		96.6	100	-3.4	20.0
4-Amino-2,6-dinitrotoluene	Ave	104.3	96.15		92.1	100	-7.9	20.0
2-Amino-4,6-dinitrotoluene	Ave	115.7	108.4		93.7	100	-6.3	20.0
2,6-Dinitrotoluene	Ave	79.69	74.97		94.1	100	-5.9	20.0
2,4-Dinitrotoluene	Ave	130.5	125.4		96.0	100	-4.0	20.0
2-Nitrotoluene	Ave	51.81	49.10		94.8	100	-5.2	20.0
4-Nitrotoluene	Ave	66.41	63.77		96.0	100	-4.0	20.0
3-Nitrotoluene	Ave	65.43	61.72		94.3	100	-5.7	20.0
PETN	Ave	51.32	51.70		101	100	0.7	20.0
3,4-Dinitrotoluene	Ave	69.81	69.03		98.9	100	-1.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14179/34 Calibration Date: 04/13/2013 20:20

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000034.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.21	19.96	20.46
RDX	23.44	23.19	23.69
1,3,5-Trinitrobenzene	25.34	25.09	25.59
Picric acid	25.80	25.55	26.05
1,3-Dinitrobenzene	28.04	27.79	28.29
3,5-Dinitroaniline	29.18	28.93	29.43
Nitrobenzene	29.58	29.33	29.83
Tetryl	29.90	29.65	30.15
Nitroglycerin	30.34	30.09	30.59
2,4,6-Trinitrotoluene	31.07	30.82	31.32
4-Amino-2,6-dinitrotoluene	32.09	31.84	32.34
2-Amino-4,6-dinitrotoluene	32.77	32.52	33.02
2,6-Dinitrotoluene	33.89	33.64	34.14
2,4-Dinitrotoluene	34.28	34.03	34.53
2-Nitrotoluene	37.04	36.79	37.29
4-Nitrotoluene	38.23	37.98	38.48
3-Nitrotoluene	39.65	39.40	39.90
PETN	40.13	39.88	40.38
3,4-Dinitrotoluene	32.43	32.18	32.68

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000034.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	13-Apr-2013 20:20:40	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003856-034		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	4
Lims Batch ID:	14179	Lims Sample ID:	34
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	15-Apr-2013 11:10:31	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK005		
First Level Reviewer: russellk		Date:	15-Apr-2013 11:10:31

Det	RT	EXP RT	DLT RT	Response		Flags
11 HMX						
1	20.209	20.209	0.0	9231	98.0	
19 RDX						
1	23.439	23.439	0.0	9088	96.7	
27 1,3,5-Trinitrobenzene						
1	25.335	25.335	0.0	20401	94.7	
10 2,4,6-Trinitrophenol						
2	25.802	25.802	0.0	46273	244.2	
1	25.802	25.802	0.0	31466	254.5	
24 1,3-Dinitrobenzene						
1	28.042	28.042	0.0	21802	95.3	
9 3,5-Dinitroaniline						
1	29.182	29.182	0.0	13780	91.6	
5 Nitrobenzene						
1	29.579	29.579	0.0	8881	90.2	
20 Tetryl						
1	29.902	29.902	0.0	11759	95.8	
7 Nitroglycerin						
2	30.342	30.342	0.0	8571	95.2	
25 2,4,6-Trinitrotoluene						
1	31.069	31.069	0.0	12546	96.6	
26 4-Amino-2,6-dinitrotoluene						
1	32.092	32.092	0.0	9615	92.1	
$ 30 3,4-Dinitrotoluene						
1	32.432	32.432	0.0	6903	98.9	
2	32.435	32.435	0.0	13322	103.2	
6 2-Amino-4,6-dinitrotoluene						
1	32.765	32.765	0.0	10843	93.7	

Det	RT	EXP RT	DLT RT	Response	Flags
12 2,6-Dinitrotoluene					
1	33.892	33.892	0.0	7497	94.1
23 2,4-Dinitrotoluene					
1	34.275	34.275	0.0	12538	96.0
16 o-Nitrotoluene					
1	37.038	37.038	0.0	4910	94.8
15 p-Nitrotoluene					
1	38.232	38.232	0.0	6377	96.0
8 m-Nitrotoluene					
1	39.652	39.652	0.0	6172	94.3
21 PETN					
2	40.128	40.128	0.0	5170	100.7

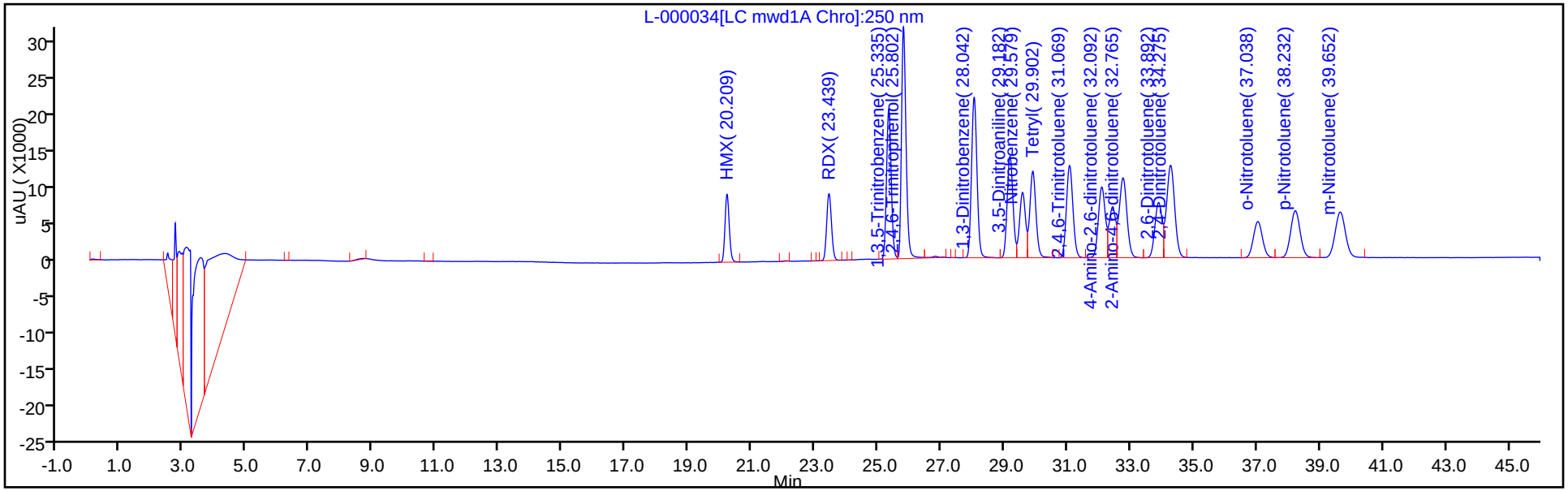
Report Date: 15-Apr-2013 11:10:32 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

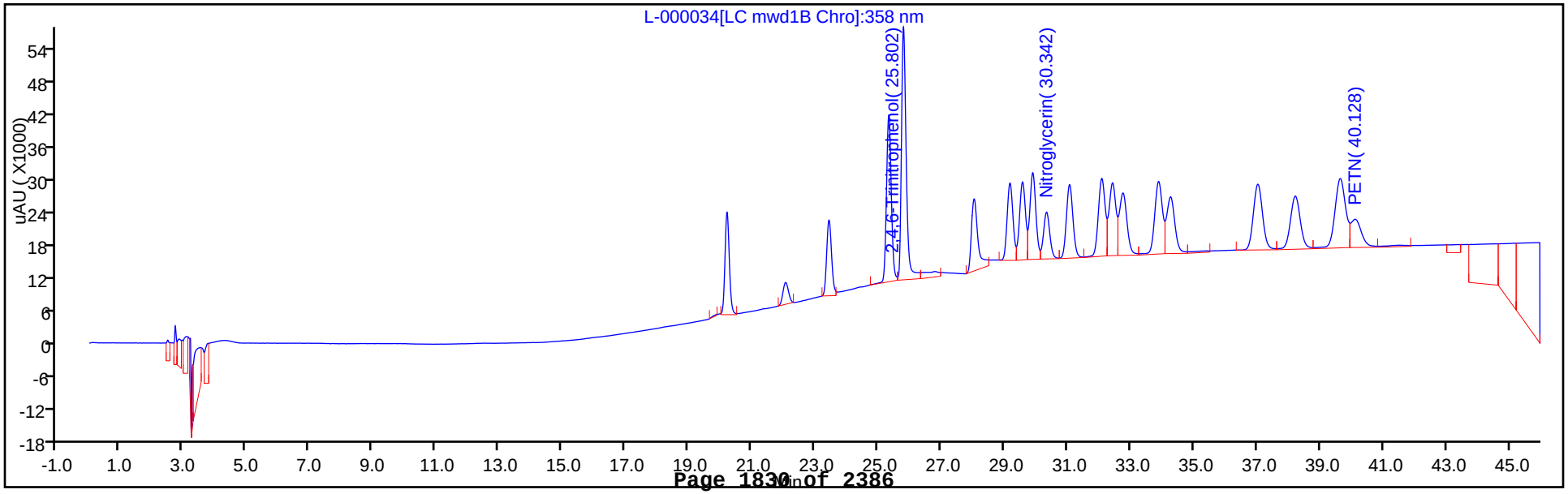
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000034.D

Injection Date:	13-Apr-2013 20:20:40	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	34
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14179/45 Calibration Date: 04/14/2013 06:48

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000045.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	92.68		98.4	100	-1.6	20.0
RDX	Ave	94.00	91.00		96.8	100	-3.2	20.0
1,3,5-Trinitrobenzene	Ave	215.4	203.9		94.7	100	-5.3	20.0
Picric acid	Ave	189.5	184.8		244	250	-2.5	20.0
1,3-Dinitrobenzene	Ave	228.7	218.6		95.6	100	-4.4	20.0
3,5-Dinitroaniline	Ave	150.4	137.8		91.6	100	-8.4	20.0
Nitrobenzene	Ave	98.42	86.46		87.8	100	-12.2	20.0
Tetryl	Ave	122.8	117.1		95.4	100	-4.6	20.0
Nitroglycerin	Ave	90.04	86.67		96.3	100	-3.7	20.0
2,4,6-Trinitrotoluene	Ave	129.9	126.0		97.0	100	-3.0	20.0
4-Amino-2,6-dinitrotoluene	Ave	104.3	96.80		92.8	100	-7.2	20.0
2-Amino-4,6-dinitrotoluene	Ave	115.7	109.3		94.5	100	-5.5	20.0
2,6-Dinitrotoluene	Ave	79.69	75.42		94.6	100	-5.4	20.0
2,4-Dinitrotoluene	Ave	130.5	126.4		96.8	100	-3.2	20.0
2-Nitrotoluene	Ave	51.81	48.46		93.5	100	-6.5	20.0
4-Nitrotoluene	Ave	66.41	63.13		95.1	100	-4.9	20.0
3-Nitrotoluene	Ave	65.43	61.15		93.5	100	-6.5	20.0
PETN	Ave	51.32	51.92		101	100	1.2	20.0
3,4-Dinitrotoluene	Ave	69.81	69.14		99.0	100	-1.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14179/45 Calibration Date: 04/14/2013 06:48

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000045.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.20	19.95	20.45
RDX	23.43	23.18	23.68
1,3,5-Trinitrobenzene	25.32	25.07	25.57
Picric acid	25.79	25.54	26.04
1,3-Dinitrobenzene	28.02	27.77	28.27
3,5-Dinitroaniline	29.15	28.90	29.40
Nitrobenzene	29.55	29.30	29.80
Tetryl	29.88	29.63	30.13
Nitroglycerin	30.32	30.07	30.57
2,4,6-Trinitrotoluene	31.04	30.79	31.29
4-Amino-2,6-dinitrotoluene	32.05	31.80	32.30
2-Amino-4,6-dinitrotoluene	32.72	32.47	32.97
2,6-Dinitrotoluene	33.85	33.60	34.10
2,4-Dinitrotoluene	34.23	33.98	34.48
2-Nitrotoluene	36.99	36.74	37.24
4-Nitrotoluene	38.18	37.93	38.43
3-Nitrotoluene	39.60	39.35	39.85
PETN	40.08	39.83	40.33
3,4-Dinitrotoluene	32.40	32.15	32.65

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000045.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	14-Apr-2013 06:48:23	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003856-045		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	4
Lims Batch ID:	14179	Lims Sample ID:	45
Sublist:	chrom-8330 Metab LC11*sub1		
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 09:33:50	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer: russellk		Date:	15-Apr-2013 13:32:27

Det	RT	EXP RT	DLT RT	Response		Flags
11 HMX						
1	20.200	20.200	0.0	9268	98.4	
19 RDX						
1	23.426	23.426	0.0	9100	96.8	
27 1,3,5-Trinitrobenzene						
1	25.323	25.323	0.0	20393	94.7	
10 2,4,6-Trinitrophenol						
2	25.786	25.786	0.0	46211	243.8	
1	25.786	25.786	0.0	31389	253.9	
24 1,3-Dinitrobenzene						
1	28.023	28.023	0.0	21859	95.6	
9 3,5-Dinitroaniline						
1	29.153	29.153	0.0	13781	91.6	
5 Nitrobenzene						
1	29.553	29.553	0.0	8646	87.8	
20 Tetryl						
1	29.880	29.880	0.0	11714	95.4	
7 Nitroglycerin						M
2	30.316	30.316	0.0	8667	96.3	M
25 2,4,6-Trinitrotoluene						
1	31.043	31.043	0.0	12598	97.0	
26 4-Amino-2,6-dinitrotoluene						
1	32.053	32.053	0.0	9680	92.8	
$ 30 3,4-Dinitrotoluene						M
1	32.400	32.400	0.0	6914	99.0	
2	32.396	32.396	0.0	13421	104.0	M
6 2-Amino-4,6-dinitrotoluene						
1	32.723	32.723	0.0	10934	94.5	

Det	RT	EXP RT	DLT RT	Response	Flags
12 2,6-Dinitrotoluene					
1	33.850	33.850	0.0	7542	94.6
23 2,4-Dinitrotoluene					
1	34.230	34.230	0.0	12640	96.8
16 o-Nitrotoluene					
1	36.989	36.989	0.0	4846	93.5
15 p-Nitrotoluene					
1	38.176	38.176	0.0	6313	95.1
8 m-Nitrotoluene					
1	39.596	39.596	0.0	6115	93.5
21 PETN					
2	40.076	40.076	0.0	5192	101.2

QC Flag Legend

Review Flags
M - Manually Integrated

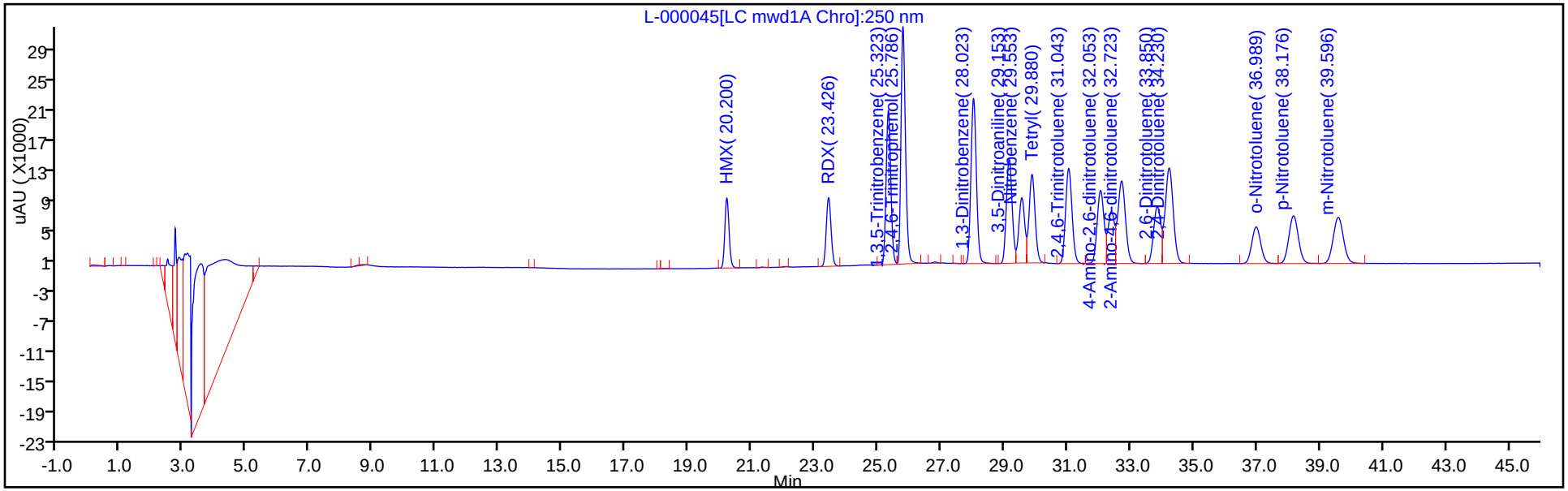
Report Date: 16-Apr-2013 09:33:50 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

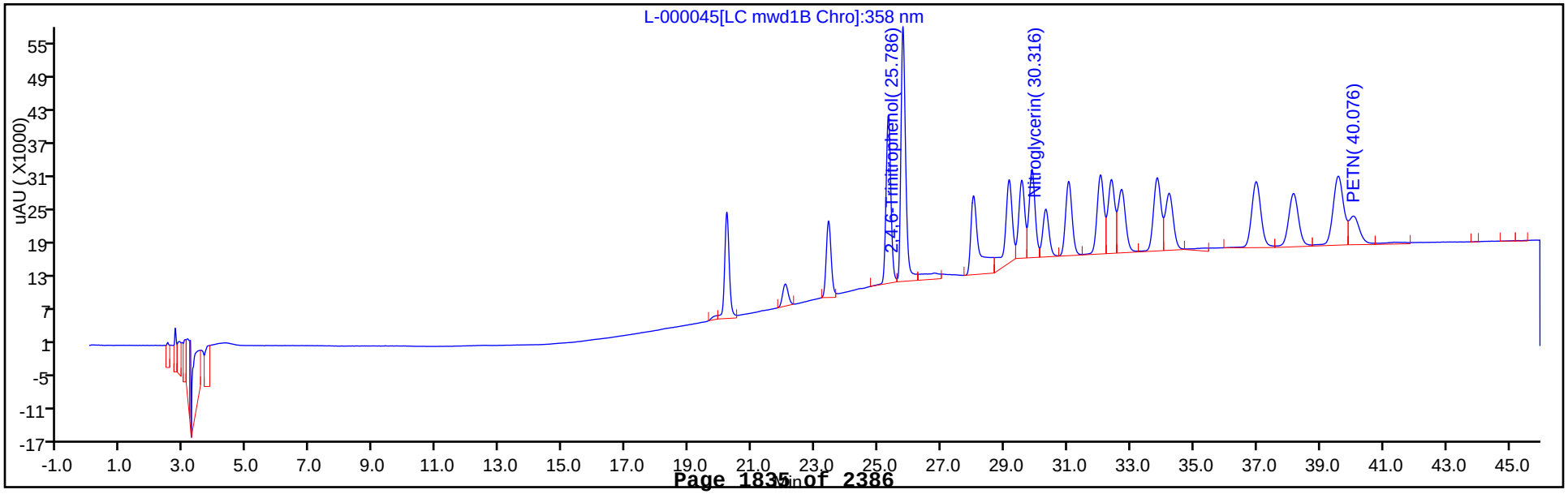
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000045.D

Injection Date:	14-Apr-2013 06:48:23	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	45
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

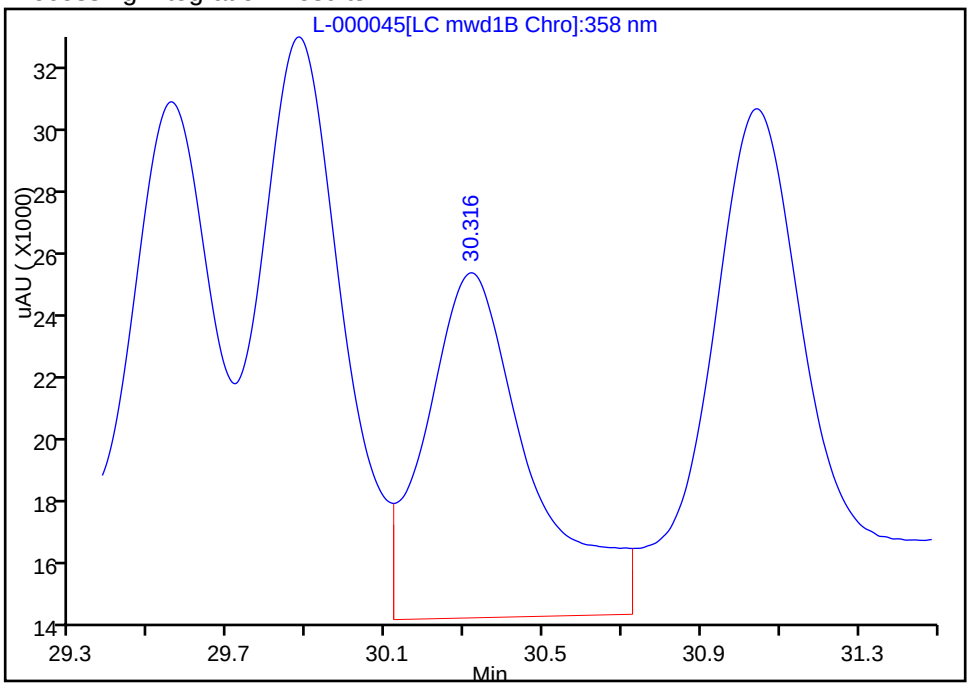
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000045.D		
Injection Date:	14-Apr-2013 06:48:23	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	45
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

7 Nitroglycerin, Signal: 1, Type: quant, RT: 30.32, Det: LC mwd1B

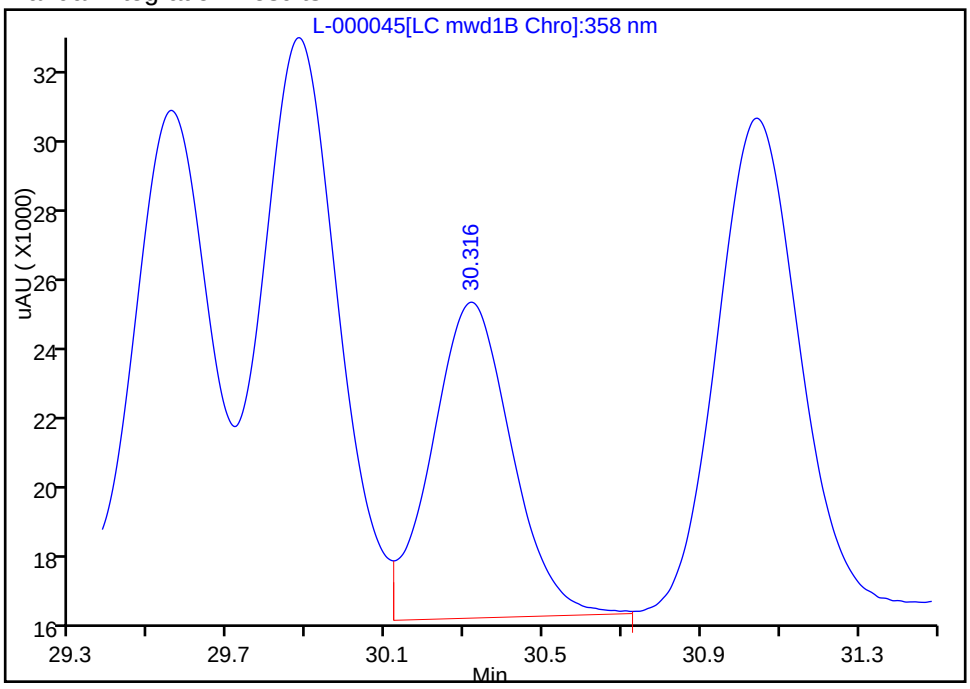
Processing Integration Results

RT: 30.32
Response: 10619
Amount: 117.9378



Manual Integration Results

RT: 30.32
Response: 8667
Amount: 96.258288



Reviewer: noonanr, 16-Apr-2013 09:33:50
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

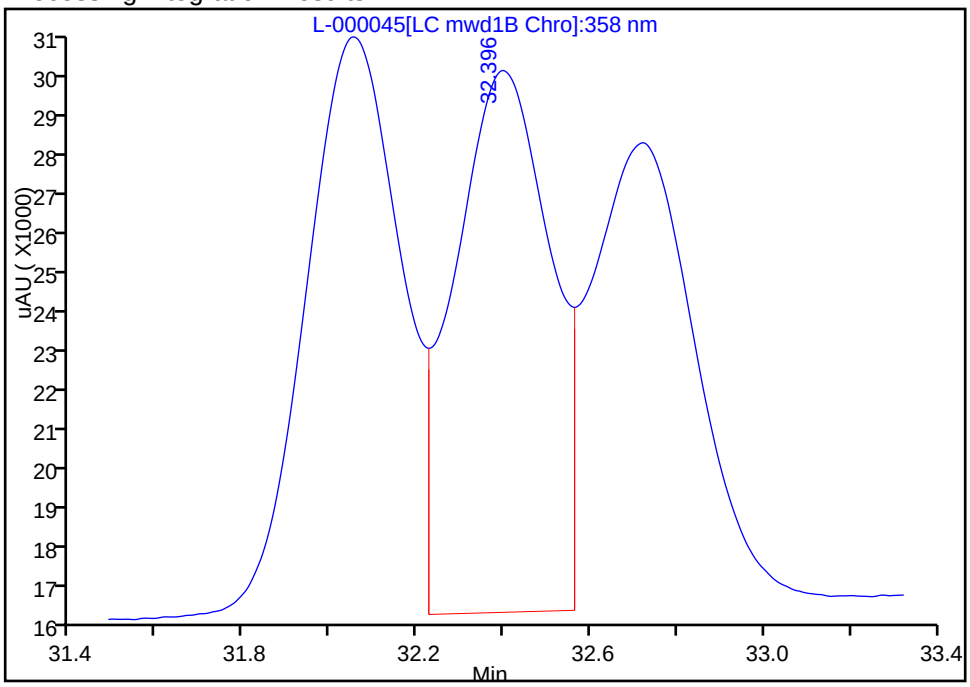
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000045.D		
Injection Date:	14-Apr-2013 06:48:23	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	45
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 2, Type: quant, RT: 32.40, Det: LC mwd1B

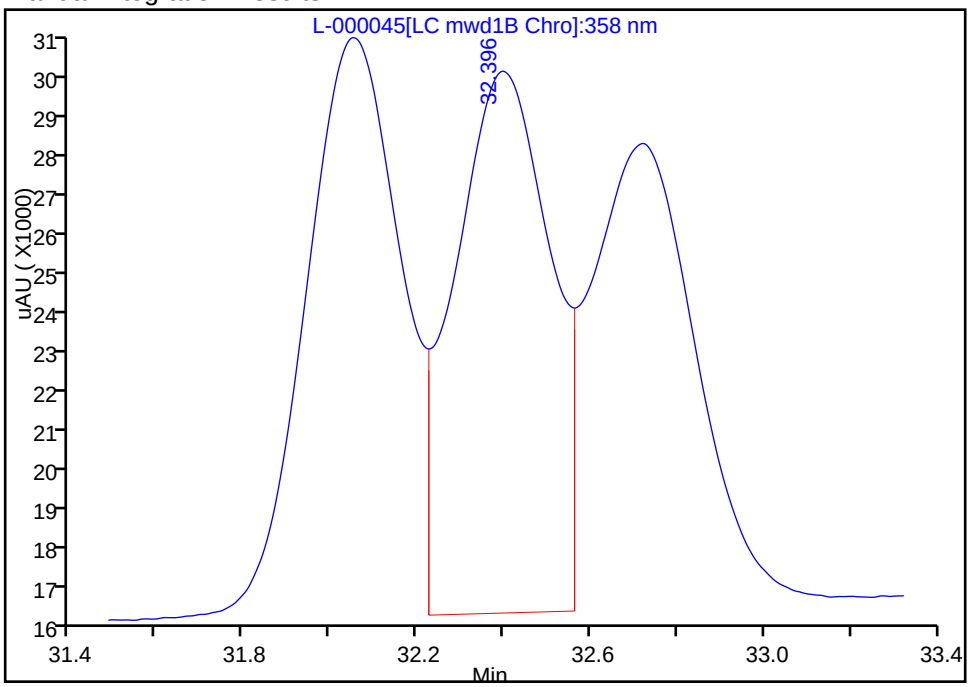
Processing Integration Results

RT: 32.40
Response: 14625
Amount: 113.2765



Manual Integration Results

RT: 32.40
Response: 13421
Amount: 103.9510



Reviewer: noonanr, 16-Apr-2013 09:33:50
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14179/107 Calibration Date: 04/16/2013 01:37

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000090.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	94.21	102.4		5.43	5.00	8.7	30.0
RDX	Ave	94.00	102.6		5.46	5.00	9.2	30.0
1,3,5-Trinitrobenzene	Ave	215.4	230.2		5.34	5.00	6.9	30.0
1,3-Dinitrobenzene	Ave	228.7	234.0		5.12	5.00	2.3	30.0
3,5-Dinitroaniline	Ave	150.4	151.0		5.02	5.00	0.4	30.0
Nitrobenzene	Ave	98.42	88.80		4.51	5.00	-9.8	30.0
Tetryl	Ave	122.8	121.4		4.94	5.00	-1.1	30.0
Nitroglycerin	Ave	90.04	83.75		18.6	20.0	-7.0	30.0
2,4,6-Trinitrotoluene	Ave	129.9	128.2		4.93	5.00	-1.3	30.0
4-Amino-2,6-dinitrotoluene	Ave	104.3	107.2		5.14	5.00	2.7	30.0
2-Amino-4,6-dinitrotoluene	Ave	115.7	122.4		5.29	5.00	5.8	30.0
2,6-Dinitrotoluene	Ave	79.69	84.80		5.32	5.00	6.4	30.0
2,4-Dinitrotoluene	Ave	130.5	132.4		5.07	5.00	1.4	30.0
2-Nitrotoluene	Ave	51.81	50.00		4.83	5.00	-3.5	30.0
4-Nitrotoluene	Ave	66.41	60.20		4.53	5.00	-9.4	30.0
3-Nitrotoluene	Ave	65.43	61.60		4.71	5.00	-5.8	30.0
PETN	Ave	51.32	61.45		23.9	20.0	19.7	30.0
3,4-Dinitrotoluene	Ave	69.81	67.25		19.3	20.0	-3.7	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14179/107 Calibration Date: 04/16/2013 01:37

Instrument ID: LC11 Calib Start Date: 04/30/2012 14:52

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/30/2012 21:31

Lab File ID: L-000090.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.18	19.93	20.43
RDX	23.40	23.15	23.65
1,3,5-Trinitrobenzene	25.30	25.05	25.55
1,3-Dinitrobenzene	27.99	27.74	28.24
3,5-Dinitroaniline	29.12	28.87	29.37
Nitrobenzene	29.54	29.29	29.79
Tetryl	29.87	29.62	30.12
Nitroglycerin	30.30	30.05	30.55
2,4,6-Trinitrotoluene	31.01	30.76	31.26
4-Amino-2,6-dinitrotoluene	32.04	31.79	32.29
2-Amino-4,6-dinitrotoluene	32.69	32.44	32.94
2,6-Dinitrotoluene	33.82	33.57	34.07
2,4-Dinitrotoluene	34.21	33.96	34.46
2-Nitrotoluene	36.97	36.72	37.22
4-Nitrotoluene	38.13	37.88	38.38
3-Nitrotoluene	39.57	39.32	39.82
PETN	40.05	39.80	40.30
3,4-Dinitrotoluene	32.37	32.12	32.62

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000090.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	16-Apr-2013 01:37:33	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003856-107		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	7
Lims Batch ID:	14179	Lims Sample ID:	107
Sublist:	chrom-8330 Metab LC11*sub4		
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 12:52:21	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer:	noonanr	Date:	16-Apr-2013 12:52:21

Det	RT	EXP RT	DLT RT	Response		Flags
11 HMX						
1	20.179	20.179	0.0	512	5.43	
19 RDX						
1	23.399	23.399	0.0	513	5.46	
27 1,3,5-Trinitrobenzene						
1	25.299	25.299	0.0	1151	5.34	
24 1,3-Dinitrobenzene						
1	27.992	27.992	0.0	1170	5.12	
9 3,5-Dinitroaniline						
1	29.122	29.122	0.0	755	5.02	
5 Nitrobenzene						
1	29.536	29.536	0.0	444	4.51	
20 Tetryl						
1	29.869	29.869	0.0	607	4.94	
7 Nitroglycerin						
2	30.296	30.296	0.0	1675	18.6	
25 2,4,6-Trinitrotoluene						
1	31.012	31.012	0.0	641	4.93	
26 4-Amino-2,6-dinitrotoluene						
1	32.036	32.036	0.0	536	5.14	
$ 30 3,4-Dinitrotoluene						M
1	32.372	32.372	0.0	1345	19.3	
2	32.376	32.376	0.0	2672	20.7	M
6 2-Amino-4,6-dinitrotoluene						
1	32.692	32.692	0.0	612	5.29	
12 2,6-Dinitrotoluene						
1	33.819	33.819	0.0	424	5.32	

Det	RT	EXP RT	DLT RT	Response	Flags
23 2,4-Dinitrotoluene					
1	34.209	34.209	0.0	662	5.07
16 o-Nitrotoluene					
1	36.972	36.972	0.0	250	4.83
15 p-Nitrotoluene					
1	38.126	38.126	0.0	301	4.53
8 m-Nitrotoluene					
1	39.572	39.572	0.0	308	4.71
21 PETN					
2	40.049	40.049	0.0	1229	23.9

QC Flag Legend

Review Flags
M - Manually Integrated

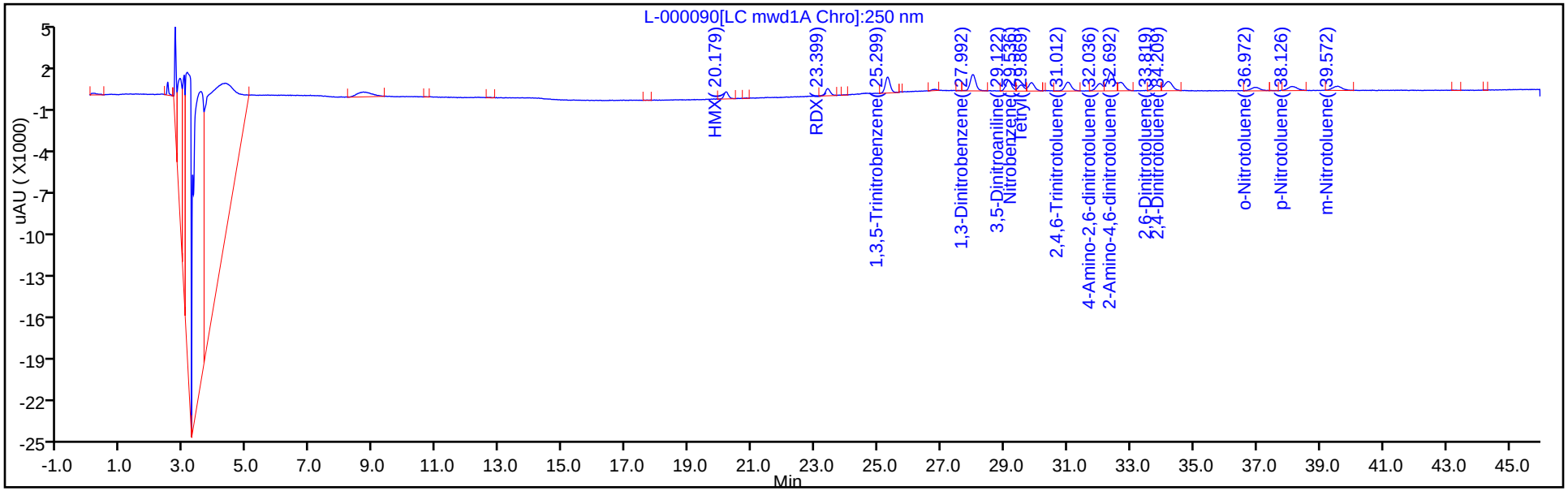
Report Date: 16-Apr-2013 12:52:21 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

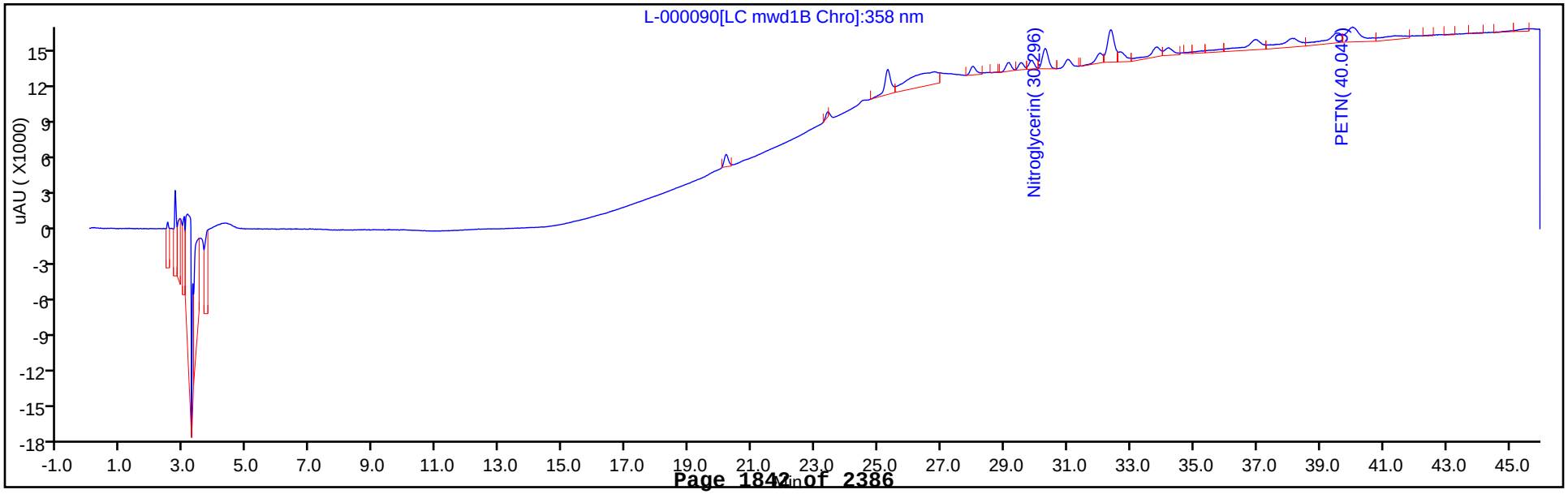
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000090.D

Injection Date:	16-Apr-2013 01:37:33	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	107
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

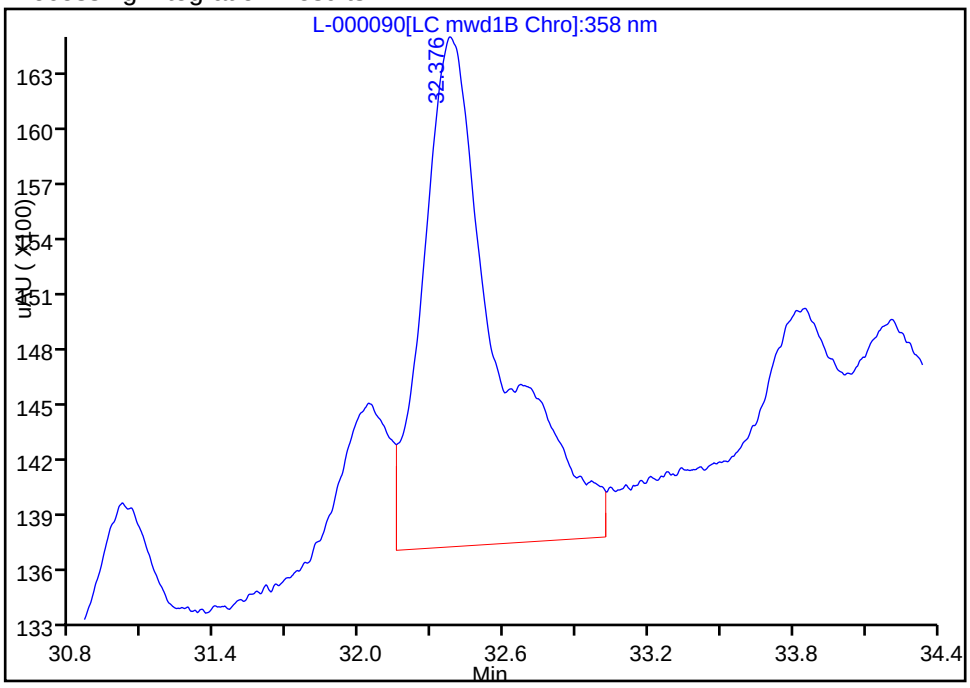
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000090.D		
Injection Date:	16-Apr-2013 01:37:33	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	107
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 2, Type: quant, RT: 32.38, Det: LC mwd1B

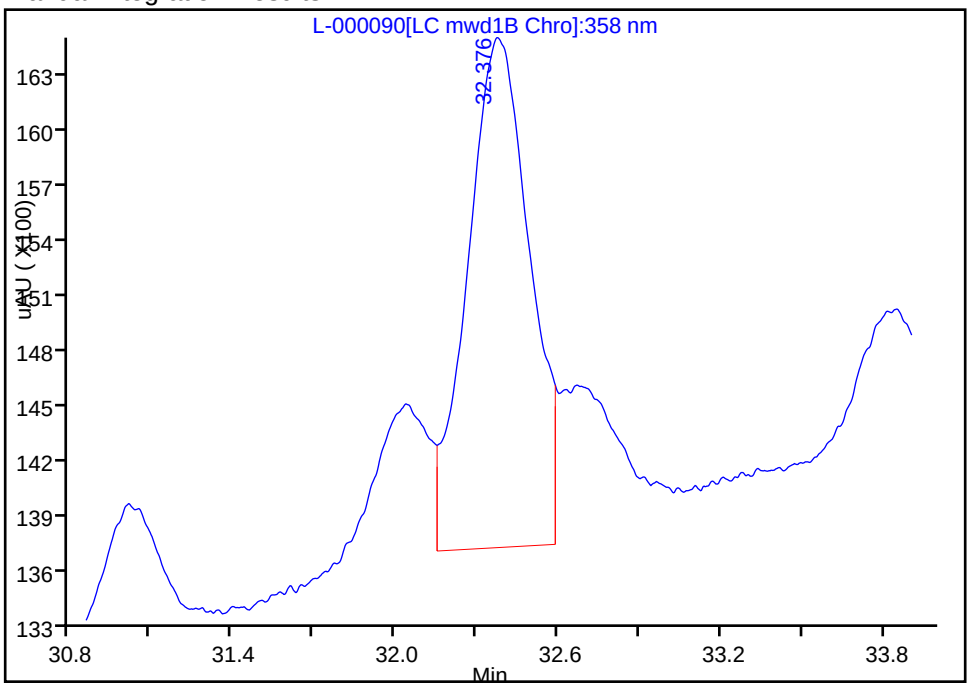
Processing Integration Results

RT: 32.38
Response: 2672
Amount: 20.695706



Manual Integration Results

RT: 32.38
Response: 2672
Amount: 20.695706



Reviewer: noonanr, 16-Apr-2013 12:52:21
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-10422/11 Calibration Date: 02/14/2013 03:05

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000012.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	None		0.0870		0.500	1000	-100.0*	20.0
Nitrobenzene	Ave	48.34	48.04		497	500	-0.6	20.0
Ethylene glycol dinitrate	Ave	21.88	22.05		504	500	0.8	20.0
1,3-Dinitrobenzene	Ave	106.1	100.8		475	500	-4.9	20.0
1,3,5-Trinitrobenzene	Ave	82.14	79.18		482	500	-3.6	20.0
2-Nitrotoluene	Ave	63.47	61.84		487	500	-2.6	20.0
4-Nitrotoluene	Ave	63.47	61.84		487	500	-2.6	20.0
3-Nitrotoluene	Ave	42.38	39.90		471	500	-5.8	20.0
3,5-Dinitroaniline	Ave	82.33	80.95		492	500	-1.7	20.0
RDX	Ave	49.04	45.73		466	500	-6.7	20.0
2,4-Dinitrotoluene	Ave	88.34	87.12		493	500	-1.4	20.0
2,6-Dinitrotoluene	Ave	53.63	52.70		491	500	-1.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	76.75		516	500	3.2	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	70.74		503	500	0.6	20.0
2,4,6-Trinitrotoluene	Ave	87.92	94.20		536	500	7.1	20.0
HMX	Ave	65.31	66.47		509	500	1.8	20.0
Nitroglycerin	Ave	91.50	99.16		542	500	8.4	20.0
Tetryl	Ave	118.9	137.0		576	500	15.2	20.0
PETN	Ave	146.8	152.3		519	500	3.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICV 320-10422/11 Calibration Date: 02/14/2013 03:05

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.10	0.00	0.35
Nitrobenzene	22.76	22.51	23.01
Ethylene glycol dinitrate	23.99	23.74	24.24
1,3-Dinitrobenzene	25.86	25.61	26.11
1,3,5-Trinitrobenzene	28.79	28.54	29.04
2-Nitrotoluene	29.95	29.70	30.20
4-Nitrotoluene	29.95	29.70	30.20
3-Nitrotoluene	30.56	30.31	30.81
3,5-Dinitroaniline	31.97	31.72	32.22
RDX	32.58	32.33	32.83
2,4-Dinitrotoluene	33.82	33.57	34.07
2,6-Dinitrotoluene	34.84	34.59	35.09
2-Amino-4,6-dinitrotoluene	36.93	36.68	37.18
4-Amino-2,6-dinitrotoluene	37.50	37.25	37.75
2,4,6-Trinitrotoluene	41.27	41.02	41.52
HMX	42.70	42.45	42.95
Nitroglycerin	45.21	44.96	45.46
Tetryl	46.79	46.54	47.04
PETN	53.11	52.86	53.36

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000012.D		
Lims ID:	ICV	Client ID:	
Inject. Date:	14-Feb-2013 03:05:41	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	320-0002792-011		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	20
Lims Batch ID:	10422	Lims Sample ID:	11
Sublist:			
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:21	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:51:34

Det	RT	EXP RT	DLT RT	Response	Flags
10 2,4,6-Trinitrophenol					
2	0.096	0.096	0.0	87	0
1	0.096	0.096	0.0	92	0
5 Nitrobenzene					
1	22.763	22.763	0.0	24018	496.9
3 Ethylene glycol dinitrate					
2	23.993	23.993	0.0	11023	503.9
24 1,3-Dinitrobenzene					
1	25.863	25.863	0.0	50405	475.3
27 1,3,5-Trinitrobenzene					
1	28.786	28.786	0.0	39588	482.0
16 o-Nitrotoluene					
1	29.953	29.953	0.0	30919	487.1
15 p-Nitrotoluene					
1	29.953	29.953	0.0	30919	487.1
8 m-Nitrotoluene					
1	30.560	30.560	0.0	19952	470.8
9 3,5-Dinitroaniline					
1	31.970	31.970	0.0	40475	491.6
19 RDX					
1	32.580	32.580	0.0	22864	466.3
23 2,4-Dinitrotoluene					
1	33.820	33.820	0.0	43562	493.1
12 2,6-Dinitrotoluene					
1	34.843	34.843	0.0	26351	491.4
6 2-Amino-4,6-dinitrotoluene					
1	36.933	36.933	0.0	38373	515.8

Det	RT	EXP RT	DLT RT	Response	Flags
26 4-Amino-2,6-dinitrotoluene					
1	37.503	37.503	0.0	35368	503.0
25 2,4,6-Trinitrotoluene					
1	41.273	41.273	0.0	47098	535.7
11 HMX					
1	42.696	42.696	0.0	33235	508.9
7 Nitroglycerin					
2	45.206	45.206	0.0	49581	541.9
20 Tetryl					
1	46.786	46.786	0.0	68518	576.1
21 PETN					
2	53.113	53.113	0.0	76141	518.8

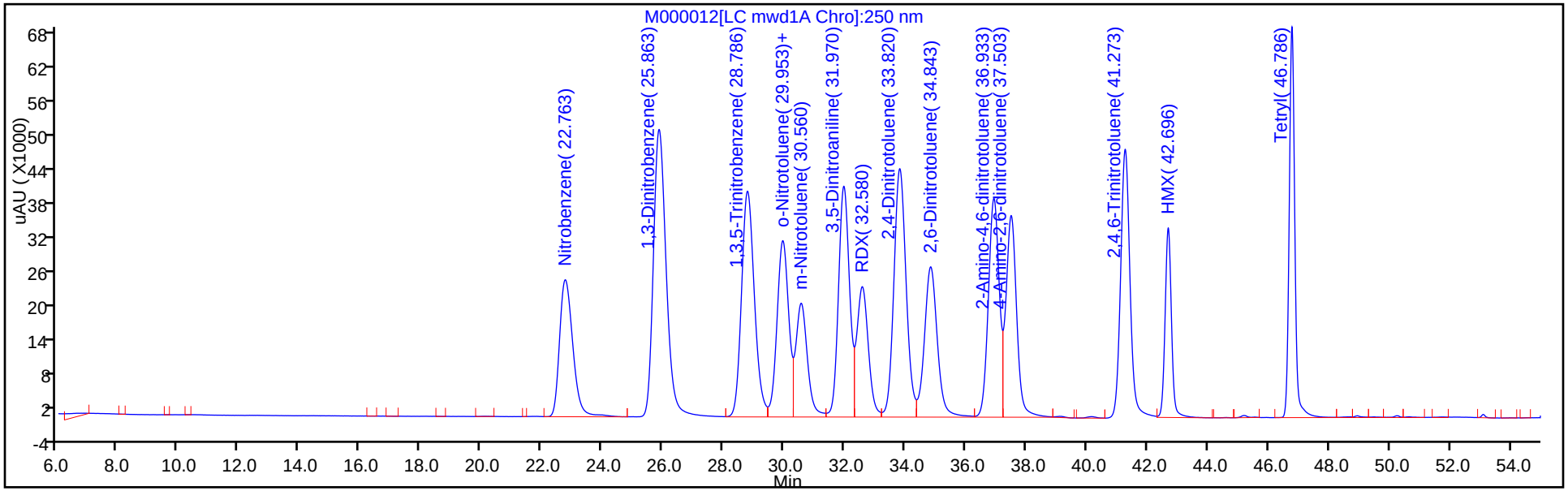
Report Date: 14-Feb-2013 07:52:22 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

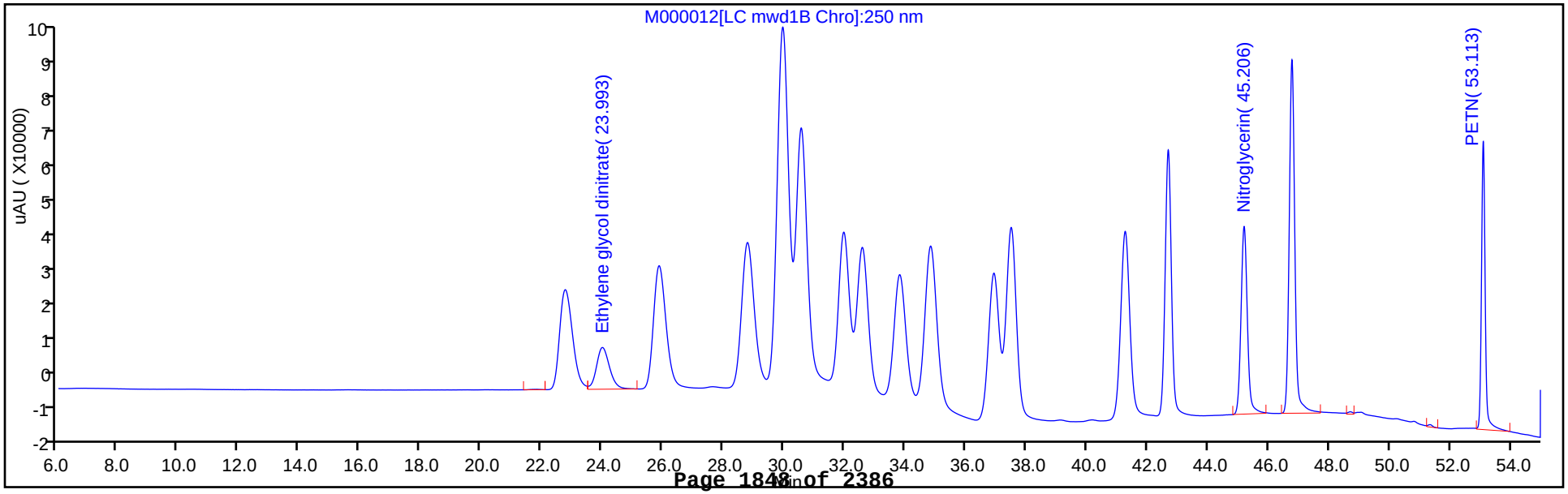
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000012.D

Injection Date:	14-Feb-2013 03:05:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-10422/12 Calibration Date: 02/14/2013 04:11

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	51.80		5.36	5.00	7.2	
1,3-Dinitrobenzene	Ave	106.1	115.8		5.46	5.00	9.2	
1,3,5-Trinitrobenzene	Ave	82.14	91.20		5.55	5.00	11.0	
2-Nitrotoluene	Ave	63.47	66.80		5.26	5.00	5.2	
4-Nitrotoluene	Ave	63.47	66.80		5.26	5.00	5.2	
3-Nitrotoluene	Ave	42.38	43.20		5.10	5.00	1.9	
3,5-Dinitroaniline	Ave	82.33	100.2		6.09	5.00	21.7	
RDX	Ave	49.04	60.20		6.14	5.00	22.8	
2,4-Dinitrotoluene	Ave	88.34	101.2		5.73	5.00	14.6	
2,6-Dinitrotoluene	Ave	53.63	60.80		5.67	5.00	13.4	
2-Amino-4,6-dinitrotoluene	Ave	74.40	78.40		5.27	5.00	5.4	
4-Amino-2,6-dinitrotoluene	Ave	70.31	78.20		5.56	5.00	11.2	
2,4,6-Trinitrotoluene	Ave	87.92	99.40		5.65	5.00	13.1	
HMX	Ave	65.31	71.80		5.50	5.00	9.9	
Nitroglycerin	Ave	91.50	88.10		19.3	20.0	-3.7	
Tetryl	Ave	118.9	133.4		5.61	5.00	12.2	
PETN	Ave	146.8	141.0		19.2	20.0	-3.9	
3,4-Dinitrotoluene	Ave	53.42	53.85		20.2	20.0	0.8	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: LODV 320-10422/12 Calibration Date: 02/14/2013 04:11

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.10	0.00	0.35
Nitrobenzene	22.77	22.51	23.01
1,3-Dinitrobenzene	25.89	25.61	26.11
1,3,5-Trinitrobenzene	28.82	28.54	29.04
2-Nitrotoluene	29.98	29.70	30.20
4-Nitrotoluene	29.98	29.70	30.20
3-Nitrotoluene	30.54	30.31	30.81
3,5-Dinitroaniline	31.94	31.72	32.22
RDX	32.57	32.33	32.83
2,4-Dinitrotoluene	33.81	33.57	34.07
2,6-Dinitrotoluene	34.83	34.59	35.09
2-Amino-4,6-dinitrotoluene	36.92	36.68	37.18
4-Amino-2,6-dinitrotoluene	37.50	37.25	37.75
2,4,6-Trinitrotoluene	41.27	41.02	41.52
HMX	42.69	42.45	42.95
Nitroglycerin	45.18	44.96	45.46
Tetryl	46.77	46.54	47.04
PETN	53.11	52.86	53.36
Ethylene glycol dinitrate			
3,4-Dinitrotoluene	39.07	38.75	39.25

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000013.D		
Lims ID:	LODV 5-20ng/mL	Client ID:	
Inject. Date:	14-Feb-2013 04:11:14	Dil. Factor:	1.0000
Sample Type:	LODV		
Sample ID:	320-0002792-012		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	10
Lims Batch ID:	10422	Lims Sample ID:	12
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 08:04:02	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		
First Level Reviewer: noonanr		Date:	14-Feb-2013 07:52:12

Det	RT	EXP RT	DLT RT	Response	ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.102	0.096	0.006	111	0	
1	0.102	0.096	0.006	99	0	
5 Nitrobenzene						
1	22.772	22.763	0.009	259	5.36	
24 1,3-Dinitrobenzene						
1	25.886	25.863	0.023	579	5.46	
27 1,3,5-Trinitrobenzene						
1	28.816	28.786	0.030	456	5.55	
16 o-Nitrotoluene						
1	29.979	29.953	0.026	334	5.26	
15 p-Nitrotoluene						
1	29.979	29.953	0.026	334	5.26	
8 m-Nitrotoluene						
1	30.539	30.560	-0.021	216	5.10	
9 3,5-Dinitroaniline						
1	31.939	31.970	-0.031	501	6.09	
19 RDX						
1	32.566	32.580	-0.014	301	6.14	
23 2,4-Dinitrotoluene						
1	33.812	33.820	-0.008	506	5.73	
12 2,6-Dinitrotoluene						
1	34.826	34.843	-0.017	304	5.67	
6 2-Amino-4,6-dinitrotoluene						
1	36.919	36.933	-0.014	392	5.27	
26 4-Amino-2,6-dinitrotoluene						
1	37.502	37.503	-0.001	391	5.56	
$ 30 3,4-Dinitrotoluene						
1	39.072	38.999	0.073	1077	20.2	

Det	RT	EXP RT	DLT RT	Response	ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.266	41.273	-0.007	497	5.65	
11 HMX						
1	42.686	42.696	-0.010	359	5.50	
7 Nitroglycerin						
2	45.182	45.206	-0.024	1762	19.3	
20 Tetryl						
1	46.766	46.786	-0.020	667	5.61	
21 PETN						
2	53.109	53.113	-0.004	2820	19.2	

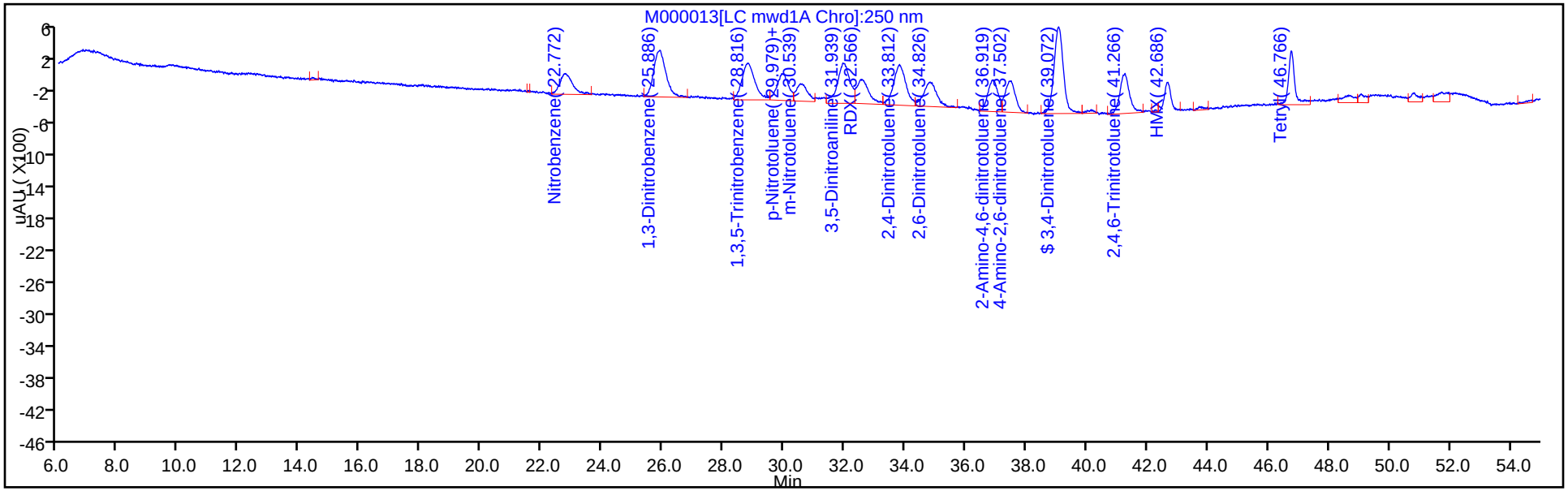
Report Date: 14-Feb-2013 08:04:10 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

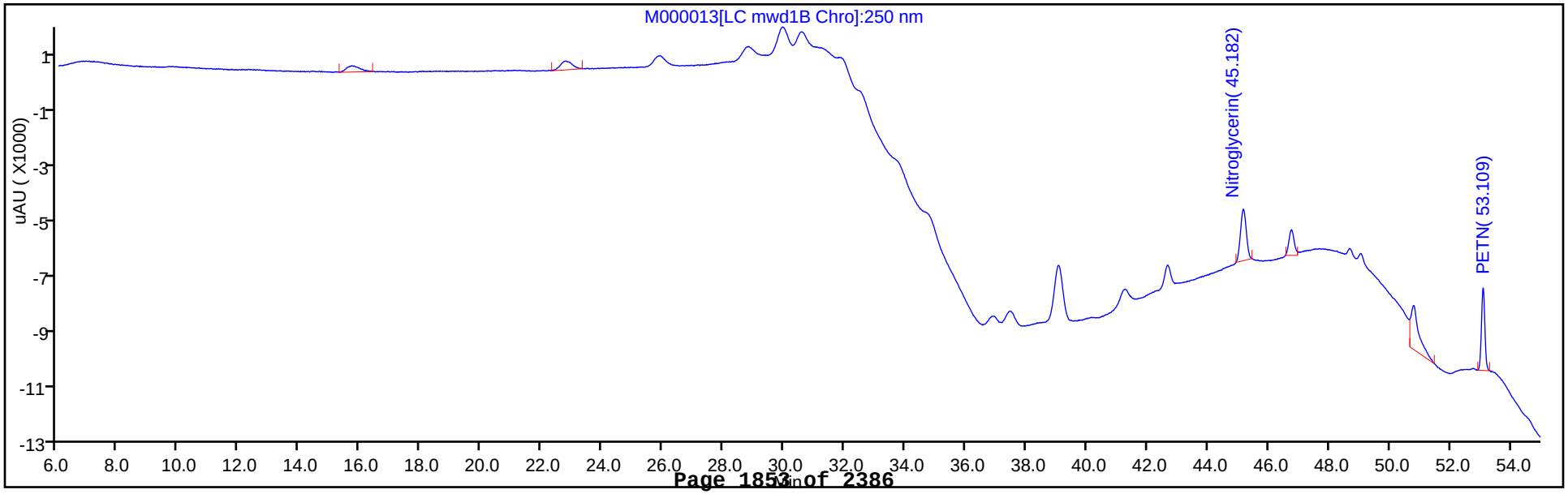
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000013.D

Injection Date:	14-Feb-2013 04:11:14	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14569/41 Calibration Date: 04/18/2013 06:36

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000047.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	48.75		101	100	0.8	20.0
Ethylene glycol dinitrate	Ave	21.88	22.18		101	100	1.4	20.0
1,3-Dinitrobenzene	Ave	106.1	106.7		101	100	0.6	20.0
1,3,5-Trinitrobenzene	Ave	82.14	80.59		98.1	100	-1.9	20.0
2-Nitrotoluene	Ave	63.47	61.48		96.9	100	-3.1	20.0
4-Nitrotoluene	Ave	63.47	61.48		96.9	100	-3.1	20.0
3-Nitrotoluene	Ave	42.38	40.91		96.5	100	-3.5	20.0
3,5-Dinitroaniline	Ave	82.33	82.74		100	100	0.5	20.0
RDX	Ave	49.04	47.24		96.3	100	-3.7	20.0
2,4-Dinitrotoluene	Ave	88.34	90.78		103	100	2.8	20.0
2,6-Dinitrotoluene	Ave	53.63	54.01		101	100	0.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	72.79		97.8	100	-2.2	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	67.01		95.3	100	-4.7	20.0
2,4,6-Trinitrotoluene	Ave	87.92	87.33		99.3	100	-0.7	20.0
HMX	Ave	65.31	63.03		96.5	100	-3.5	20.0
Nitroglycerin	Ave	91.50	84.54		92.4	100	-7.6	20.0
Tetryl	Ave	118.9	128.0		108	100	7.6	20.0
PETN	Ave	146.8	141.3		96.3	100	-3.7	20.0
3,4-Dinitrotoluene	Ave	53.42	52.00		97.3	100	-2.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14569/41 Calibration Date: 04/18/2013 06:36

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000047.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.35	22.10	22.60
Ethylene glycol dinitrate	23.30	23.05	23.55
1,3-Dinitrobenzene	25.29	25.04	25.54
1,3,5-Trinitrobenzene	27.98	27.73	28.23
2-Nitrotoluene	29.54	29.29	29.79
4-Nitrotoluene	29.54	29.29	29.79
3-Nitrotoluene	30.14	29.89	30.39
3,5-Dinitroaniline	31.40	31.15	31.65
RDX	32.02	31.77	32.27
2,4-Dinitrotoluene	33.21	32.96	33.46
2,6-Dinitrotoluene	34.22	33.97	34.47
2-Amino-4,6-dinitrotoluene	36.34	36.09	36.59
4-Amino-2,6-dinitrotoluene	36.97	36.72	37.22
2,4,6-Trinitrotoluene	40.67	40.42	40.92
HMX	42.42	42.17	42.67
Nitroglycerin	44.93	44.68	45.18
Tetryl	46.63	46.38	46.88
PETN	53.19	52.94	53.44
3,4-Dinitrotoluene	38.68	38.43	38.93

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000047.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	18-Apr-2013 06:36:16	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003897-041		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	4
Lims Batch ID:	14569	Lims Sample ID:	41
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130415-3897.b\LC12_Conf_8330.m		
Last Update:	18-Apr-2013 09:55:56	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK017		
First Level Reviewer: noonanr		Date:	18-Apr-2013 09:55:56

Det	RT	RT	DLT RT	Response		Flags
10 2,4,6-Trinitrophenol						
2	0.194	0.194	0.0	191	0	
1	0.194	0.194	0.0	191	0	
5 Nitrobenzene						
1	22.348	22.348	0.0	4875	100.8	
3 Ethylene glycol dinitrate						
2	23.301	23.301	0.0	2218	101.4	
24 1,3-Dinitrobenzene						
1	25.288	25.288	0.0	10672	100.6	
27 1,3,5-Trinitrobenzene						
1	27.981	27.981	0.0	8059	98.1	
16 o-Nitrotoluene						
1	29.538	29.538	0.0	6148	96.9	
15 p-Nitrotoluene						
1	29.538	29.538	0.0	6148	96.9	
8 m-Nitrotoluene						
1	30.138	30.138	0.0	4091	96.5	
9 3,5-Dinitroaniline						
1	31.404	31.404	0.0	8274	100.5	
19 RDX						
1	32.024	32.024	0.0	4724	96.3	
23 2,4-Dinitrotoluene						
1	33.211	33.211	0.0	9078	102.8	
12 2,6-Dinitrotoluene						
1	34.224	34.224	0.0	5401	100.7	
6 2-Amino-4,6-dinitrotoluene						
1	36.338	36.338	0.0	7279	97.8	

Det	RT	RT	DLT RT	Response	Flags
26 4-Amino-2,6-dinitrotoluene					
1	36.968	36.968	0.0	6701	95.3
$ 30 3,4-Dinitrotoluene					
1	38.678	38.678	0.0	5200	97.3
25 2,4,6-Trinitrotoluene					
1	40.671	40.671	0.0	8733	99.3
11 HMX					
1	42.424	42.424	0.0	6303	96.5
7 Nitroglycerin					
2	44.928	44.928	0.0	8454	92.4
20 Tetryl					
1	46.631	46.631	0.0	12802	107.6
21 PETN					
2	53.188	53.188	0.0	14126	96.3

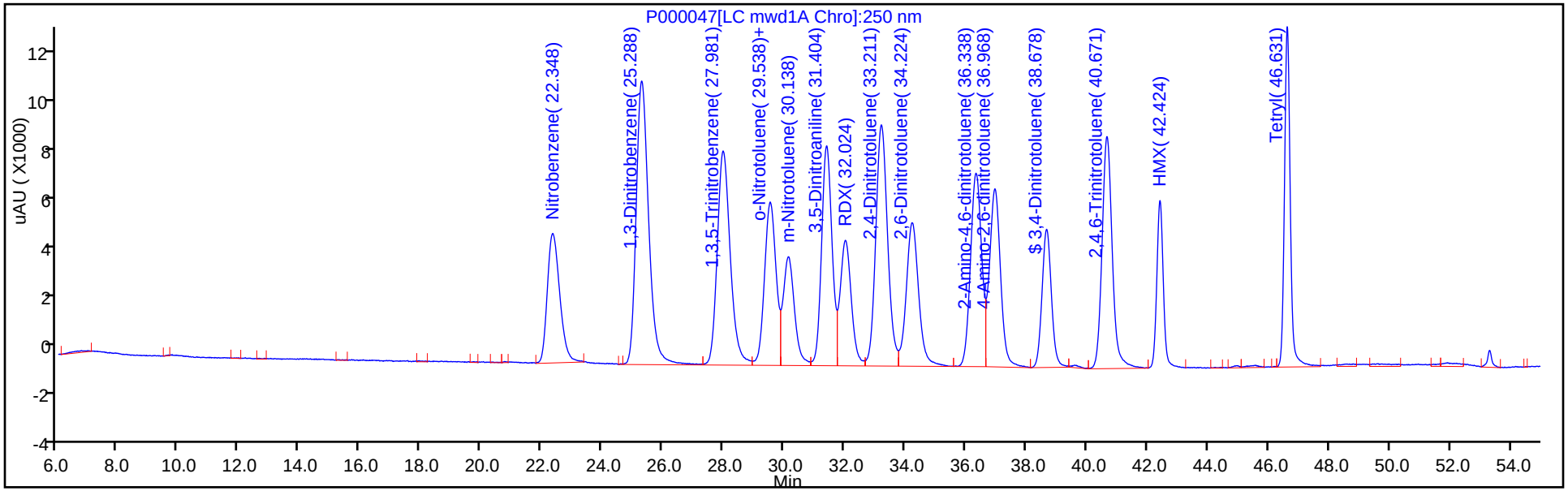
Report Date: 18-Apr-2013 09:55:56 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

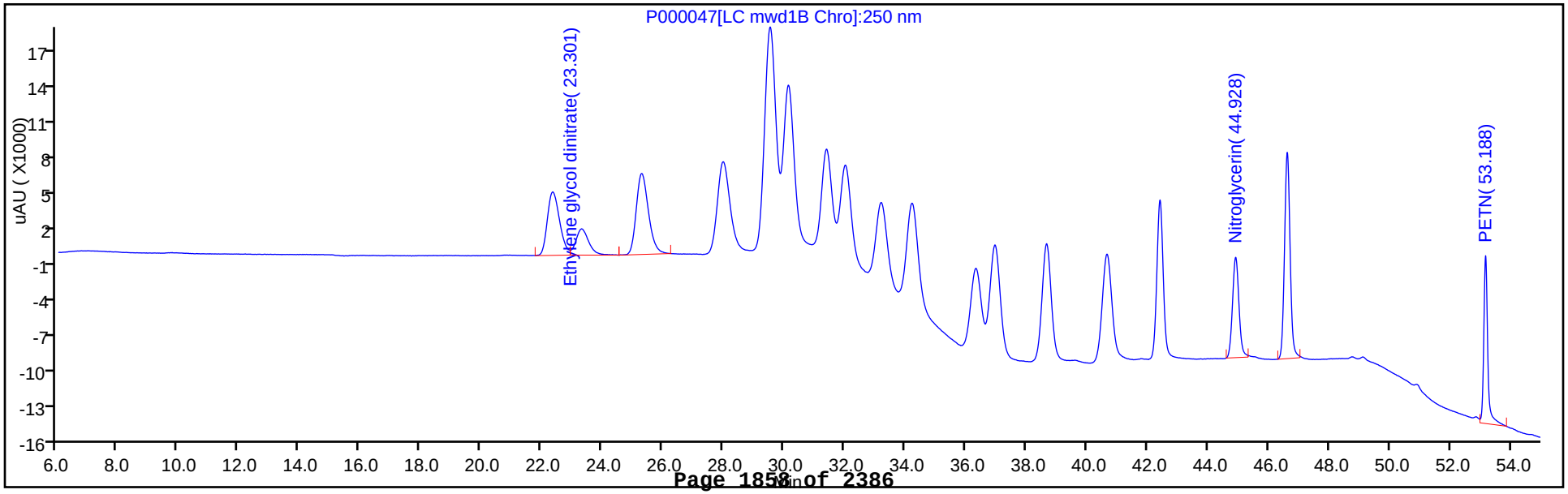
Data File: \\SACChrom\ChromData\LC12\20130415-3897.b\P000047.D

Injection Date:	18-Apr-2013 06:36:16	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	41
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14569/46 Calibration Date: 04/18/2013 07:42

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000048.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	60.20		6.23	5.00	24.5	30.0
1,3-Dinitrobenzene	Ave	106.1	135.8		6.40	5.00	28.0	30.0
1,3,5-Trinitrobenzene	Ave	82.14	103.2		6.28	5.00	25.6	30.0
2-Nitrotoluene	Ave	63.47	82.80		6.52	5.00	30.5*	30.0
4-Nitrotoluene	Ave	63.47	82.80		6.52	5.00	30.5*	30.0
3-Nitrotoluene	Ave	42.38	58.80		6.94	5.00	38.8*	30.0
3,5-Dinitroaniline	Ave	82.33	116.4		7.07	5.00	41.4*	30.0
RDX	Ave	49.04	73.60		7.50	5.00	50.1*	30.0
2,4-Dinitrotoluene	Ave	88.34	116.4		6.59	5.00	31.8*	30.0
2,6-Dinitrotoluene	Ave	53.63	73.60		6.86	5.00	37.2*	30.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	95.40		6.41	5.00	28.2	30.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	79.80		5.67	5.00	13.5	30.0
2,4,6-Trinitrotoluene	Ave	87.92	88.20		5.02	5.00	0.3	30.0
HMX	Ave	65.31	83.20		6.37	5.00	27.4	30.0
Nitroglycerin	Ave	91.50	88.10		19.3	20.0	-3.7	30.0
Tetryl	Ave	118.9	126.0		5.30	5.00	5.9	30.0
PETN	Ave	146.8	134.5		18.3	20.0	-8.4	30.0
3,4-Dinitrotoluene	Ave	53.42	54.70		20.5	20.0	2.4	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14569/46 Calibration Date: 04/18/2013 07:42

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000048.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.30	22.05	22.55
1,3-Dinitrobenzene	25.25	25.00	25.50
1,3,5-Trinitrobenzene	27.98	27.73	28.23
2-Nitrotoluene	29.53	29.28	29.78
4-Nitrotoluene	29.53	29.28	29.78
3-Nitrotoluene	30.08	29.83	30.33
3,5-Dinitroaniline	31.38	31.13	31.63
RDX	31.99	31.74	32.24
2,4-Dinitrotoluene	33.19	32.94	33.44
2,6-Dinitrotoluene	34.18	33.93	34.43
2-Amino-4,6-dinitrotoluene	36.29	36.04	36.54
4-Amino-2,6-dinitrotoluene	36.91	36.66	37.16
2,4,6-Trinitrotoluene	40.61	40.36	40.86
HMX	42.40	42.15	42.65
Nitroglycerin	44.90	44.65	45.15
Tetryl	46.61	46.36	46.86
PETN	53.16	52.91	53.41
3,4-Dinitrotoluene	38.65	38.40	38.90

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000048.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	18-Apr-2013 07:42:21	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003897-046		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	10
Lims Batch ID:	14569	Lims Sample ID:	46
Sublist:	chrom-LC12_Conf_8330*sub4		
Method:	\\SACChrom\ChromData\LC12\20130415-3897.b\LC12_Conf_8330.m		
Last Update:	19-Apr-2013 06:54:52	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK006		

First Level Reviewer: noonanr Date: 19-Apr-2013 06:54:52

Det	RT	RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.298	22.298	0.0	301	6.23	
24 1,3-Dinitrobenzene						
1	25.254	25.254	0.0	679	6.40	
27 1,3,5-Trinitrobenzene						
1	27.981	27.981	0.0	516	6.28	
16 o-Nitrotoluene						
1	29.534	29.534	0.0	414	6.52	
15 p-Nitrotoluene						
1	29.534	29.534	0.0	414	6.52	
8 m-Nitrotoluene						
1	30.078	30.078	0.0	294	6.94	
9 3,5-Dinitroaniline						
1	31.378	31.378	0.0	582	7.07	
19 RDX						
1	31.994	31.994	0.0	368	7.50	
23 2,4-Dinitrotoluene						
1	33.191	33.191	0.0	582	6.59	
12 2,6-Dinitrotoluene						
1	34.184	34.184	0.0	368	6.86	
6 2-Amino-4,6-dinitrotoluene						
1	36.288	36.288	0.0	477	6.41	
26 4-Amino-2,6-dinitrotoluene						
1	36.914	36.914	0.0	399	5.67	
$ 30 3,4-Dinitrotoluene						
1	38.648	38.648	0.0	1094	20.5	
25 2,4,6-Trinitrotoluene						
1	40.611	40.611	0.0	441	5.02	

Det	RT	RT	DLT RT	Response		Flags
11 HMX						
1	42.398	42.398	0.0	416	6.37	
7 Nitroglycerin						
2	44.901	44.901	0.0	1762	19.3	
20 Tetryl						
1	46.608	46.608	0.0	630	5.30	
21 PETN						
2	53.164	53.164	0.0	2690	18.3	

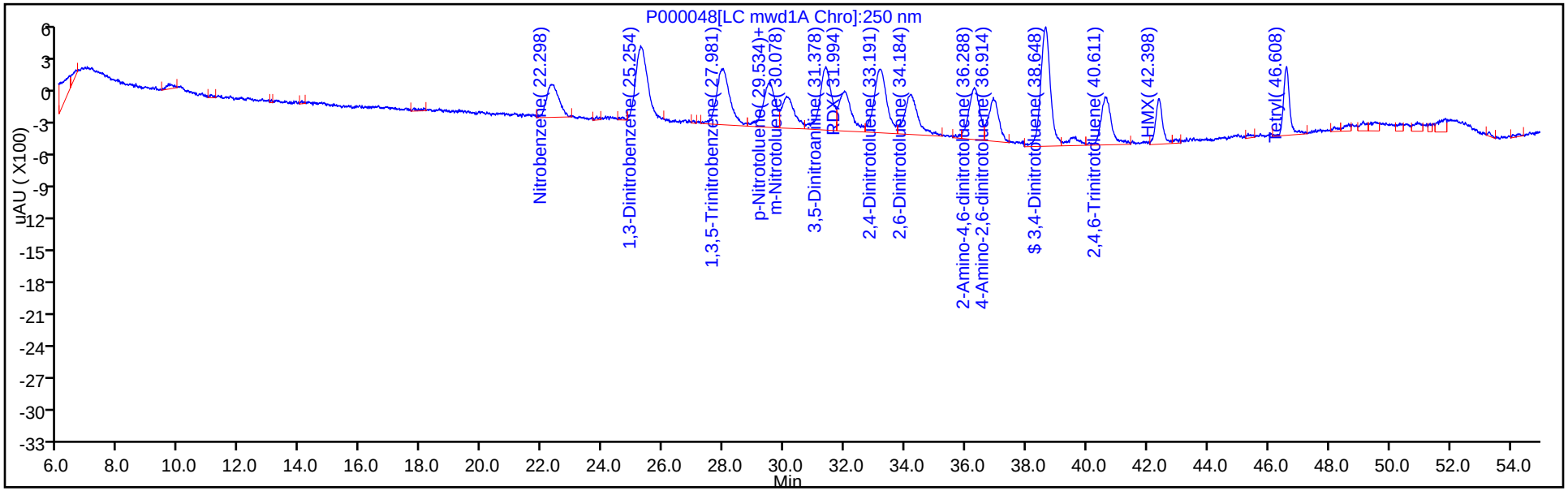
Report Date: 19-Apr-2013 06:54:52 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

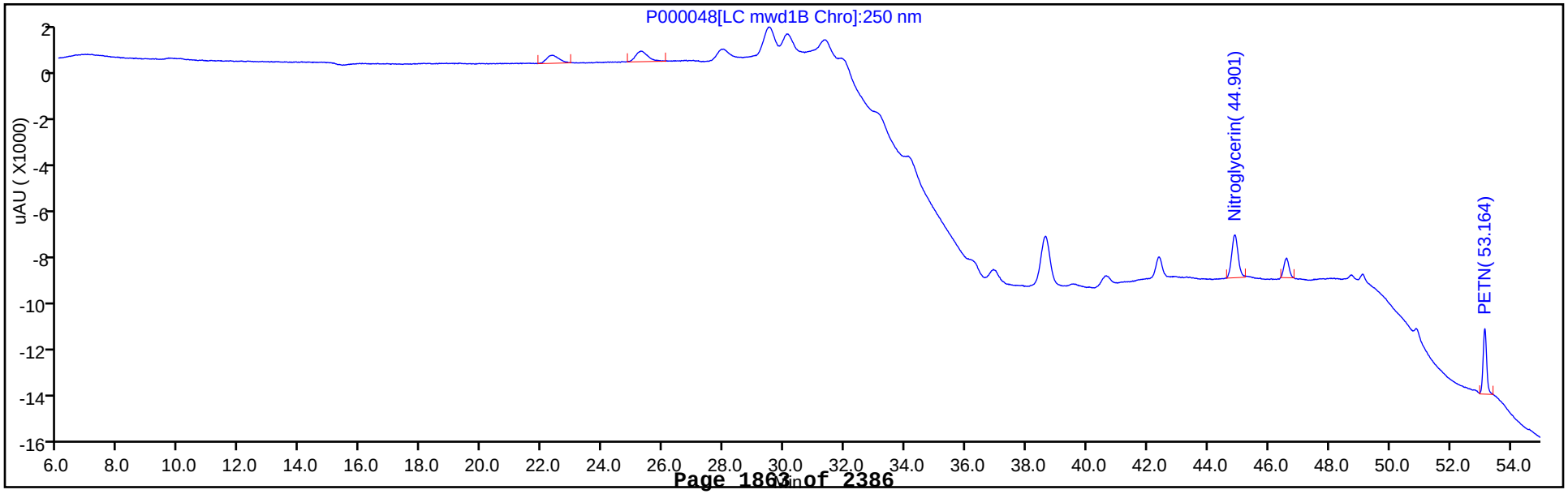
Data File: \\SACChrom\ChromData\LC12\20130415-3897.b\P000048.D

Injection Date:	18-Apr-2013 07:42:21	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	46
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14569/43 Calibration Date: 04/18/2013 17:37

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000057.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	49.32		102	100	2.0	20.0
Ethylene glycol dinitrate	Ave	21.88	22.18		101	100	1.4	20.0
1,3-Dinitrobenzene	Ave	106.1	106.3		100	100	0.3	20.0
1,3,5-Trinitrobenzene	Ave	82.14	80.15		97.6	100	-2.4	20.0
2-Nitrotoluene	Ave	63.47	61.77		97.3	100	-2.7	20.0
4-Nitrotoluene	Ave	63.47	61.77		97.3	100	-2.7	20.0
3-Nitrotoluene	Ave	42.38	41.31		97.5	100	-2.5	20.0
3,5-Dinitroaniline	Ave	82.33	82.43		100	100	0.1	20.0
RDX	Ave	49.04	47.01		95.9	100	-4.1	20.0
2,4-Dinitrotoluene	Ave	88.34	90.43		102	100	2.4	20.0
2,6-Dinitrotoluene	Ave	53.63	53.82		100	100	0.4	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	72.34		97.2	100	-2.8	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	66.47		94.5	100	-5.5	20.0
2,4,6-Trinitrotoluene	Ave	87.92	86.97		98.9	100	-1.1	20.0
HMX	Ave	65.31	62.72		96.0	100	-4.0	20.0
Nitroglycerin	Ave	91.50	84.12		91.9	100	-8.1	20.0
Tetryl	Ave	118.9	129.0		108	100	8.4	20.0
PETN	Ave	146.8	141.9		96.7	100	-3.3	20.0
3,4-Dinitrotoluene	Ave	53.42	52.06		97.5	100	-2.5	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCV 320-14569/43 Calibration Date: 04/18/2013 17:37

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000057.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.34	22.09	22.59
Ethylene glycol dinitrate	23.28	23.03	23.53
1,3-Dinitrobenzene	25.27	25.02	25.52
1,3,5-Trinitrobenzene	27.96	27.71	28.21
2-Nitrotoluene	29.54	29.29	29.79
4-Nitrotoluene	29.54	29.29	29.79
3-Nitrotoluene	30.14	29.89	30.39
3,5-Dinitroaniline	31.38	31.13	31.63
RDX	32.02	31.77	32.27
2,4-Dinitrotoluene	33.20	32.95	33.45
2,6-Dinitrotoluene	34.23	33.98	34.48
2-Amino-4,6-dinitrotoluene	36.33	36.08	36.58
4-Amino-2,6-dinitrotoluene	36.96	36.71	37.21
2,4,6-Trinitrotoluene	40.66	40.41	40.91
HMX	42.42	42.17	42.67
Nitroglycerin	44.92	44.67	45.17
Tetryl	46.62	46.37	46.87
PETN	53.20	52.95	53.45
3,4-Dinitrotoluene	38.68	38.43	38.93

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000057.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	18-Apr-2013 17:37:25	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003897-043		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	5
Lims Batch ID:	14569	Lims Sample ID:	43
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130415-3897.b\LC12_Conf_8330.m		
Last Update:	19-Apr-2013 06:44:39	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK006		

First Level Reviewer: noonanr Date: 19-Apr-2013 06:44:39

Det	RT	RT	DLT RT	Response		Flags
10 2,4,6-Trinitrophenol						
2	0.104	0.104	0.0	104	0	
1	0.261	0.261	0.0	174	0	
5 Nitrobenzene						
1	22.341	22.341	0.0	4932	102.0	
3 Ethylene glycol dinitrate						
2	23.284	23.284	0.0	2218	101.4	
24 1,3-Dinitrobenzene						
1	25.274	25.274	0.0	10634	100.3	
27 1,3,5-Trinitrobenzene						
1	27.964	27.964	0.0	8015	97.6	
16 o-Nitrotoluene						
1	29.541	29.541	0.0	6177	97.3	
15 p-Nitrotoluene						
1	29.541	29.541	0.0	6177	97.3	
8 m-Nitrotoluene						
1	30.141	30.141	0.0	4131	97.5	
9 3,5-Dinitroaniline						
1	31.384	31.384	0.0	8243	100.1	
19 RDX						
1	32.018	32.018	0.0	4701	95.9	
23 2,4-Dinitrotoluene						
1	33.204	33.204	0.0	9043	102.4	
12 2,6-Dinitrotoluene						
1	34.228	34.228	0.0	5382	100.4	
6 2-Amino-4,6-dinitrotoluene						M
1	36.334	36.334	0.0	7234	97.2	M

Det	RT	RT	DLT RT	Response	Flags
26 4-Amino-2,6-dinitrotoluene					
1	36.961	36.961	0.0	6647	94.5
$ 30 3,4-Dinitrotoluene					
1	38.681	38.681	0.0	5206	97.5
25 2,4,6-Trinitrotoluene					
1	40.664	40.664	0.0	8697	98.9
11 HMX					
1	42.418	42.418	0.0	6272	96.0
7 Nitroglycerin					
2	44.918	44.918	0.0	8412	91.9
20 Tetryl					
1	46.624	46.624	0.0	12898	108.4
21 PETN					
2	53.198	53.198	0.0	14185	96.7

QC Flag Legend

Review Flags
M - Manually Integrated

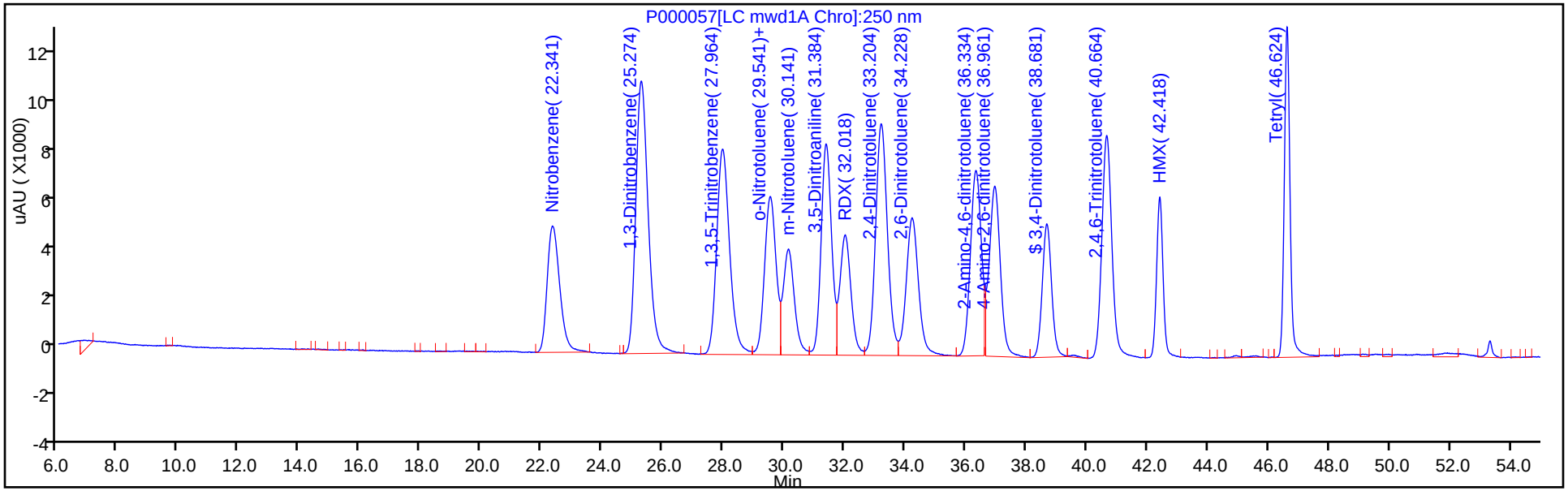
Report Date: 19-Apr-2013 06:44:40 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

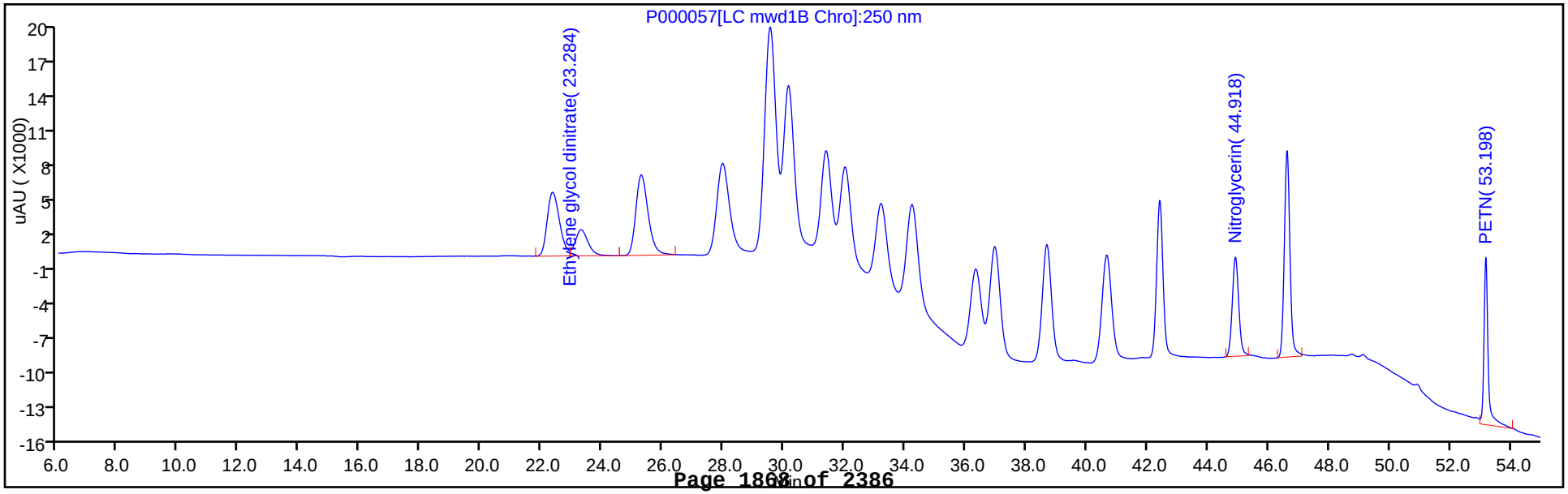
Data File: \\SACChrom\ChromData\LC12\20130415-3897.b\P000057.D

Injection Date:	18-Apr-2013 17:37:25	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	43
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

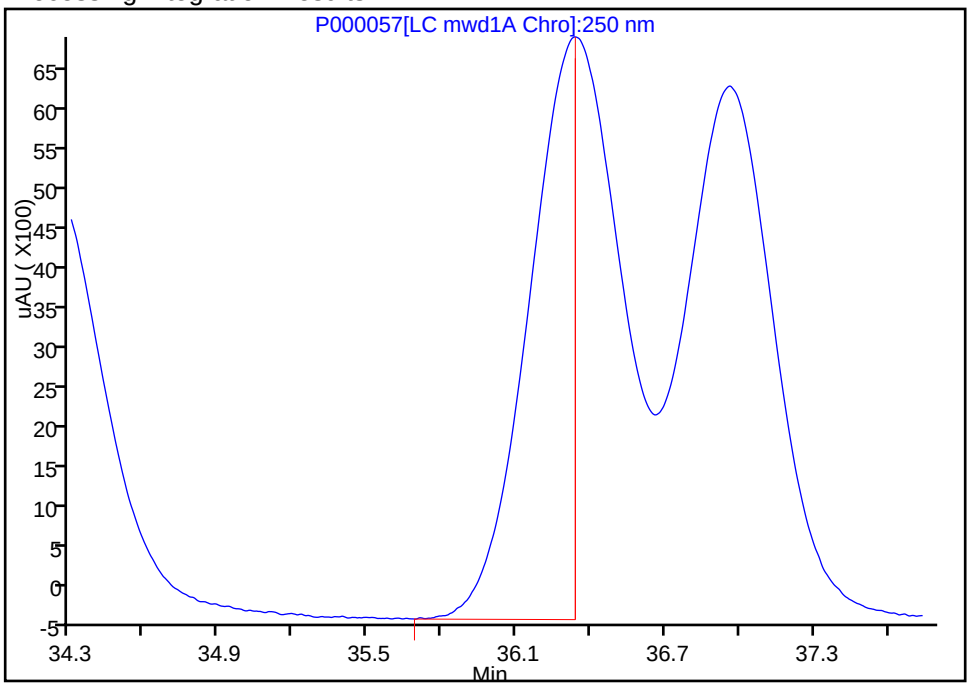
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000057.D		
Injection Date:	18-Apr-2013 17:37:25	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	43
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

6 2-Amino-4,6-dinitrotoluene, Signal: 1, Type: quant, RT: 36.33, Det: LC mwd1A

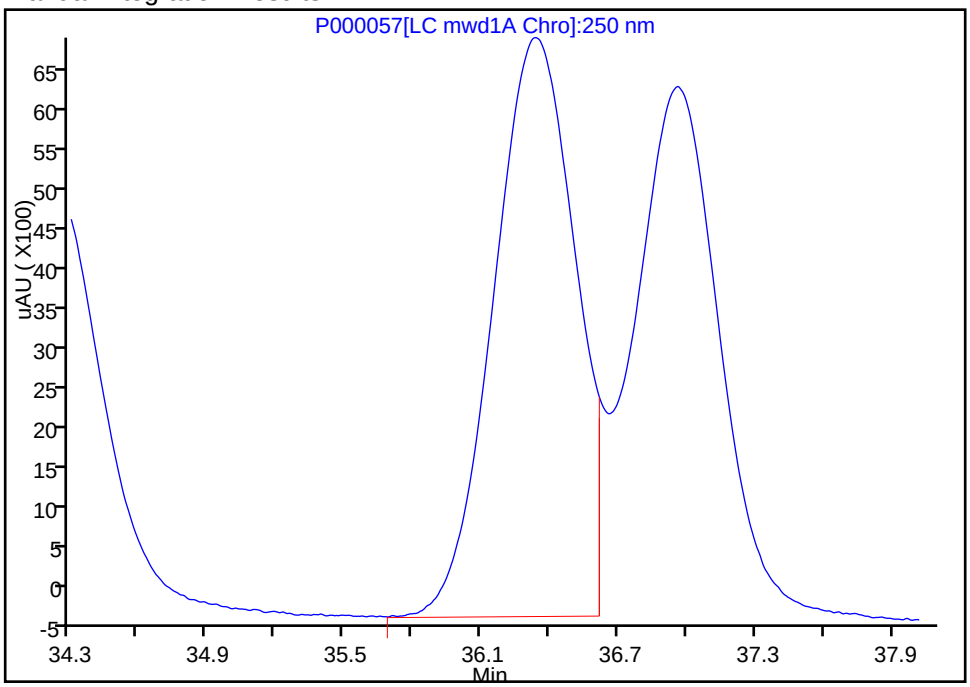
Processing Integration Results

RT: 36.34
Response: 7246
Amount: 97.390182



Manual Integration Results

RT: 36.33
Response: 7234
Amount: 97.228896



Reviewer: noonanr, 19-Apr-2013 06:44:39
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14569/63 Calibration Date: 04/19/2013 04:38

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000067.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	62.20		6.43	5.00	28.7	30.0
1,3-Dinitrobenzene	Ave	106.1	133.8		6.31	5.00	26.2	30.0
1,3,5-Trinitrobenzene	Ave	82.14	101.4		6.17	5.00	23.4	30.0
2-Nitrotoluene	Ave	63.47	78.20		6.16	5.00	23.2	30.0
4-Nitrotoluene	Ave	63.47	78.20		6.16	5.00	23.2	30.0
3-Nitrotoluene	Ave	42.38	54.00		6.37	5.00	27.4	30.0
3,5-Dinitroaniline	Ave	82.33	115.6		7.02	5.00	40.4*	30.0
RDX	Ave	49.04	74.00		7.55	5.00	50.9*	30.0
2,4-Dinitrotoluene	Ave	88.34	116.6		6.60	5.00	32.0*	30.0
2,6-Dinitrotoluene	Ave	53.63	73.40		6.84	5.00	36.9*	30.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	95.80		6.44	5.00	28.8	30.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	83.20		5.92	5.00	18.3	30.0
2,4,6-Trinitrotoluene	Ave	87.92	88.00		5.00	5.00	0.0	30.0
HMX	Ave	65.31	83.40		6.39	5.00	27.7	30.0
Nitroglycerin	Ave	91.50	85.90		18.8	20.0	-6.1	30.0
Tetryl	Ave	118.9	126.6		5.32	5.00	6.4	30.0
PETN	Ave	146.8	133.4		18.2	20.0	-9.1	30.0
3,4-Dinitrotoluene	Ave	53.42	53.95		20.2	20.0	1.0	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Lab Sample ID: CCVL 320-14569/63 Calibration Date: 04/19/2013 04:38

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: P000067.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.35	22.10	22.60
1,3-Dinitrobenzene	25.31	25.06	25.56
1,3,5-Trinitrobenzene	28.00	27.75	28.25
2-Nitrotoluene	29.57	29.32	29.82
4-Nitrotoluene	29.57	29.32	29.82
3-Nitrotoluene	30.16	29.91	30.41
3,5-Dinitroaniline	31.43	31.18	31.68
RDX	32.04	31.79	32.29
2,4-Dinitrotoluene	33.24	32.99	33.49
2,6-Dinitrotoluene	34.24	33.99	34.49
2-Amino-4,6-dinitrotoluene	36.39	36.14	36.64
4-Amino-2,6-dinitrotoluene	37.01	36.76	37.26
2,4,6-Trinitrotoluene	40.71	40.46	40.96
HMX	42.44	42.19	42.69
Nitroglycerin	44.95	44.70	45.20
Tetryl	46.65	46.40	46.90
PETN	53.20	52.95	53.45
3,4-Dinitrotoluene	38.71	38.46	38.96

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	19-Apr-2013 04:38:39	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003897-063		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	10
Lims Batch ID:	14569	Lims Sample ID:	63
Sublist:	chrom-LC12_Conf_8330*sub4		
Method:	\\SACChrom\ChromData\LC12\20130415-3897.b\LC12_Conf_8330.m		
Last Update:	19-Apr-2013 06:54:17	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK006		

First Level Reviewer: noonanr Date: 19-Apr-2013 06:54:17

Det	RT	RT	DLT RT	Response		Flags
5 Nitrobenzene						
1	22.347	22.347	0.0	311	6.43	
24 1,3-Dinitrobenzene						
1	25.310	25.310	0.0	669	6.31	
27 1,3,5-Trinitrobenzene						M
1	27.997	27.997	0.0	507	6.17	M
16 o-Nitrotoluene						M
1	29.567	29.567	0.0	391	6.16	M
15 p-Nitrotoluene						M
1	29.567	29.567	0.0	391	6.16	M
8 m-Nitrotoluene						M
1	30.160	30.160	0.0	270	6.37	M
9 3,5-Dinitroaniline						M
1	31.430	31.430	0.0	578	7.02	M
19 RDX						M
1	32.040	32.040	0.0	370	7.55	M
23 2,4-Dinitrotoluene						M
1	33.244	33.244	0.0	583	6.60	M
12 2,6-Dinitrotoluene						M
1	34.244	34.244	0.0	367	6.84	M
6 2-Amino-4,6-dinitrotoluene						
1	36.387	36.387	0.0	479	6.44	
26 4-Amino-2,6-dinitrotoluene						
1	37.014	37.014	0.0	416	5.92	
$ 30 3,4-Dinitrotoluene						
1	38.714	38.714	0.0	1079	20.2	
25 2,4,6-Trinitrotoluene						
1	40.714	40.714	0.0	440	5.00	

Det	RT	RT	DLT RT	Response	Flags
11 HMX					
1	42.440	42.440	0.0	417	6.39
7 Nitroglycerin					
2	44.947	44.947	0.0	1718	18.8
20 Tetryl					
1	46.650	46.650	0.0	633	5.32
21 PETN					
2	53.200	53.200	0.0	2667	18.2

QC Flag Legend

Review Flags
M - Manually Integrated

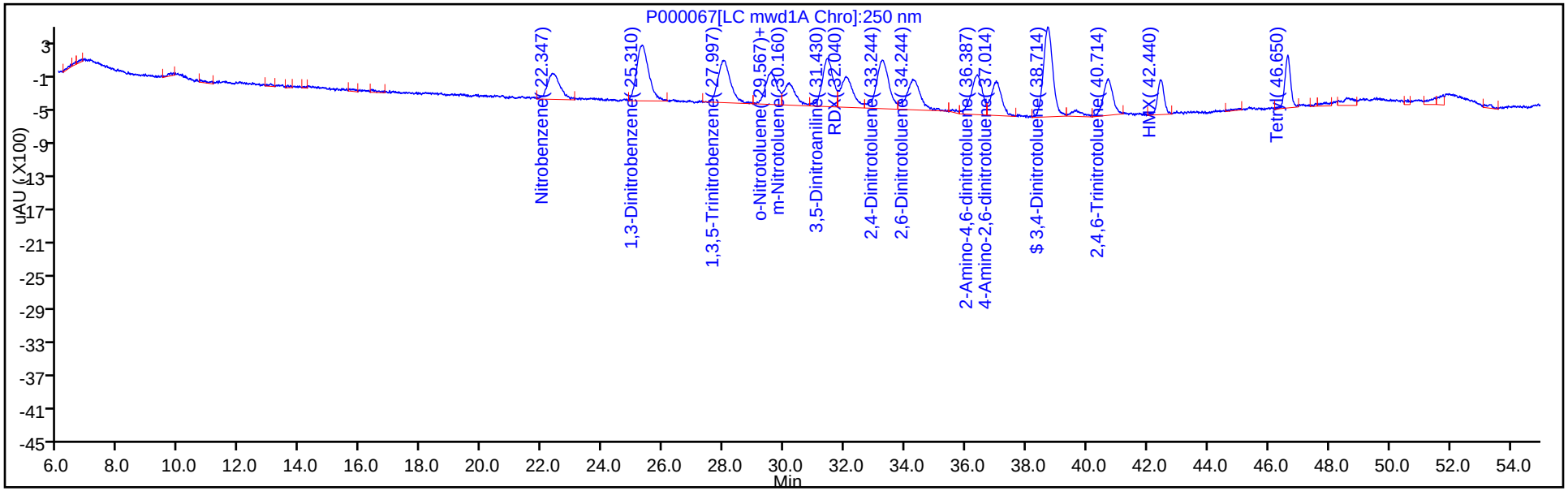
Report Date: 19-Apr-2013 06:54:18 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

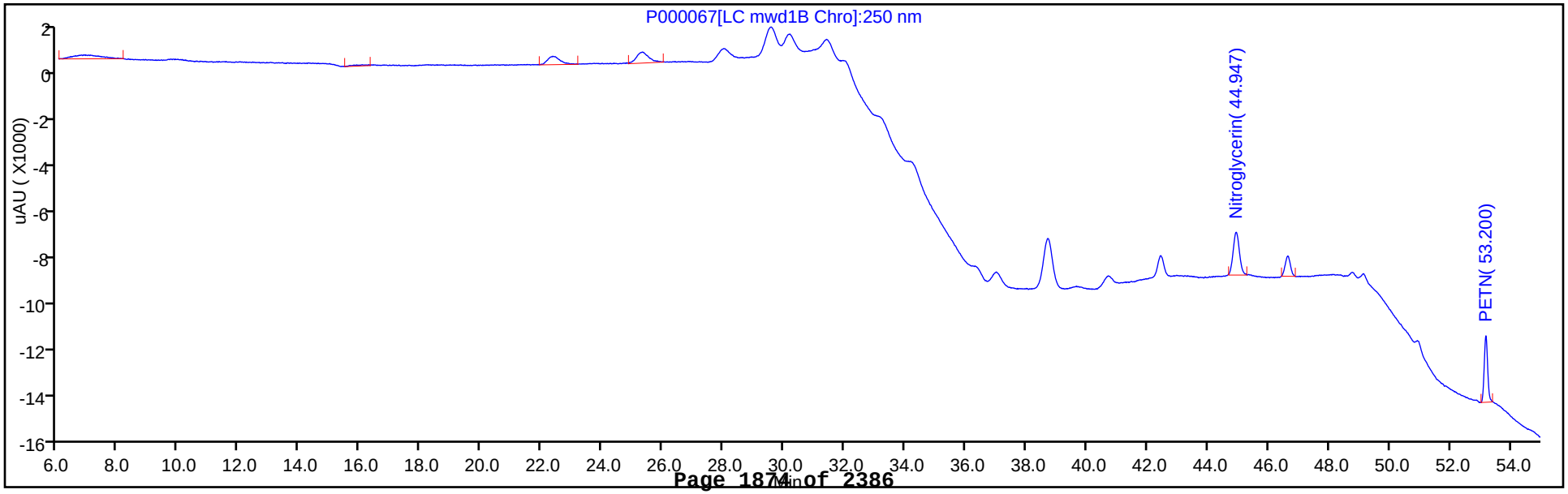
Data File: \\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D

Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

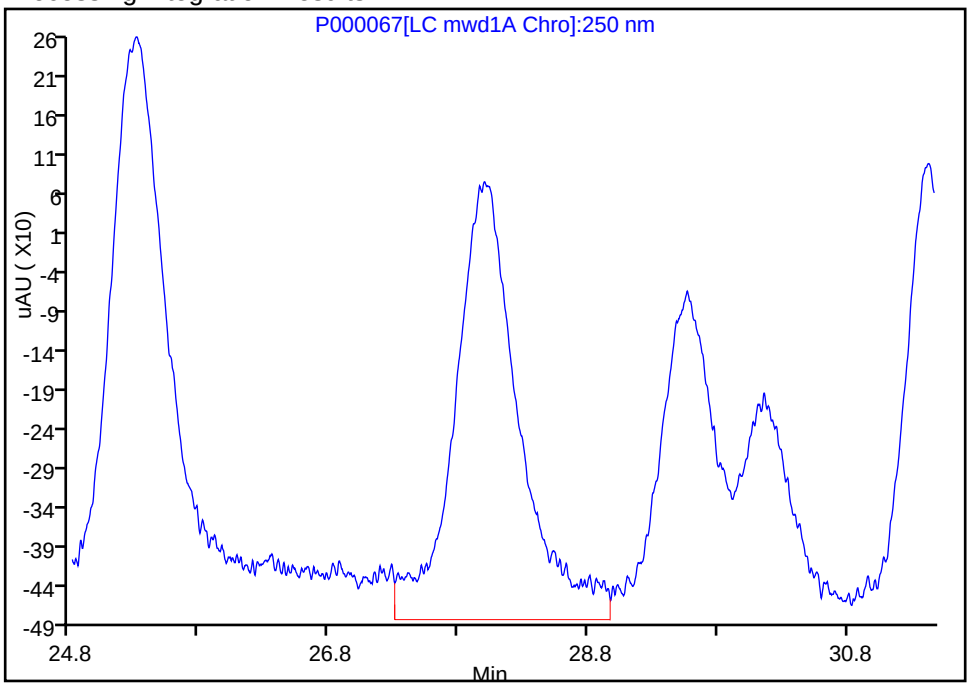
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

27 1,3,5-Trinitrobenzene, Signal: 1, Type: quant, RT: 28.00, Det: LC mwd1A

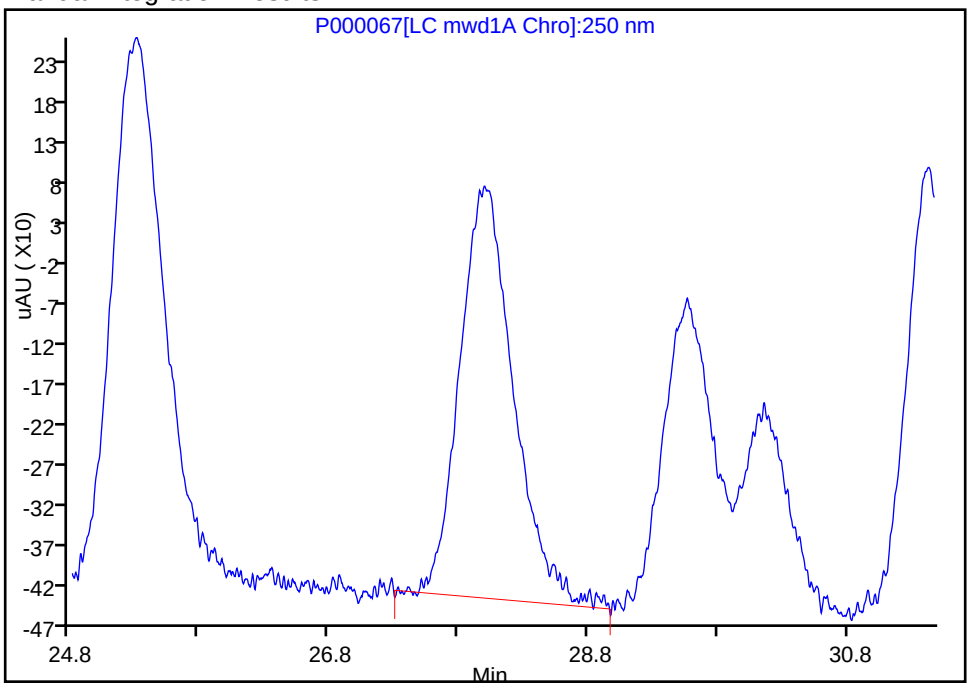
Processing Integration Results

RT: 28.00
Response: 553
Amount: 6.732429



Manual Integration Results

RT: 28.00
Response: 507
Amount: 6.172407



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

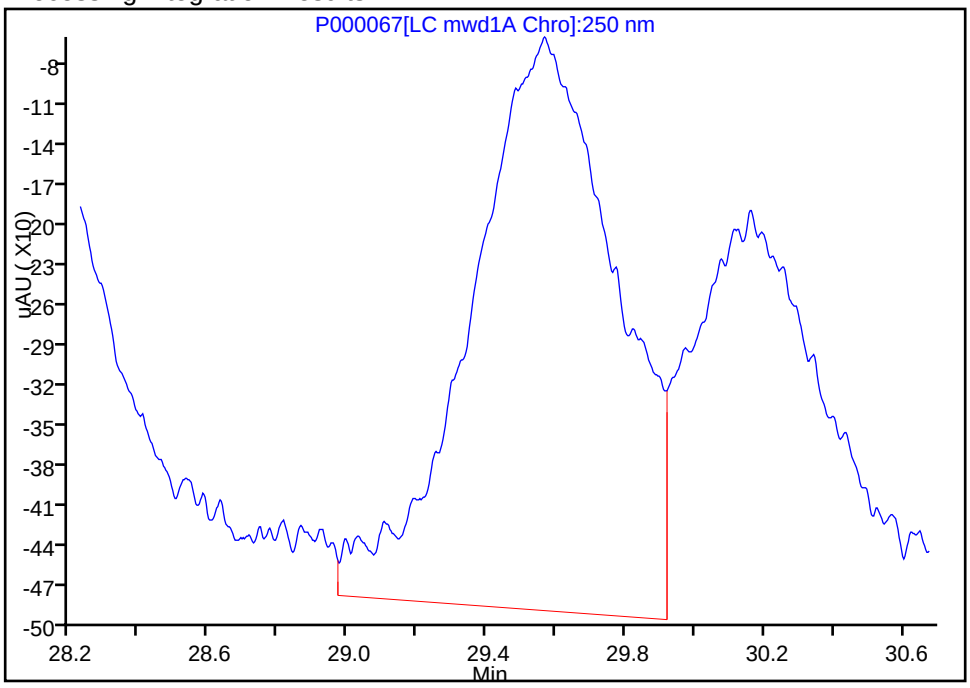
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

16 o-Nitrotoluene, Signal: 1, Type: quant, RT: 29.57, Det: LC mwd1A

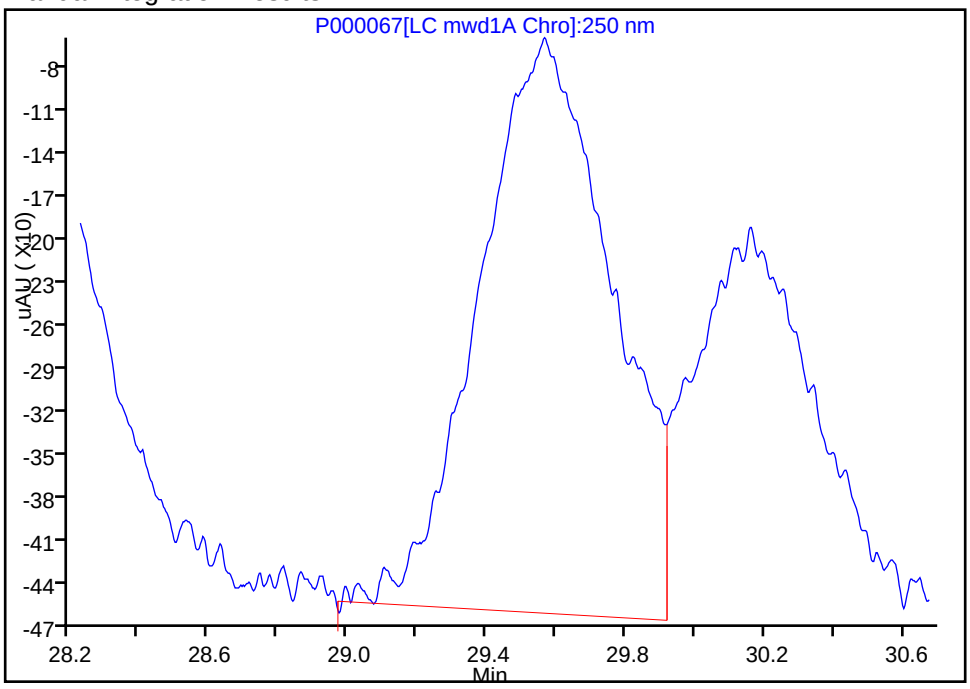
Processing Integration Results

RT: 29.57
Response: 426
Amount: 6.711713



Manual Integration Results

RT: 29.57
Response: 391
Amount: 6.160282



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

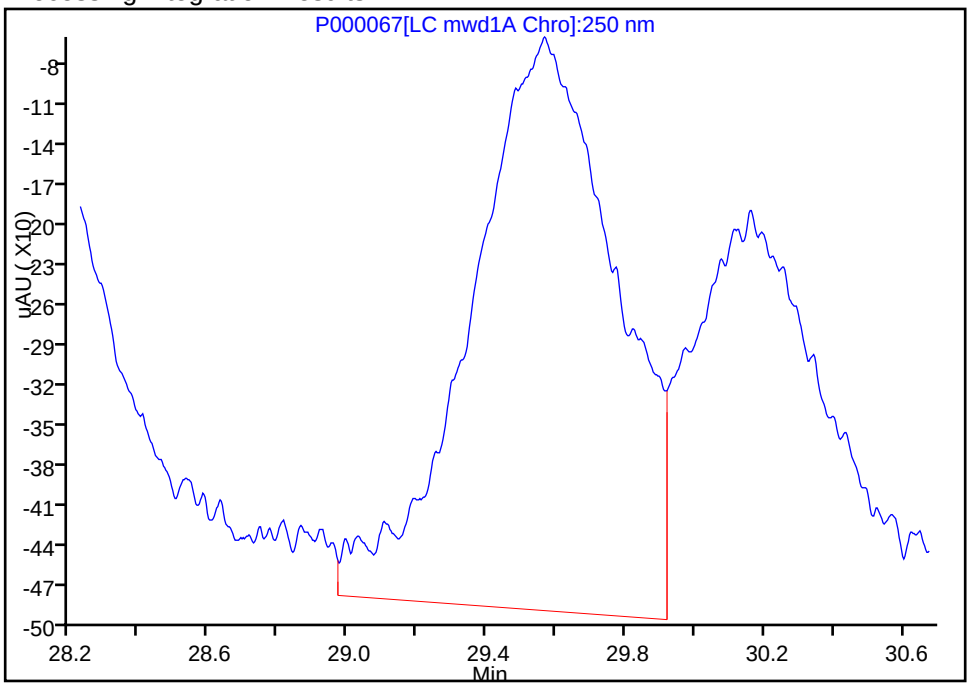
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

15 p-Nitrotoluene, Signal: 1, Type: quant, RT: 29.57, Det: LC mwd1A

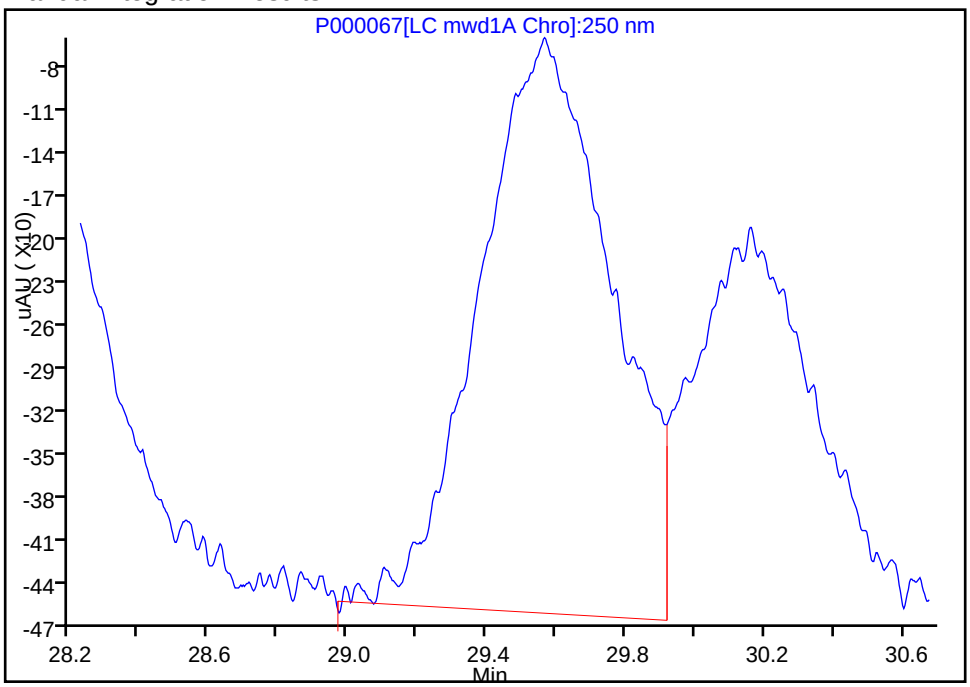
Processing Integration Results

RT: 29.57
Response: 426
Amount: 6.711713



Manual Integration Results

RT: 29.57
Response: 391
Amount: 6.160282



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Report Date: 19-Apr-2013 06:54:18 Chrom Revision: 2.1 07-Apr-2013 20:36:54

Manual Integration/User Assign Peak Report

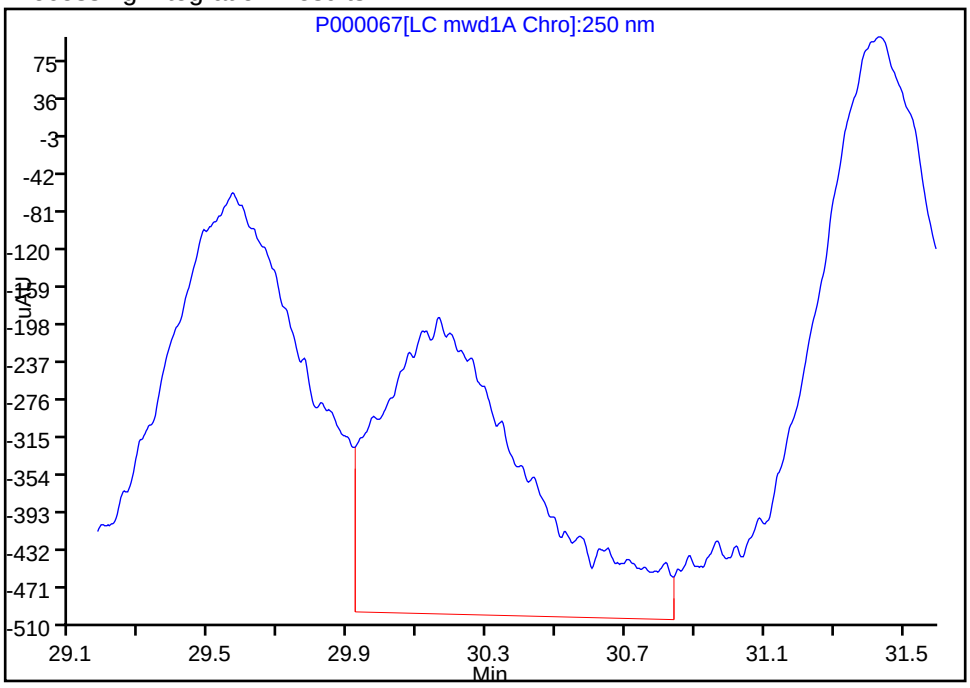
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

8 m-Nitrotoluene, Signal: 1, Type: quant, RT: 30.16, Det: LC mwd1A

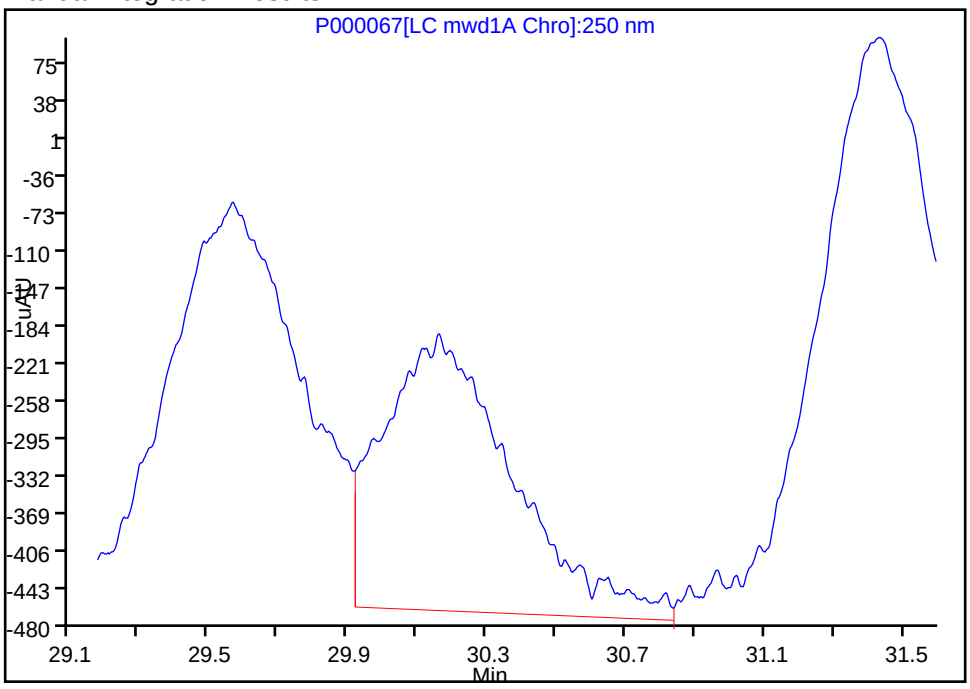
Processing Integration Results

RT: 30.16
Response: 306
Amount: 7.220834



Manual Integration Results

RT: 30.16
Response: 270
Amount: 6.371324



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

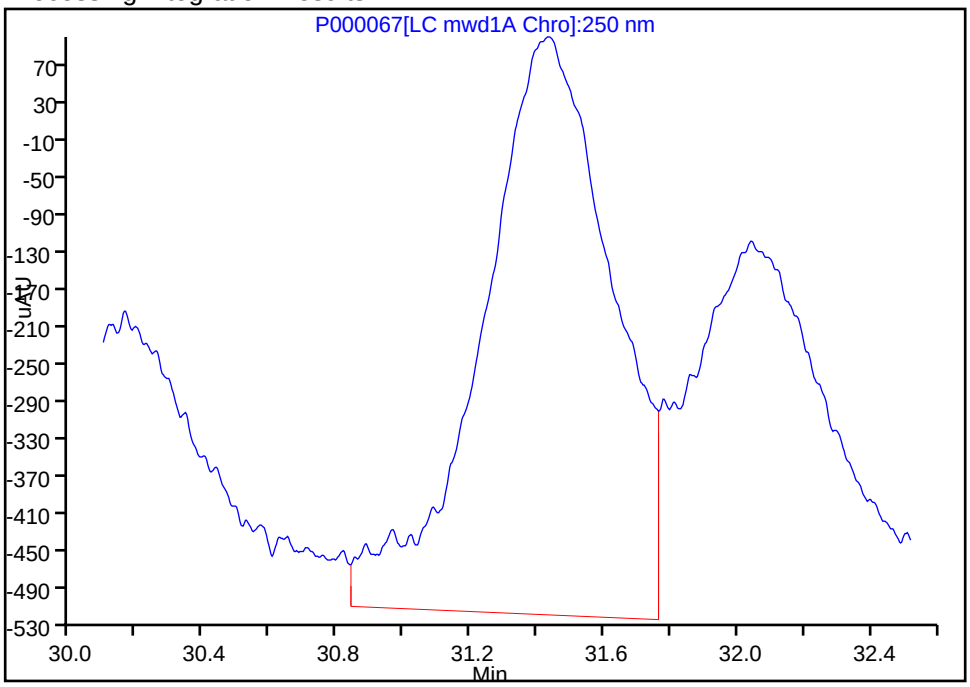
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

9 3,5-Dinitroaniline, Signal: 1, Type: quant, RT: 31.43, Det: LC mwd1A

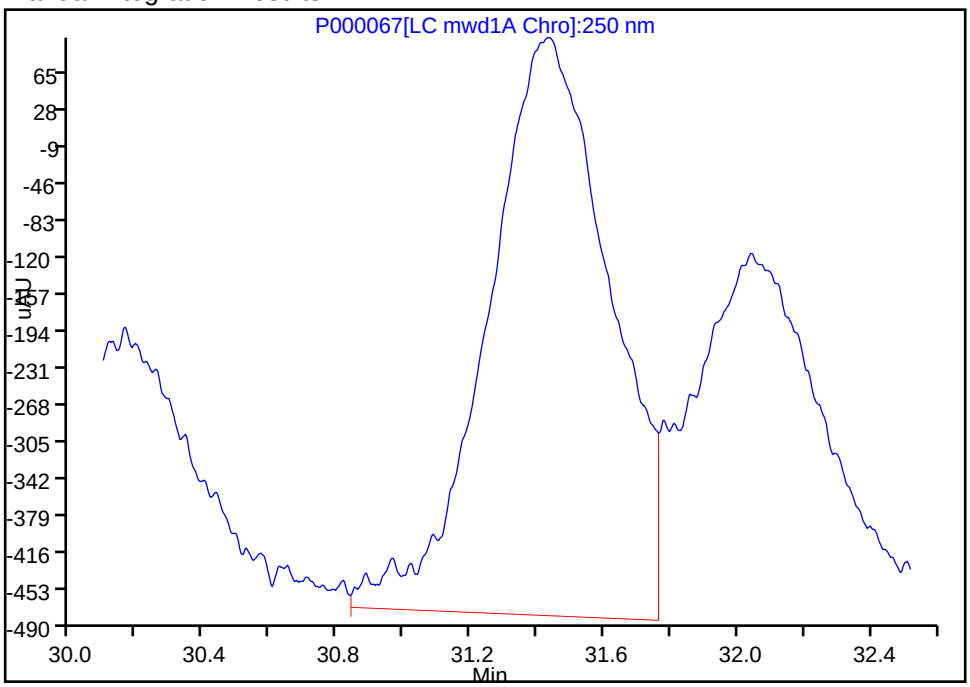
Processing Integration Results

RT: 31.44
Response: 611
Amount: 7.421308



Manual Integration Results

RT: 31.43
Response: 578
Amount: 7.020485



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Report Date: 19-Apr-2013 06:54:18 Chrom Revision: 2.1 07-Apr-2013 20:36:54

Manual Integration/User Assign Peak Report

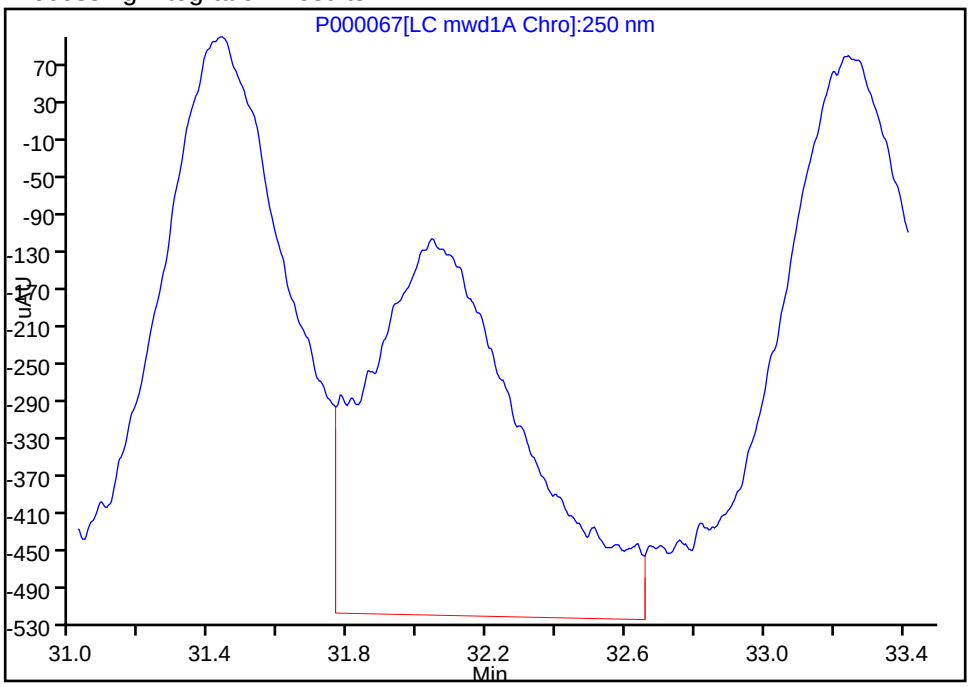
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

19 RDX, Signal: 1, Type: quant, RT: 32.04, Det: LC mwd1A

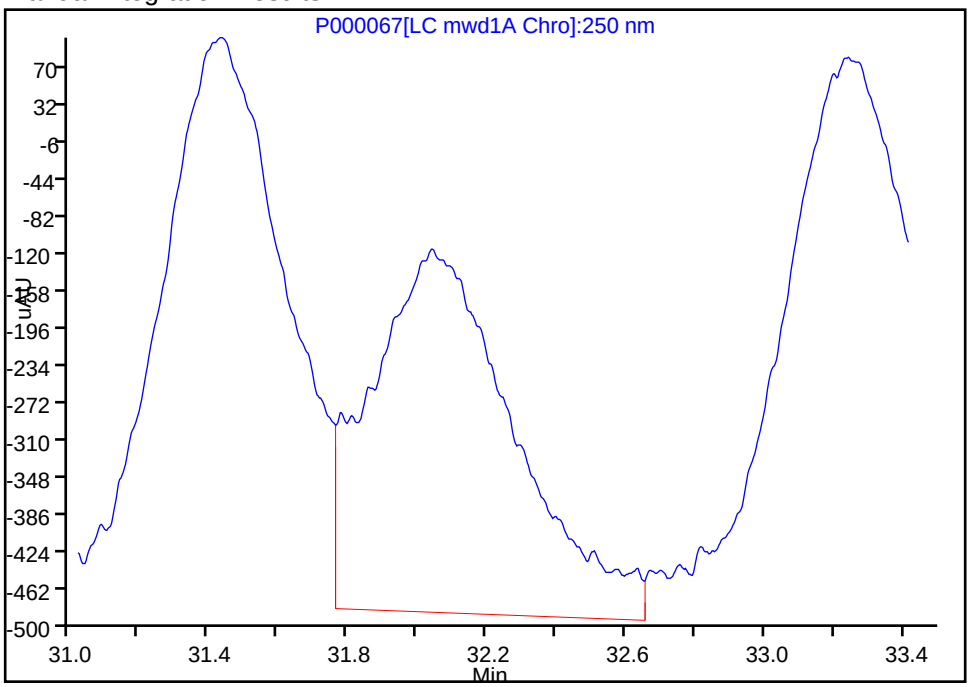
Processing Integration Results

RT: 32.04
Response: 402
Amount: 8.197850



Manual Integration Results

RT: 32.04
Response: 370
Amount: 7.545284



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

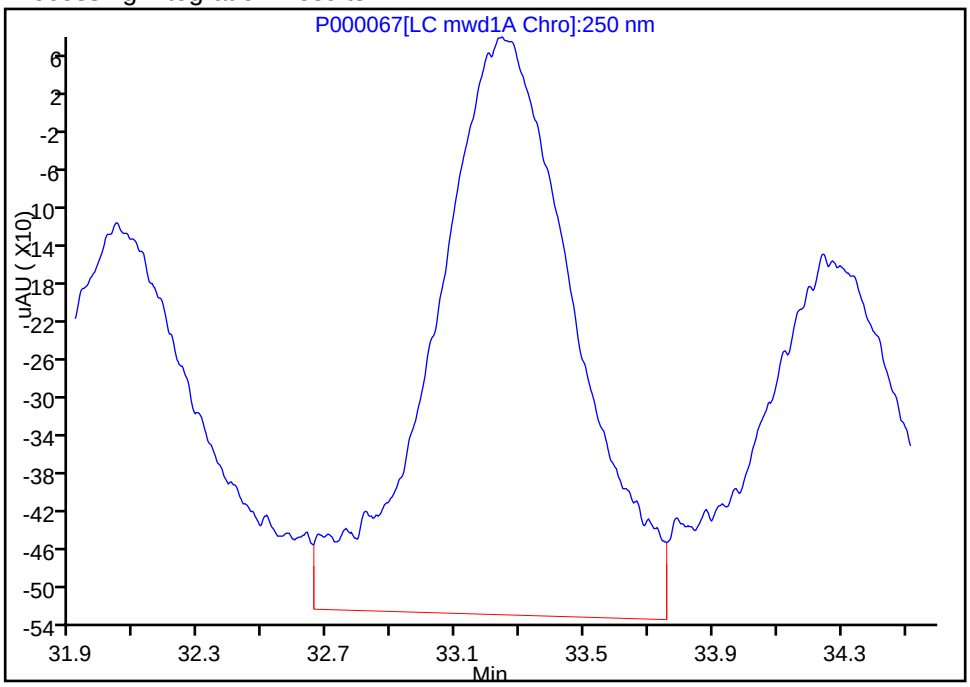
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

23 2,4-Dinitrotoluene, Signal: 1, Type: quant, RT: 33.24, Det: LC mwd1A

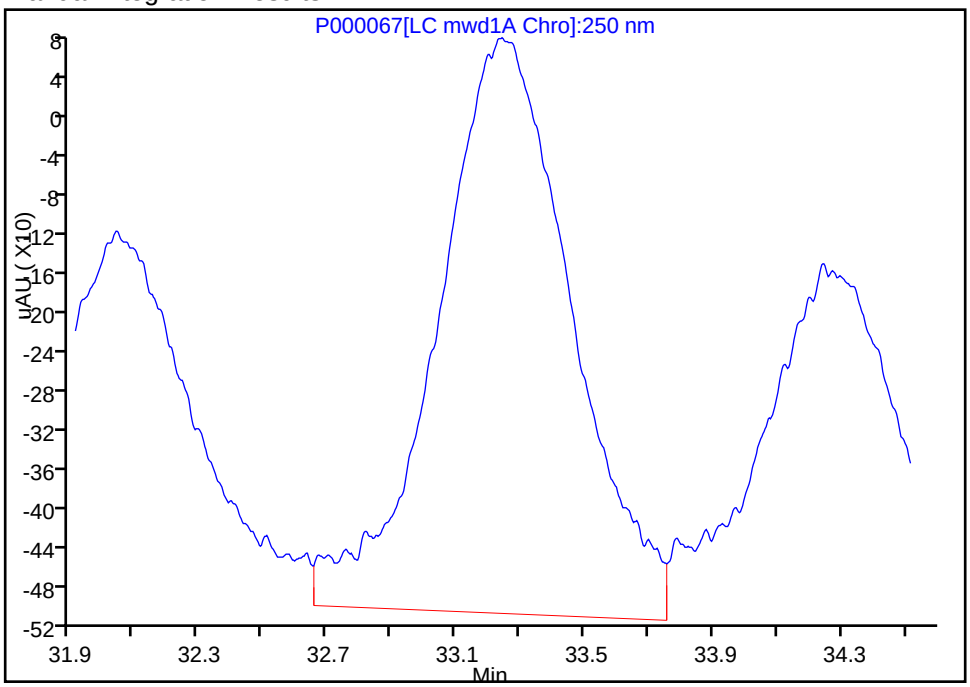
Processing Integration Results

RT: 33.24
Response: 608
Amount: 6.882305



Manual Integration Results

RT: 33.24
Response: 583
Amount: 6.599315



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

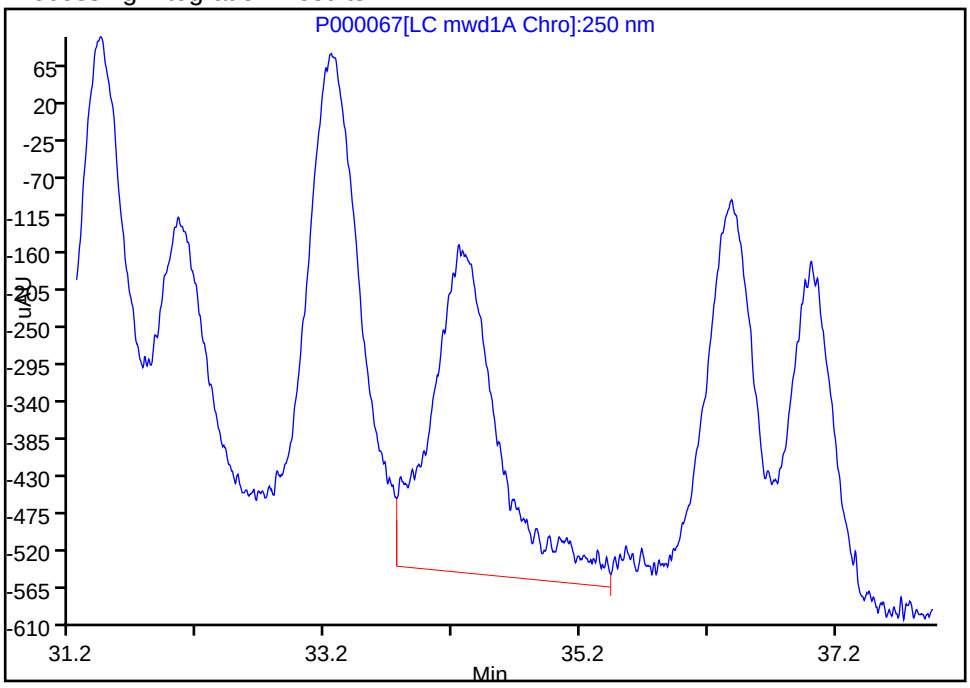
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000067.D		
Injection Date:	19-Apr-2013 04:38:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	63
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

12 2,6-Dinitrotoluene, Signal: 1, Type: quant, RT: 34.24, Det: LC mwd1A

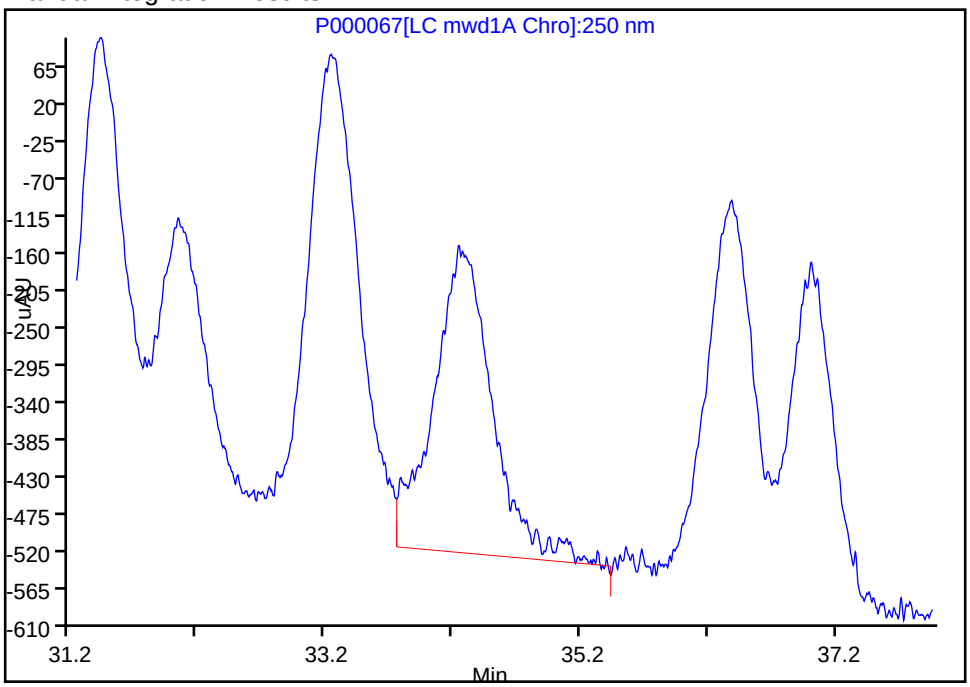
Processing Integration Results

RT: 34.25
Response: 392
Amount: 7.309478



Manual Integration Results

RT: 34.24
Response: 367
Amount: 6.843312



Reviewer: noonanr, 19-Apr-2013 06:54:17
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-13509/1-A

Matrix: Solid Lab File ID: L-000030.D

Analysis Method: 8330B Date Collected:

Extraction Method: 8330B Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.00(g) Date Analyzed: 04/13/2013 16:32

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 14179 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U M	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	92		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000030.D		
Lims ID:	MB 320-13509/1-A	Client ID:	
Inject. Date:	13-Apr-2013 16:32:09	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0003856-030		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	74
Lims Batch ID:	14179	Lims Sample ID:	30
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 09:01:38	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer: russellk		Date:	15-Apr-2013 10:36:07

Det	RT	EXP RT	DLT RT	Response	ng/ml	Flags
27	1,3,5-Trinitrobenzene					M
1	25.355	25.346	0.009	163	0.7567	M
7	Nitroglycerin					
2	30.392	30.360	0.032	3562	39.6	
$ 30	3,4-Dinitrotoluene					
1	32.435	32.446	-0.011	4018	57.6	
2	32.435	32.450	-0.015	7675	59.4	
16	o-Nitrotoluene					
1	36.965	37.063	-0.098	448	8.65	

QC Flag Legend

Review Flags
M - Manually Integrated

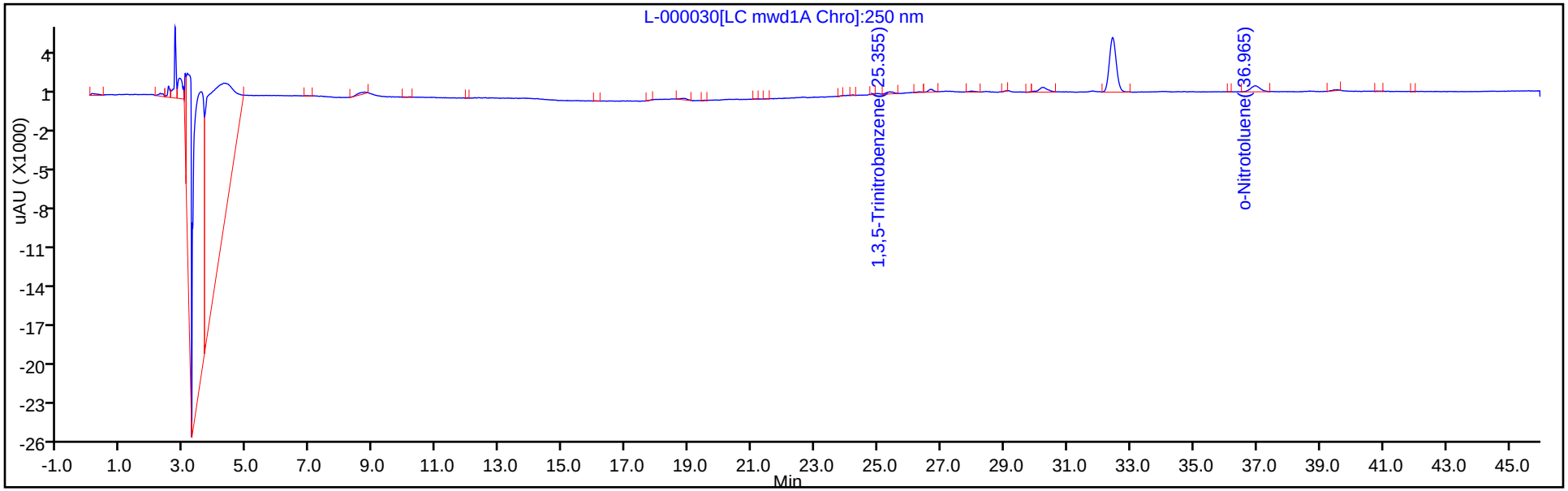
Report Date: 16-Apr-2013 09:01:38 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

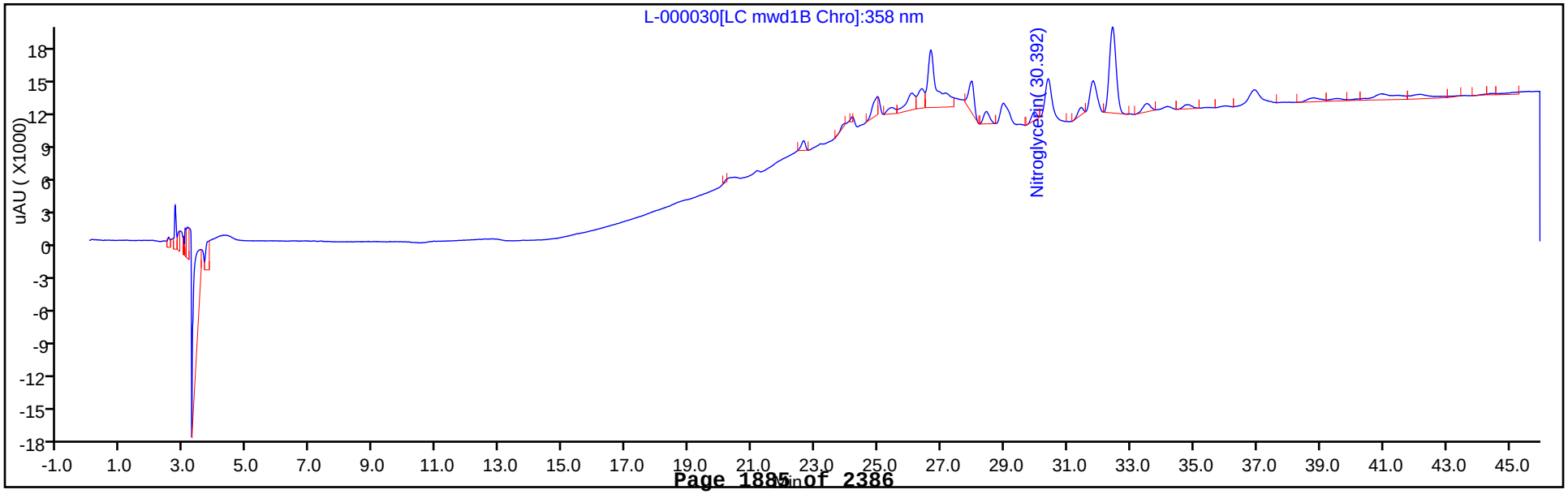
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000030.D

Injection Date:	13-Apr-2013 16:32:09	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	30
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

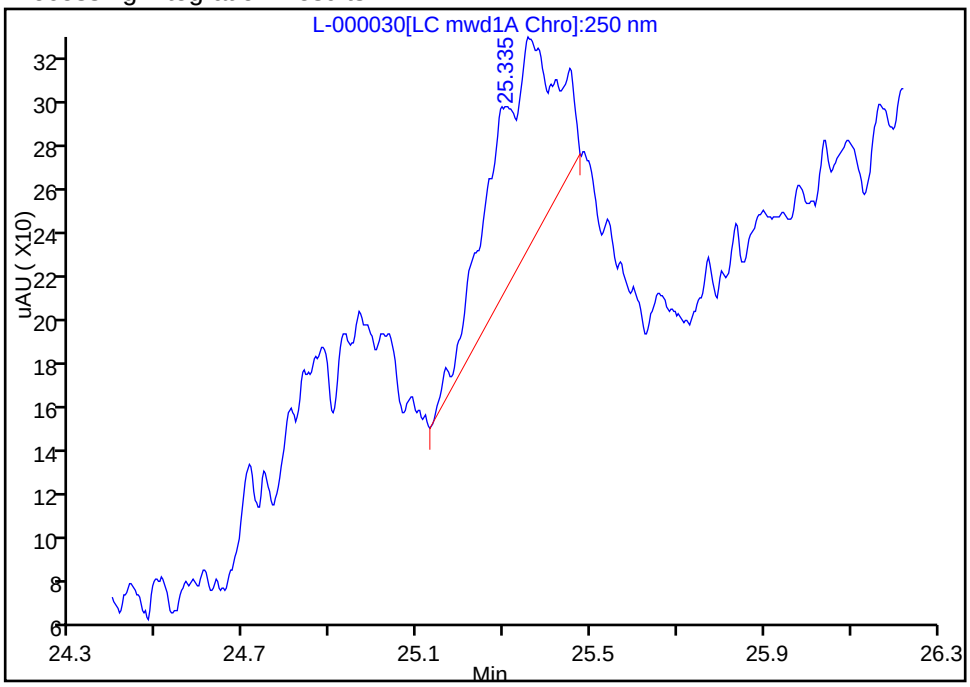
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000030.D		
Injection Date:	13-Apr-2013 16:32:09	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	30
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

27 1,3,5-Trinitrobenzene, Signal: 1, Type: quant, RT: 25.35, Det: LC mwd1A

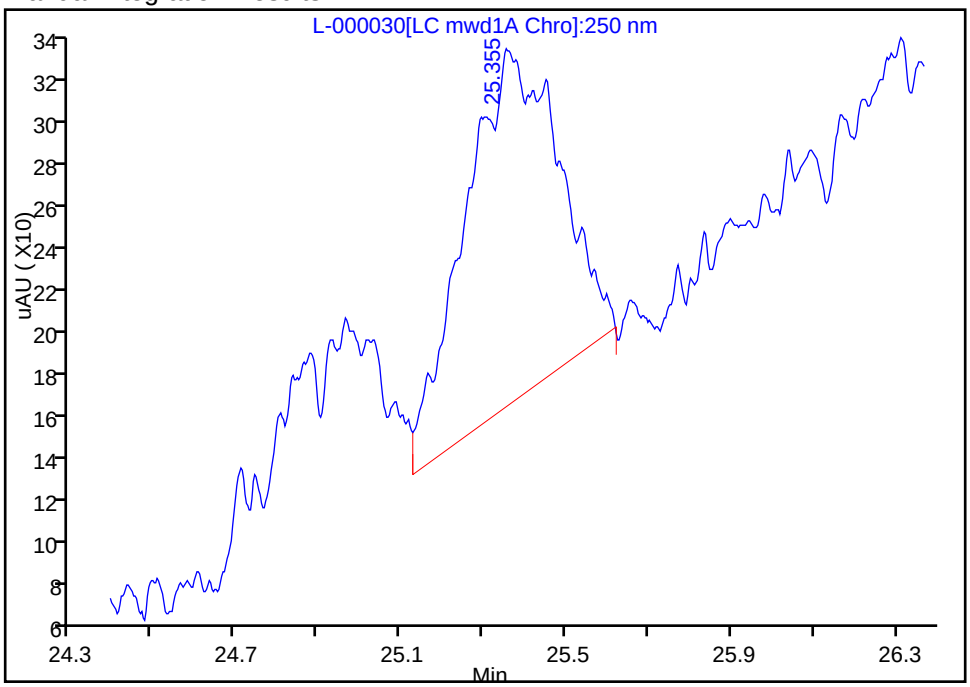
Processing Integration Results

RT: 25.34
Response: 73
Amount: 0.338892



Manual Integration Results

RT: 25.36
Response: 163
Amount: 0.756705



Reviewer: russellk, 15-Apr-2013 10:34:10
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-22274-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-13509/1-A

Matrix: Solid | Lab File ID: P000050.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 8330B | Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.00(g) | Date Analyzed: 04/18/2013 09:54

Con. Extract Vol.: 80(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Zorbax CN ID: 4.6(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 14569 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.0105	J	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	117	*M*	78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000050.D		
Lims ID:	MB 320-13509/1-A	Client ID:	
Inject. Date:	18-Apr-2013 09:54:40	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0003897-047		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	48
Lims Batch ID:	14569	Lims Sample ID:	47
Method:	\\SACChrom\ChromData\LC12\20130415-3897.b\LC12_Conf_8330.m		
Last Update:	18-Apr-2013 12:13:28	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK017		
First Level Reviewer: noonanr		Date:	18-Apr-2013 12:11:41

Det	RT	RT	DLT RT	Response	ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.089	0.194	-0.105	184	0	
1	0.089	0.194	-0.105	173	0	
9 3,5-Dinitroaniline						
1	31.399	31.378	0.021	119	1.45	
$ 30 3,4-Dinitrotoluene						M
1	38.613	38.648	-0.035	3902	73.0	M
20 Tetryl						
1	46.503	46.608	-0.105	156	1.31	

QC Flag Legend

Review Flags
M - Manually Integrated

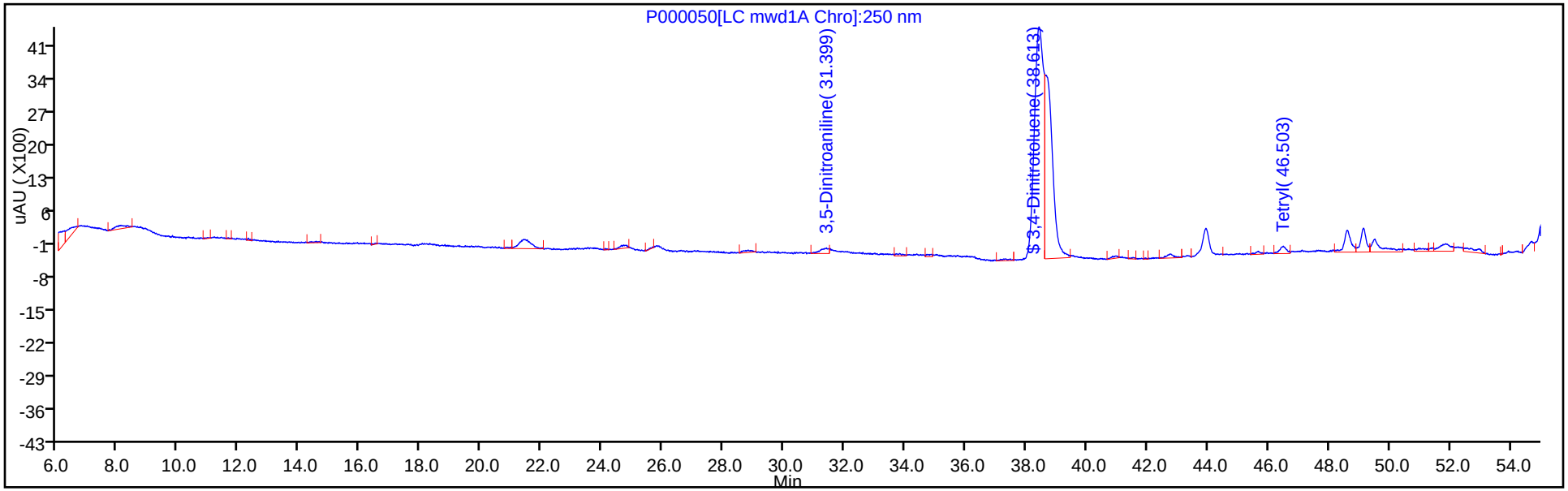
Report Date: 18-Apr-2013 12:13:28 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

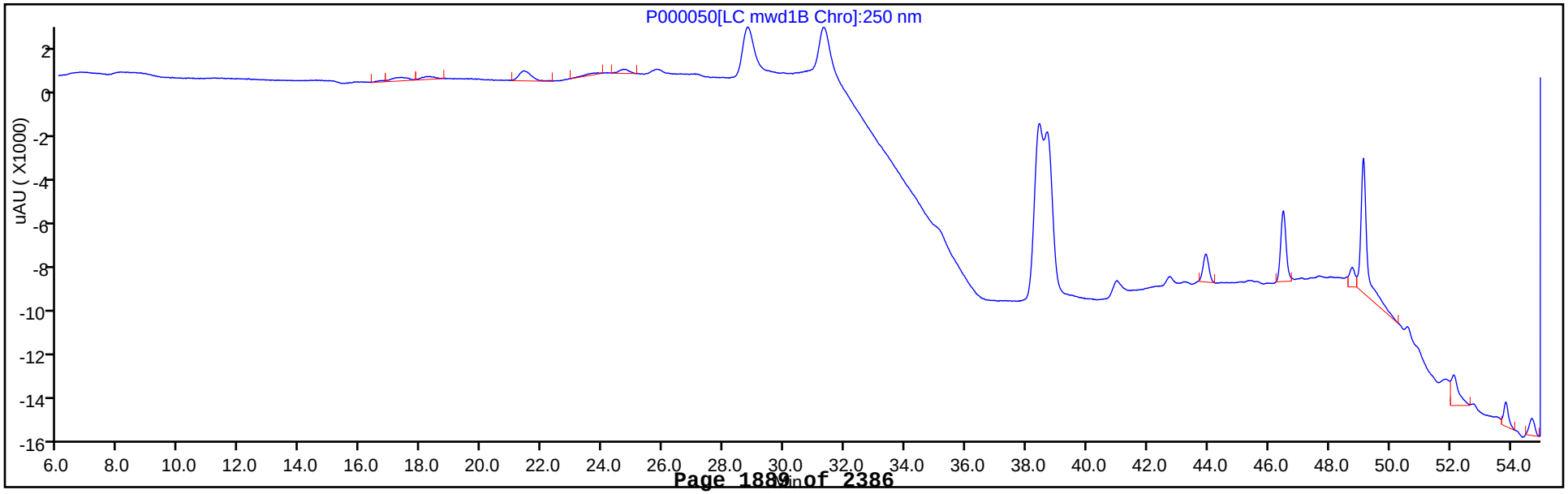
Data File: \\SACChrom\ChromData\LC12\20130415-3897.b\P000050.D

Injection Date:	18-Apr-2013 09:54:40	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	47
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

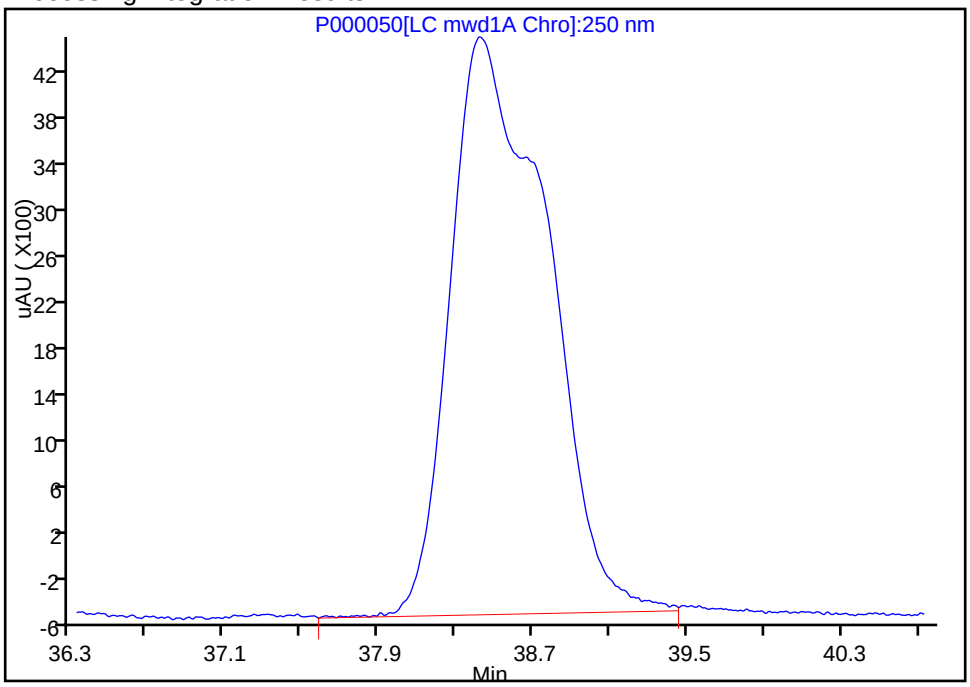
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130415-3897.b\P000050.D		
Injection Date:	18-Apr-2013 09:54:40	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14569	Lims Sample ID:	47
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 1, Type: quant, RT: 38.65, Det: LC mwd1A

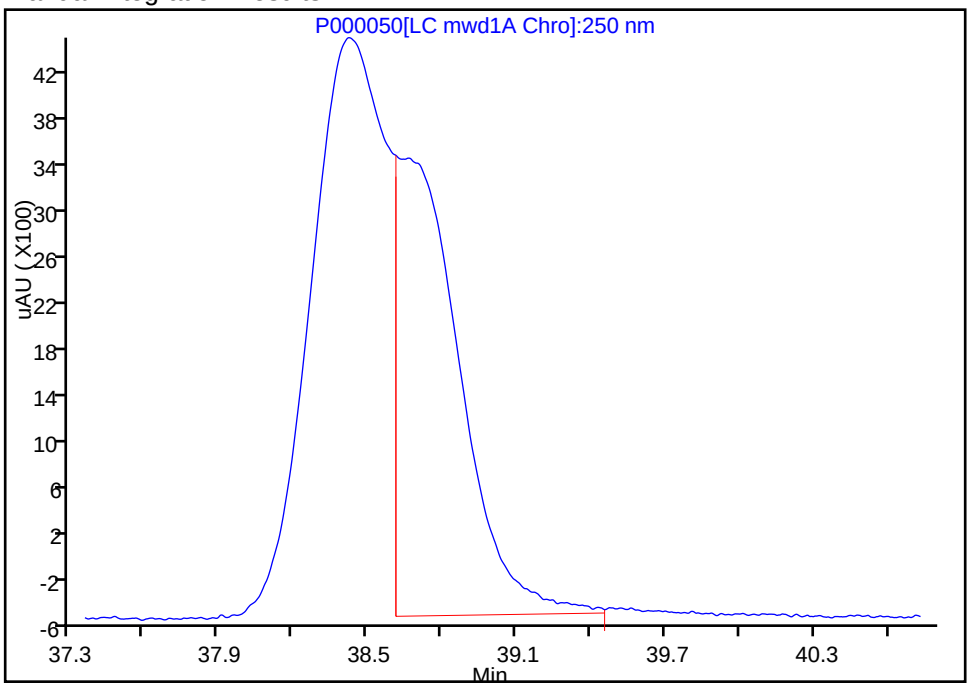
Processing Integration Results

RT: 38.42
Response: 4904
Amount: 91.805693



Manual Integration Results

RT: 38.61
Response: 3902
Amount: 73.047678



Reviewer: noonanr, 18-Apr-2013 12:09:24
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-13509/2-A

Matrix: Solid Lab File ID: L-000031.D

Analysis Method: 8330B Date Collected:

Extraction Method: 8330B Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.00(g) Date Analyzed: 04/13/2013 17:29

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 14179 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.451		0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.454		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.459		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.462		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.452		0.25	0.050	0.0073
2691-41-0	HMX	0.473		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.466		0.25	0.050	0.018
55-63-0	Nitroglycerin	0.930	M	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.496		0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.501		0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.489		0.25	0.050	0.018
78-11-5	PETN	0.989	M	0.50	0.25	0.025
121-82-4	RDX	0.466		0.25	0.050	0.012
479-45-8	Tetryl	0.390		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.462		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.410		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	94		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000031.D		
Lims ID:	LCS 320-13509/2-A	Client ID:	
Inject. Date:	13-Apr-2013 17:29:12	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	320-0003856-031		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	75
Lims Batch ID:	14179	Lims Sample ID:	31
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 09:06:29	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer: russellk		Date:	15-Apr-2013 10:37:53

Det	RT	EXP RT	DLT RT	Response	ng/ml	Flags
11 HMX						
1	20.209	20.200	0.009	5571	59.1	
19 RDX						
1	23.442	23.453	-0.011	5470	58.2	
27 1,3,5-Trinitrobenzene						
1	25.339	25.346	-0.007	12434	57.7	
24 1,3-Dinitrobenzene						
1	28.052	28.050	0.002	13133	57.4	
9 3,5-Dinitroaniline						
1	29.189	29.196	-0.007	8306	55.2	
5 Nitrobenzene						
1	29.589	29.580	0.009	5730	58.2	
20 Tetryl						
1	29.912	29.910	0.002	5982	48.7	
7 Nitroglycerin						M
2	30.349	30.360	-0.011	10465	116.2	M
25 2,4,6-Trinitrotoluene						
1	31.079	31.086	-0.007	6656	51.2	
26 4-Amino-2,6-dinitrotoluene						
1	32.099	32.096	0.003	5923	56.8	
$ 30 3,4-Dinitrotoluene						M
1	32.442	32.446	-0.004	4096	58.7	
2	32.439	32.450	-0.011	8126	62.9	M
6 2-Amino-4,6-dinitrotoluene						
1	32.775	32.783	-0.008	6528	56.4	
12 2,6-Dinitrotoluene						
1	33.899	33.913	-0.014	4498	56.4	
23 2,4-Dinitrotoluene						
1	34.282	34.300	-0.018	7543	57.8	

Det	RT	EXP RT	DLT RT	Response	ng/ml	Flags
16 o-Nitrotoluene						
1	37.048	37.063	-0.015	3211	62.0	
15 p-Nitrotoluene						
1	38.235	38.233	0.002	4057	61.1	
8 m-Nitrotoluene						
1	39.655	39.676	-0.021	4096	62.6	
21 PETN						M
2	40.142	40.183	-0.041	6345	123.6	M

QC Flag Legend

Review Flags
M - Manually Integrated

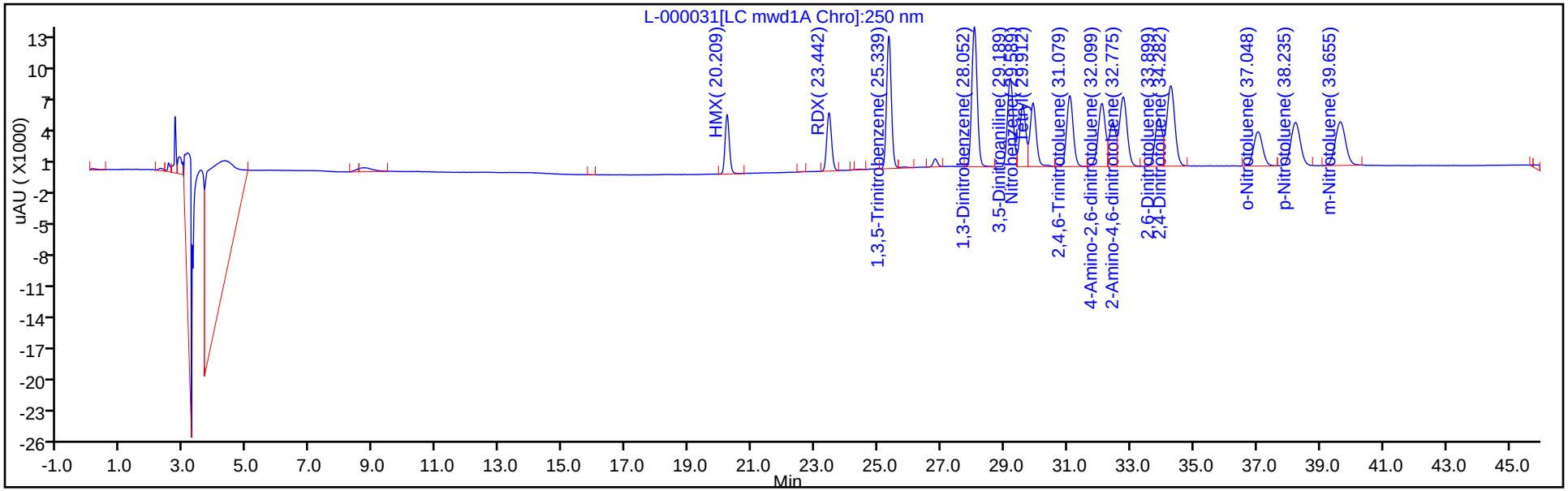
Report Date: 16-Apr-2013 09:06:29 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000031.D

Injection Date:	13-Apr-2013 17:29:12	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	31
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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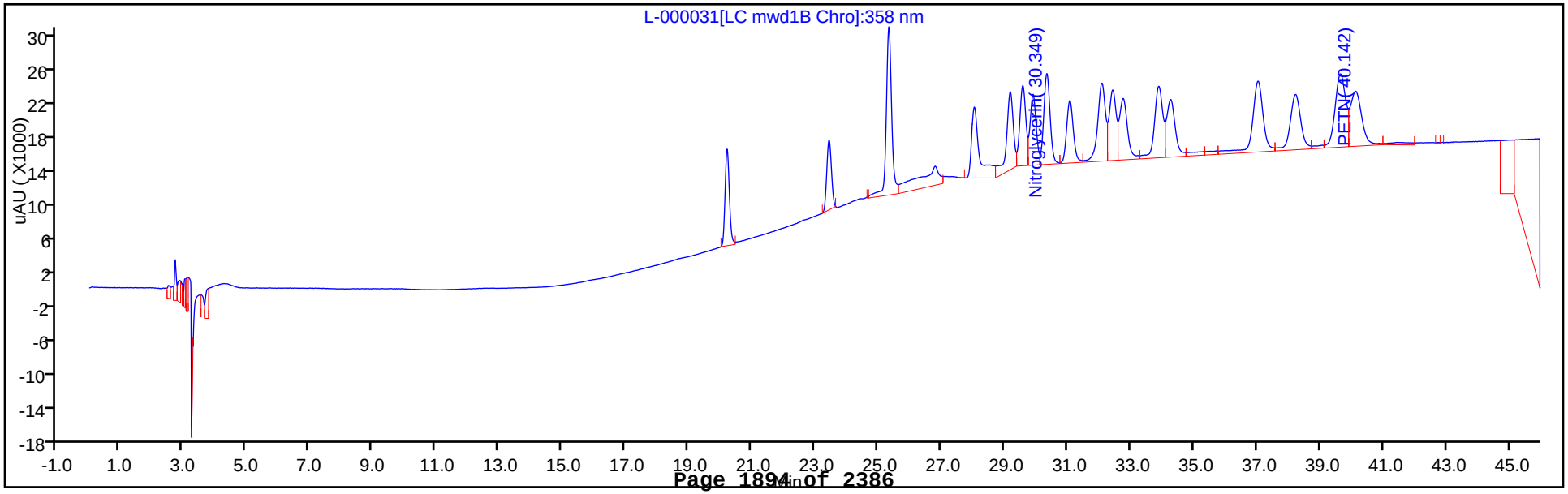


Report Date: 16-Apr-2013 09:06:29 Chrom Revision: 2.1 07-Apr-2013 20:36:54

Manual Integration/User Assign Peak Report

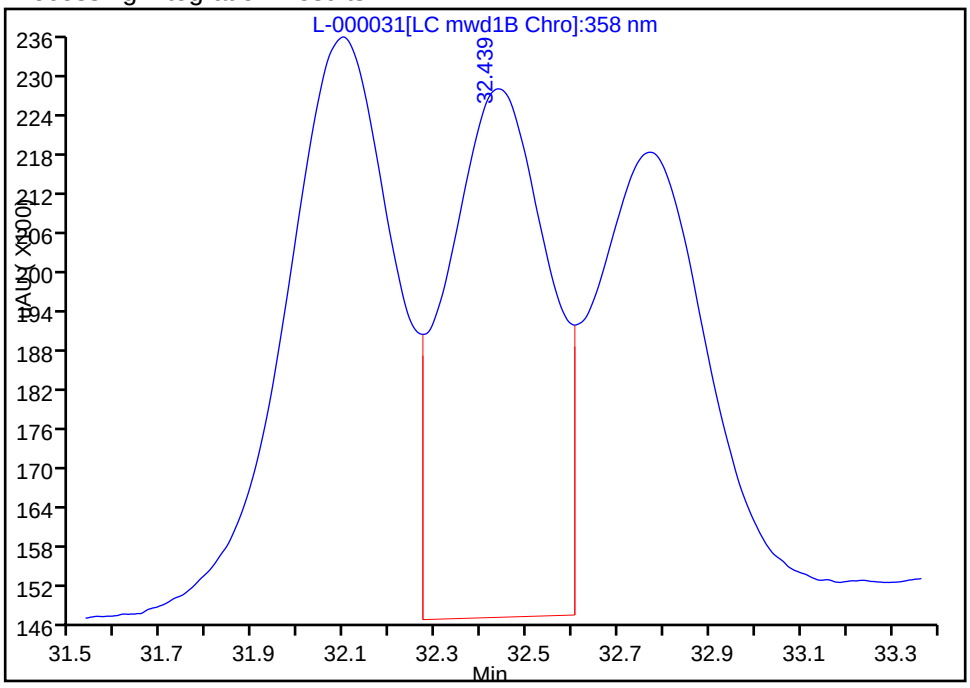
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000031.D		
Injection Date:	13-Apr-2013 17:29:12	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	31
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 2, Type: quant, RT: 32.45, Det: LC mwd1B

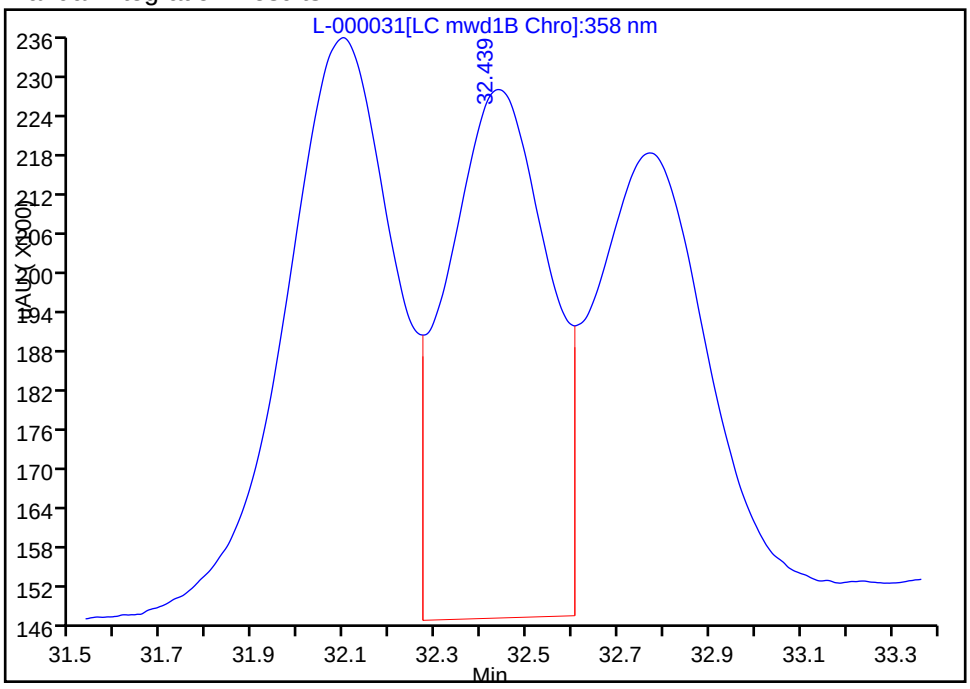
Processing Integration Results

RT: 32.44
Response: 8898
Amount: 68.918558



Manual Integration Results

RT: 32.44
Response: 8126
Amount: 62.939111



Reviewer: noonanr, 16-Apr-2013 09:06:29
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

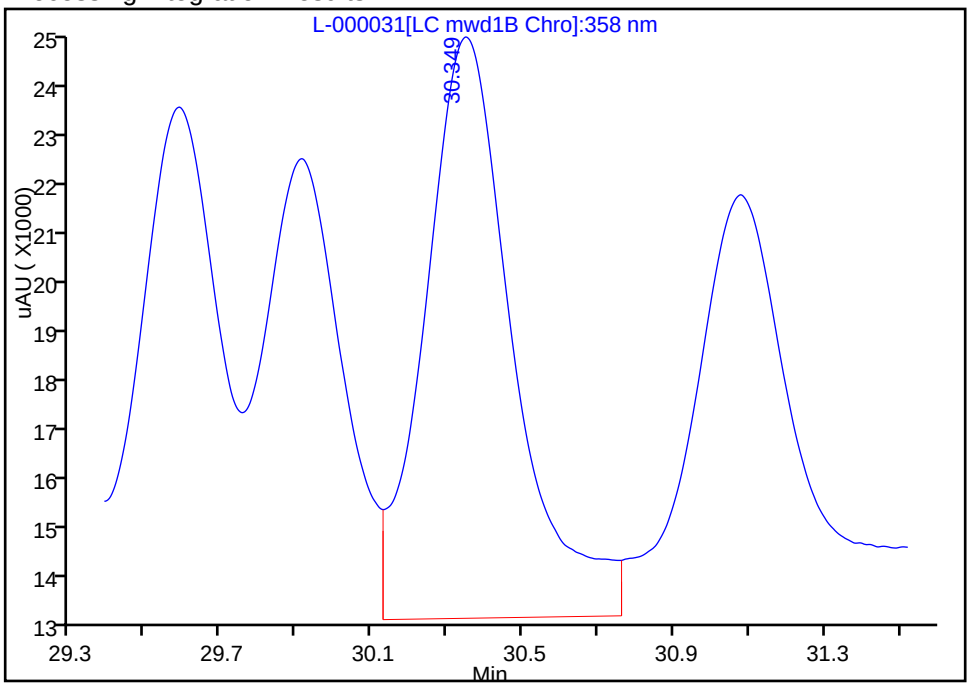
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000031.D		
Injection Date:	13-Apr-2013 17:29:12	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	31
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

7 Nitroglycerin, Signal: 1, Type: quant, RT: 30.36, Det: LC mwd1B

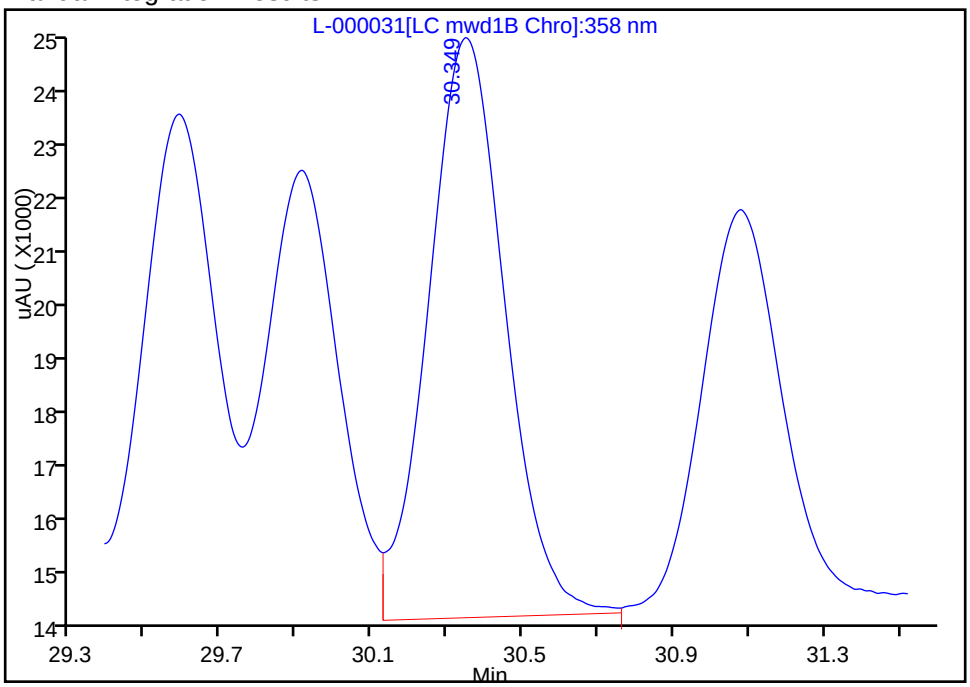
Processing Integration Results

RT: 30.35
Response: 11428
Amount: 126.9228



Manual Integration Results

RT: 30.35
Response: 10465
Amount: 116.2274



Reviewer: noonanr, 16-Apr-2013 09:06:29
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

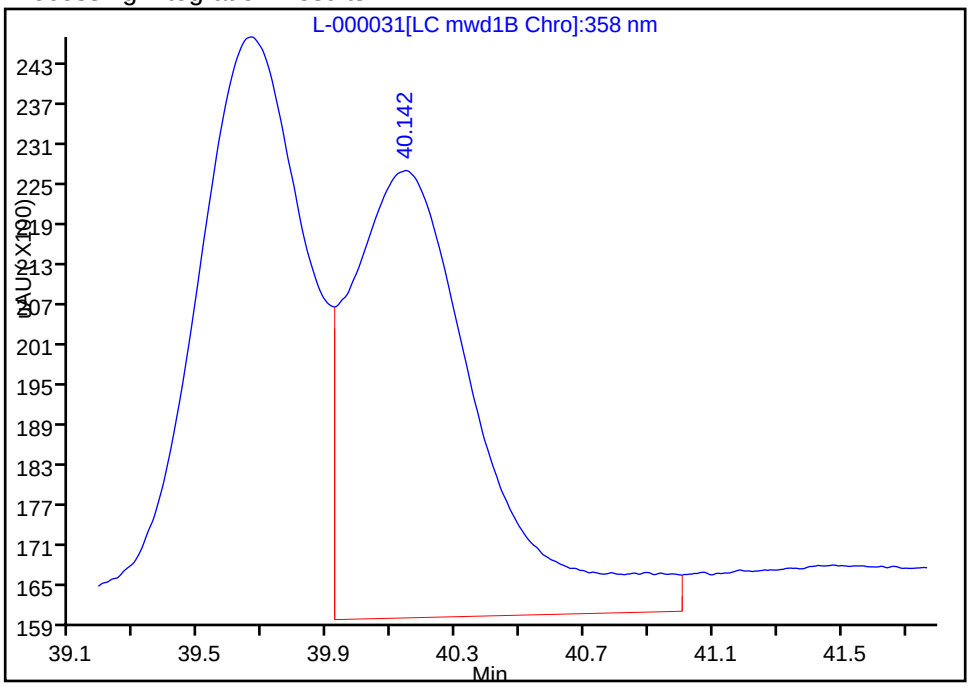
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000031.D		
Injection Date:	13-Apr-2013 17:29:12	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	31
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

21 PETN, Signal: 1, Type: quant, RT: 40.18, Det: LC mwd1B

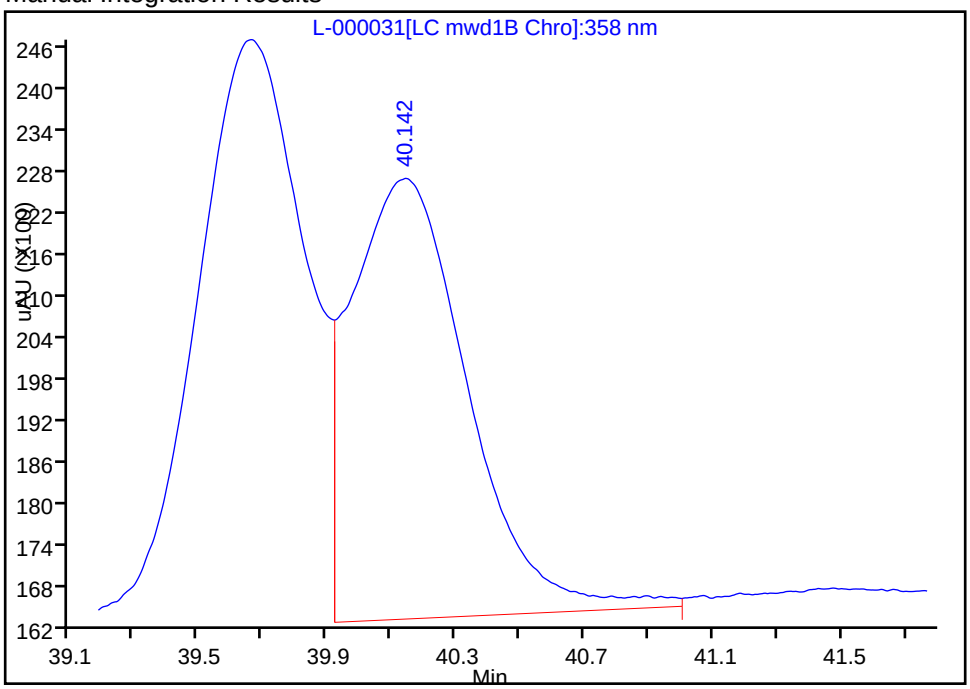
Processing Integration Results

RT: 40.14
Response: 6689
Amount: 130.3280



Manual Integration Results

RT: 40.14
Response: 6345
Amount: 123.6256



Reviewer: noonanr, 16-Apr-2013 09:06:29
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MS | Lab Sample ID: 240-22274-2 MS

Matrix: Solid | Lab File ID: L-000033.D

Analysis Method: 8330B | Date Collected: 03/20/2013 11:30

Extraction Method: 8330B | Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.00(g) | Date Analyzed: 04/13/2013 19:23

Con. Extract Vol.: 80(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 14179 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.449		0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.440	J	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.462		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.462		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.452		0.25	0.050	0.0073
2691-41-0	HMX	0.459		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.466		0.25	0.050	0.018
55-63-0	Nitroglycerin	1.53	J	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.748	J	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.496		0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.488		0.25	0.050	0.018
78-11-5	PETN	0.915		0.50	0.25	0.025
121-82-4	RDX	0.420		0.25	0.050	0.012
479-45-8	Tetryl	0.390		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.461		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.408		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	95		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000033.D		
Lims ID:	240-22274-F-2-G MS	Client ID:	
Inject. Date:	13-Apr-2013 19:23:30	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	320-0003856-033		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	77
Lims Batch ID:	14179	Lims Sample ID:	33
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 09:08:37	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer: russellk		Date:	15-Apr-2013 10:40:13

Det	RT	EXP RT	DLT RT	Response	Flags
11 HMX					
1	20.208	20.200	0.008	5400	57.3
19 RDX					
1	23.438	23.453	-0.015	4933	52.5
27 1,3,5-Trinitrobenzene					
1	25.338	25.346	-0.008	12411	57.6
24 1,3-Dinitrobenzene					
1	28.045	28.050	-0.005	13203	57.7
9 3,5-Dinitroaniline					
1	29.181	29.196	-0.015	8270	55.0
5 Nitrobenzene					
1	29.581	29.580	0.001	5733	58.3
20 Tetryl					
1	29.905	29.910	-0.005	5991	48.8
7 Nitroglycerin					
2	30.361	30.360	0.001	17233	191.4
25 2,4,6-Trinitrotoluene					
1	31.071	31.086	-0.015	6621	51.0
26 4-Amino-2,6-dinitrotoluene					
1	32.091	32.096	-0.005	5741	55.0
$ 30 3,4-Dinitrotoluene					
1	32.438	32.446	-0.008	4145	59.4
2	32.435	32.450	-0.015	7544	58.4
6 2-Amino-4,6-dinitrotoluene					
1	32.765	32.783	-0.018	6495	56.1
12 2,6-Dinitrotoluene					
1	33.901	33.913	-0.012	4499	56.5
23 2,4-Dinitrotoluene					
1	34.278	34.300	-0.022	7534	57.7

Det	RT	EXP RT	DLT RT	Response	Flags
16 o-Nitrotoluene					
1	37.021	37.063	-0.042	4843	93.5
15 p-Nitrotoluene					
1	38.238	38.233	0.005	4055	61.1
8 m-Nitrotoluene					
1	39.664	39.676	-0.012	4058	62.0
21 PETN					
2	40.141	40.183	-0.042	5869	114.4

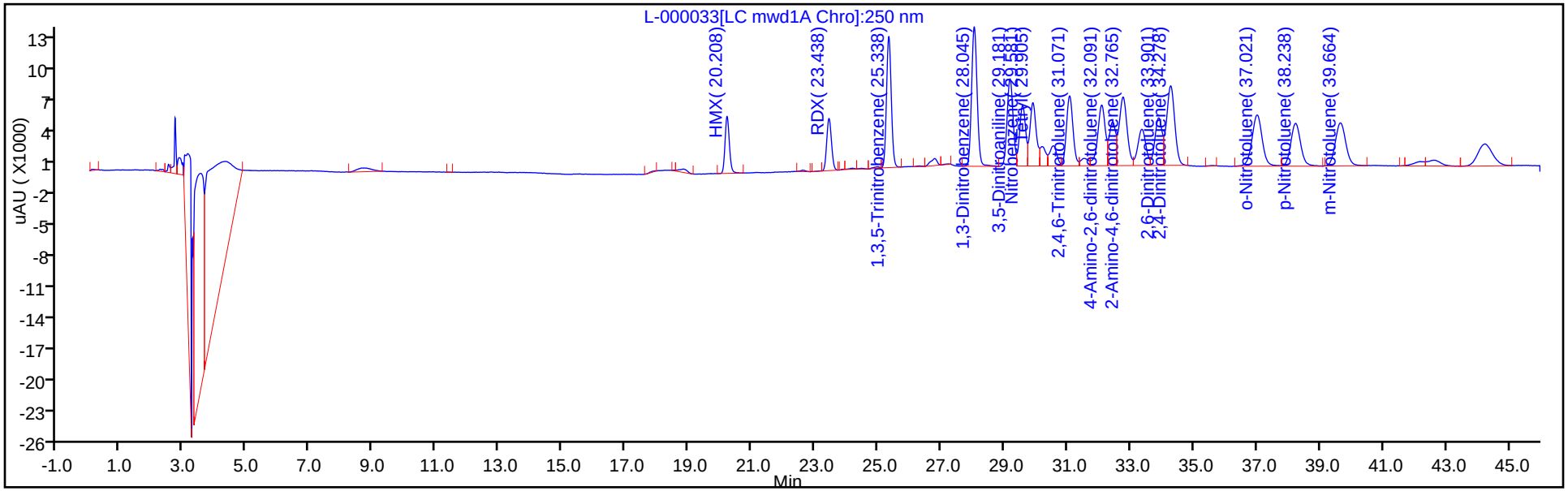
Report Date: 16-Apr-2013 09:08:37 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

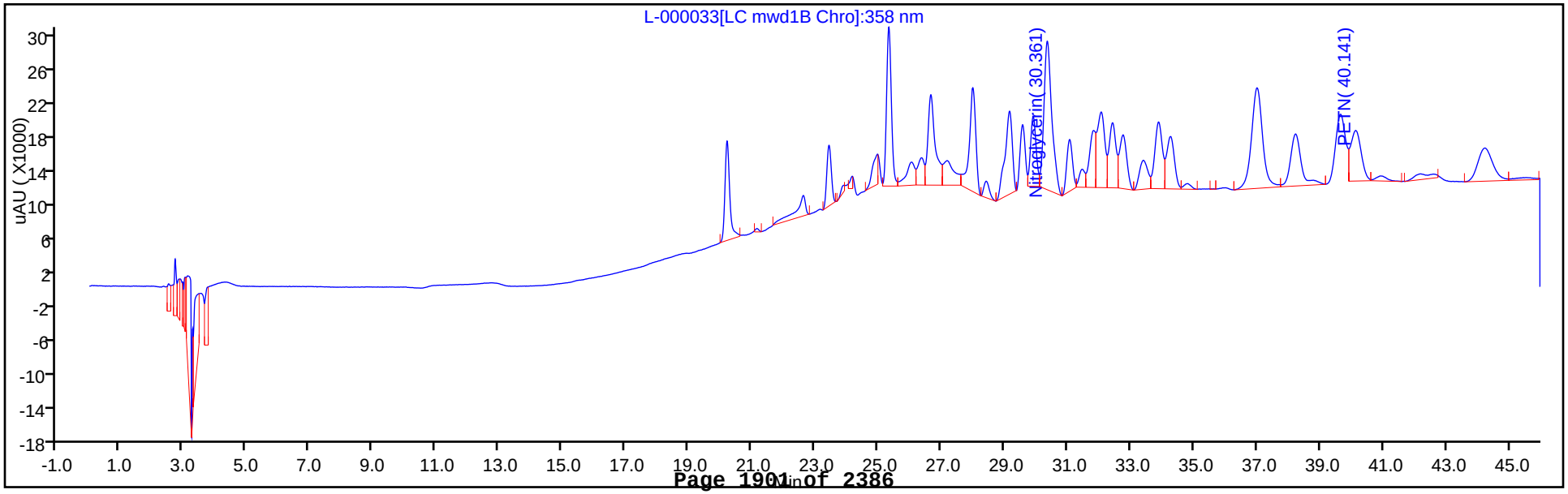
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000033.D

Injection Date:	13-Apr-2013 19:23:30	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	33
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-22274-1

SDG No.:

Client Sample ID: 079SD-0309-0001-SD MSD | Lab Sample ID: 240-22274-2 MSD

Matrix: Solid | Lab File ID: L-000035.D

Analysis Method: 8330B | Date Collected: 03/20/2013 11:30

Extraction Method: 8330B | Date Extracted: 04/02/2013 15:58

Sample wt/vol: 10.03(g) | Date Analyzed: 04/13/2013 21:17

Con. Extract Vol.: 80(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 14179 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.455		0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.445	J	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.457		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.465		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.462		0.25	0.050	0.0073
2691-41-0	HMX	0.455		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.470		0.25	0.050	0.018
55-63-0	Nitroglycerin	0.959	M J	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.514	J	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.505		0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.486		0.25	0.050	0.018
78-11-5	PETN	1.00	M	0.50	0.25	0.025
121-82-4	RDX	0.425		0.25	0.050	0.012
479-45-8	Tetryl	0.386		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.464		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.413		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	97		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000035.D		
Lims ID:	240-22274-F-2-H MSD	Client ID:	
Inject. Date:	13-Apr-2013 21:17:47	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	320-0003856-035		
Misc. Info.:			
Operator:	KR	Instrument ID:	LC11
Injection Vol:	500.0 ul	ALS Bottle#:	78
Lims Batch ID:	14179	Lims Sample ID:	35
Method:	\\SACChrom\ChromData\LC11\20130412-3856.b\8330 Metab LC11.m		
Last Update:	16-Apr-2013 09:23:03	Calib Date:	30-Apr-2012 21:31:38
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC11\20120531-303.b\M-009.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK014		
First Level Reviewer: russellk		Date:	15-Apr-2013 11:13:11

Det	RT	EXP RT	DLT RT	Response		Flags
11 HMX						
1	20.201	20.209	-0.008	5380	57.1	
19 RDX						
1	23.438	23.439	-0.001	5005	53.2	
27 1,3,5-Trinitrobenzene						
1	25.338	25.335	0.003	12540	58.2	
24 1,3-Dinitrobenzene						
1	28.048	28.042	0.006	13098	57.3	
9 3,5-Dinitroaniline						
1	29.181	29.182	-0.001	8034	53.4	
5 Nitrobenzene						
1	29.581	29.579	0.002	5796	58.9	
20 Tetryl						
1	29.905	29.902	0.003	5942	48.4	
7 Nitroglycerin						M
2	30.348	30.342	0.006	10823	120.2	M
25 2,4,6-Trinitrotoluene						
1	31.071	31.069	0.002	6718	51.7	
26 4-Amino-2,6-dinitrotoluene						
1	32.095	32.092	0.003	5822	55.8	
$ 30 3,4-Dinitrotoluene						M
1	32.438	32.432	0.006	4240	60.7	
2	32.438	32.435	0.003	8351	64.7	M
6 2-Amino-4,6-dinitrotoluene						
1	32.768	32.765	0.003	6594	57.0	
12 2,6-Dinitrotoluene						
1	33.895	33.892	0.003	4616	57.9	
23 2,4-Dinitrotoluene						
1	34.275	34.275	0.0	7611	58.3	

Det	RT	EXP RT	DLT RT	Response		Flags
16 o-Nitrotoluene						
1	37.048	37.038	0.010	3340	64.5	
15 p-Nitrotoluene						
1	38.238	38.232	0.006	4048	61.0	
8 m-Nitrotoluene						
1	39.654	39.652	0.002	4139	63.3	
21 PETN						M
2	40.141	40.128	0.013	6452	125.7	M

QC Flag Legend

Review Flags
M - Manually Integrated

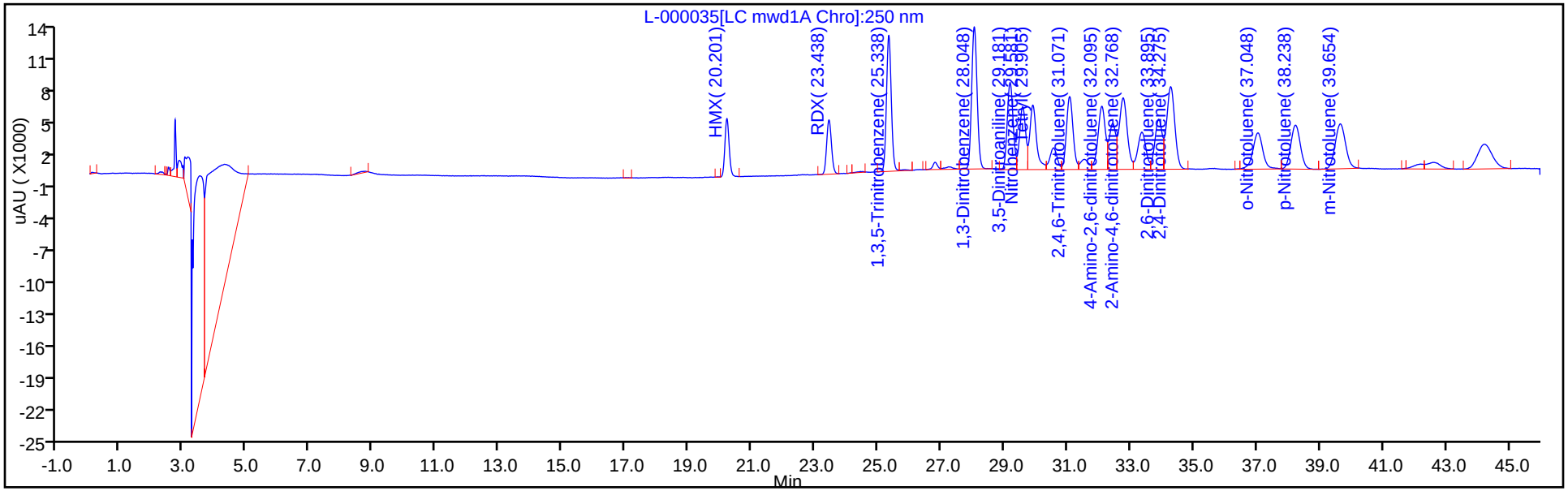
Report Date: 16-Apr-2013 09:23:04 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

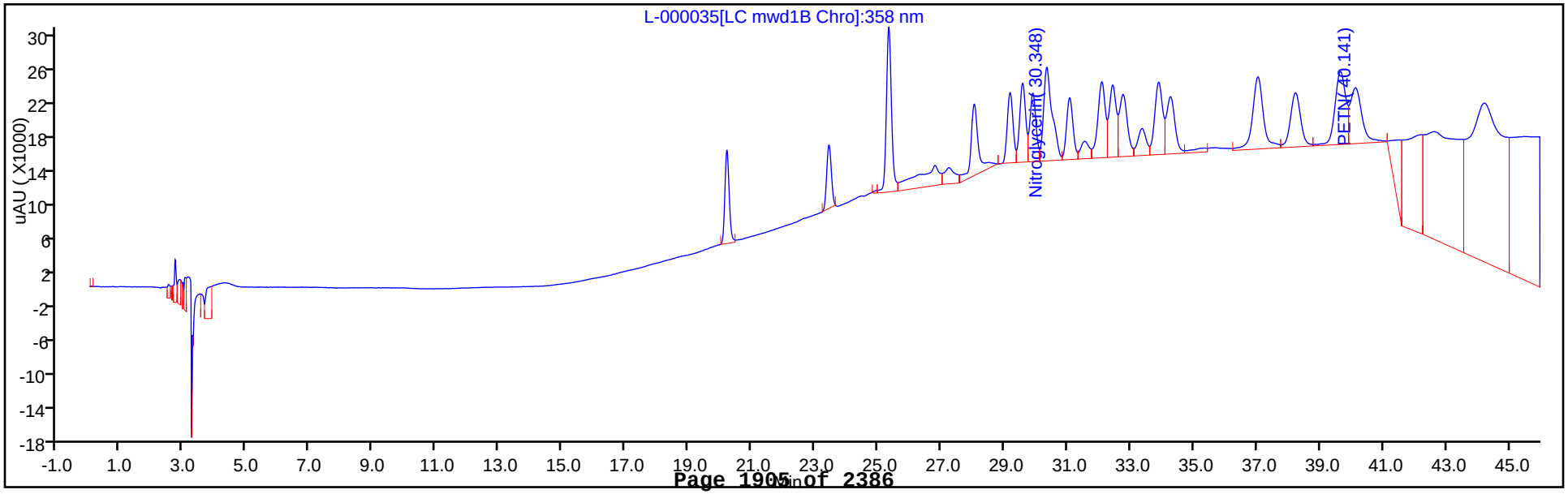
Data File: \\SACChrom\ChromData\LC11\20130412-3856.b\L-000035.D

Injection Date:	13-Apr-2013 21:17:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	35
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling:



Manual Integration/User Assign Peak Report

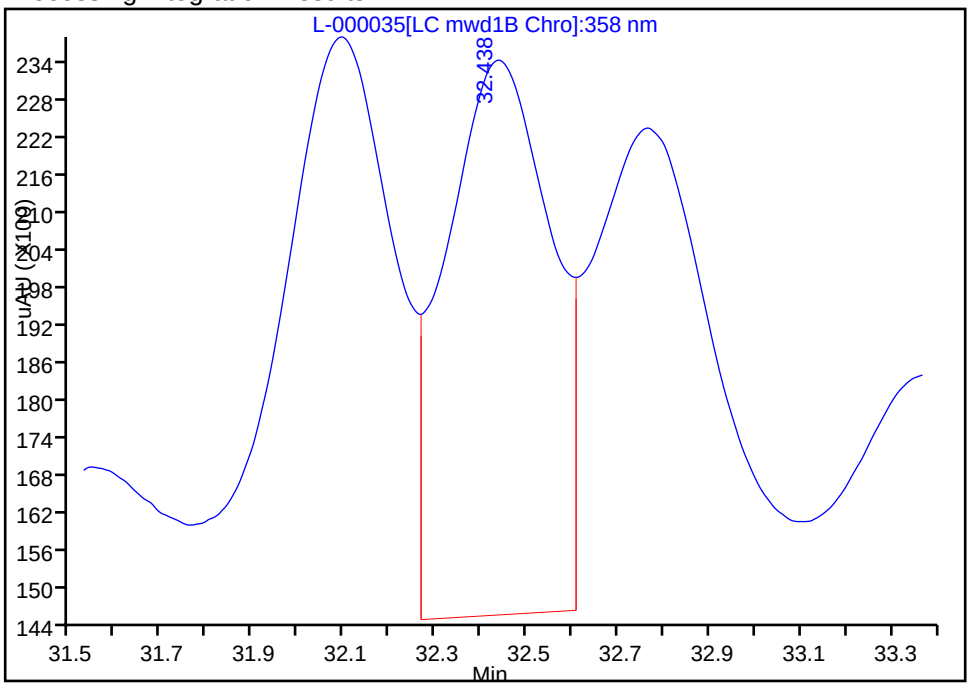
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000035.D		
Injection Date:	13-Apr-2013 21:17:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	35
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 2, Type: quant, RT: 32.44, Det: LC mwd1B

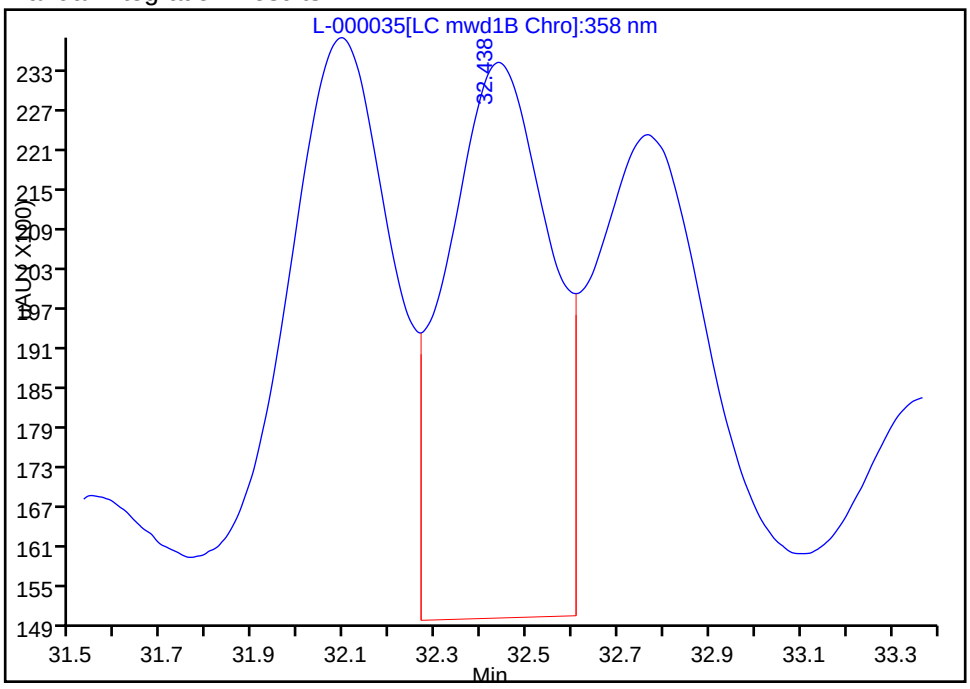
Processing Integration Results

RT: 32.44
Response: 8877
Amount: 68.755905



Manual Integration Results

RT: 32.44
Response: 8351
Amount: 64.681825



Reviewer: noonanr, 16-Apr-2013 09:23:03
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

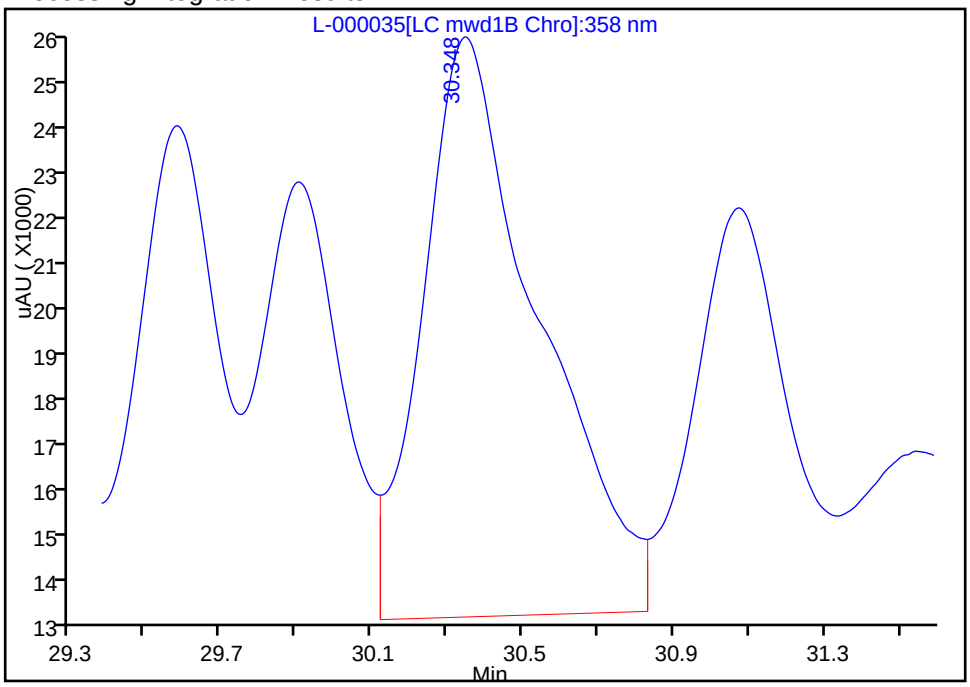
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000035.D		
Injection Date:	13-Apr-2013 21:17:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	35
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

7 Nitroglycerin, Signal: 1, Type: quant, RT: 30.34, Det: LC mwd1B

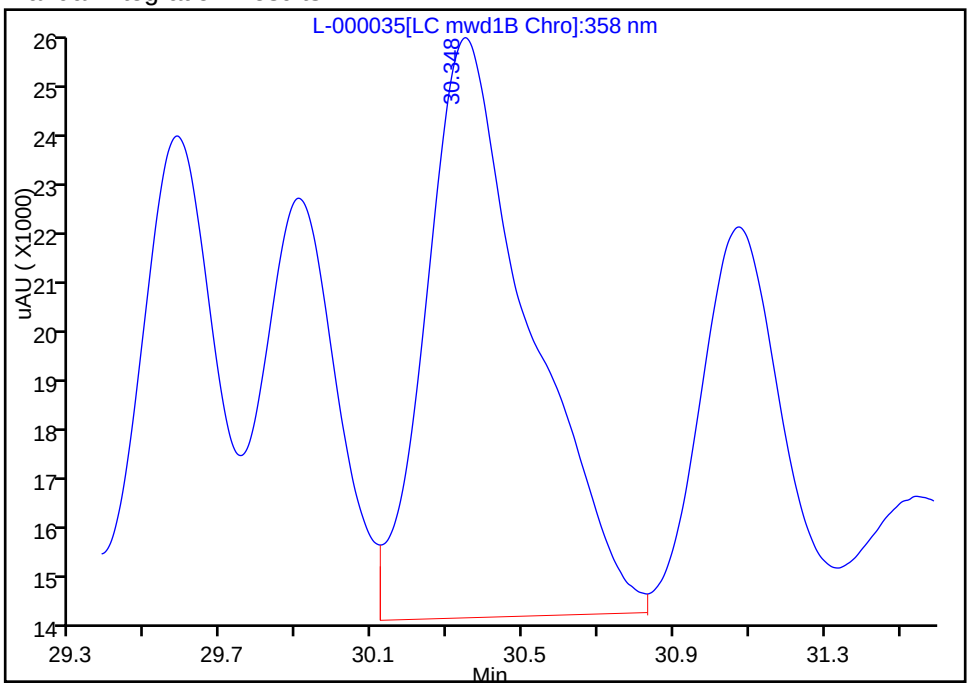
Processing Integration Results

RT: 30.35
Response: 11979
Amount: 133.0423



Manual Integration Results

RT: 30.35
Response: 10823
Amount: 120.2035



Reviewer: noonanr, 16-Apr-2013 09:23:03
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

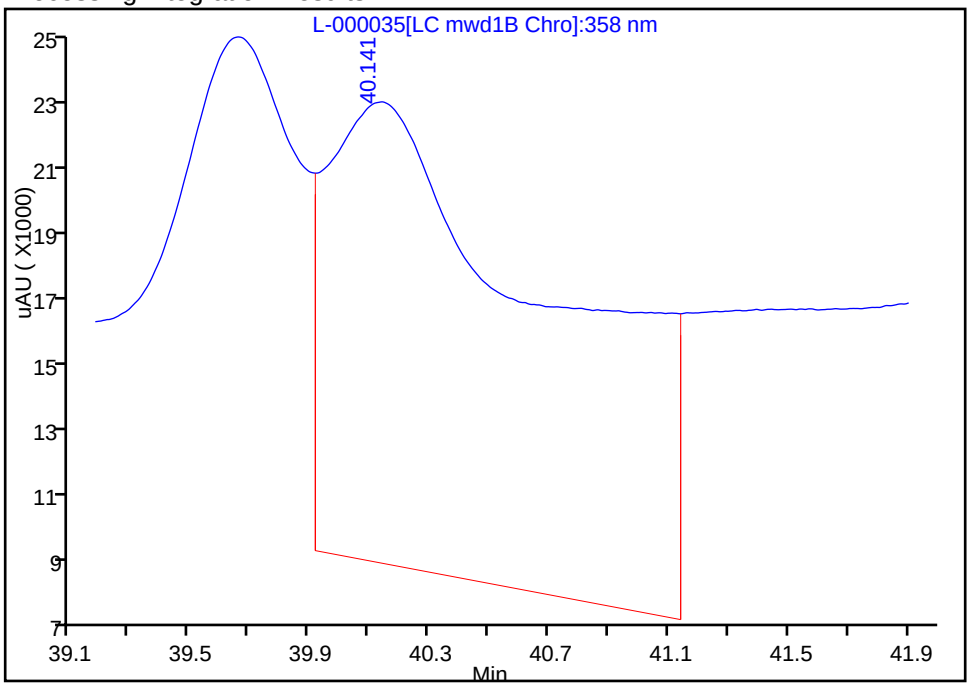
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC11\20130412-3856.b\L-000035.D		
Injection Date:	13-Apr-2013 21:17:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC11
Lims Batch ID:	14179	Lims Sample ID:	35
Operator ID:	KR	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

21 PETN, Signal: 1, Type: quant, RT: 40.13, Det: LC mwd1B

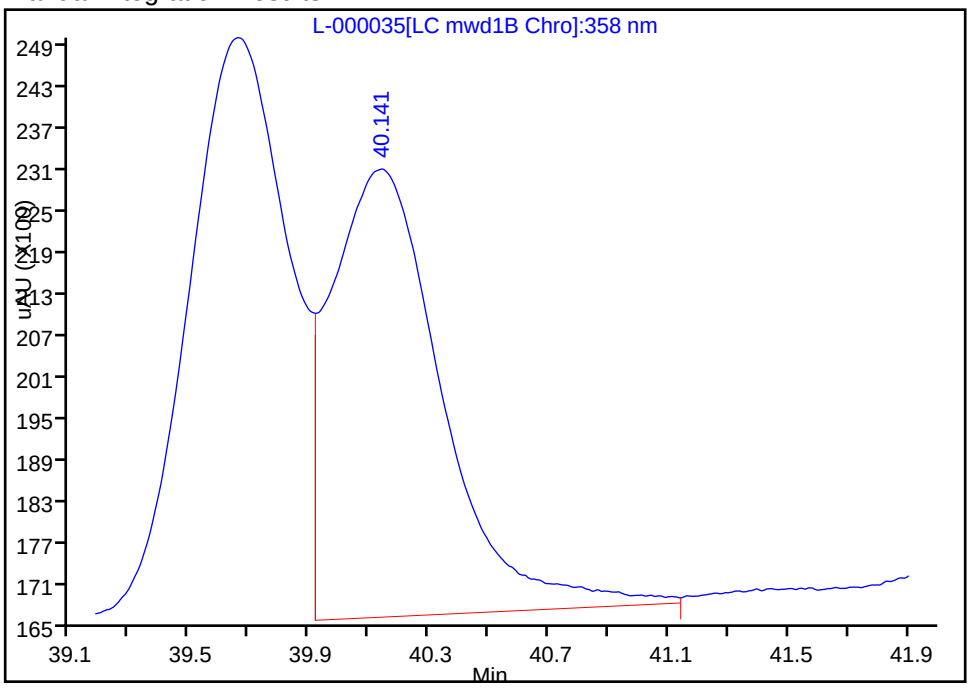
Processing Integration Results

RT: 40.14
Response: 13439
Amount: 261.8446



Manual Integration Results

RT: 40.14
Response: 6452
Amount: 125.7104



Reviewer: noonanr, 16-Apr-2013 09:23:03
Audit Action: Assigned New Baseline
Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC11 Start Date: 04/30/2012 13:54

Analysis Batch Number: 1385 End Date: 05/01/2012 10:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/30/2012 13:54	1		
STD01 320-1385/2 IC		04/30/2012 14:52	1	M-002.D	
STD02 320-1385/3 IC		04/30/2012 15:49	1	M-003.D	
STD03 320-1385/4 IC		04/30/2012 16:46	1	M-004.D	
STD04 320-1385/5 IC		04/30/2012 17:43	1	M-005.D	
STD05 320-1385/6 IC		04/30/2012 18:40	1	M-006.D	
STD06 320-1385/7 IC		04/30/2012 19:37	1	M-007.D	
STD07 320-1385/8 IC		04/30/2012 20:34	1	M-008.D	
STD08 320-1385/9 IC		04/30/2012 21:31	1	M-009.D	
ZZZZZ		04/30/2012 22:28	1		
LODV 320-1385/11		04/30/2012 23:25	1	M-011.D	
LODV 320-1385/12		05/01/2012 00:22	1	M-012.D	
ICV 320-1385/13		05/01/2012 10:50	1	I-003.D	

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC11 Start Date: 04/12/2013 12:52

Analysis Batch Number: 14179 End Date: 04/16/2013 04:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-14179/1 CCVRT		04/12/2013 12:52	1		Synergi C18 4.6(mm)
CCV 320-14179/12 CCVRT		04/12/2013 23:23	1		Synergi C18 4.6(mm)
CCV 320-14179/23 CCVRT		04/13/2013 09:52	1	L-000023.D	Synergi C18 4.6(mm)
CCVL 320-14179/24		04/13/2013 10:49	1	L-000024.D	Synergi C18 4.6(mm)
MB 320-13509/1-A		04/13/2013 16:32	1	L-000030.D	Synergi C18 4.6(mm)
LCS 320-13509/2-A		04/13/2013 17:29	1	L-000031.D	Synergi C18 4.6(mm)
240-22274-2	079SD-0309-0001-SD	04/13/2013 18:26	1	L-000032.D	Synergi C18 4.6(mm)
240-22274-2 MS	079SD-0309-0001-SD MS	04/13/2013 19:23	1	L-000033.D	Synergi C18 4.6(mm)
CCV 320-14179/34 CCVRT		04/13/2013 20:20	1	L-000034.D	Synergi C18 4.6(mm)
240-22274-2 MSD	079SD-0309-0001-SD MSD	04/13/2013 21:17	1	L-000035.D	Synergi C18 4.6(mm)
CCV 320-14179/45 CCVRT		04/14/2013 06:48	1	L-000045.D	Synergi C18 4.6(mm)
CCV 320-14179/56 CCVRT		04/14/2013 17:16	1		Synergi C18 4.6(mm)
CCV 320-14179/67 CCVRT		04/15/2013 03:44	1		Synergi C18 4.6(mm)
CCV 320-14179/78 CCVRT		04/15/2013 14:13	1		Synergi C18 4.6(mm)
CCV 320-14179/106 CCVRT		04/16/2013 00:40	1		Synergi C18 4.6(mm)
CCVL 320-14179/107		04/16/2013 01:37	1	L-000090.D	Synergi C18 4.6(mm)
CCV 320-14179/110 CCVRT		04/16/2013 04:29	1		Synergi C18 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC12 Start Date: 02/13/2013 16:11

Analysis Batch Number: 10422 End Date: 02/14/2013 04:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/13/2013 16:11	1		Zorbax CN 4.6(mm)
STD01 320-10422/2 IC		02/13/2013 17:16	1	M000003.D	Zorbax CN 4.6(mm)
STD02 320-10422/3 IC		02/13/2013 18:22	1	M000004.D	Zorbax CN 4.6(mm)
STD03 320-10422/4 IC		02/13/2013 19:27	1	M000005.D	Zorbax CN 4.6(mm)
STD04 320-10422/5 IC		02/13/2013 20:32	1	M000006.D	Zorbax CN 4.6(mm)
STD05 320-10422/6 IC		02/13/2013 21:38	1	M000007.D	Zorbax CN 4.6(mm)
STD06 320-10422/7 IC		02/13/2013 22:43	1	M000008.D	Zorbax CN 4.6(mm)
STD07 320-10422/8 IC		02/13/2013 23:49	1	M000009.D	Zorbax CN 4.6(mm)
STD08 320-10422/9 IC		02/14/2013 00:54	1	M000010.D	Zorbax CN 4.6(mm)
ZZZZZ		02/14/2013 02:00	1		Zorbax CN 4.6(mm)
ICV 320-10422/11		02/14/2013 03:05	1	M000012.D	Zorbax CN 4.6(mm)
LODV 320-10422/12		02/14/2013 04:11	1	M000013.D	Zorbax CN 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: LC12 Start Date: 04/18/2013 06:36

Analysis Batch Number: 14569 End Date: 04/19/2013 05:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-14569/41 CCVRT		04/18/2013 06:36	1	P000047.D	Zorbax CN 4.6(mm)
CCVL 320-14569/46		04/18/2013 07:42	1	P000048.D	Zorbax CN 4.6(mm)
MB 320-13509/1-A		04/18/2013 09:54	1	P000050.D	Zorbax CN 4.6(mm)
240-22274-2	079SD-0309-0001-SD	04/18/2013 11:00	1	P000051.D	Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 12:07	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 13:13	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 14:19	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 15:25	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 16:31	1		Zorbax CN 4.6(mm)
CCV 320-14569/43 CCVRT		04/18/2013 17:37	1	P000057.D	Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 18:43	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 19:49	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 20:55	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 22:01	1		Zorbax CN 4.6(mm)
ZZZZZ		04/18/2013 23:07	1		Zorbax CN 4.6(mm)
ZZZZZ		04/19/2013 00:14	1		Zorbax CN 4.6(mm)
ZZZZZ		04/19/2013 01:20	1		Zorbax CN 4.6(mm)
ZZZZZ		04/19/2013 02:26	1		Zorbax CN 4.6(mm)
ZZZZZ		04/19/2013 03:32	1		Zorbax CN 4.6(mm)
CCVL 320-14569/63		04/19/2013 04:38	1	P000067.D	Zorbax CN 4.6(mm)
CCV 320-14569/64 CCVRT		04/19/2013 05:44	1		Zorbax CN 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13509 Batch Start Date: 04/02/13 15:58 Batch Analyst: Arauz, Horacio

Batch Method: 8330B Batch End Date: 04/05/13 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HP34DNTSU 00012	HP8330SP 00013	HPNGPETNSP 00004	
MB 320-13509/1		8330B, 8330B		10.00 g	80 mL	100 uL			
LCS 320-13509/2		8330B, 8330B		10.00 g	80 mL	100 uL	100 uL	200 uL	
240-22274-F-2	079SD-0309-0001-SD	8330B, 8330B	T	10.02 g	80 mL	100 uL			
240-22274-F-2 MS	079SD-0309-0001-SD	8330B, 8330B	T	10.00 g	80 mL	100 uL	100 uL	200 uL	
240-22274-F-2 MSD	079SD-0309-0001-SD	8330B, 8330B	T	10.03 g	80 mL	100 uL	100 uL	200 uL	

Batch Notes	
Balance ID	QA-070
Calcium Chloride Reagent ID	4515-027C
Person's name who did the concentration	NM
Date of Clean up	4/5/13
Analyst performed Clean Up	TP
Date Dilution Performed	4/5/13
Analytst performing Dilution	TP
Date Sample was Dried	3-27-13
Filter Lot #	R2SA72748
Filter Type	.45um Millipore
Date Sample was Ground	3-28-13
Minumum Temperature	8
Person's name who witnessed reagent drop	JR
Blank Sand Lot #	FISHER 120571
Solvent Lot #	4515-025A
Solvent Name	0.1% HOAC/ACN
Sonication Start Time	4-02-13 16:30
Sonication Stop Time	4-03-13 10:30
SOP Number	WS-LC-0009
Maximum Temperature	26

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13509 Batch Start Date: 04/02/13 15:58 Batch Analyst: Arauz, Horacio

Batch Method: 8330B Batch End Date: 04/05/13 11:15

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SD-0309-0001-SD	240-22274-2
079SD-0305-0001-0002-SD	240-22274-3
079SD-0306-0001-SD	240-22274-4
079SD-0307-0001-SD	240-22274-5
079SD-0310-0001-SD	240-22274-6
079SB-0287M-0001-SB	240-22274-7
079SB-0288M-0001-SB	240-22274-8
079SB-0289M-0001-SB	240-22274-9
079SB-0290M-0001-SB	240-22274-10
079SB-0291M-0001-SB	240-22274-11
079SB-0292M-0001-SO	240-22274-12
079SB-0293M-0001-SO	240-22274-13
079SS-0294-0001-SO	240-22274-14
079SS-0295-0001-SO	240-22274-15
079SB-0256M-0001-SO	240-22274-16
079SB-0258M-0001-SO	240-22274-17
079SB-0260M-0001-SO	240-22274-18
079SB-0261M-0001-SO	240-22274-19
079SB-0262M-0001-SO	240-22274-20
079SB-0263M-0001-SO	240-22274-21
079SB-0264M-0001-SO	240-22274-22
079SS-0265-0001-SO	240-22274-23
079SS-0266-0001-SO	240-22274-24
079SB-0224M-0001-SO	240-22274-25
079SB-0225M-0001-SO	240-22274-26
079SB-0227M-0001-SO	240-22274-27
079SB-0228M-0001-SO	240-22274-28
079SB-0229M-0001-SO	240-22274-29
079SB-0230M-0001-SO	240-22274-30
079SB-0231M-0001-SO	240-22274-31
079SS-0232-0001-SO	240-22274-32
079SS-0233-0001-SO	240-22274-33
079SS-0320M-0001-SO	240-22274-34
079SS-0321M-0001-SO	240-22274-35

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22274-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SD-0309-0001-SD	240-22274-2
079SD-0305-0001-0002-SD	240-22274-3
079SD-0306-0001-SD	240-22274-4
079SD-0307-0001-SD	240-22274-5
079SD-0310-0001-SD	240-22274-6
079SB-0287M-0001-SB	240-22274-7
079SB-0288M-0001-SB	240-22274-8
079SB-0289M-0001-SB	240-22274-9
079SB-0290M-0001-SB	240-22274-10
079SB-0291M-0001-SB	240-22274-11
079SB-0292M-0001-SO	240-22274-12
079SB-0293M-0001-SO	240-22274-13
079SS-0294-0001-SO	240-22274-14
079SS-0295-0001-SO	240-22274-15
079SB-0256M-0001-SO	240-22274-16
079SB-0258M-0001-SO	240-22274-17
079SB-0260M-0001-SO	240-22274-18
079SB-0261M-0001-SO	240-22274-19
079SB-0262M-0001-SO	240-22274-20
079SB-0263M-0001-SO	240-22274-21
079SB-0264M-0001-SO	240-22274-22
079SS-0265-0001-SO	240-22274-23
079SS-0266-0001-SO	240-22274-24
079SB-0224M-0001-SO	240-22274-25
079SB-0225M-0001-SO	240-22274-26
079SB-0227M-0001-SO	240-22274-27
079SB-0228M-0001-SO	240-22274-28
079SB-0229M-0001-SO	240-22274-29
079SB-0230M-0001-SO	240-22274-30
079SB-0231M-0001-SO	240-22274-31
079SS-0232-0001-SO	240-22274-32
079SS-0233-0001-SO	240-22274-33
079SS-0320M-0001-SO	240-22274-34
079SS-0321M-0001-SO	240-22274-35

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0309-0001-SD
Lab Sample ID: 240-22274-2
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:30
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 73.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.032	0.15	0.048	0.020	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0305-0001-0002-SD
Lab Sample ID: 240-22274-3
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:00
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 51.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.046	0.19	0.064	0.027	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0306-0001-SD
Lab Sample ID: 240-22274-4
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:10
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 51.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.045	0.21	0.070	0.029	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0307-0001-SD
Lab Sample ID: 240-22274-5
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:10
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 48.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.045	0.23	0.076	0.032	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0310-0001-SD
Lab Sample ID: 240-22274-6
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:35
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 73.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.045	0.16	0.053	0.022	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0287M-0001-SB
Lab Sample ID: 240-22274-7
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:23
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0288M-0001-SB
Lab Sample ID: 240-22274-8
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:32
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0289M-0001-SB
Lab Sample ID: 240-22274-9
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:24
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.030	0.091	0.030	0.013	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0290M-0001-SB
Lab Sample ID: 240-22274-10
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:16
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0291M-0001-SB
Lab Sample ID: 240-22274-11
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:35
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.038	0.12	0.038	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0292M-0001-SO
Lab Sample ID: 240-22274-12
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:26
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.016	0.10	0.034	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0293M-0001-SO
Lab Sample ID: 240-22274-13
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:21
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.031	0.094	0.031	0.013	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0294-0001-SO
Lab Sample ID: 240-22274-14
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:02
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 77.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.046	0.14	0.046	0.019	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0295-0001-SO
Lab Sample ID: 240-22274-15
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:05
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 82.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.024	0.13	0.043	0.018	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0256M-0001-SO
Lab Sample ID: 240-22274-16
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:06
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.015	0.086	0.028	0.012	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0258M-0001-SO
Lab Sample ID: 240-22274-17
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:02
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0260M-0001-SO
Lab Sample ID: 240-22274-18
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:53
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.026	0.11	0.036	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0261M-0001-SO
Lab Sample ID: 240-22274-19
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 11:29
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.034	0.10	0.034	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0262M-0001-SO
Lab Sample ID: 240-22274-20
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:05
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.015	0.11	0.036	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0263M-0001-SO
Lab Sample ID: 240-22274-21
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 11:42
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0264M-0001-SO
Lab Sample ID: 240-22274-22
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:58
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.019	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0265-0001-SO
Lab Sample ID: 240-22274-23
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:56
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 78.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.046	0.15	0.050	0.021	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0266-0001-SO
Lab Sample ID: 240-22274-24
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 11:05
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 81.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.020	0.14	0.045	0.019	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0224M-0001-SO
Lab Sample ID: 240-22274-25
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:22
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.019	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0225M-0001-SO
Lab Sample ID: 240-22274-26
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:28
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.034	0.10	0.034	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0227M-0001-SO
Lab Sample ID: 240-22274-27
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:10
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.016	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0228M-0001-SO
Lab Sample ID: 240-22274-28
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:40
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0229M-0001-SO
Lab Sample ID: 240-22274-29
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:58
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.016	0.12	0.038	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0230M-0001-SO
Lab Sample ID: 240-22274-30
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:18
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.036	0.11	0.036	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0231M-0001-SO
Lab Sample ID: 240-22274-31
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:25
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0232-0001-SO
Lab Sample ID: 240-22274-32
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:26
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 81.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.027	0.13	0.044	0.018	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0233-0001-SO
Lab Sample ID: 240-22274-33
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:22
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 78.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.027	0.14	0.048	0.020	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0320M-0001-SO
Lab Sample ID: 240-22274-34
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:50
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.036	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0321M-0001-SO
Lab Sample ID: 240-22274-35
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:20
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.044	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0309-0001-SD
Lab Sample ID: 240-22274-2
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:30
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 73.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.053	0.13	0.040	0.015	mg/Kg	J		1	6020/DOD
Aluminum	12000	4.0	0.81	0.38	mg/Kg			1	6020/DOD
Arsenic	180	0.13	0.067	0.024	mg/Kg			1	6020/DOD
Barium	97	1.3	0.027	0.014	mg/Kg		Q	1	6020/DOD
Beryllium	0.64	0.13	0.013	0.010	mg/Kg			1	6020/DOD
Calcium	720	13	3.4	1.8	mg/Kg			1	6020/DOD
Cadmium	0.33	0.13	0.040	0.018	mg/Kg			1	6020/DOD
Chromium	13	0.27	0.054	0.030	mg/Kg			1	6020/DOD
Cobalt	12	0.067	0.013	0.0032	mg/Kg		Q	1	6020/DOD
Copper	11	0.27	0.081	0.044	mg/Kg		Q	1	6020/DOD
Iron	18000	6.7	2.7	1.4	mg/Kg			1	6020/DOD
Magnesium	1800	13	2.7	1.5	mg/Kg			1	6020/DOD
Manganese	580	0.67	0.040	0.021	mg/Kg			1	6020/DOD
Sodium	75	13	6.7	3.6	mg/Kg			1	6020/DOD
Nickel	14	0.13	0.040	0.015	mg/Kg			1	6020/DOD
Lead	25	0.13	0.040	0.021	mg/Kg			1	6020/DOD
Antimony	0.13	0.27	0.13	0.062	mg/Kg	U		1	6020/DOD
Thallium	0.18	0.13	0.027	0.014	mg/Kg			1	6020/DOD
Vanadium	22	0.13	0.081	0.040	mg/Kg			1	6020/DOD
Zinc	59	0.67	0.27	0.087	mg/Kg			1	6020/DOD
Potassium	1200	13	8.1	4.2	mg/Kg			1	6020/DOD
Selenium	0.52	0.67	0.13	0.068	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0305-0001-0002-SD
Lab Sample ID: 240-22274-3
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:00
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 51.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.080	0.17	0.050	0.019	mg/Kg	J		1	6020/DOD
Aluminum	12000	5.0	0.99	0.47	mg/Kg		J	1	6020/DOD
Arsenic	240	0.17	0.083	0.030	mg/Kg		J	1	6020/DOD
Barium	71	1.7	0.033	0.018	mg/Kg		Q	1	6020/DOD
Beryllium	0.65	0.17	0.017	0.012	mg/Kg			1	6020/DOD
Calcium	2400	17	4.1	2.2	mg/Kg			1	6020/DOD
Cadmium	0.35	0.17	0.050	0.022	mg/Kg			1	6020/DOD
Chromium	28	0.33	0.066	0.037	mg/Kg			1	6020/DOD
Cobalt	8.6	0.083	0.017	0.0040	mg/Kg		Q	1	6020/DOD
Copper	21	0.33	0.099	0.055	mg/Kg		Q	1	6020/DOD
Iron	21000	8.3	3.3	1.8	mg/Kg		J	1	6020/DOD
Magnesium	2800	17	3.3	1.8	mg/Kg			1	6020/DOD
Manganese	710	0.83	0.050	0.026	mg/Kg		Q	1	6020/DOD
Sodium	67	17	8.3	4.4	mg/Kg			1	6020/DOD
Nickel	29	0.17	0.050	0.019	mg/Kg			1	6020/DOD
Lead	51	0.17	0.050	0.025	mg/Kg		J	1	6020/DOD
Antimony	0.14	0.33	0.17	0.076	mg/Kg	J	J	1	6020/DOD
Thallium	0.17	0.17	0.033	0.017	mg/Kg			1	6020/DOD
Vanadium	27	0.17	0.099	0.049	mg/Kg			1	6020/DOD
Zinc	80	0.83	0.33	0.11	mg/Kg		Q	1	6020/DOD
Potassium	1500	17	9.9	5.2	mg/Kg			1	6020/DOD
Selenium	0.61	0.83	0.17	0.084	mg/Kg	J	Q	1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0306-0001-SD
Lab Sample ID: 240-22274-4
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:10
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 51.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.092	0.18	0.055	0.021	mg/Kg	J		1	6020/DOD
Aluminum	13000	5.5	1.1	0.52	mg/Kg			1	6020/DOD
Arsenic	180	0.18	0.091	0.033	mg/Kg			1	6020/DOD
Barium	74	1.8	0.036	0.019	mg/Kg		Q	1	6020/DOD
Beryllium	0.68	0.18	0.018	0.014	mg/Kg			1	6020/DOD
Calcium	2100	18	4.6	2.4	mg/Kg			1	6020/DOD
Cadmium	0.37	0.18	0.055	0.024	mg/Kg			1	6020/DOD
Chromium	29	0.36	0.073	0.041	mg/Kg			1	6020/DOD
Cobalt	8.6	0.091	0.018	0.0044	mg/Kg		Q	1	6020/DOD
Copper	24	0.36	0.11	0.060	mg/Kg		Q	1	6020/DOD
Iron	20000	9.1	3.6	2.0	mg/Kg			1	6020/DOD
Magnesium	2700	18	3.6	2.0	mg/Kg			1	6020/DOD
Manganese	470	0.91	0.055	0.029	mg/Kg			1	6020/DOD
Sodium	100	18	9.1	4.8	mg/Kg			1	6020/DOD
Nickel	29	0.18	0.055	0.021	mg/Kg			1	6020/DOD
Lead	50	0.18	0.055	0.028	mg/Kg			1	6020/DOD
Antimony	0.13	0.36	0.18	0.084	mg/Kg	J		1	6020/DOD
Thallium	0.21	0.18	0.036	0.019	mg/Kg			1	6020/DOD
Vanadium	30	0.18	0.11	0.054	mg/Kg			1	6020/DOD
Zinc	81	0.91	0.36	0.12	mg/Kg			1	6020/DOD
Potassium	1900	18	11	5.7	mg/Kg			1	6020/DOD
Selenium	1.0	0.91	0.18	0.093	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0307-0001-SD
Lab Sample ID: 240-22274-5
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:10
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 48.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.077	0.18	0.055	0.021	mg/Kg	J		1	6020/DOD
Aluminum	4800	5.5	1.1	0.52	mg/Kg			1	6020/DOD
Arsenic	290	0.18	0.092	0.033	mg/Kg			1	6020/DOD
Barium	34	1.8	0.037	0.020	mg/Kg		Q	1	6020/DOD
Beryllium	0.25	0.18	0.018	0.014	mg/Kg			1	6020/DOD
Calcium	5100	18	4.6	2.4	mg/Kg			1	6020/DOD
Cadmium	0.36	0.18	0.055	0.024	mg/Kg			1	6020/DOD
Chromium	16	0.37	0.074	0.041	mg/Kg			1	6020/DOD
Cobalt	5.2	0.092	0.018	0.0044	mg/Kg		Q	1	6020/DOD
Copper	16	0.37	0.11	0.061	mg/Kg		Q	1	6020/DOD
Iron	18000	9.2	3.7	2.0	mg/Kg			1	6020/DOD
Magnesium	1200	18	3.7	2.0	mg/Kg			1	6020/DOD
Manganese	350	0.92	0.055	0.029	mg/Kg			1	6020/DOD
Sodium	74	18	9.2	4.9	mg/Kg			1	6020/DOD
Nickel	20	0.18	0.055	0.021	mg/Kg			1	6020/DOD
Lead	52	0.18	0.055	0.028	mg/Kg			1	6020/DOD
Antimony	0.34	0.37	0.18	0.085	mg/Kg	J		1	6020/DOD
Thallium	0.29	0.18	0.037	0.019	mg/Kg			1	6020/DOD
Vanadium	16	0.18	0.11	0.055	mg/Kg			1	6020/DOD
Zinc	49	0.92	0.37	0.12	mg/Kg			1	6020/DOD
Potassium	990	18	11	5.8	mg/Kg			1	6020/DOD
Selenium	0.98	0.92	0.18	0.094	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0310-0001-SD
Lab Sample ID: 240-22274-6
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:35
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 73.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.059	0.12	0.037	0.014	mg/Kg	J		1	6020/DOD
Aluminum	15000	3.7	0.75	0.35	mg/Kg			1	6020/DOD
Arsenic	300	0.12	0.062	0.023	mg/Kg			1	6020/DOD
Barium	190	1.2	0.025	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	1.3	0.12	0.012	0.0093	mg/Kg			1	6020/DOD
Calcium	1200	12	3.1	1.7	mg/Kg			1	6020/DOD
Cadmium	0.42	0.12	0.037	0.016	mg/Kg			1	6020/DOD
Chromium	17	0.25	0.050	0.028	mg/Kg			1	6020/DOD
Cobalt	31	0.062	0.012	0.0030	mg/Kg		Q	1	6020/DOD
Copper	12	0.25	0.075	0.041	mg/Kg		Q	1	6020/DOD
Iron	35000	6.2	2.5	1.3	mg/Kg			1	6020/DOD
Magnesium	2100	12	2.5	1.3	mg/Kg			1	6020/DOD
Manganese	4600	6.2	0.37	0.20	mg/Kg		D	10	6020/DOD
Sodium	66	12	6.2	3.3	mg/Kg			1	6020/DOD
Nickel	21	0.12	0.037	0.014	mg/Kg			1	6020/DOD
Lead	34	0.12	0.037	0.019	mg/Kg			1	6020/DOD
Antimony	0.057	0.25	0.12	0.057	mg/Kg	J		1	6020/DOD
Thallium	0.24	0.12	0.025	0.013	mg/Kg			1	6020/DOD
Vanadium	33	0.12	0.075	0.037	mg/Kg			1	6020/DOD
Zinc	70	0.62	0.25	0.081	mg/Kg			1	6020/DOD
Potassium	1400	12	7.5	3.9	mg/Kg			1	6020/DOD
Selenium	0.96	0.62	0.12	0.063	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0287M-0001-SB
Lab Sample ID: 240-22274-7
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:23
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.017	0.084	0.025	0.0096	mg/Kg	J		1	6020/DOD
Aluminum	9100	2.5	0.50	0.24	mg/Kg			1	6020/DOD
Arsenic	18	0.084	0.042	0.015	mg/Kg			1	6020/DOD
Barium	49	0.84	0.017	0.0090	mg/Kg		Q	1	6020/DOD
Beryllium	0.49	0.084	0.0084	0.0063	mg/Kg			1	6020/DOD
Calcium	750	8.4	2.1	1.1	mg/Kg			1	6020/DOD
Cadmium	0.13	0.084	0.025	0.011	mg/Kg			1	6020/DOD
Chromium	12	0.17	0.034	0.019	mg/Kg			1	6020/DOD
Cobalt	11	0.042	0.0084	0.0020	mg/Kg		Q	1	6020/DOD
Copper	15	0.17	0.050	0.028	mg/Kg		Q	1	6020/DOD
Iron	22000	4.2	1.7	0.91	mg/Kg			1	6020/DOD
Magnesium	2000	8.4	1.7	0.91	mg/Kg			1	6020/DOD
Manganese	550	0.42	0.025	0.013	mg/Kg			1	6020/DOD
Sodium	120	8.4	4.2	2.2	mg/Kg			1	6020/DOD
Nickel	20	0.084	0.025	0.0095	mg/Kg			1	6020/DOD
Lead	10	0.084	0.025	0.013	mg/Kg			1	6020/DOD
Antimony	0.039	0.17	0.084	0.039	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.084	0.017	0.0086	mg/Kg			1	6020/DOD
Vanadium	15	0.084	0.050	0.025	mg/Kg			1	6020/DOD
Zinc	45	0.42	0.17	0.054	mg/Kg			1	6020/DOD
Potassium	1100	8.4	5.0	2.7	mg/Kg			1	6020/DOD
Selenium	0.28	0.42	0.084	0.043	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0288M-0001-SB
Lab Sample ID: 240-22274-8
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:32
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.011	0.093	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	3400	2.8	0.56	0.26	mg/Kg			1	6020/DOD
Arsenic	14	0.093	0.046	0.017	mg/Kg			1	6020/DOD
Barium	19	0.93	0.019	0.0099	mg/Kg		Q	1	6020/DOD
Beryllium	0.22	0.093	0.0093	0.0069	mg/Kg			1	6020/DOD
Calcium	240	9.3	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.11	0.093	0.028	0.012	mg/Kg			1	6020/DOD
Chromium	6.6	0.19	0.037	0.021	mg/Kg			1	6020/DOD
Cobalt	6.3	0.046	0.0093	0.0022	mg/Kg		Q	1	6020/DOD
Copper	7.0	0.19	0.056	0.031	mg/Kg		Q	1	6020/DOD
Iron	12000	4.6	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	810	9.3	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	390	0.46	0.028	0.015	mg/Kg			1	6020/DOD
Sodium	35	9.3	4.6	2.5	mg/Kg			1	6020/DOD
Nickel	13	0.093	0.028	0.010	mg/Kg			1	6020/DOD
Lead	5.1	0.093	0.028	0.014	mg/Kg			1	6020/DOD
Antimony	0.093	0.19	0.093	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.055	0.093	0.019	0.0094	mg/Kg	J		1	6020/DOD
Vanadium	6.8	0.093	0.056	0.028	mg/Kg			1	6020/DOD
Zinc	61	0.46	0.19	0.060	mg/Kg			1	6020/DOD
Potassium	640	9.3	5.6	2.9	mg/Kg			1	6020/DOD
Selenium	0.15	0.46	0.093	0.047	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0289M-0001-SB
Lab Sample ID: 240-22274-9
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 14:24
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.023	0.092	0.028	0.010	mg/Kg	J		1	6020/DOD
Aluminum	10000	2.8	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	14	0.092	0.046	0.017	mg/Kg			1	6020/DOD
Barium	53	0.92	0.018	0.0098	mg/Kg		Q	1	6020/DOD
Beryllium	0.50	0.092	0.0092	0.0069	mg/Kg			1	6020/DOD
Calcium	1200	9.2	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.15	0.092	0.028	0.012	mg/Kg			1	6020/DOD
Chromium	14	0.18	0.037	0.020	mg/Kg			1	6020/DOD
Cobalt	8.4	0.046	0.0092	0.0022	mg/Kg		Q	1	6020/DOD
Copper	20	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	24000	4.6	1.8	0.99	mg/Kg			1	6020/DOD
Magnesium	2500	9.2	1.8	0.99	mg/Kg			1	6020/DOD
Manganese	320	0.46	0.028	0.015	mg/Kg			1	6020/DOD
Sodium	50	9.2	4.6	2.4	mg/Kg			1	6020/DOD
Nickel	22	0.092	0.028	0.010	mg/Kg			1	6020/DOD
Lead	12	0.092	0.028	0.014	mg/Kg			1	6020/DOD
Antimony	0.092	0.18	0.092	0.042	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.092	0.018	0.0094	mg/Kg			1	6020/DOD
Vanadium	16	0.092	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	56	0.46	0.18	0.059	mg/Kg			1	6020/DOD
Potassium	1100	9.2	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.25	0.46	0.092	0.047	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0290M-0001-SB
Lab Sample ID: 240-22274-10
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:16
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.016	0.091	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	5900	2.7	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	25	0.091	0.045	0.016	mg/Kg			1	6020/DOD
Barium	28	0.91	0.018	0.0097	mg/Kg		Q	1	6020/DOD
Beryllium	0.27	0.091	0.0091	0.0068	mg/Kg			1	6020/DOD
Calcium	61	9.1	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.10	0.091	0.027	0.012	mg/Kg			1	6020/DOD
Chromium	8.9	0.18	0.036	0.020	mg/Kg			1	6020/DOD
Cobalt	8.9	0.045	0.0091	0.0022	mg/Kg		Q	1	6020/DOD
Copper	8.9	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	18000	4.5	1.8	0.98	mg/Kg			1	6020/DOD
Magnesium	1100	9.1	1.8	0.98	mg/Kg			1	6020/DOD
Manganese	400	0.45	0.027	0.014	mg/Kg			1	6020/DOD
Sodium	290	9.1	4.5	2.4	mg/Kg			1	6020/DOD
Nickel	14	0.091	0.027	0.010	mg/Kg			1	6020/DOD
Lead	8.0	0.091	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.056	0.18	0.091	0.042	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.091	0.018	0.0093	mg/Kg			1	6020/DOD
Vanadium	10	0.091	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	25	0.45	0.18	0.059	mg/Kg			1	6020/DOD
Potassium	2000	9.1	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.21	0.45	0.091	0.046	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0291M-0001-SB
Lab Sample ID: 240-22274-11
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 16:35
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.014	0.090	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	7000	2.7	0.54	0.26	mg/Kg			1	6020/DOD
Arsenic	17	0.090	0.045	0.016	mg/Kg			1	6020/DOD
Barium	32	0.90	0.018	0.0096	mg/Kg		Q	1	6020/DOD
Beryllium	0.39	0.090	0.0090	0.0068	mg/Kg			1	6020/DOD
Calcium	330	9.0	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.18	0.090	0.027	0.012	mg/Kg			1	6020/DOD
Chromium	10	0.18	0.036	0.020	mg/Kg			1	6020/DOD
Cobalt	8.5	0.045	0.0090	0.0022	mg/Kg		Q	1	6020/DOD
Copper	10	0.18	0.054	0.030	mg/Kg		Q	1	6020/DOD
Iron	17000	4.5	1.8	0.97	mg/Kg			1	6020/DOD
Magnesium	1600	9.0	1.8	0.97	mg/Kg			1	6020/DOD
Manganese	310	0.45	0.027	0.014	mg/Kg			1	6020/DOD
Sodium	120	9.0	4.5	2.4	mg/Kg			1	6020/DOD
Nickel	15	0.090	0.027	0.010	mg/Kg			1	6020/DOD
Lead	7.0	0.090	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.090	0.18	0.090	0.041	mg/Kg	U		1	6020/DOD
Thallium	0.10	0.090	0.018	0.0092	mg/Kg			1	6020/DOD
Vanadium	12	0.090	0.054	0.027	mg/Kg			1	6020/DOD
Zinc	86	0.45	0.18	0.058	mg/Kg			1	6020/DOD
Potassium	820	9.0	5.4	2.8	mg/Kg			1	6020/DOD
Selenium	0.31	0.45	0.090	0.046	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0292M-0001-SO
Lab Sample ID: 240-22274-12
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:26
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.094	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7100	2.8	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	14	0.094	0.047	0.017	mg/Kg			1	6020/DOD
Barium	43	0.94	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.34	0.094	0.0094	0.0071	mg/Kg			1	6020/DOD
Calcium	540	9.4	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.094	0.028	0.012	mg/Kg			1	6020/DOD
Chromium	9.0	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	21	0.047	0.0094	0.0023	mg/Kg		Q	1	6020/DOD
Copper	8.8	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	16000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1100	9.4	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	1400	0.47	0.028	0.015	mg/Kg			1	6020/DOD
Sodium	46	9.4	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	25	0.094	0.028	0.011	mg/Kg			1	6020/DOD
Lead	7.8	0.094	0.028	0.015	mg/Kg			1	6020/DOD
Antimony	0.094	0.19	0.094	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.094	0.019	0.0096	mg/Kg			1	6020/DOD
Vanadium	13	0.094	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	33	0.47	0.19	0.061	mg/Kg			1	6020/DOD
Potassium	620	9.4	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.36	0.47	0.094	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0293M-0001-SO
Lab Sample ID: 240-22274-13
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:21
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.088	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	7900	2.7	0.53	0.25	mg/Kg			1	6020/DOD
Arsenic	16	0.088	0.044	0.016	mg/Kg			1	6020/DOD
Barium	46	0.88	0.018	0.0095	mg/Kg		Q	1	6020/DOD
Beryllium	0.43	0.088	0.0088	0.0066	mg/Kg			1	6020/DOD
Calcium	400	8.8	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.10	0.088	0.027	0.012	mg/Kg			1	6020/DOD
Chromium	12	0.18	0.035	0.020	mg/Kg			1	6020/DOD
Cobalt	7.6	0.044	0.0088	0.0021	mg/Kg		Q	1	6020/DOD
Copper	11	0.18	0.053	0.029	mg/Kg		Q	1	6020/DOD
Iron	23000	4.4	1.8	0.95	mg/Kg			1	6020/DOD
Magnesium	1700	8.8	1.8	0.95	mg/Kg			1	6020/DOD
Manganese	560	0.44	0.027	0.014	mg/Kg			1	6020/DOD
Sodium	41	8.8	4.4	2.4	mg/Kg			1	6020/DOD
Nickel	17	0.088	0.027	0.010	mg/Kg			1	6020/DOD
Lead	8.5	0.088	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.088	0.18	0.088	0.041	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.088	0.018	0.0090	mg/Kg			1	6020/DOD
Vanadium	14	0.088	0.053	0.026	mg/Kg			1	6020/DOD
Zinc	41	0.44	0.18	0.057	mg/Kg			1	6020/DOD
Potassium	850	8.8	5.3	2.8	mg/Kg			1	6020/DOD
Selenium	0.36	0.44	0.088	0.045	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0294-0001-SO
Lab Sample ID: 240-22274-14
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:02
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 77.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.35	1.2	0.35	0.13	mg/Kg	U		10	6020/DOD
Aluminum	8000	35	7.0	3.3	mg/Kg		D	10	6020/DOD
Arsenic	74	1.2	0.58	0.21	mg/Kg		D	10	6020/DOD
Barium	1800	12	0.23	0.12	mg/Kg		D Q	10	6020/DOD
Beryllium	0.38	1.2	0.12	0.087	mg/Kg	J	D	10	6020/DOD
Calcium	18000	120	29	15	mg/Kg		D	10	6020/DOD
Cadmium	0.35	1.2	0.35	0.15	mg/Kg	J	D	10	6020/DOD
Chromium	14	2.3	0.47	0.26	mg/Kg		D	10	6020/DOD
Cobalt	310	0.58	0.12	0.028	mg/Kg		D Q	10	6020/DOD
Copper	250	2.3	0.70	0.38	mg/Kg		D Q	10	6020/DOD
Iron	15000	58	23	13	mg/Kg		D	10	6020/DOD
Magnesium	7600	120	23	13	mg/Kg		D	10	6020/DOD
Manganese	210000	580	35	18	mg/Kg		D	1000	6020/DOD
Sodium	3100	120	58	31	mg/Kg		D	10	6020/DOD
Nickel	73	1.2	0.35	0.13	mg/Kg		D	10	6020/DOD
Lead	79	1.2	0.35	0.18	mg/Kg		D	10	6020/DOD
Antimony	1.2	2.3	1.2	0.53	mg/Kg	U		10	6020/DOD
Thallium	3.5	1.2	0.23	0.12	mg/Kg		D	10	6020/DOD
Vanadium	32	1.2	0.70	0.35	mg/Kg		D	10	6020/DOD
Zinc	69	5.8	2.3	0.75	mg/Kg		D	10	6020/DOD
Potassium	2200	120	70	37	mg/Kg		D	10	6020/DOD
Selenium	1.2	5.8	1.2	0.59	mg/Kg	U		10	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0295-0001-SO
Lab Sample ID: 240-22274-15
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 15:05
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 82.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.027	0.11	0.034	0.013	mg/Kg	J		1	6020/DOD
Aluminum	14000	3.4	0.68	0.32	mg/Kg			1	6020/DOD
Arsenic	11	0.11	0.057	0.021	mg/Kg			1	6020/DOD
Barium	69	1.1	0.023	0.012	mg/Kg		Q	1	6020/DOD
Beryllium	0.47	0.11	0.011	0.0085	mg/Kg			1	6020/DOD
Calcium	1600	11	2.8	1.5	mg/Kg			1	6020/DOD
Cadmium	0.11	0.11	0.034	0.015	mg/Kg			1	6020/DOD
Chromium	17	0.23	0.045	0.025	mg/Kg			1	6020/DOD
Cobalt	5.6	0.057	0.011	0.0027	mg/Kg		Q	1	6020/DOD
Copper	14	0.23	0.068	0.037	mg/Kg		Q	1	6020/DOD
Iron	24000	5.7	2.3	1.2	mg/Kg			1	6020/DOD
Magnesium	2700	11	2.3	1.2	mg/Kg			1	6020/DOD
Manganese	330	0.57	0.034	0.018	mg/Kg			1	6020/DOD
Sodium	57	11	5.7	3.0	mg/Kg			1	6020/DOD
Nickel	15	0.11	0.034	0.013	mg/Kg			1	6020/DOD
Lead	11	0.11	0.034	0.017	mg/Kg			1	6020/DOD
Antimony	0.11	0.23	0.11	0.052	mg/Kg	U		1	6020/DOD
Thallium	0.17	0.11	0.023	0.012	mg/Kg			1	6020/DOD
Vanadium	25	0.11	0.068	0.034	mg/Kg			1	6020/DOD
Zinc	42	0.57	0.23	0.073	mg/Kg			1	6020/DOD
Potassium	870	11	6.8	3.6	mg/Kg			1	6020/DOD
Selenium	0.55	0.57	0.11	0.058	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0256M-0001-SO
Lab Sample ID: 240-22274-16
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:06
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.018	0.088	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	9100	2.7	0.53	0.25	mg/Kg			1	6020/DOD
Arsenic	21	0.088	0.044	0.016	mg/Kg			1	6020/DOD
Barium	52	0.88	0.018	0.0095	mg/Kg		Q	1	6020/DOD
Beryllium	0.47	0.088	0.0088	0.0066	mg/Kg			1	6020/DOD
Calcium	390	8.8	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.093	0.088	0.027	0.012	mg/Kg			1	6020/DOD
Chromium	16	0.18	0.035	0.020	mg/Kg			1	6020/DOD
Cobalt	6.7	0.044	0.0088	0.0021	mg/Kg		Q	1	6020/DOD
Copper	12	0.18	0.053	0.029	mg/Kg		Q	1	6020/DOD
Iron	18000	4.4	1.8	0.95	mg/Kg			1	6020/DOD
Magnesium	2000	8.8	1.8	0.95	mg/Kg			1	6020/DOD
Manganese	300	0.44	0.027	0.014	mg/Kg			1	6020/DOD
Sodium	290	8.8	4.4	2.4	mg/Kg			1	6020/DOD
Nickel	15	0.088	0.027	0.010	mg/Kg			1	6020/DOD
Lead	9.6	0.088	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.088	0.18	0.088	0.041	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.088	0.018	0.0090	mg/Kg			1	6020/DOD
Vanadium	15	0.088	0.053	0.026	mg/Kg			1	6020/DOD
Zinc	35	0.44	0.18	0.057	mg/Kg			1	6020/DOD
Potassium	1300	8.8	5.3	2.8	mg/Kg			1	6020/DOD
Selenium	0.35	0.44	0.088	0.045	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0258M-0001-SO
Lab Sample ID: 240-22274-17
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:02
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.012	0.089	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	5600	2.7	0.54	0.25	mg/Kg			1	6020/DOD
Arsenic	13	0.089	0.045	0.016	mg/Kg			1	6020/DOD
Barium	35	0.89	0.018	0.0096	mg/Kg		Q	1	6020/DOD
Beryllium	0.28	0.089	0.0089	0.0067	mg/Kg			1	6020/DOD
Calcium	390	8.9	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.089	0.089	0.027	0.012	mg/Kg			1	6020/DOD
Chromium	9.3	0.18	0.036	0.020	mg/Kg			1	6020/DOD
Cobalt	6.3	0.045	0.0089	0.0021	mg/Kg		Q	1	6020/DOD
Copper	12	0.18	0.054	0.029	mg/Kg		Q	1	6020/DOD
Iron	14000	4.5	1.8	0.96	mg/Kg			1	6020/DOD
Magnesium	1400	8.9	1.8	0.96	mg/Kg			1	6020/DOD
Manganese	1200	0.45	0.027	0.014	mg/Kg			1	6020/DOD
Sodium	210	8.9	4.5	2.4	mg/Kg			1	6020/DOD
Nickel	15	0.089	0.027	0.010	mg/Kg			1	6020/DOD
Lead	39	0.089	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.089	0.18	0.089	0.041	mg/Kg	U		1	6020/DOD
Thallium	0.088	0.089	0.018	0.0091	mg/Kg	J		1	6020/DOD
Vanadium	9.3	0.089	0.054	0.027	mg/Kg			1	6020/DOD
Zinc	30	0.45	0.18	0.058	mg/Kg			1	6020/DOD
Potassium	760	8.9	5.4	2.8	mg/Kg			1	6020/DOD
Selenium	0.26	0.45	0.089	0.045	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0260M-0001-SO
Lab Sample ID: 240-22274-18
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:53
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.023	0.094	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	13000	2.8	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	18	0.094	0.047	0.017	mg/Kg			1	6020/DOD
Barium	68	0.94	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.56	0.094	0.0094	0.0071	mg/Kg			1	6020/DOD
Calcium	120	9.4	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.099	0.094	0.028	0.012	mg/Kg			1	6020/DOD
Chromium	16	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	8.5	0.047	0.0094	0.0023	mg/Kg		Q	1	6020/DOD
Copper	16	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	25000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2500	9.4	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	290	0.47	0.028	0.015	mg/Kg			1	6020/DOD
Sodium	820	9.4	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	18	0.094	0.028	0.011	mg/Kg			1	6020/DOD
Lead	12	0.094	0.028	0.015	mg/Kg			1	6020/DOD
Antimony	0.094	0.19	0.094	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.094	0.019	0.0096	mg/Kg			1	6020/DOD
Vanadium	20	0.094	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	44	0.47	0.19	0.061	mg/Kg			1	6020/DOD
Potassium	2500	9.4	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.34	0.47	0.094	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0261M-0001-SO
Lab Sample ID: 240-22274-19
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 11:29
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.025	0.087	0.026	0.0099	mg/Kg	J		1	6020/DOD
Aluminum	6500	2.6	0.52	0.25	mg/Kg			1	6020/DOD
Arsenic	5.7	0.087	0.043	0.016	mg/Kg			1	6020/DOD
Barium	52	0.87	0.017	0.0093	mg/Kg		Q	1	6020/DOD
Beryllium	0.40	0.087	0.0087	0.0065	mg/Kg			1	6020/DOD
Calcium	730	8.7	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.077	0.087	0.026	0.011	mg/Kg	J		1	6020/DOD
Chromium	25	0.17	0.035	0.019	mg/Kg			1	6020/DOD
Cobalt	5.6	0.043	0.0087	0.0021	mg/Kg		Q	1	6020/DOD
Copper	5.4	0.17	0.052	0.029	mg/Kg		Q	1	6020/DOD
Iron	11000	4.3	1.7	0.94	mg/Kg			1	6020/DOD
Magnesium	1400	8.7	1.7	0.94	mg/Kg			1	6020/DOD
Manganese	580	0.43	0.026	0.014	mg/Kg			1	6020/DOD
Sodium	45	8.7	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	11	0.087	0.026	0.0098	mg/Kg			1	6020/DOD
Lead	8.6	0.087	0.026	0.013	mg/Kg			1	6020/DOD
Antimony	0.087	0.17	0.087	0.040	mg/Kg	U		1	6020/DOD
Thallium	0.093	0.087	0.017	0.0089	mg/Kg			1	6020/DOD
Vanadium	11	0.087	0.052	0.026	mg/Kg			1	6020/DOD
Zinc	20	0.43	0.17	0.056	mg/Kg			1	6020/DOD
Potassium	480	8.7	5.2	2.7	mg/Kg			1	6020/DOD
Selenium	0.32	0.43	0.087	0.044	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0262M-0001-SO
Lab Sample ID: 240-22274-20
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:05
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.019	0.094	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	2.8	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	91	0.094	0.047	0.017	mg/Kg			1	6020/DOD
Barium	61	0.94	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.56	0.094	0.0094	0.0071	mg/Kg			1	6020/DOD
Calcium	220	9.4	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.12	0.094	0.028	0.012	mg/Kg			1	6020/DOD
Chromium	14	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	7.2	0.047	0.0094	0.0023	mg/Kg		Q	1	6020/DOD
Copper	19	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	23000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2400	9.4	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	210	0.47	0.028	0.015	mg/Kg			1	6020/DOD
Sodium	240	9.4	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	19	0.094	0.028	0.011	mg/Kg			1	6020/DOD
Lead	12	0.094	0.028	0.015	mg/Kg			1	6020/DOD
Antimony	0.094	0.19	0.094	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.094	0.019	0.0096	mg/Kg			1	6020/DOD
Vanadium	17	0.094	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	49	0.47	0.19	0.061	mg/Kg			1	6020/DOD
Potassium	2300	9.4	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.40	0.47	0.094	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0263M-0001-SO
Lab Sample ID: 240-22274-21
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 11:42
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.091	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	11000	2.7	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	9.9	0.091	0.045	0.016	mg/Kg			1	6020/DOD
Barium	55	0.91	0.018	0.0097	mg/Kg		Q	1	6020/DOD
Beryllium	0.50	0.091	0.0091	0.0068	mg/Kg			1	6020/DOD
Calcium	750	9.1	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.10	0.091	0.027	0.012	mg/Kg			1	6020/DOD
Chromium	14	0.18	0.036	0.020	mg/Kg			1	6020/DOD
Cobalt	6.6	0.045	0.0091	0.0022	mg/Kg		Q	1	6020/DOD
Copper	13	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	20000	4.5	1.8	0.98	mg/Kg			1	6020/DOD
Magnesium	2500	9.1	1.8	0.98	mg/Kg			1	6020/DOD
Manganese	250	0.45	0.027	0.014	mg/Kg			1	6020/DOD
Sodium	65	9.1	4.5	2.4	mg/Kg			1	6020/DOD
Nickel	17	0.091	0.027	0.010	mg/Kg			1	6020/DOD
Lead	9.6	0.091	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.091	0.18	0.091	0.042	mg/Kg	U		1	6020/DOD
Thallium	0.14	0.091	0.018	0.0093	mg/Kg			1	6020/DOD
Vanadium	17	0.091	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	41	0.45	0.18	0.059	mg/Kg			1	6020/DOD
Potassium	1000	9.1	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.32	0.45	0.091	0.046	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0264M-0001-SO
Lab Sample ID: 240-22274-22
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:58
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	12000	2.9	0.58	0.28	mg/Kg		B J	1	6020/DOD
Arsenic	23	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	94	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.70	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	490	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.097	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	16	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	12	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	22	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	26000	4.9	1.9	1.0	mg/Kg		B J	1	6020/DOD
Magnesium	3200	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	1700	0.49	0.029	0.015	mg/Kg		J	1	6020/DOD
Sodium	1200	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	28	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	58	0.097	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U	J	1	6020/DOD
Thallium	0.14	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	17	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	61	0.49	0.19	0.063	mg/Kg			1	6020/DOD
Potassium	1800	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.39	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0265-0001-SO
Lab Sample ID: 240-22274-23
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:56
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 78.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.046	0.12	0.037	0.014	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.7	0.75	0.35	mg/Kg		B	1	6020/DOD
Arsenic	180	0.12	0.062	0.023	mg/Kg			1	6020/DOD
Barium	120	1.2	0.025	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	0.76	0.12	0.012	0.0093	mg/Kg			1	6020/DOD
Calcium	1200	12	3.1	1.7	mg/Kg			1	6020/DOD
Cadmium	0.27	0.12	0.037	0.016	mg/Kg			1	6020/DOD
Chromium	11	0.25	0.050	0.028	mg/Kg			1	6020/DOD
Cobalt	23	0.062	0.012	0.0030	mg/Kg		Q	1	6020/DOD
Copper	7.2	0.25	0.075	0.041	mg/Kg		Q	1	6020/DOD
Iron	22000	6.2	2.5	1.3	mg/Kg		B	1	6020/DOD
Magnesium	1500	12	2.5	1.3	mg/Kg			1	6020/DOD
Manganese	3000	6.2	0.37	0.20	mg/Kg		D	10	6020/DOD
Sodium	270	12	6.2	3.3	mg/Kg			1	6020/DOD
Nickel	11	0.12	0.037	0.014	mg/Kg			1	6020/DOD
Lead	27	0.12	0.037	0.019	mg/Kg			1	6020/DOD
Antimony	0.25	0.25	0.12	0.057	mg/Kg			1	6020/DOD
Thallium	0.17	0.12	0.025	0.013	mg/Kg			1	6020/DOD
Vanadium	22	0.12	0.075	0.037	mg/Kg			1	6020/DOD
Zinc	46	0.62	0.25	0.081	mg/Kg			1	6020/DOD
Potassium	2200	12	7.5	3.9	mg/Kg			1	6020/DOD
Selenium	0.54	0.62	0.12	0.063	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0266-0001-SO
Lab Sample ID: 240-22274-24
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 11:05
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 81.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.035	0.12	0.036	0.014	mg/Kg	J		1	6020/DOD
Aluminum	13000	3.6	0.73	0.35	mg/Kg		B	1	6020/DOD
Arsenic	8.5	0.12	0.061	0.022	mg/Kg			1	6020/DOD
Barium	61	1.2	0.024	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	0.44	0.12	0.012	0.0091	mg/Kg			1	6020/DOD
Calcium	320	12	3.0	1.6	mg/Kg			1	6020/DOD
Cadmium	0.19	0.12	0.036	0.016	mg/Kg			1	6020/DOD
Chromium	15	0.24	0.049	0.027	mg/Kg			1	6020/DOD
Cobalt	7.2	0.061	0.012	0.0029	mg/Kg		Q	1	6020/DOD
Copper	12	0.24	0.073	0.040	mg/Kg		Q	1	6020/DOD
Iron	23000	6.1	2.4	1.3	mg/Kg		B	1	6020/DOD
Magnesium	2400	12	2.4	1.3	mg/Kg			1	6020/DOD
Manganese	500	0.61	0.036	0.019	mg/Kg			1	6020/DOD
Sodium	800	12	6.1	3.2	mg/Kg			1	6020/DOD
Nickel	14	0.12	0.036	0.014	mg/Kg			1	6020/DOD
Lead	13	0.12	0.036	0.019	mg/Kg			1	6020/DOD
Antimony	0.070	0.24	0.12	0.056	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.12	0.024	0.012	mg/Kg			1	6020/DOD
Vanadium	22	0.12	0.073	0.036	mg/Kg			1	6020/DOD
Zinc	36	0.61	0.24	0.079	mg/Kg			1	6020/DOD
Potassium	3200	12	7.3	3.8	mg/Kg			1	6020/DOD
Selenium	0.33	0.61	0.12	0.062	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0224M-0001-SO
Lab Sample ID: 240-22274-25
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:22
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	13000	3.0	0.60	0.28	mg/Kg		B	1	6020/DOD
Arsenic	20	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	84	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.77	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	970	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.17	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	17	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	12	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	23	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	27000	5.0	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	3800	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	1100	0.50	0.030	0.016	mg/Kg			1	6020/DOD
Sodium	71	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	28	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	38	0.10	0.030	0.015	mg/Kg			1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.19	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	19	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	60	0.50	0.20	0.065	mg/Kg			1	6020/DOD
Potassium	1200	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.39	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0225M-0001-SO
Lab Sample ID: 240-22274-26
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:28
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.10	0.030	0.011	mg/Kg	U		1	6020/DOD
Aluminum	3400	3.0	0.60	0.28	mg/Kg		B	1	6020/DOD
Arsenic	17	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	20	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.22	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	380	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.067	0.10	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	6.3	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	6.0	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	7.6	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	14000	5.0	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	1000	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	350	0.50	0.030	0.016	mg/Kg			1	6020/DOD
Sodium	32	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	15	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	6.9	0.10	0.030	0.015	mg/Kg			1	6020/DOD
Antimony	0.047	0.20	0.10	0.046	mg/Kg	J		1	6020/DOD
Thallium	0.090	0.10	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	6.4	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	23	0.50	0.20	0.065	mg/Kg			1	6020/DOD
Potassium	580	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.11	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0227M-0001-SO
Lab Sample ID: 240-22274-27
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:10
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.024	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	12000	2.9	0.58	0.28	mg/Kg		B	1	6020/DOD
Arsenic	14	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	72	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.65	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	1700	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.13	0.097	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	18	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	19	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	26000	4.9	1.9	1.0	mg/Kg		B	1	6020/DOD
Magnesium	3600	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	610	0.49	0.029	0.015	mg/Kg			1	6020/DOD
Sodium	51	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	28	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	13	0.097	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.14	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	17	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	57	0.49	0.19	0.063	mg/Kg			1	6020/DOD
Potassium	1200	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.26	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0228M-0001-SO
Lab Sample ID: 240-22274-28
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:40
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7600	2.9	0.58	0.28	mg/Kg		B	1	6020/DOD
Arsenic	15	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	47	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.43	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	540	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.10	0.097	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	11	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	9.7	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	13	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	28000	4.9	1.9	1.0	mg/Kg		B	1	6020/DOD
Magnesium	2100	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	720	0.49	0.029	0.015	mg/Kg			1	6020/DOD
Sodium	44	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	22	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	9.9	0.097	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.18	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	12	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	37	0.49	0.19	0.063	mg/Kg			1	6020/DOD
Potassium	810	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.23	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0229M-0001-SO
Lab Sample ID: 240-22274-29
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:58
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.016	0.099	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.0	0.59	0.28	mg/Kg		B	1	6020/DOD
Arsenic	13	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	55	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.49	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	140	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.13	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	13	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	6.9	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	17	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	22000	5.0	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	3000	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	160	0.50	0.030	0.016	mg/Kg			1	6020/DOD
Sodium	34	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	11	0.099	0.030	0.015	mg/Kg			1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	17	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	45	0.50	0.20	0.064	mg/Kg			1	6020/DOD
Potassium	830	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.51	0.50	0.099	0.050	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0230M-0001-SO
Lab Sample ID: 240-22274-30
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 10:18
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.035	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.0	0.60	0.28	mg/Kg		B	1	6020/DOD
Arsenic	52	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	84	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.69	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	2500	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.19	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	17	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	29	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	23000	5.0	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	3300	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	4300	5.0	0.30	0.16	mg/Kg		D	10	6020/DOD
Sodium	130	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	26	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	130	0.10	0.030	0.015	mg/Kg			1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.19	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	16	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	58	0.50	0.20	0.065	mg/Kg			1	6020/DOD
Potassium	1200	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.50	0.50	0.10	0.051	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0231M-0001-SO
Lab Sample ID: 240-22274-31
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:25
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.022	0.099	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8800	3.0	0.59	0.28	mg/Kg		B	1	6020/DOD
Arsenic	12	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	86	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.40	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	200	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	12	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	7.5	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	12	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	17000	5.0	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	2100	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	220	0.50	0.030	0.016	mg/Kg			1	6020/DOD
Sodium	37	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	19	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	9.9	0.099	0.030	0.015	mg/Kg			1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	13	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	33	0.50	0.20	0.064	mg/Kg			1	6020/DOD
Potassium	830	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.32	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0232-0001-SO
Lab Sample ID: 240-22274-32
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:26
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 81.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.12	0.037	0.014	mg/Kg	J		1	6020/DOD
Aluminum	6300	3.7	0.73	0.35	mg/Kg		B	1	6020/DOD
Arsenic	5.3	0.12	0.061	0.022	mg/Kg			1	6020/DOD
Barium	61	1.2	0.024	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	0.27	0.12	0.012	0.0091	mg/Kg			1	6020/DOD
Calcium	680	12	3.0	1.6	mg/Kg			1	6020/DOD
Cadmium	0.15	0.12	0.037	0.016	mg/Kg			1	6020/DOD
Chromium	460	0.24	0.049	0.027	mg/Kg			1	6020/DOD
Cobalt	10	0.061	0.012	0.0029	mg/Kg		Q	1	6020/DOD
Copper	5.6	0.24	0.073	0.040	mg/Kg		Q	1	6020/DOD
Iron	13000	6.1	2.4	1.3	mg/Kg		B	1	6020/DOD
Magnesium	5500	12	2.4	1.3	mg/Kg			1	6020/DOD
Manganese	1600	0.61	0.037	0.019	mg/Kg			1	6020/DOD
Sodium	32	12	6.1	3.2	mg/Kg			1	6020/DOD
Nickel	130	0.12	0.037	0.014	mg/Kg			1	6020/DOD
Lead	10	0.12	0.037	0.019	mg/Kg			1	6020/DOD
Antimony	0.12	0.24	0.12	0.056	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.12	0.024	0.012	mg/Kg	J		1	6020/DOD
Vanadium	13	0.12	0.073	0.036	mg/Kg			1	6020/DOD
Zinc	20	0.61	0.24	0.079	mg/Kg			1	6020/DOD
Potassium	340	12	7.3	3.8	mg/Kg			1	6020/DOD
Selenium	0.22	0.61	0.12	0.062	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0233-0001-SO
Lab Sample ID: 240-22274-33
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:22
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 78.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.069	0.12	0.037	0.014	mg/Kg	J		1	6020/DOD
Aluminum	13000	3.7	0.74	0.35	mg/Kg		B	1	6020/DOD
Arsenic	7.1	0.12	0.062	0.022	mg/Kg			1	6020/DOD
Barium	150	1.2	0.025	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	0.68	0.12	0.012	0.0093	mg/Kg			1	6020/DOD
Calcium	700	12	3.1	1.6	mg/Kg			1	6020/DOD
Cadmium	0.22	0.12	0.037	0.016	mg/Kg			1	6020/DOD
Chromium	14	0.25	0.050	0.028	mg/Kg			1	6020/DOD
Cobalt	16	0.062	0.012	0.0030	mg/Kg		Q	1	6020/DOD
Copper	6.0	0.25	0.074	0.041	mg/Kg		Q	1	6020/DOD
Iron	22000	6.2	2.5	1.3	mg/Kg		B	1	6020/DOD
Magnesium	1700	12	2.5	1.3	mg/Kg			1	6020/DOD
Manganese	3000	6.2	0.37	0.20	mg/Kg		D	10	6020/DOD
Sodium	58	12	6.2	3.3	mg/Kg			1	6020/DOD
Nickel	12	0.12	0.037	0.014	mg/Kg			1	6020/DOD
Lead	18	0.12	0.037	0.019	mg/Kg			1	6020/DOD
Antimony	0.12	0.25	0.12	0.057	mg/Kg	U		1	6020/DOD
Thallium	0.23	0.12	0.025	0.013	mg/Kg			1	6020/DOD
Vanadium	27	0.12	0.074	0.037	mg/Kg			1	6020/DOD
Zinc	42	0.62	0.25	0.080	mg/Kg			1	6020/DOD
Potassium	640	12	7.4	3.9	mg/Kg			1	6020/DOD
Selenium	0.49	0.62	0.12	0.063	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0320M-0001-SO
Lab Sample ID: 240-22274-34
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 09:50
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.036	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	13000	3.0	0.60	0.28	mg/Kg		B	1	6020/DOD
Arsenic	11	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	160	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.63	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	2900	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	15	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	9.7	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	17	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	24000	5.0	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	2500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	5500	5.0	0.30	0.16	mg/Kg		D	10	6020/DOD
Sodium	50	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	26	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	16	0.10	0.030	0.015	mg/Kg			1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.17	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	24	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	49	0.50	0.20	0.065	mg/Kg			1	6020/DOD
Potassium	760	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.50	0.50	0.10	0.051	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0321M-0001-SO
Lab Sample ID: 240-22274-35
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/19/2013 12:20
Reporting Basis: WET
Date Received: 03/20/2013 17:27

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.044	0.098	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	13000	2.9	0.59	0.28	mg/Kg		B	1	6020/DOD
Arsenic	13	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	79	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.67	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	2600	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.21	0.098	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	57	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	8.2	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	14	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	25000	4.9	2.0	1.1	mg/Kg		B	1	6020/DOD
Magnesium	2300	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	690	0.49	0.029	0.016	mg/Kg			1	6020/DOD
Sodium	59	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	18	0.098	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.065	0.20	0.098	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.23	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	23	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	48	0.49	0.20	0.064	mg/Kg			1	6020/DOD
Potassium	770	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.90	0.49	0.098	0.050	mg/Kg			1	6020/DOD

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00339

Analyte	ICV 240-79547/7-A 03/27/2013 09:34				CCV 240-79547/10-A 03/27/2013 09:45				CCV 240-79547/10-A 03/27/2013 10:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.66		2.50	106	4.97		5.00	99	5.03		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00339

Analyte	CCV 240-79547/10-A 03/27/2013 10:21											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.06		5.00	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	ICV 240-80224/7-A 04/02/2013 11:59				CCV 240-80224/10-A 04/02/2013 13:40				CCV 240-80224/10-A 04/02/2013 13:58			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.47		2.50	99	5.04		5.00	101	5.01		5.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	CCV 240-80224/10-A 04/02/2013 14:14				CCV 240-80224/10-A 04/02/2013 14:38				CCV 240-80224/10-A 04/02/2013 14:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.04		5.00	101	5.07		5.00	101	5.06		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	ICV 180-68949/5 04/10/2013 20:05				CCV 180-68949/60 04/11/2013 03:34				CCV 180-68949/72 04/11/2013 05:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	404		400	101	507		500	101	502		500	100
Antimony	78.4		80.0	98	100		100	100	101		100	101
Arsenic	79.1		80.0	99	98.6		100	99	98.7		100	99
Barium	80.7		80.0	101	101		100	101	101		100	101
Beryllium	78.1		80.0	98	106		100	106	103		100	103
Cadmium	78.3		80.0	98	99.7		100	100	98.7		100	99
Calcium	40600		40000	101	52200		50000	104	52000		50000	104
Chromium	82.1		80.0	103	101		100	101	101		100	101
Cobalt	81.7		80.0	102	101		100	101	102		100	102
Copper	81.6		80.0	102	101		100	101	101		100	101
Iron	20200		20000	101	26600		25000	107	26800		25000	107
Lead	82.4		80.0	103	95.9		100	96	94.2		100	94
Magnesium	39100		40000	98	51600		50000	103	51100		50000	102
Manganese	383		400	96	483		500	97	483		500	97
Nickel	81.3		80.0	102	101		100	101	101		100	101
Potassium	40600		40000	101	52100		50000	104	52200		50000	104
Selenium	78.7		80.0	98	99.0		100	99	99.6		100	100
Silver	79.1		80.0	99	98.1		100	98	97.9		100	98
Sodium	39800		40000	100	51400		50000	103	50600		50000	101
Thallium	82.6		80.0	103	96.3		100	96	94.5		100	94
Vanadium	82.2		80.0	103	102		100	102	101		100	101
Zinc	83.7		80.0	105	100		100	100	100		100	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: CCVHL1_00002

Analyte	ICV 180-69084/5 04/12/2013 13:43				CCV 180-69084/8 04/12/2013 14:09							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	411		400	103	509000		500000	102				
Barium	81.1		80.0	101	15600		15000	104				
Chromium	82.7		80.0	103	20900		20000	104				
Copper	82.0		80.0	102	20800		20000	104				
Iron	20300		20000	102	513000		500000	103				
Lead	81.8		80.0	102	20100		20000	101				
Manganese	408		400	102	21200		20000	106				
Nickel	80.8		80.0	101	10200		10000	102				
Zinc	81.7		80.0	102	21200		20000	106				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: CCVHL2_00002

Analyte	ICV 180-69084/5 04/12/2013 13:43				CCV 180-69084/9 04/12/2013 14:17							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	40300		40000	101	1010000		1000000	101				
Magnesium	39900		40000	100	1010000		1000000	101				
Potassium	40800		40000	102	508000		500000	102				
Sodium	40600		40000	101	513000		500000	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	ICV 180-69084/5 04/12/2013 13:43				CCV 180-69084/12 04/12/2013 14:42				CCV 180-69084/48 04/12/2013 19:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	411		400	103	534		500	107	524		500	105
Antimony	79.8		80.0	100	102		100	102	100		100	100
Arsenic	79.1		80.0	99	103		100	103	102		100	102
Barium	81.1		80.0	101	104		100	104	102		100	102
Beryllium	79.8		80.0	100	105		100	105	103		100	103
Cadmium	82.4		80.0	103	104		100	104	101		100	101
Calcium	40300		40000	101	52100		50000	104	51800		50000	104
Chromium	82.7		80.0	103	104		100	104	104		100	104
Cobalt	82.0		80.0	103	106		100	106	105		100	105
Copper	82.0		80.0	102	106		100	106	107		100	107
Iron	20300		20000	102	26200		25000	105	26500		25000	106
Lead	81.8		80.0	102	105		100	105	104		100	104
Magnesium	39900		40000	100	52200		50000	104	52000		50000	104
Manganese	408		400	102	525		500	105	521		500	104
Nickel	80.8		80.0	101	106		100	106	105		100	105
Potassium	40800		40000	102	52300		50000	105	52600		50000	105
Selenium	80.8		80.0	101	103		100	103	102		100	102
Silver	81.2		80.0	102	106		100	106	104		100	104
Sodium	40600		40000	101	51900		50000	104	51200		50000	102
Thallium	83.7		80.0	105	105		100	105	104		100	104
Vanadium	82.1		80.0	103	104		100	104	105		100	105
Zinc	81.7		80.0	102	105		100	105	103		100	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	CCV 180-69084/59 04/12/2013 21:06				CCV 180-69084/71 04/12/2013 22:46				CCV 180-69084/83 04/13/2013 00:24			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	528		500	106	531		500	106	528		500	106
Antimony	104		100	104	103		100	103	103		100	103
Arsenic	105		100	105	105		100	105	104		100	104
Barium	106		100	106	104		100	104	105		100	105
Beryllium	104		100	104	103		100	103	104		100	104
Cadmium	104		100	104	105		100	105	105		100	105
Calcium	51900		50000	104	51700		50000	103	51800		50000	104
Chromium	105		100	105	104		100	104	105		100	105
Cobalt	106		100	106	106		100	106	106		100	106
Copper	107		100	107	108		100	108	107		100	107
Iron	26800		25000	107	26600		25000	106	26700		25000	107
Lead	106		100	106	107		100	107	108		100	108
Magnesium	52400		50000	105	52500		50000	105	52600		50000	105
Manganese	525		500	105	522		500	104	523		500	105
Nickel	106		100	106	106		100	106	106		100	106
Potassium	52800		50000	106	52900		50000	106	53300		50000	107
Selenium	104		100	104	105		100	105	105		100	105
Silver	106		100	106	106		100	106	106		100	106
Sodium	51500		50000	103	52100		50000	104	51700		50000	103
Thallium	106		100	106	106		100	106	107		100	107
Vanadium	105		100	105	103		100	103	104		100	104
Zinc	104		100	104	105		100	105	103		100	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	CCV 180-69084/95 04/13/2013 02:06				CCV 180-69084/107 04/13/2013 03:45				CCV 180-69084/113 04/13/2013 04:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	539		500	108	528		500	106	531		500	106
Antimony	105		100	105	104		100	104	103		100	103
Arsenic	102		100	102	103		100	103	99.4		100	99
Barium	106		100	106	106		100	106	107		100	107
Beryllium	104		100	104	101		100	101	102		100	102
Cadmium	106		100	106	105		100	105	105		100	105
Calcium	51200		50000	102	50800		50000	102	51000		50000	102
Chromium	102		100	102	103		100	103	102		100	102
Cobalt	103		100	103	104		100	104	103		100	103
Copper	104		100	104	107		100	107	103		100	103
Iron	26400		25000	106	26700		25000	107	26400		25000	106
Lead	108		100	108	107		100	107	107		100	107
Magnesium	53200		50000	106	52700		50000	105	52800		50000	106
Manganese	512		500	102	513		500	103	507		500	101
Nickel	104		100	104	105		100	105	103		100	103
Potassium	52900		50000	106	53500		50000	107	53400		50000	107
Selenium	105		100	105	104		100	104	100		100	100
Silver	107		100	107	107		100	107	104		100	104
Sodium	52200		50000	104	51300		50000	103	51500		50000	103
Thallium	108		100	108	107		100	107	107		100	107
Vanadium	101		100	101	103		100	103	102		100	102
Zinc	99.4		100	99	99.7		100	100	98.0		100	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Method: 7471/DOD Instrument ID: H1

Lab Sample ID: CRA 240-79547/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00339

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.171	J	85	

Lab Sample ID: CRA 240-79547/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00339

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.154	J	77	

Lab Sample ID: CRA 240-80224/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00345

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.210		105	

Lab Sample ID: CRA 240-80224/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00345

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.196	J	98	

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-69084/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00029

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	1.03		103	80-120
Aluminum	30.0	31.2		104	80-120
Arsenic	1.00	1.05		105	80-120
Barium	10.0	10.3		103	80-120
Beryllium	1.00	1.15		115	80-120
Calcium	100	91.3	J	91	80-120
Cadmium	1.00	1.11		111	80-120
Chromium	2.00	2.20		110	80-120
Cobalt	0.500	0.509		102	80-120
Copper	2.00	2.16		108	80-120
Iron	50.0	52.3		105	80-120
Magnesium	100	99.1	J	99	80-120
Manganese	5.00	5.42		108	80-120
Sodium	100	105		105	80-120
Nickel	1.00	1.12		112	80-120
Lead	1.00	1.02		102	80-120
Antimony	2.00	1.99	J	99	80-120
Thallium	1.00	0.991	J	99	80-120
Vanadium	1.00	1.06		106	80-120
Zinc	5.00	4.08	J	82	80-120
Potassium	100	105		105	80-120
Selenium	5.00	5.46		109	80-120

Lab Sample ID: CRI 180-69084/111 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00029

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	1.03		103	80-120
Aluminum	30.0	32.9		110	80-120
Arsenic	1.00	1.18		118	80-120
Barium	10.0	10.3		103	80-120
Beryllium	1.00	0.803	J	80	80-120
Calcium	100	117		117	80-120
Cadmium	1.00	0.988	J	99	80-120
Chromium	2.00	2.23		112	80-120

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-69084/111 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00029

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	0.500	0.502		100	80-120
Copper	2.00	2.13		106	80-120
Iron	50.0	74.5		149	80-120
Magnesium	100	96.9	J	97	80-120
Manganese	5.00	5.43		109	80-120
Sodium	100	118		118	80-120
Nickel	1.00	1.15		115	80-120
Lead	1.00	1.05		105	80-120
Antimony	2.00	1.98	J	99	80-120
Thallium	1.00	1.00		100	80-120
Vanadium	1.00	1.09		109	80-120
Zinc	5.00	4.04	J	81	80-120
Potassium	100	83.3	J	83	80-120
Selenium	5.00	5.71		114	80-120

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-79547/8-A 03/27/2013 09:36		CCB 240-79547/11-A 03/27/2013 09:47		CCB 240-79547/11-A 03/27/2013 10:05		CCB 240-79547/11-A 03/27/2013 10:23	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-80224/8-A 04/02/2013 12:00		CCB 240-80224/11-A 04/02/2013 13:41		CCB 240-80224/11-A 04/02/2013 13:59		CCB 240-80224/11-A 04/02/2013 14:15	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-80224/11-A 04/02/2013 14:39		CCB 240-80224/11-A 04/02/2013 14:58					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-69084/6 04/12/2013 13:51		CCB1 180-69084/13 04/12/2013 14:50		CCB4 180-69084/49 04/12/2013 19:43		CCB5 180-69084/60 04/12/2013 21:15	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	5.0	U	5.0	U	5.0	U
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.15	U	0.15	U	0.15	U
Beryllium	1.0	0.0490	J	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	20	U	20	U	20	U	20	U
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.050	U	0.050	U
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	20	U	20	U
Lead	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Magnesium	100	22	U	22	U	22	U	22	U
Manganese	5.0	0.30	U	0.30	U	0.211	J	0.30	U
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	32.9	J	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	65.6	J	52.7	J
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.571	J	0.404	J	0.566	J	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB6 180-69084/72 04/12/2013 22:54		CCB7 180-69084/84 04/13/2013 00:33		CCB8 180-69084/96 04/13/2013 02:14		CCB9 180-69084/108 04/13/2013 03:54	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	5.0	U	5.0	U	5.0	U
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.15	U	0.15	U	0.15	U
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	23.3	J	10.7	J	12.0	J	19.3	J
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.050	U	0.050	U
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	20	U	20	U
Lead	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Magnesium	100	22	U	22	U	22	U	16.2	J
Manganese	5.0	0.370	J	0.30	U	0.278	J	0.520	J
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	53.7	J	48.3	J	28.1	J	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB10 180-69084/114 04/13/2013 04:43							
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U						
Antimony	2.0	0.90	U						
Arsenic	1.0	0.50	U						
Barium	10	0.15	U						
Beryllium	1.0	0.090	U						
Cadmium	1.0	0.30	U						
Calcium	100	19.1	J						
Chromium	2.0	1.0	U						
Cobalt	0.50	0.050	U						
Copper	2.0	0.50	U						
Iron	50	20	U						
Lead	1.0	0.30	U						
Magnesium	100	13.3	J						
Manganese	5.0	0.230	J						
Nickel	1.0	0.35	U						
Potassium	100	60	U						
Selenium	5.0	1.0	U						
Silver	1.0	0.20	U						
Sodium	100	55	U						
Thallium	1.0	0.20	U						
Vanadium	1.0	0.60	U						
Zinc	5.0	2.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-79493/1-A

Instrument Code: H1 Batch No.: 79644

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-79782/1-A

Instrument Code: H1 Batch No.: 80366

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-79941/1-A

Instrument Code: H1 Batch No.: 80366

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-67960/1-A

Instrument Code: M Batch No.: 68949

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.029	U		6020_DoD
7429-90-5	Aluminum	0.817	J		6020_DoD
7440-38-2	Arsenic	0.049	U		6020_DoD
7440-39-3	Barium	0.0193	J	Q	6020_DoD
7440-41-7	Beryllium	0.0097	U		6020_DoD
7440-70-2	Calcium	2.4	U		6020_DoD
7440-43-9	Cadmium	0.029	U		6020_DoD
7440-47-3	Chromium	0.039	U		6020_DoD
7440-48-4	Cobalt	0.0097	U	Q	6020_DoD
7440-50-8	Copper	0.058	U	Q	6020_DoD
7439-89-6	Iron	2.31	J		6020_DoD
7439-95-4	Magnesium	1.9	U		6020_DoD
7439-96-5	Manganese	0.0650	J	Q	6020_DoD
7440-23-5	Sodium	4.9	U		6020_DoD
7440-02-0	Nickel	0.029	U		6020_DoD
7439-92-1	Lead	0.029	U		6020_DoD
7440-36-0	Antimony	0.097	U		6020_DoD
7440-28-0	Thallium	0.019	U		6020_DoD
7440-62-2	Vanadium	0.058	U		6020_DoD
7440-66-6	Zinc	0.19	U	Q	6020_DoD
7440-09-7	Potassium	5.8	U		6020_DoD
7782-49-2	Selenium	0.097	U		6020_DoD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-67996/1-A

Instrument Code: M Batch No.: 69084

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.027	U		6020_DoD
7429-90-5	Aluminum	2.05	J		6020_DoD
7440-38-2	Arsenic	0.045	U		6020_DoD
7440-39-3	Barium	0.0175	J	Q	6020_DoD
7440-41-7	Beryllium	0.0091	U		6020_DoD
7440-70-2	Calcium	1.52	J		6020_DoD
7440-43-9	Cadmium	0.027	U		6020_DoD
7440-47-3	Chromium	0.036	U		6020_DoD
7440-48-4	Cobalt	0.0091	U	Q	6020_DoD
7440-50-8	Copper	0.0776	J	Q	6020_DoD
7439-89-6	Iron	5.12			6020_DoD
7439-95-4	Magnesium	1.8	U		6020_DoD
7439-96-5	Manganese	0.0741	J		6020_DoD
7440-23-5	Sodium	3.44	J		6020_DoD
7440-02-0	Nickel	0.027	U		6020_DoD
7439-92-1	Lead	0.027	U		6020_DoD
7440-36-0	Antimony	0.091	U		6020_DoD
7440-28-0	Thallium	0.018	U		6020_DoD
7440-62-2	Vanadium	0.055	U		6020_DoD
7440-66-6	Zinc	0.18	U		6020_DoD
7440-09-7	Potassium	5.5	U		6020_DoD
7782-49-2	Selenium	0.091	U		6020_DoD

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICSA 180-69084/10 Instrument ID: M

Lab File ID: M30412A.xml ICS Source: MICSAX_00029

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100000**	**104600**	**105**
Antimony		**0.268**	
Arsenic		**0.281**	
Barium		**0.223**	
Beryllium		**0.0290**	
Cadmium		**0.263**	
Calcium	**100000**	**104000**	**104**
Chromium		**0.0730**	
Cobalt		**0.0840**	
Copper		**1.58**	
Iron	**100000**	**102600**	**103**
Lead		**0.175**	
Magnesium	**100000**	**102500**	**103**
Manganese		**0.0650**	
Nickel		**-0.0420**	
Potassium	**100000**	**103000**	**103**
Selenium		**0.340**	
Silver		**0.0320**	
Sodium	**100000**	**103900**	**104**
Thallium		**-0.0020**	
Vanadium		**-0.417**	
Zinc		**1.90**	
Boron		*1.03*	
Molybdenum	*2000*	*2099*	*105*
Silicon		*-36.0*	
Strontium		*4.60*	
Tin		*0.0560*	
Titanium	*2000*	*2187*	*109*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Lab Sample ID: ICSAB 180-69084/11 Instrument ID: M

Lab File ID: M30412A.xml ICS Source: MICSABX_00033

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**100000**	**107600**	**108**
Antimony	**20.0**	**21.5**	**108**
Arsenic	**20.0**	**22.8**	**114**
Barium	**20.0**	**21.8**	**109**
Beryllium	**20.0**	**20.5**	**103**
Cadmium	**20.0**	**22.2**	**111**
Calcium	**100000**	**107267**	**107**
Chromium	**20.0**	**21.4**	**107**
Cobalt	**20.0**	**21.5**	**107**
Copper	**20.0**	**22.5**	**112**
Iron	**100000**	**106033**	**106**
Lead	**20.0**	**21.8**	**109**
Magnesium	**100000**	**105533**	**106**
Manganese	**22.5**	**22.3**	**99**
Nickel	**20.0**	**21.0**	**105**
Potassium	**100000**	**105433**	**105**
Selenium	**50.0**	**55.0**	**110**
Silver	**20.0**	**21.1**	**106**
Sodium	**100000**	**107533**	**108**
Thallium	**20.0**	**21.2**	**106**
Vanadium	**20.0**	**21.2**	**106**
Zinc	**25.0**	**24.8**	**99**
Boron	*50.0*	*48.9*	*98*
Molybdenum	*2000*	*2181*	*109*
Silicon	*500*	*449*	*90*
Strontium	*25.0*	*26.1*	*104*
Tin	*100*	*106*	*106*
Titanium	*2000*	*2248*	*112*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SD-0305-0001-0002-SD MS
Lab ID: 240-22274-3 MS
Lab Name: TestAmerica Canton
Job No.: 240-22274-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 51.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.413		0.046	J	0.322	114	80-120		7471/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0264M-0001-SO MS Lab ID: 240-22274-22 MS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.189		0.019	J	0.179	95	80-120		7471/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SD-0305-0001-0002-SD MS
Lab ID: 240-22274-3 MS
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 51.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	7.53		0.080	J	8.34	89	75-125		6020/DOD
Aluminum	19300		12000		334	2210	70-130	4	6020/DOD
Arsenic	219		240		6.67	-346	23-131	4	6020/DOD
Barium	387		71		334	95	10-199	Q	6020/DOD
Beryllium	8.82		0.65		8.34	98	58-112		6020/DOD
Calcium	10500		2400		8340	98	70-130		6020/DOD
Cadmium	8.02		0.35		8.34	92	58-110		6020/DOD
Chromium	64.0		28		33.4	108	10-199		6020/DOD
Cobalt	82.4		8.6		83.4	88	55-110	Q	6020/DOD
Copper	55.7		21		41.7	83	10-199	Q	6020/DOD
Iron	19600		21000		167	-871	70-130	4	6020/DOD
Magnesium	11000		2800		8340	99	70-130		6020/DOD
Manganese	764		710		83.4	58	10-199	4 Q	6020/DOD
Sodium	8180		67		8340	97	70-130		6020/DOD
Nickel	101		29		83.4	87	10-176		6020/DOD
Lead	47.6		51		3.34	-112	10-199	4	6020/DOD
Antimony	41.3		0.14	J	83.4	49	75-125	J	6020/DOD
Thallium	7.63		0.17		8.34	89	82-110		6020/DOD
Vanadium	112		27		83.4	102	39-129		6020/DOD
Zinc	158		80		83.4	93	10-199	Q	6020/DOD
Potassium	10500		1500		8340	107	70-130		6020/DOD
Selenium	2.04		0.61	J	1.67	86	39-116		6020/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0264M-0001-SO MS
Lab ID: 240-22274-22 MS
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22274-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.87		0.026	J	4.95	98	75-125		6020/DOD
Aluminum	19100		12000		198	3546	70-130	4	6020/DOD
Arsenic	27.0		23		3.96	95	23-131	4	6020/DOD
Barium	291		94		198	99	10-199	Q	6020/DOD
Beryllium	6.00		0.70		4.95	107	58-112		6020/DOD
Calcium	5170		490		4950	94	70-130		6020/DOD
Cadmium	5.18		0.16		4.95	101	58-110		6020/DOD
Chromium	40.0		16		19.8	120	10-199		6020/DOD
Cobalt	60.1		12		49.5	97	55-110	Q	6020/DOD
Copper	47.1		22		24.8	100	10-199	Q	6020/DOD
Iron	27800		26000		99.0	2192	70-130	4	6020/DOD
Magnesium	8900		3200		4950	114	70-130		6020/DOD
Manganese	1820		1700		49.5	252	10-199	4	6020/DOD
Sodium	6300		1200		4950	103	70-130		6020/DOD
Nickel	75.8		28		49.5	96	10-176		6020/DOD
Lead	61.2		58		1.98	185	10-199	4	6020/DOD
Antimony	13.6		0.097	U	49.5	27	75-125	J	6020/DOD
Thallium	5.09		0.14		4.95	100	82-110		6020/DOD
Vanadium	73.7		17		49.5	114	39-129		6020/DOD
Zinc	108		61		49.5	94	10-199		6020/DOD
Potassium	7730		1800		4950	120	70-130		6020/DOD
Selenium	1.27		0.39	J	0.990	89	39-116		6020/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SD-0305-0001-0002-SD PDS Lab ID: 240-22274-3 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	8.40		0.080	J	8.27	101	80-120		6020/DOD
Aluminum	11900		12000		331	-0.5	80-120		6020/DOD
Arsenic	243		240		6.62	12	80-120		6020/DOD
Barium	400		71		331	99	80-120	Q	6020/DOD
Beryllium	9.46		0.65		8.27	107	80-120		6020/DOD
Calcium	11000		2400		8270	104	80-120		6020/DOD
Cadmium	8.70		0.35		8.27	101	80-120		6020/DOD
Chromium	59.5		28		33.1	96	80-120		6020/DOD
Cobalt	90.8		8.6		82.7	99	80-120	Q	6020/DOD
Copper	60.8		21		41.3	96	80-120	Q	6020/DOD
Iron	20300		21000		165	-450	80-120		6020/DOD
Magnesium	11200		2800		8270	102	80-120		6020/DOD
Manganese	772		710		82.7	69	80-120	Q	6020/DOD
Sodium	8640		67		8270	104	80-120		6020/DOD
Nickel	109		29		82.7	98	80-120		6020/DOD
Lead	53.0		51		3.31	51	80-120		6020/DOD
Antimony	81.0		0.14	J	82.7	98	80-120		6020/DOD
Thallium	8.31		0.17		8.27	98	80-120		6020/DOD
Vanadium	110		27		82.7	100	80-120		6020/DOD
Zinc	158		80		82.7	93	80-120	Q	6020/DOD
Potassium	9850		1500		8270	100	80-120		6020/DOD
Selenium	2.32		0.61	J	1.65	103	80-120		6020/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0264M-0001-SO PDS Lab ID: 240-22274-22 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.28		0.026	J	4.85	108	80-120		6020/DOD
Aluminum	11900		12000		194	-90	80-120		6020/DOD
Arsenic	26.4		23		3.88	81	80-120		6020/DOD
Barium	288		94		194	100	80-120	Q	6020/DOD
Beryllium	5.96		0.70		4.85	108	80-120		6020/DOD
Calcium	5570		490		4850	105	80-120		6020/DOD
Cadmium	5.35		0.16		4.85	107	80-120		6020/DOD
Chromium	35.4		16		19.4	99	80-120		6020/DOD
Cobalt	61.7		12		48.5	103	80-120	Q	6020/DOD
Copper	46.8		22		24.3	101	80-120	Q	6020/DOD
Iron	24600		26000		97.1	-1030	80-120		6020/DOD
Magnesium	8620		3200		4850	111	80-120		6020/DOD
Manganese	1670		1700		48.5	-52	80-120		6020/DOD
Sodium	6560		1200		4850	111	80-120		6020/DOD
Nickel	77.0		28		48.5	100	80-120		6020/DOD
Lead	57.9		58		1.94	19	80-120		6020/DOD
Antimony	50.6		0.097	U	48.5	104	80-120		6020/DOD
Thallium	5.41		0.14		4.85	109	80-120		6020/DOD
Vanadium	66.7		17		48.5	102	80-120		6020/DOD
Zinc	108		61		48.5	95	80-120		6020/DOD
Potassium	6920		1800		4850	105	80-120		6020/DOD
Selenium	1.30		0.39	J	0.971	93	80-120		6020/DOD

SSR = Spiked Sample Result

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

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 079SD-0305-0001-0002-SD DU Lab ID: 240-22274-3 DU

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

% Solids for Sample: 52.5 % Solids for Duplicate: 52.5

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.19	0.046	J	0.0502	J	8		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0264M-0001-SO DU Lab ID: 240-22274-22 DU

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.11	0.019	J	0.0176	J	8		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SD-0305-0001-0002-SD DU Lab ID: 240-22274-3 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

% Solids for Sample: 52.5 % Solids for Duplicate: 52.5

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.16	0.080	J	0.0739	J	8		6020/DOD
Aluminum	4.7	12000		12300		3		6020/DOD
Arsenic	0.16	240		242		0.2		6020/DOD
Barium	1.6	71		71.9		2	Q	6020/DOD
Beryllium	0.16	0.65		0.649		0.02		6020/DOD
Calcium	16	2400		2350		0.4		6020/DOD
Cadmium	0.16	0.35		0.337		3		6020/DOD
Chromium	0.31	28		25.3		9		6020/DOD
Cobalt	0.079	8.6		8.74		1	Q	6020/DOD
Copper	0.31	21		18.8		12	Q	6020/DOD
Iron	7.9	21000		20900		0.6		6020/DOD
Magnesium	16	2800		2630		4		6020/DOD
Manganese	0.79	710		773		8	Q	6020/DOD
Sodium	16	67		61.8		8		6020/DOD
Nickel	0.16	29		25.9		10		6020/DOD
Lead	0.16	51		43.9		16		6020/DOD
Antimony	0.31	0.14	J	0.130	J	9		6020/DOD
Thallium	0.16	0.17		0.171		2		6020/DOD
Vanadium	0.16	27		27.2		0.7		6020/DOD
Zinc	0.79	80		77.7		3	Q	6020/DOD
Potassium	16	1500		1590		2		6020/DOD
Selenium	0.79	0.61	J	0.464	J	27	Q	6020/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0264M-0001-SO DU Lab ID: 240-22274-22 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.099	0.026	J	0.0269	J	2		6020/DOD
Aluminum	3.0	12000		12200		1		6020/DOD
Arsenic	0.099	23		23.5		1		6020/DOD
Barium	0.99	94		91.6		3	Q	6020/DOD
Beryllium	0.099	0.70		0.753		7		6020/DOD
Calcium	9.9	490		1170		82	J	6020/DOD
Cadmium	0.099	0.16		0.142		13		6020/DOD
Chromium	0.20	16		16.4		1		6020/DOD
Cobalt	0.050	12		11.8		0.8	Q	6020/DOD
Copper	0.20	22		22.4		0.9	Q	6020/DOD
Iron	5.0	26000		26300		3		6020/DOD
Magnesium	9.9	3200		3270		1		6020/DOD
Manganese	0.50	1700		1640		4		6020/DOD
Sodium	9.9	1200		1210		1		6020/DOD
Nickel	0.099	28		28.2		0.3		6020/DOD
Lead	0.099	58		50.9		12		6020/DOD
Antimony	0.20	0.097	U	0.099	U	NC		6020/DOD
Thallium	0.099	0.14		0.132		3		6020/DOD
Vanadium	0.099	17		17.6		0.6		6020/DOD
Zinc	0.50	61		61.0		0.6		6020/DOD
Potassium	9.9	1800		1820		1		6020/DOD
Selenium	0.50	0.39	J	0.420	J	8		6020/DOD

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-79493/2-A

Lab Name: TestAmerica Canton Job No.: 240-22274-1

Sample Matrix: Solid LCS Source: MTHGCALW_00338

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.888		107	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-79782/2-A

Lab Name: TestAmerica Canton Job No.: 240-22274-1

Sample Matrix: Solid LCS Source: MTHGCALW_00341

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.821		99	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-79941/2-A

Lab Name: TestAmerica Canton Job No.: 240-22274-1

Sample Matrix: Solid LCS Source: MTHGCALW_00342

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.822		99	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-67960/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.46	4.07		91	60	114		6020/DOD
Aluminum	179	181		101	80	120		6020/DOD
Arsenic	3.57	3.12		87	73	110		6020/DOD
Barium	179	168		94	70	110	Q	6020/DOD
Beryllium	4.46	4.36		98	79	110		6020/DOD
Calcium	4460	4380		98	80	120		6020/DOD
Cadmium	4.46	4.18		94	74	110		6020/DOD
Chromium	17.9	16.8		94	70	110		6020/DOD
Cobalt	44.6	41.9		94	74	110	Q	6020/DOD
Copper	22.3	21.8		98	73	110	Q	6020/DOD
Iron	89.3	93.0		104	80	120		6020/DOD
Magnesium	4460	4300		96	80	120		6020/DOD
Manganese	44.6	39.7		89	80	120	Q	6020/DOD
Sodium	4460	4280		96	80	120		6020/DOD
Nickel	44.6	42.1		94	75	110		6020/DOD
Lead	1.79	1.64		92	75	110		6020/DOD
Antimony	44.6	41.5		93	68	113		6020/DOD
Thallium	4.46	4.01		90	71	110		6020/DOD
Vanadium	44.6	42.9		96	72	110		6020/DOD
Zinc	44.6	41.5		93	72	113	Q	6020/DOD
Potassium	4460	4350		97	80	120		6020/DOD
Selenium	0.893	0.994		111	65	110	Q	6020/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-67996/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.85	4.44		91	60	114		6020/DOD
Aluminum	194	193		99	80	120		6020/DOD
Arsenic	3.88	3.60		93	73	110		6020/DOD
Barium	194	184		95	70	110	Q	6020/DOD
Beryllium	4.85	4.58		94	79	110		6020/DOD
Calcium	4850	4710		97	80	120		6020/DOD
Cadmium	4.85	4.73		97	74	110		6020/DOD
Chromium	19.4	18.7		96	70	110		6020/DOD
Cobalt	48.5	47.0		97	74	110	Q	6020/DOD
Copper	24.3	23.9		98	73	110	Q	6020/DOD
Iron	97.1	94.9		98	80	120		6020/DOD
Magnesium	4850	4800		99	80	120		6020/DOD
Manganese	48.5	46.7		96	80	120		6020/DOD
Sodium	4850	4720		97	80	120		6020/DOD
Nickel	48.5	46.9		97	75	110		6020/DOD
Lead	1.94	1.91		98	75	110		6020/DOD
Antimony	48.5	45.0		93	68	113		6020/DOD
Thallium	4.85	4.71		97	71	110		6020/DOD
Vanadium	48.5	47.2		97	72	110		6020/DOD
Zinc	48.5	45.2		93	72	113		6020/DOD
Potassium	4850	4790		99	80	120		6020/DOD
Selenium	0.971	0.981		101	65	110		6020/DOD

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-22274-3

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22274-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.080	J	0.25	U	NC		6020/DOD
Aluminum	12000		12100		1.4	D	6020/DOD
Arsenic	240		240		1.0	D	6020/DOD
Barium	71		71.4		1.1	D Q	6020/DOD
Beryllium	0.65		0.613	J	5.7	D	6020/DOD
Calcium	2400		2410		2.1	D	6020/DOD
Cadmium	0.35		0.306	J	NC	D	6020/DOD
Chromium	28		28.2		1.3	D	6020/DOD
Cobalt	8.6		8.60		0.08	D Q	6020/DOD
Copper	21		21.5		1.8	D Q	6020/DOD
Iron	21000		21300		1.3	D	6020/DOD
Magnesium	2800		2510		8.7	D	6020/DOD
Manganese	710		726		1.5	D Q	6020/DOD
Sodium	67		72.3	J	NC	D	6020/DOD
Nickel	29		29.0		1.4	D	6020/DOD
Lead	51		51.5		0.29	D	6020/DOD
Antimony	0.14	J	0.83	U	NC		6020/DOD
Thallium	0.17		0.162	J	NC	D	6020/DOD
Vanadium	27		27.0		0.06	D	6020/DOD
Zinc	80		81.6		1.4	D Q	6020/DOD
Potassium	1500		1630		5.5	D	6020/DOD
Selenium	0.61	J	0.83	U	NC		6020/DOD

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-22274-22

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22274-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.026	J	0.15	U	NC		6020/DOD
Aluminum	12000		12200		1.0	D	6020/DOD
Arsenic	23		21.4		8.0	D	6020/DOD
Barium	94		99.0		5.1	D Q	6020/DOD
Beryllium	0.70		0.709		1.4	D	6020/DOD
Calcium	490		520		6.1	D	6020/DOD
Cadmium	0.16		0.157	J	NC	D	6020/DOD
Chromium	16		16.5		2.3	D	6020/DOD
Cobalt	12		11.8		0.70	D Q	6020/DOD
Copper	22		21.4		3.8	D Q	6020/DOD
Iron	26000		25900		1.2	D	6020/DOD
Magnesium	3200		3180		1.7	D	6020/DOD
Manganese	1700		1720		1.0	D	6020/DOD
Sodium	1200		1160		2.9	D	6020/DOD
Nickel	28		27.9		1.3	D	6020/DOD
Lead	58		57.8		0.37	D	6020/DOD
Antimony	0.097	U	0.49	U	NC		6020/DOD
Thallium	0.14		0.127	J	NC	D	6020/DOD
Vanadium	17		17.6		0.86	D	6020/DOD
Zinc	61		58.0		5.4	D	6020/DOD
Potassium	1800		1750		2.8	D	6020/DOD
Selenium	0.39	J	0.49	U	NC		6020/DOD

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Leach Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD DL Date: 01/26/2010 16:34

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Aluminum	27	3	0.2849
Antimony	121	0.2	0.0459
Arsenic	75	0.1	0.0181
Barium	137	1	0.0107
Beryllium	9	0.1	0.0075
Cadmium	111	0.1	0.0132
Calcium	44	10	1.326
Chromium	52	0.2	0.0223
Cobalt	59	0.05	0.0024
Copper	65	0.2	0.033
Iron	56	5	1.077
Lead	208	0.1	0.0154
Magnesium	26	10	1.079
Manganese	55	0.5	0.0159
Nickel	60	0.1	0.0113
Potassium	39	10	3.155
Selenium	82	0.5	0.0509
Silver	107	0.1	0.0114
Sodium	23	10	2.658
Thallium	205	0.1	0.0102
Vanadium	51	0.1	0.0299
Zinc	66	0.5	0.0648

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD XMDL Date: 01/26/2010 16:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27	30	2.5662
Antimony	121	2	0.459
Arsenic	75	1	0.2908
Barium	137	10	0.098
Beryllium	9	1	0.0451
Cadmium	111	1	0.132
Calcium	44	100	9.357
Chromium	52	2	0.5433
Cobalt	59	0.5	0.0263
Copper	65	2	0.2443
Iron	56	50	10.77
Lead	208	1	0.154
Magnesium	26	100	10.8
Manganese	55	5	0.159
Nickel	60	1	0.1749
Potassium	39	100	31.6
Selenium	82	5	0.509
Silver	107	1	0.114
Sodium	23	100	26.8
Thallium	205	1	0.102
Vanadium	51	1	0.299
Zinc	66	5	0.9609

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-22274-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7471/DOD

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 240-22274-1

SDG No.:

Instrument ID: M Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2500	6020/DOD
Aluminum		450000	6020/DOD
Arsenic		4500	6020/DOD
Barium		13500	6020/DOD
Beryllium		9000	6020/DOD
Calcium		1500000	6020/DOD
Cadmium		13500	6020/DOD
Chromium		13500	6020/DOD
Cobalt		13500	6020/DOD
Copper		20000	6020/DOD
Iron		450000	6020/DOD
Magnesium		1500000	6020/DOD
Manganese		25000	6020/DOD
Sodium		450000	6020/DOD
Nickel		13500	6020/DOD
Lead		20000	6020/DOD
Antimony		13500	6020/DOD
Thallium		13500	6020/DOD
Vanadium		13500	6020/DOD
Zinc		25000	6020/DOD
Potassium		450000	6020/DOD
Selenium		4500	6020/DOD

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-79493/1-A	03/26/2013 14:25	79493	0.60		100
LCS 240-79493/2-A	03/26/2013 14:25	79493	0.60		100
240-22274-3	03/26/2013 14:25	79493	0.60		100
240-22274-3 DU	03/26/2013 14:25	79493	0.60		100
240-22274-3 MS	03/26/2013 14:25	79493	0.60		100
240-22274-2	03/26/2013 14:25	79493	0.56		100
240-22274-4	03/26/2013 14:25	79493	0.55		100
240-22274-5	03/26/2013 14:25	79493	0.53		100
240-22274-6	03/26/2013 14:25	79493	0.51		100
240-22274-14	03/26/2013 14:25	79493	0.56		100
240-22274-15	03/26/2013 14:25	79493	0.56		100
240-22274-23	03/26/2013 14:25	79493	0.51		100
240-22274-24	03/26/2013 14:25	79493	0.54		100
240-22274-32	03/26/2013 14:25	79493	0.56		100
240-22274-33	03/26/2013 14:25	79493	0.53		100

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PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-79782/1-A	03/28/2013 15:10	79782	0.60		100
LCS 240-79782/2-A	03/28/2013 15:10	79782	0.60		100
240-22274-7	03/28/2013 15:10	79782	0.54		100
240-22274-8	03/28/2013 15:10	79782	0.57		100
240-22274-9	03/28/2013 15:10	79782	0.66		100
240-22274-10	03/28/2013 15:10	79782	0.53		100
240-22274-11	03/28/2013 15:10	79782	0.52		100
240-22274-12	03/28/2013 15:10	79782	0.59		100
240-22274-13	03/28/2013 15:10	79782	0.64		100
240-22274-16	03/28/2013 15:10	79782	0.70		100
240-22274-17	03/28/2013 15:10	79782	0.53		100
240-22274-18	03/28/2013 15:10	79782	0.55		100
240-22274-19	03/28/2013 15:10	79782	0.58		100
240-22274-20	03/28/2013 15:10	79782	0.55		100
240-22274-21	03/28/2013 15:10	79782	0.57		100

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PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-79941/1-A	03/29/2013 14:30	79941	0.60		100
LCS 240-79941/2-A	03/29/2013 14:30	79941	0.60		100
240-22274-22	03/29/2013 14:30	79941	0.56		100
240-22274-22 DU	03/29/2013 14:30	79941	0.56		100
240-22274-22 MS	03/29/2013 14:30	79941	0.56		100
240-22274-25	03/29/2013 14:30	79941	0.56		100
240-22274-26	03/29/2013 14:30	79941	0.59		100
240-22274-27	03/29/2013 14:30	79941	0.54		100
240-22274-28	03/29/2013 14:30	79941	0.56		100
240-22274-29	03/29/2013 14:30	79941	0.52		100
240-22274-30	03/29/2013 14:30	79941	0.55		100
240-22274-31	03/29/2013 14:30	79941	0.54		100
240-22274-34	03/29/2013 14:30	79941	0.56		100
240-22274-35	03/29/2013 14:30	79941	0.57		100

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PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-67960/1-A	04/02/2013 08:05	67960	00001.03		100
LCS 180-67960/2-A	04/02/2013 08:05	67960	00001.12		100
240-22274-2	04/02/2013 08:05	67960	00001.01		100
240-22274-3	04/02/2013 08:05	67960	00001.17		100
240-22274-3 DU	04/02/2013 08:05	67960	00001.21		100
240-22274-3 MS	04/02/2013 08:05	67960	00001.16		100
240-22274-4	04/02/2013 08:05	67960	00001.06		100
240-22274-5	04/02/2013 08:05	67960	00001.11		100
240-22274-6	04/02/2013 08:05	67960	00001.09		100
240-22274-7	04/02/2013 08:05	67960	00001.19		100
240-22274-8	04/02/2013 08:05	67960	00001.08		100
240-22274-9	04/02/2013 08:05	67960	00001.09		100
240-22274-10	04/02/2013 08:05	67960	00001.10		100
240-22274-11	04/02/2013 08:05	67960	00001.11		100
240-22274-12	04/02/2013 08:05	67960	00001.06		100
240-22274-13	04/02/2013 08:05	67960	00001.13		100
240-22274-14	04/02/2013 08:05	67960	00001.11		100
240-22274-15	04/02/2013 08:05	67960	00001.07		100
240-22274-16	04/02/2013 08:05	67960	00001.13		100
240-22274-17	04/02/2013 08:05	67960	00001.12		100
240-22274-18	04/02/2013 08:05	67960	00001.06		100
240-22274-19	04/02/2013 08:05	67960	00001.15		100
240-22274-20	04/02/2013 08:05	67960	00001.06		100
240-22274-21	04/02/2013 08:05	67960	00001.10		100

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PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-67996/1-A	04/02/2013 11:06	67996	00001.10		100
LCS 180-67996/2-A	04/02/2013 11:06	67996	00001.03		100
240-22274-22	04/02/2013 11:06	67996	00001.03		100
240-22274-22 DU	04/02/2013 11:06	67996	00001.01		100
240-22274-22 MS	04/02/2013 11:06	67996	00001.01		100
240-22274-23	04/02/2013 11:06	67996	00001.03		100
240-22274-24	04/02/2013 11:06	67996	00001.01		100
240-22274-25	04/02/2013 11:06	67996	00001.00		100
240-22274-26	04/02/2013 11:06	67996	00001.00		100
240-22274-27	04/02/2013 11:06	67996	00001.03		100
240-22274-28	04/02/2013 11:06	67996	00001.03		100
240-22274-29	04/02/2013 11:06	67996	00001.01		100
240-22274-30	04/02/2013 11:06	67996	00001.00		100
240-22274-31	04/02/2013 11:06	67996	00001.01		100
240-22274-32	04/02/2013 11:06	67996	00001.01		100
240-22274-33	04/02/2013 11:06	67996	00001.03		100
240-22274-34	04/02/2013 11:06	67996	00001.00		100
240-22274-35	04/02/2013 11:06	67996	00001.02		100

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D/F	Type	Time	Analytes																				
				Hg																				
STD01REP1 240-79644/1 IC			09:09	X																				
STD02REP1 240-79644/2 IC			09:10	X																				
STD03REP1 240-79644/3 IC			09:12	X																				
STD04REP1 240-79644/4 IC			09:14	X																				
STD05REP1 240-79644/5 IC			09:15	X																				
STD06REP1 240-79644/6 IC			09:17	X																				
ZZZZZZ			09:21																					
IC 240-79547/1-A			09:24	X																				
IC 240-79547/2-A			09:26	X																				
IC 240-79547/3-A			09:28	X																				
IC 240-79547/4-A			09:29	X																				
IC 240-79547/5-A			09:31	X																				
IC 240-79547/6-A			09:33	X																				
ICV 240-79547/7-A	1		09:34	X																				
ICB 240-79547/8-A	1		09:36	X																				
CRA 240-79547/9-A			09:37																					
CRA 240-79547/9-A	1		09:41	X																				
CCV 240-79547/10-A	1		09:45	X																				
CCB 240-79547/11-A	1		09:47	X																				
MB 240-79493/1-A	1	T	09:48	X																				
LCS 240-79493/2-A	1	T	09:50	X																				
240-22274-3	1	T	09:51	X																				
240-22274-3 DU	1	T	09:53	X																				
240-22274-3 MS	1	T	09:54	X																				
240-22274-2	1	T	09:56	X																				
240-22274-4	1	T	09:57	X																				
240-22274-5	1	T	09:58	X																				
240-22274-6	1	T	10:00	X																				
240-22274-14	1	T	10:01	X																				
CCV 240-79547/10-A	1		10:03	X																				
CCB 240-79547/11-A	1		10:05	X																				
240-22274-15	1	T	10:06	X																				
240-22274-23	1	T	10:07	X																				
240-22274-24	1	T	10:09	X																				
240-22274-32	1	T	10:10	X																				
240-22274-33	1	T	10:12	X																				
ZZZZZZ			10:13																					
ZZZZZZ			10:15																					
ZZZZZZ			10:16																					

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			10:18																					
ZZZZZZ			10:20																					
CCV 240-79547/10-A	1		10:21	X																				
CCB 240-79547/11-A	1		10:23	X																				
ZZZZZZ			10:24																					
ZZZZZZ			10:26																					
ZZZZZZ			10:27																					
ZZZZZZ			10:28																					
CRA 240-79547/9-A	1		10:30	X																				
ZZZZZZ			10:31																					
ZZZZZZ			10:33																					
ZZZZZZ			10:34																					
ZZZZZZ			10:36																					
ZZZZZZ			10:37																					
CCV 240-79547/10-A			10:38																					
CCB 240-79547/11-A			10:41																					
ZZZZZZ			10:43																					
ZZZZZZ			10:44																					
ZZZZZZ			10:45																					
ZZZZZZ			10:47																					
ZZZZZZ			10:48																					
ZZZZZZ			10:50																					
ZZZZZZ			10:51																					
ZZZZZZ			10:53																					
ZZZZZZ			10:54																					
ZZZZZZ			10:56																					
CCV 240-79547/10-A			10:57																					
CCB 240-79547/11-A			10:58																					
ZZZZZZ			11:00																					
ZZZZZZ			11:01																					
ZZZZZZ			11:03																					
ZZZZZZ			11:05																					
ZZZZZZ			11:07																					
ZZZZZZ			11:08																					
ZZZZZZ			11:10																					
ZZZZZZ			11:11																					
ZZZZZZ			11:13																					
ZZZZZZ			11:15																					
CCV 240-79547/10-A			11:16																					
CCB 240-79547/11-A			11:18																					
ZZZZZZ			11:19																					
ZZZZZZ			11:21																					

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			11:23																				
ZZZZZZ			11:24																				
ZZZZZZ			11:25																				
ZZZZZZ			11:27																				
ZZZZZZ			11:29																				
ZZZZZZ			11:30																				
ZZZZZZ			11:31																				
ZZZZZZ			11:32																				
CCV 240-79547/10-A			11:34																				
CCB 240-79547/11-A			11:35																				
ZZZZZZ			11:37																				
ZZZZZZ			11:38																				
ZZZZZZ			11:40																				
ZZZZZZ			11:41																				
ZZZZZZ			11:43																				
CCV 240-79547/10-A			11:45																				
CCB 240-79547/11-A			11:46																				
CCV 240-79547/10-A			17:04																				
CCB 240-79547/11-A			17:05																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
ZZZZZZ			17:13																				
ZZZZZZ			17:15																				
ZZZZZZ			17:16																				
ZZZZZZ			17:18																				
ZZZZZZ			17:19																				
CCV 240-79547/10-A			17:21																				
CCB 240-79547/11-A			17:22																				
ZZZZZZ			17:23																				
ZZZZZZ			17:25																				
ZZZZZZ			17:27																				
ZZZZZZ			17:28																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:33																				
ZZZZZZ			17:34																				
ZZZZZZ			17:36																				
ZZZZZZ			17:37																				
CCV 240-79547/10-A			17:38																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 240-79547/11-A			17:40																				
ZZZZZZ			17:41																				
ZZZZZZ			17:43																				
ZZZZZZ			17:44																				
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:49																				
ZZZZZZ			17:51																				
ZZZZZZ			17:52																				
ZZZZZZ			17:54																				
ZZZZZZ			17:56																				
CCV 240-79547/10-A			17:57																				
CCB 240-79547/11-A			17:59																				
ZZZZZZ			18:00																				
ZZZZZZ			18:01																				
ZZZZZZ			18:03																				
ZZZZZZ			18:04																				
ZZZZZZ			18:05																				
ZZZZZZ			18:07																				
ZZZZZZ			18:08																				
ZZZZZZ			18:09																				
ZZZZZZ			18:11																				
ZZZZZZ			18:12																				
CCV 240-79547/10-A			18:14																				
CCB 240-79547/11-A			18:15																				
ZZZZZZ			18:17																				
ZZZZZZ			18:18																				
ZZZZZZ			18:20																				
ZZZZZZ			18:21																				
ZZZZZZ			18:23																				
ZZZZZZ			18:24																				
ZZZZZZ			18:26																				
ZZZZZZ			18:27																				
CCV 240-79547/10-A			18:29																				
CCB 240-79547/11-A			18:30																				
CCV 240-79547/10-A			12:09																				
CCB 240-79547/11-A			12:10																				
CRA 240-79547/9-A			12:12																				

Prep Types
T = Total/NA

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 240-80224/1-A			11:51	X																			
IC 240-80224/2-A			11:52	X																			
IC 240-80224/3-A			11:53	X																			
IC 240-80224/4-A			11:54	X																			
IC 240-80224/5-A			11:56	X																			
IC 240-80224/6-A			11:57	X																			
ICV 240-80224/7-A	1		11:59	X																			
ICB 240-80224/8-A	1		12:00	X																			
CRA 240-80224/9-A	1		12:02	X																			
CCV 240-80224/10-A			12:04																				
CCB 240-80224/11-A			12:06																				
ZZZZZZ			12:08																				
ZZZZZZ			12:09																				
ZZZZZZ			12:10																				
ZZZZZZ			12:12																				
ZZZZZZ			12:13																				
ZZZZZZ			12:15																				
ZZZZZZ			12:16																				
ZZZZZZ			12:17																				
ZZZZZZ			12:19																				
ZZZZZZ			12:20																				
CCV 240-80224/10-A			12:22																				
CCB 240-80224/11-A			12:23																				
ZZZZZZ			12:24																				
ZZZZZZ			12:26																				
ZZZZZZ			12:27																				
ZZZZZZ			12:29																				
ZZZZZZ			12:31																				
ZZZZZZ			12:32																				
ZZZZZZ			12:34																				
ZZZZZZ			12:37																				
ZZZZZZ			12:39																				
ZZZZZZ			12:40																				
CCV 240-80224/10-A			12:41																				
CCB 240-80224/11-A			12:43																				
ZZZZZZ			12:44																				
ZZZZZZ			12:45																				
ZZZZZZ			12:47																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
ZZZZZZ			12:52																				
ZZZZZZ			12:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			12:55																					
ZZZZZZ			12:56																					
ZZZZZZ			12:58																					
CCV 240-80224/10-A			12:59																					
CCB 240-80224/11-A			13:01																					
ZZZZZZ			13:03																					
ZZZZZZ			13:05																					
ZZZZZZ			13:07																					
ZZZZZZ			13:08																					
ZZZZZZ			13:09																					
ZZZZZZ			13:11																					
ZZZZZZ			13:12																					
ZZZZZZ			13:13																					
ZZZZZZ			13:15																					
ZZZZZZ			13:17																					
CCV 240-80224/10-A			13:18																					
CCB 240-80224/11-A			13:19																					
ZZZZZZ			13:21																					
ZZZZZZ			13:22																					
ZZZZZZ			13:23																					
ZZZZZZ			13:25																					
CCV 240-80224/10-A			13:27																					
CCB 240-80224/11-A			13:28																					
ZZZZZZ			13:29																					
ZZZZZZ			13:31																					
ZZZZZZ			13:32																					
ZZZZZZ			13:34																					
ZZZZZZ			13:35																					
ZZZZZZ			13:36																					
ZZZZZZ			13:38																					
CCV 240-80224/10-A	1		13:40	X																				
CCB 240-80224/11-A	1		13:41	X																				
ZZZZZZ			13:43																					
MB 240-79782/1-A	1	T	13:44	X																				
LCS 240-79782/2-A	1	T	13:46	X																				
ZZZZZZ			13:47																					
ZZZZZZ			13:49																					
ZZZZZZ			13:50																					
ZZZZZZ			13:51																					
ZZZZZZ			13:52																					
ZZZZZZ			13:54																					
ZZZZZZ			13:57																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 240-80224/10-A	1		13:58	X																			
CCB 240-80224/11-A	1		13:59	X																			
ZZZZZZ			14:01																				
ZZZZZZ			14:02																				
240-22274-7	1	T	14:03	X																			
240-22274-8	1	T	14:04	X																			
240-22274-9	1	T	14:06	X																			
240-22274-10	1	T	14:07	X																			
240-22274-11	1	T	14:09	X																			
240-22274-12	1	T	14:10	X																			
240-22274-13	1	T	14:11	X																			
240-22274-16	1	T	14:12	X																			
CCV 240-80224/10-A	1		14:14	X																			
CCB 240-80224/11-A	1		14:15	X																			
240-22274-17	1	T	14:16	X																			
240-22274-18	1	T	14:18	X																			
240-22274-19	1	T	14:19	X																			
240-22274-20	1	T	14:20	X																			
240-22274-21	1	T	14:22	X																			
MB 240-79941/1-A	1	T	14:23	X																			
LCS 240-79941/2-A	1	T	14:24	X																			
240-22274-22	1	T	14:27	X																			
240-22274-22 DU	1	T	14:28	X																			
240-22274-22 MS	1	T	14:30	X																			
CCV 240-80224/10-A			14:31																				
CCB 240-80224/11-A			14:33																				
CCV 240-80224/10-A	1		14:38	X																			
CCB 240-80224/11-A	1		14:39	X																			
240-22274-25	1	T	14:41	X																			
240-22274-26	1	T	14:42	X																			
240-22274-27	1	T	14:44	X																			
240-22274-28	1	T	14:45	X																			
240-22274-29	1	T	14:47	X																			
240-22274-30	1	T	14:48	X																			
240-22274-31	1	T	14:49	X																			
240-22274-34	1	T	14:51	X																			
240-22274-35	1	T	14:52	X																			
ZZZZZZ			14:54																				
CCV 240-80224/10-A	1		14:56	X																			
CCB 240-80224/11-A	1		14:58	X																			
ZZZZZZ			15:00																				
ZZZZZZ			15:02																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:03																				
ZZZZZZ			15:04																				
ZZZZZZ			15:07																				
ZZZZZZ			15:08																				
ZZZZZZ			15:09																				
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
ZZZZZZ			15:14																				
CCV 240-80224/10-A			15:16																				
CCB 240-80224/11-A			15:17																				
ZZZZZZ			15:19																				
ZZZZZZ			15:20																				
ZZZZZZ			15:21																				
ZZZZZZ			15:23																				
ZZZZZZ			15:24																				
ZZZZZZ			15:26																				
ZZZZZZ			15:27																				
ZZZZZZ			15:29																				
ZZZZZZ			15:30																				
ZZZZZZ			15:32																				
CCV 240-80224/10-A			15:33																				
CCB 240-80224/11-A			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
ZZZZZZ			15:40																				
ZZZZZZ			15:42																				
ZZZZZZ			15:43																				
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
ZZZZZZ			15:48																				
ZZZZZZ			15:49																				
ZZZZZZ			15:51																				
CCV 240-80224/10-A			15:52																				
CCB 240-80224/11-A			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:58																				
ZZZZZZ			15:59																				
CRA 240-80224/9-A	1		16:00	X																			
CRA 240-80224/9-A			16:02																				
CCV 240-80224/10-A			16:03																				
CCB 240-80224/11-A			16:05																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/10/2013 14:10 End Date: 04/11/2013 13:02

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ITUNE 180-68949/1			14:10																				
STD1 180-68949/2 IC			19:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-68949/3 IC			19:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-68949/4 IC			20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-68949/5	1		20:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-68949/6			20:13																				
CRI 180-68949/7			20:21																				
CCV 180-68949/8			20:29																				
CCV 180-68949/9			20:37																				
ICSA 180-68949/10			20:46																				
ICSAB 180-68949/11			20:54																				
CCV 180-68949/12			21:02																				
CCB1 180-68949/13			21:10																				
ZZZZZZ			21:19																				
ZZZZZZ			21:27																				
ZZZZZZ			21:35																				
ZZZZZZ			21:43																				
ZZZZZZ			21:51																				
ZZZZZZ			22:00																				
ZZZZZZ			22:08																				
ZZZZZZ			22:16																				
ZZZZZZ			22:24																				
ZZZZZZ			22:33																				
CCV 180-68949/24			22:41																				
CCB2 180-68949/25			22:49																				
ZZZZZZ			22:54																				
ZZZZZZ			23:02																				
ZZZZZZ			23:10																				
ZZZZZZ			23:18																				
ZZZZZZ			23:27																				
ZZZZZZ			23:35																				
ZZZZZZ			23:43																				
ZZZZZZ			23:51																				
ZZZZZZ			00:00																				
ZZZZZZ			00:08																				
CCV 180-68949/36			00:16																				
CCB3 180-68949/37			00:24																				
ZZZZZZ			00:33																				
ZZZZZZ			00:41																				
ZZZZZZ			00:49																				
ZZZZZZ			00:57																				
ZZZZZZ			01:06																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/10/2013 14:10 End Date: 04/11/2013 13:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			01:14																				
ZZZZZZ			01:22																				
ZZZZZZ			01:30																				
ZZZZZZ			01:38																				
ZZZZZZ			01:47																				
CCV 180-68949/48			01:55																				
CCB4 180-68949/49			02:03																				
ZZZZZZ			02:12																				
ZZZZZZ			02:20																				
ZZZZZZ			02:28																				
ZZZZZZ			02:36																				
ZZZZZZ			02:45																				
ZZZZZZ			02:53																				
ZZZZZZ			03:01																				
ZZZZZZ			03:09																				
ZZZZZZ			03:18																				
ZZZZZZ			03:26																				
CCV 180-68949/60	1		03:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB5 180-68949/61	1		03:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			03:52																				
ZZZZZZ			04:00																				
ZZZZZZ			04:09																				
MB 180-67960/1-A	1	T	04:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-67960/2-A	1	T	04:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-3	1	T	04:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-3 SD	5	T	04:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-3 DU	1	T	04:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-3 MS	1	T	04:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-3 PDS	1	T	05:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-68949/72	1		05:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB6 180-68949/73	1		05:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-68949/74			05:31																				
CRI 180-68949/75			05:39																				
CCV 180-68949/76			05:47																				
CCB7 180-68949/77			05:55																				
ZZZZZZ			06:04																				
ZZZZZZ			06:12																				
ZZZZZZ			06:20																				
ZZZZZZ			06:28																				
ZZZZZZ			06:37																				
ZZZZZZ			06:45																				
ZZZZZZ			06:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/10/2013 14:10 End Date: 04/11/2013 13:02

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			07:01																					
ZZZZZZ			07:09																					
ZZZZZZ			07:18																					
CCV 180-68949/88			07:26																					
CCB7 180-68949/89			07:34																					
ZZZZZZ			07:42																					
ZZZZZZ			07:50																					
ZZZZZZ			07:59																					
ZZZZZZ			08:07																					
ZZZZZZ			08:15																					
ZZZZZZ			08:23																					
ZZZZZZ			08:32																					
ZZZZZZ			08:40																					
ZZZZZZ			08:48																					
ZZZZZZ			08:56																					
CCV 180-68949/100			09:05																					
CCB8 180-68949/101			09:13																					
ZZZZZZ			09:21																					
ZZZZZZ			09:29																					
ZZZZZZ			09:38																					
ZZZZZZ			09:46																					
ZZZZZZ			11:59																					
ZZZZZZ			12:08																					
ZZZZZZ			12:17																					
ZZZZZZ			12:27																					
ZZZZZZ			12:37																					
ZZZZZZ			12:45																					
CCV 180-68949/112			12:53																					
CCB9 180-68949/113			13:02																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/10/2013 14:10 End Date: 04/11/2013 13:02

Lab Sample ID	D / F	Type	Time	Analytes																				
				V	Zn																			
ITUNE 180-68949/1			14:10																					
STD1 180-68949/2 IC			19:50	X	X																			
STD2 180-68949/3 IC			19:55	X	X																			
STD3 180-68949/4 IC			20:00	X	X																			
ICV 180-68949/5	1		20:05	X	X																			
ICB 180-68949/6			20:13																					
CRI 180-68949/7			20:21																					
CCV 180-68949/8			20:29																					
CCV 180-68949/9			20:37																					
ICSA 180-68949/10			20:46																					
ICSAB 180-68949/11			20:54																					
CCV 180-68949/12			21:02																					
CCB1 180-68949/13			21:10																					
ZZZZZZ			21:19																					
ZZZZZZ			21:27																					
ZZZZZZ			21:35																					
ZZZZZZ			21:43																					
ZZZZZZ			21:51																					
ZZZZZZ			22:00																					
ZZZZZZ			22:08																					
ZZZZZZ			22:16																					
ZZZZZZ			22:24																					
ZZZZZZ			22:33																					
CCV 180-68949/24			22:41																					
CCB2 180-68949/25			22:49																					
ZZZZZZ			22:54																					
ZZZZZZ			23:02																					
ZZZZZZ			23:10																					
ZZZZZZ			23:18																					
ZZZZZZ			23:27																					
ZZZZZZ			23:35																					
ZZZZZZ			23:43																					
ZZZZZZ			23:51																					
ZZZZZZ			00:00																					
ZZZZZZ			00:08																					
CCV 180-68949/36			00:16																					
CCB3 180-68949/37			00:24																					
ZZZZZZ			00:33																					
ZZZZZZ			00:41																					
ZZZZZZ			00:49																					
ZZZZZZ			00:57																					
ZZZZZZ			01:06																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/10/2013 14:10 End Date: 04/11/2013 13:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			01:14																				
ZZZZZZ			01:22																				
ZZZZZZ			01:30																				
ZZZZZZ			01:38																				
ZZZZZZ			01:47																				
CCV 180-68949/48			01:55																				
CCB4 180-68949/49			02:03																				
ZZZZZZ			02:12																				
ZZZZZZ			02:20																				
ZZZZZZ			02:28																				
ZZZZZZ			02:36																				
ZZZZZZ			02:45																				
ZZZZZZ			02:53																				
ZZZZZZ			03:01																				
ZZZZZZ			03:09																				
ZZZZZZ			03:18																				
ZZZZZZ			03:26																				
CCV 180-68949/60	1		03:34	X	X																		
CCB5 180-68949/61	1		03:44	X	X																		
ZZZZZZ			03:52																				
ZZZZZZ			04:00																				
ZZZZZZ			04:09																				
MB 180-67960/1-A	1	T	04:17	X	X																		
LCS 180-67960/2-A	1	T	04:25	X	X																		
240-22274-3	1	T	04:33	X	X																		
240-22274-3 SD	5	T	04:41	X	X																		
240-22274-3 DU	1	T	04:50	X	X																		
240-22274-3 MS	1	T	04:58	X	X																		
240-22274-3 PDS	1	T	05:06	X	X																		
CCV 180-68949/72	1		05:14	X	X																		
CCB6 180-68949/73	1		05:22	X	X																		
CRI 180-68949/74			05:31																				
CRI 180-68949/75			05:39																				
CCV 180-68949/76			05:47																				
CCB7 180-68949/77			05:55																				
ZZZZZZ			06:04																				
ZZZZZZ			06:12																				
ZZZZZZ			06:20																				
ZZZZZZ			06:28																				
ZZZZZZ			06:37																				
ZZZZZZ			06:45																				
ZZZZZZ			06:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/10/2013 14:10 End Date: 04/11/2013 13:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			07:01																				
ZZZZZZ			07:09																				
ZZZZZZ			07:18																				
CCV 180-68949/88			07:26																				
CCB7 180-68949/89			07:34																				
ZZZZZZ			07:42																				
ZZZZZZ			07:50																				
ZZZZZZ			07:59																				
ZZZZZZ			08:07																				
ZZZZZZ			08:15																				
ZZZZZZ			08:23																				
ZZZZZZ			08:32																				
ZZZZZZ			08:40																				
ZZZZZZ			08:48																				
ZZZZZZ			08:56																				
CCV 180-68949/100			09:05																				
CCB8 180-68949/101			09:13																				
ZZZZZZ			09:21																				
ZZZZZZ			09:29																				
ZZZZZZ			09:38																				
ZZZZZZ			09:46																				
ZZZZZZ			11:59																				
ZZZZZZ			12:08																				
ZZZZZZ			12:17																				
ZZZZZZ			12:27																				
ZZZZZZ			12:37																				
ZZZZZZ			12:45																				
CCV 180-68949/112			12:53																				
CCB9 180-68949/113			13:02																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/12/2013 12:07 End Date: 04/13/2013 04:43

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ITUNE 180-69084/1			12:07																				
STD1 180-69084/2 IC	1		13:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-69084/3 IC	1		13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-69084/4 IC	1		13:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-69084/5	1		13:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-69084/6	1		13:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-69084/7	1		13:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-69084/8	1		14:09		X		X					X	X	X			X		X	X			
CCV 180-69084/9	1		14:17						X						X	X		X					
ICSA 180-69084/10	1		14:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 180-69084/11	1		14:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-69084/12	1		14:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1 180-69084/13	1		14:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:58																				
ZZZZZZ			15:07																				
ZZZZZZ			15:15																				
ZZZZZZ			15:23																				
ZZZZZZ			15:31																				
ZZZZZZ			15:39																				
ZZZZZZ			15:48																				
ZZZZZZ			15:56																				
ZZZZZZ			16:04																				
ZZZZZZ			16:12																				
CCV 180-69084/24			16:21																				
CCB2 180-69084/25			16:29																				
ZZZZZZ			16:34																				
ZZZZZZ			16:42																				
ZZZZZZ			16:50																				
ZZZZZZ			16:58																				
ZZZZZZ			17:07																				
ZZZZZZ			17:15																				
ZZZZZZ			17:23																				
ZZZZZZ			17:31																				
ZZZZZZ			17:39																				
ZZZZZZ			17:48																				
CCV 180-69084/36			17:56																				
CCB3 180-69084/37			18:04																				
ZZZZZZ			18:12																				
ZZZZZZ			18:21																				
ZZZZZZ			18:29																				
ZZZZZZ			18:37																				
ZZZZZZ			18:45																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/12/2013 12:07 End Date: 04/13/2013 04:43

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			18:54																				
ZZZZZZ			19:02																				
ZZZZZZ			19:10																				
ZZZZZZ			19:18																				
ZZZZZZ			19:27																				
CCV 180-69084/48	1		19:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB4 180-69084/49	1		19:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:51																				
ZZZZZZ			20:00																				
ZZZZZZ			20:08																				
ZZZZZZ			20:16																				
240-22274-6	10	T	20:24														X						
240-22274-14	1000	T	20:33														X						
240-22274-23	10	T	20:41														X						
CRI 180-69084/57			20:49																				
CRI 180-69084/58			20:57																				
CCV 180-69084/59	1		21:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB5 180-69084/60	1		21:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-2	1	T	21:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-4	1	T	21:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-5	1	T	21:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-6	1	T	21:48	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22274-7	1	T	21:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-8	1	T	22:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-9	1	T	22:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-10	1	T	22:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-11	1	T	22:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-12	1	T	22:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-69084/71	1		22:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB6 180-69084/72	1		22:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-13	1	T	23:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-14	10	T	23:10	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22274-15	1	T	23:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-16	1	T	23:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-17	1	T	23:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-18	1	T	23:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-19	1	T	23:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-20	1	T	00:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-21	1	T	00:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-67996/1-A	1	T	00:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-69084/83	1		00:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB7 180-69084/84	1		00:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/12/2013 12:07 End Date: 04/13/2013 04:43

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
LCS 180-67996/2-A	1	T	00:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-22	1	T	00:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-22 SD	5	T	00:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-22 DU	1	T	01:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-22 MS	1	T	01:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-22 PDS	1	T	01:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-23	1	T	01:32	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22274-24	1	T	01:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-25	1	T	01:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-26	1	T	01:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-69084/95	1		02:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB8 180-69084/96	1		02:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-27	1	T	02:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-28	1	T	02:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-29	1	T	02:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-30	1	T	02:48	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22274-31	1	T	02:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-32	1	T	03:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-33	1	T	03:12	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22274-34	1	T	03:20	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22274-35	1	T	03:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-30	10	T	03:37														X						
CCV 180-69084/107	1		03:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB9 180-69084/108	1		03:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22274-33	10	T	04:02														X						
240-22274-34	10	T	04:10														X						
CRI 180-69084/111	1		04:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-69084/112			04:27																				
CCV 180-69084/113	1		04:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB10 180-69084/114	1		04:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/12/2013 12:07 End Date: 04/13/2013 04:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ITUNE 180-69084/1			12:07																				
STD1 180-69084/2 IC	1		13:23	X	X																		
STD2 180-69084/3 IC	1		13:33	X	X																		
STD3 180-69084/4 IC	1		13:38	X	X																		
ICV 180-69084/5	1		13:43	X	X																		
ICB 180-69084/6	1		13:51	X	X																		
CRI 180-69084/7	1		13:59	X	X																		
CCV 180-69084/8	1		14:09		X																		
CCV 180-69084/9	1		14:17																				
ICSA 180-69084/10	1		14:25	X	X																		
ICSAB 180-69084/11	1		14:34	X	X																		
CCV 180-69084/12	1		14:42	X	X																		
CCB1 180-69084/13	1		14:50	X	X																		
ZZZZZZ			14:58																				
ZZZZZZ			15:07																				
ZZZZZZ			15:15																				
ZZZZZZ			15:23																				
ZZZZZZ			15:31																				
ZZZZZZ			15:39																				
ZZZZZZ			15:48																				
ZZZZZZ			15:56																				
ZZZZZZ			16:04																				
ZZZZZZ			16:12																				
CCV 180-69084/24			16:21																				
CCB2 180-69084/25			16:29																				
ZZZZZZ			16:34																				
ZZZZZZ			16:42																				
ZZZZZZ			16:50																				
ZZZZZZ			16:58																				
ZZZZZZ			17:07																				
ZZZZZZ			17:15																				
ZZZZZZ			17:23																				
ZZZZZZ			17:31																				
ZZZZZZ			17:39																				
ZZZZZZ			17:48																				
CCV 180-69084/36			17:56																				
CCB3 180-69084/37			18:04																				
ZZZZZZ			18:12																				
ZZZZZZ			18:21																				
ZZZZZZ			18:29																				
ZZZZZZ			18:37																				
ZZZZZZ			18:45																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/12/2013 12:07 End Date: 04/13/2013 04:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			18:54																				
ZZZZZZ			19:02																				
ZZZZZZ			19:10																				
ZZZZZZ			19:18																				
ZZZZZZ			19:27																				
CCV 180-69084/48	1		19:35	X	X																		
CCB4 180-69084/49	1		19:43	X	X																		
ZZZZZZ			19:51																				
ZZZZZZ			20:00																				
ZZZZZZ			20:08																				
ZZZZZZ			20:16																				
240-22274-6	10	T	20:24																				
240-22274-14	1000	T	20:33																				
240-22274-23	10	T	20:41																				
CRI 180-69084/57			20:49																				
CRI 180-69084/58			20:57																				
CCV 180-69084/59	1		21:06	X	X																		
CCB5 180-69084/60	1		21:15	X	X																		
240-22274-2	1	T	21:24	X	X																		
240-22274-4	1	T	21:32	X	X																		
240-22274-5	1	T	21:40	X	X																		
240-22274-6	1	T	21:48	X	X																		
240-22274-7	1	T	21:56	X	X																		
240-22274-8	1	T	22:05	X	X																		
240-22274-9	1	T	22:13	X	X																		
240-22274-10	1	T	22:21	X	X																		
240-22274-11	1	T	22:29	X	X																		
240-22274-12	1	T	22:38	X	X																		
CCV 180-69084/71	1		22:46	X	X																		
CCB6 180-69084/72	1		22:54	X	X																		
240-22274-13	1	T	23:02	X	X																		
240-22274-14	10	T	23:10	X	X																		
240-22274-15	1	T	23:19	X	X																		
240-22274-16	1	T	23:27	X	X																		
240-22274-17	1	T	23:35	X	X																		
240-22274-18	1	T	23:43	X	X																		
240-22274-19	1	T	23:51	X	X																		
240-22274-20	1	T	00:00	X	X																		
240-22274-21	1	T	00:08	X	X																		
MB 180-67996/1-A	1	T	00:16	X	X																		
CCV 180-69084/83	1		00:24	X	X																		
CCB7 180-69084/84	1		00:33	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/12/2013 12:07 End Date: 04/13/2013 04:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
LCS 180-67996/2-A	1	T	00:41	X	X																		
240-22274-22	1	T	00:49	X	X																		
240-22274-22 SD	5	T	00:57	X	X																		
240-22274-22 DU	1	T	01:06	X	X																		
240-22274-22 MS	1	T	01:14	X	X																		
240-22274-22 PDS	1	T	01:24	X	X																		
240-22274-23	1	T	01:32	X	X																		
240-22274-24	1	T	01:40	X	X																		
240-22274-25	1	T	01:50	X	X																		
240-22274-26	1	T	01:58	X	X																		
CCV 180-69084/95	1		02:06	X	X																		
CCB8 180-69084/96	1		02:14	X	X																		
240-22274-27	1	T	02:23	X	X																		
240-22274-28	1	T	02:31	X	X																		
240-22274-29	1	T	02:39	X	X																		
240-22274-30	1	T	02:48	X	X																		
240-22274-31	1	T	02:56	X	X																		
240-22274-32	1	T	03:04	X	X																		
240-22274-33	1	T	03:12	X	X																		
240-22274-34	1	T	03:20	X	X																		
240-22274-35	1	T	03:29	X	X																		
240-22274-30	10	T	03:37																				
CCV 180-69084/107	1		03:45	X	X																		
CCB9 180-69084/108	1		03:54	X	X																		
240-22274-33	10	T	04:02																				
240-22274-34	10	T	04:10																				
CRI 180-69084/111	1		04:18	X	X																		
CRI 180-69084/112			04:27																				
CCV 180-69084/113	1		04:35	X	X																		
CCB10 180-69084/114	1		04:43	X	X																		

Prep Types

T = Total/NA

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/10/2013 End Date: 04/11/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
ICV 180-68949/5	20:05	97		93		96		93		99	
CCV 180-68949/60	03:34	61		64		67		69		68	
CCB5 180-68949/61	03:44	92		87		82		93		87	
MB 180-67960/1-A	04:17	77		93		89		78		75	
LCS 180-67960/2-A	04:25	58		61		64		66		64	
240-22274-3	04:33	54		60		0		64		65	
240-22274-3 SD	04:41	57		62		70		65		67	
240-22274-3 DU	04:50	53		61		0		65		66	
240-22274-3 MS	04:58	51		60		0		62		63	
240-22274-3 PDS	05:06	51		59		0		62		63	
CCV 180-68949/72	05:14	59		60		63		65		65	
CCB6 180-68949/73	05:22	82		82		81		88		81	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/10/2013 End Date: 04/11/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
ICV 180-68949/5	20:05	96		97		97					
CCV 180-68949/60	03:34	75		76		81					
CCB5 180-68949/61	03:44	87		87		98					
MB 180-67960/1-A	04:17	80		81		92					
LCS 180-67960/2-A	04:25	72		73		78					
240-22274-3	04:33	74		75		79					
240-22274-3 SD	04:41	74		74		81					
240-22274-3 DU	04:50	76		77		81					
240-22274-3 MS	04:58	74		74		78					
240-22274-3 PDS	05:06	73		75		77					
CCV 180-68949/72	05:14	71		72		79					
CCB6 180-68949/73	05:22	82		83		95					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/12/2013 End Date: 04/13/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-69084/2 IC	13:23	100		100		100		100		100	
STD2 180-69084/3 IC	13:33	90		90		91		89		91	
STD3 180-69084/4 IC	13:38	90		90		92		93		93	
ICV 180-69084/5	13:43	90		89		91		90		92	
ICB 180-69084/6	13:51	96		95		88		89		89	
CRI 180-69084/7	13:59	93		91		90		94		94	
CCV 180-69084/8	14:09	82		80		81		82		86	
CCV 180-69084/9	14:17	95		104		105		96		101	
ICSA 180-69084/10	14:25	85		88		92		90		95	
ICSAB 180-69084/11	14:34	82		85		90		87		92	
CCV 180-69084/12	14:42	90		93		95		93		94	
CCB1 180-69084/13	14:50	98		96		96		96		96	
CCV 180-69084/48	19:35	77		74		76		76		77	
CCB4 180-69084/49	19:43	111		84		84		93		86	
240-22274-6	20:24	75		75		81		77		78	
240-22274-14	20:33	77		78		79		80		81	
240-22274-23	20:41	74		74		78		76		78	
CCV 180-69084/59	21:06	77		74		74		73		75	
CCB5 180-69084/60	21:15	118		83		87		90		90	
240-22274-2	21:24	68		74		0		74		75	
240-22274-4	21:32	69		75		0		75		77	
240-22274-5	21:40	71		74		0		76		78	
240-22274-6	21:48	68		75		0		74		77	
240-22274-7	21:56	70		79		0		76		79	
240-22274-8	22:05	73		78		0		78		81	
240-22274-9	22:13	69		79		0		77		79	
240-22274-10	22:21	70		77		0		76		78	
240-22274-11	22:29	70		77		0		76		79	
240-22274-12	22:38	72		78		0		77		79	
CCV 180-69084/71	22:46	78		79		79		78		79	
CCB6 180-69084/72	22:54	103		89		90		85		85	
240-22274-13	23:02	72		80		0		78		80	
240-22274-14	23:10	74		77		84		80		82	
240-22274-15	23:19	67		73		0		73		76	
240-22274-16	23:27	66		73		0		72		74	
240-22274-17	23:35	67		73		0		73		76	
240-22274-18	23:43	65		74		0		71		74	
240-22274-19	23:51	67		72		0		72		75	
240-22274-20	00:00	65		75		0		72		75	
240-22274-21	00:08	65		73		0		72		74	
MB 180-67996/1-A	00:16	92		85		84		85		84	
CCV 180-69084/83	00:24	75		74		74		73		75	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/12/2013 End Date: 04/13/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
CCB7 180-69084/84	00:33	89		85		86		92		90	
LCS 180-67996/2-A	00:41	70		72		72		72		73	
240-22274-22	00:49	64		74		0		72		74	
240-22274-22 SD	00:57	70		73		89		75		76	
240-22274-22 DU	01:06	64		74		0		72		74	
240-22274-22 MS	01:14	60		74		0		68		71	
240-22274-22 PDS	01:24	61		73		0		69		71	
240-22274-23	01:32	61		70		0		71		73	
240-22274-24	01:40	64		71		0		70		73	
240-22274-25	01:50	64		76		0		72		75	
240-22274-26	01:58	68		72		0		73		75	
CCV 180-69084/95	02:06	71		74		73		71		72	
CCB8 180-69084/96	02:14	88		84		81		92		85	
240-22274-27	02:23	64		74		0		71		74	
240-22274-28	02:31	66		75		0		73		75	
240-22274-29	02:39	66		75		0		72		74	
240-22274-30	02:48	64		73		0		71		73	
240-22274-31	02:56	65		73		0		72		74	
240-22274-32	03:04	67		71		0		71		73	
240-22274-33	03:12	65		70		0		71		73	
240-22274-34	03:20	64		72		0		70		73	
240-22274-35	03:29	63		71		0		69		72	
240-22274-30	03:37	69		72		0		75		75	
CCV 180-69084/107	03:45	73		73		70		69		70	
CCB9 180-69084/108	03:54	88		90		80		91		86	
240-22274-33	04:02	70		73		0		74		75	
240-22274-34	04:10	69		73		0		73		74	
CRI 180-69084/111	04:18	80		72		74		74		74	
CCV 180-69084/113	04:35	73		74		72		71		70	
CCB10 180-69084/114	04:43	88		91		80		90		84	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/12/2013 End Date: 04/13/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-69084/2 IC	13:23	100		100		100					
STD2 180-69084/3 IC	13:33	94		94		87					
STD3 180-69084/4 IC	13:38	94		94		89					
ICV 180-69084/5	13:43	94		94		86					
ICB 180-69084/6	13:51	90		91		86					
CRI 180-69084/7	13:59	94		94		91					
CCV 180-69084/8	14:09	86		86		88					
CCV 180-69084/9	14:17	106		107		92					
ICSA 180-69084/10	14:25	97		98		91					
ICSAB 180-69084/11	14:34	95		95		89					
CCV 180-69084/12	14:42	96		96		89					
CCB1 180-69084/13	14:50	96		96		94					
CCV 180-69084/48	19:35	79		80		74					
CCB4 180-69084/49	19:43	88		88		84					
240-22274-6	20:24	80		81		77					
240-22274-14	20:33	82		83		78					
240-22274-23	20:41	80		80		77					
CCV 180-69084/59	21:06	77		78		72					
CCB5 180-69084/60	21:15	91		91		86					
240-22274-2	21:24	82		82		74					
240-22274-4	21:32	83		83		75					
240-22274-5	21:40	83		83		77					
240-22274-6	21:48	87		86		76					
240-22274-7	21:56	91		90		77					
240-22274-8	22:05	88		88		78					
240-22274-9	22:13	92		90		78					
240-22274-10	22:21	86		87		77					
240-22274-11	22:29	88		88		77					
240-22274-12	22:38	87		86		77					
CCV 180-69084/71	22:46	82		83		76					
CCB6 180-69084/72	22:54	86		86		80					
240-22274-13	23:02	90		89		78					
240-22274-14	23:10	84		85		81					
240-22274-15	23:19	81		81		75					
240-22274-16	23:27	83		83		74					
240-22274-17	23:35	84		83		74					
240-22274-18	23:43	81		82		73					
240-22274-19	23:51	82		82		73					
240-22274-20	00:00	87		86		73					
240-22274-21	00:08	82		82		72					
MB 180-67996/1-A	00:16	86		86		82					
CCV 180-69084/83	00:24	78		78		72					

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/12/2013 End Date: 04/13/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
CCB7 180-69084/84	00:33	90		91		86					
LCS 180-67996/2-A	00:41	76		77		71					
240-22274-22	00:49	87		86		74					
240-22274-22 SD	00:57	80		81		75					
240-22274-22 DU	01:06	86		86		73					
240-22274-22 MS	01:14	84		83		70					
240-22274-22 PDS	01:24	83		83		70					
240-22274-23	01:32	80		79		71					
240-22274-24	01:40	78		78		71					
240-22274-25	01:50	87		86		73					
240-22274-26	01:58	81		81		72					
CCV 180-69084/95	02:06	75		76		70					
CCB8 180-69084/96	02:14	88		87		82					
240-22274-27	02:23	84		84		72					
240-22274-28	02:31	85		83		73					
240-22274-29	02:39	84		83		72					
240-22274-30	02:48	83		83		70					
240-22274-31	02:56	82		82		71					
240-22274-32	03:04	77		77		70					
240-22274-33	03:12	79		78		70					
240-22274-34	03:20	81		81		71					
240-22274-35	03:29	79		79		69					
240-22274-30	03:37	79		79		73					
CCV 180-69084/107	03:45	73		73		68					
CCB9 180-69084/108	03:54	85		85		79					
240-22274-33	04:02	76		76		72					
240-22274-34	04:10	76		76		71					
CRI 180-69084/111	04:18	76		76		71					
CCV 180-69084/113	04:35	73		73		67					
CCB10 180-69084/114	04:43	85		85		78					

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : 7471:

Run Date: 3-27-13 Analyst: RLT Instrument: H1

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?				✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?				✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: Susan J Girard Date/Time: 3-27-13 3-26-13 Reviewed from 9:24 to 11:46
Analyst: Susan J Girard Date/Time: _____ Reviewed from 17:04 to 12:12 (3-28)

Comments: _____

Level II

Reviewer: [signature] Date/Time: 3/27/2013 Reviewed from 9:24 to 11:46
Reviewer: [signature] Date/Time: 3/28/2013 Reviewed from 7:04 to 12:12

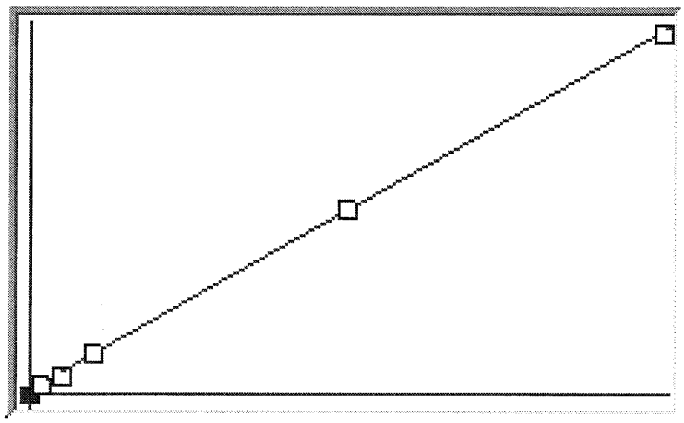
Comments _____

Curve Date 3-26-13 Curve Time 4:20 - 4:50 DILUTION H20 NA

Revised 11/29/2012

Protocol: 0327AHG1

Wt lin



Calibrated

Accepted

A

B 2.97460e-4

C -7.95683e-2

Rhc .999847

Accepted Date: 27-Mar-13 09:33

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.0528	-.0528	91	0	90				
02	.20000	.1765	-.0235	862	0%	861				
03	.50000	.4740	-.0260	1861	0%	1861				
04	1.0000	1.049	.0490	3794	0%	3794				
05	5.0000	5.118	.1176	17473	0%	17472				
06	10.000	9.936	-.0644	33670	0%	33669				
07										
08										
09										
10										

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

Recalibrate

*** Standard: 1 Rep: 1 Seq: 1 09:09:19 27 Mar 13 HG

Hg .0000 ppb 64

*** Standard: 2 Rep: 1 Seq: 2 09:10:56 27 Mar 13 HG

Hg .2000 ppb 849

*** Standard: 3 Rep: 1 Seq: 3 09:12:26 27 Mar 13 HG

Hg .5000 ppb 1776

*** Standard: 4 Rep: 1 Seq: 4 09:14:08 27 Mar 13 HG

Hg 1.000 ppb 3535

*** Standard: 5 Rep: 1 Seq: 5 09:15:38 27 Mar 13 HG

Hg 5.000 ppb 17185

*** Standard: 6 Rep: 1 Seq: 6 09:17:18 27 Mar 13 HG

Hg 10.00 ppb 33513

*** Check Standard: 2 Ck2ICV Seq: 7 09:21:35 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	H	110.7	2.766	2.500	ppb	.0000

*** Standard: 1 Rep: 1 Seq: 8 09:24:49 27 Mar 13 HG

Hg .0000 ppb 90

*** Standard: 2 Rep: 1 Seq: 9 09:26:55 27 Mar 13 HG

Hg .2000 ppb 861

*** Standard: 3 Rep: 1 Seq: 10 09:28:14 27 Mar 13 HG

Hg .5000 ppb 1861

*** Standard: 4 Rep: 1 Seq: 11 09:29:30 27 Mar 13 HG

Hg 1.000 ppb 3794

*** Standard: 5 Rep: 1 Seq: 12 09:31:17 27 Mar 13 HG

Hg 5.000 ppb 17472

*** Standard: 6 Rep: 1 Seq: 13 09:33:09 27 Mar 13 HG

Hg 10.00 ppb 33669

*** Check Standard: 2 Ck2ICV Seq: 14 09:34:58 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.2	2.656	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 15 09:36:14 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0677	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 16 09:37:51 27 Mar 13 HG

Rerun

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		65.81	.1316	.2000	ppb	.0000

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 4 Ck4CRA\MRL Seq: 17 09:41:52 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		85.30	.1706	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 18 09:45:27 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.43	4.972	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 19 09:47:24 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0843	.2000	ppb	.0000

*** Sample ID: Seq: 20 09:48:40 27 Mar 13 HG
mb 240-79493/1-a

Hg	-.0593	ppb	.0000	-.0593

*** Sample ID: Seq: 21 09:50:06 27 Mar 13 HG
lcs 240-79493/2-a

Hg	5.325	ppb	.0000	5.325

*** Sample ID: Seq: 22 09:51:32 27 Mar 13 HG
240-22274-c-3-a

Hg	.1441	ppb	.0000	.1441

*** Sample ID: Seq: 23 09:53:10 27 Mar 13 HG
240-22274-c-3-b du

Hg	.1581	ppb	.0000	.1581

*** Sample ID: Seq: 24 09:54:51 27 Mar 13 HG
240-22274-c-3-c ms

Hg	1.281	ppb	.0000	1.281

*** Sample ID: Seq: 25 09:56:07 27 Mar 13 HG
240-22274-e-2-a

Hg	.1313	ppb	.0000	.1313

*** Sample ID: Seq: 26 09:57:24 27 Mar 13 HG
240-22274-c-4-a

Hg	.1290	ppb	.0000	.1290

*** Sample ID: Seq: 27 09:58:45 27 Mar 13 HG
240-22274-c-5-a

Hg	.1159	ppb	.0000	.1159

*** Sample ID: Seq: 28 10:00:20 27 Mar 13 HG
240-22274-c-6-a

Hg	.1697	ppb	.0000	.1697

*** Sample ID: Seq: 29 10:01:40 27 Mar 13 HG
240-22274-c-14-a

Hg	.0599	ppb	.0000	.0599

*** Check Standard: 6 Ck6CCV Seq: 30 10:03:47 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.7	5.034	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 31 10:05:02 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.1173	.2000	ppb	.0000

*** Sample ID: Seq: 32 10:06:24 27 Mar 13 HG
240-22274-c-15-a

Hg	.1114	ppb	.0000	.1114

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 33 10:07:40 27 Mar 13 HG
240-22274-c-23-a
Hg .1849 ppb .0000 .1849

*** Sample ID: Seq: 34 10:09:34 27 Mar 13 HG
240-22274-c-24-a
Hg .0891 ppb .0000 .0891

*** Sample ID: Seq: 35 10:10:49 27 Mar 13 HG
240-22274-c-32-a
Hg .1239 ppb .0000 .1239

*** Sample ID: Seq: 36 10:12:07 27 Mar 13 HG
240-22274-c-33-a
Hg .1126 ppb .0000 .1126

*** Sample ID: Seq: 37 10:13:54 27 Mar 13 HG
240-22141-c-19-a
Hg .1563 ppb .0000 .1563

*** Sample ID: Seq: 38 10:15:10 27 Mar 13 HG
240-22141-c-20-a
Hg .0796 ppb .0000 .0796

*** Sample ID: Seq: 39 10:16:26 27 Mar 13 HG
240-22141-c-28-a
Hg .2241 ppb .0000 .2241

*** Sample ID: Seq: 40 10:18:33 27 Mar 13 HG
240-22141-c-29-a
Hg .1385 ppb .0000 .1385

*** Sample ID: Seq: 41 10:20:09 27 Mar 13 HG
240-22281-b-12-a
Hg .2024 ppb .0000 .2024

*** Check Standard: 6 Ck6CCV Seq: 42 10:21:46 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.062	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 43 10:23:02 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0073	.2000	ppb	.0000

*** Sample ID: Seq: 44 10:24:48 27 Mar 13 HG
240-22281-b-13-a
Hg .1718 ppb .0000 .1718

*** Sample ID: Seq: 45 10:26:08 27 Mar 13 HG
240-22281-b-14-a
Hg .0814 ppb .0000 .0814

*** Sample ID: Seq: 46 10:27:34 27 Mar 13 HG
240-22281-b-15-a
Hg .0576 ppb .0000 .0576

*** Sample ID: Seq: 47 10:28:54 27 Mar 13 HG
240-22281-b-16-a
Hg .2539 ppb .0000 .2539

*** Sample ID: Seq: 48 10:30:13 27 Mar 13 HG
CRA
Hg .1542 ppb .0000 .1542

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 49	10:31:29 27 Mar 13	HG		
				mb 240-79159/1-a				
Hg	-.0216	ppb	.0000	-.0216				
*** Sample ID:				Seq: 50	10:33:09 27 Mar 13	HG		
				lcs 240-79159/2-a				
Hg	5.458	ppb	.0000	5.458				
*** Sample ID:				Seq: 51	10:34:37 27 Mar 13	HG		
				240-22185-e-2-g				
Hg	-.0183	ppb	.0000	-.0183				
*** Sample ID:				Seq: 52	10:36:24 27 Mar 13	HG		
				240-22185-e-2-h ms				
Hg	1.112	ppb	.0000	1.112				
*** Sample ID:				Seq: 53	10:37:41 27 Mar 13	HG		
				240-22185-e-2-i msd				
Hg	1.125	ppb	.0000	1.125				

*** Check Standard: 6 Ck6CCV Seq: 54 10:38:58 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.054	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 55 10:41:47 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0385	.2000	ppb	.0000

*** Sample ID:				Seq: 56	10:43:02 27 Mar 13	HG		
				240-22185-d-3-c				
Hg	-.0352	ppb	.0000	-.0352				
*** Sample ID:				Seq: 57	10:44:29 27 Mar 13	HG		
				240-22174-e-7-b				
Hg	.0016	ppb	.0000	.0016				
*** Sample ID:				Seq: 58	10:45:58 27 Mar 13	HG		
				240-22174-e-11-b				
Hg	.0817	ppb	.0000	.0817				
*** Sample ID:				Seq: 59	10:47:39 27 Mar 13	HG		
				240-22266-f-1-b				
Hg	.1899	ppb	.0000	.1899				
*** Sample ID:				Seq: 60	10:48:58 27 Mar 13	HG		
				240-22266-g-2-b				
Hg	.0825	ppb	.0000	.0825				
*** Sample ID:				Seq: 61	10:50:26 27 Mar 13	HG		
				240-22266-f-3-b				
Hg	.0263	ppb	.0000	.0263				
*** Sample ID:				Seq: 62	10:51:53 27 Mar 13	HG		
				240-22266-f-4-b				
Hg	.1010	ppb	.0000	.1010				
*** Sample ID:				Seq: 63	10:53:22 27 Mar 13	HG		
				240-22266-f-5-b				
Hg	.2592	ppb	.0000	.2592				
*** Sample ID:				Seq: 64	10:54:52 27 Mar 13	HG		
				240-22266-f-6-b				
Hg	.0495	ppb	.0000	.0495				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 65	10:56:08 27 Mar 13	HG		
				240-22184-c-1-d				
Hg	.0567	ppb	.0000	.0567				
*** Check Standard: 6 Ck6CCV				Seq: 66	10:57:27 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.3	5.067	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 67	10:58:48 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0924	.2000	ppb	.0000			
*** Sample ID:				Seq: 68	11:00:34 27 Mar 13	HG		
				240-22184-c-2-d				
Hg	-.0174	ppb	.0000	-.0174				
*** Sample ID:				Seq: 69	11:01:55 27 Mar 13	HG		
				240-22184-c-3-d				
Hg	.0385	ppb	.0000	.0385				
*** Sample ID:				Seq: 70	11:03:45 27 Mar 13	HG		
				lb 240-78934/1-c				
Hg	-.0698	ppb	.0000	-.0698				
*** Sample ID:				Seq: 71	11:05:55 27 Mar 13	HG		
				mb 240-79168/2-a				
Hg	-.0659	ppb	.0000	-.0659				
*** Sample ID:				Seq: 72	11:07:26 27 Mar 13	HG		
				lcs 240-79168/3-a				
Hg	5.423	ppb	.0000	5.423				
*** Sample ID:				Seq: 73	11:08:45 27 Mar 13	HG		
				240-22019-c-1-m				
Hg	-.0412	ppb	.0000	-.0412				
*** Sample ID:				Seq: 74	11:10:21 27 Mar 13	HG		
				240-22019-c-1-n ms				
Hg	4.783	ppb	.0000	4.783				
*** Sample ID:				Seq: 75	11:11:38 27 Mar 13	HG		
				240-22019-c-1-o msd				
Hg	4.686	ppb	.0000	4.686				
*** Sample ID:				Seq: 76	11:13:34 27 Mar 13	HG		
				mb 240-79340/1-a				
Hg	-.0016	ppb	.0000	-.0016				
*** Sample ID:				Seq: 77	11:15:10 27 Mar 13	HG		
				lcs 240-79340/2-a				
Hg	5.791	ppb	.0000	5.791				
*** Check Standard: 6 Ck6CCV				Seq: 78	11:16:41 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		102.3	5.114	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 79	11:18:30 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0352	.2000	ppb	.0000			
*** Sample ID:				Seq: 80	11:19:46 27 Mar 13	HG		
				240-22317-o-3-a				
Hg	.0504	ppb	.0000	.0504				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 81	11:21:26 27 Mar 13	HG		
				240-22317-o-3-b ms				
Hg	1.249	ppb	.0000	1.249				
*** Sample ID:				Seq: 82	11:23:13 27 Mar 13	HG		
				240-22317-o-3-c msd				
Hg	1.272	ppb	.0000	1.272				
*** Sample ID:				Seq: 83	11:24:30 27 Mar 13	HG		
				240-22317-f-1-a				
Hg	.0531	ppb	.0000	.0531				
*** Sample ID:				Seq: 84	11:25:52 27 Mar 13	HG		
				240-22317-f-2-a				
Hg	.0504	ppb	.0000	.0504				
*** Sample ID:				Seq: 85	11:27:50 27 Mar 13	HG		
				240-22294-d-1-b				
Hg	.1861	ppb	.0000	.1861				
*** Sample ID:				Seq: 86	11:29:06 27 Mar 13	HG		
				240-22294-d-2-b				
Hg	.0305	ppb	.0000	.0305				
*** Sample ID:				Seq: 87	11:30:23 27 Mar 13	HG		
				240-22294-d-3-b				
Hg	.0189	ppb	.0000	.0189				
*** Sample ID:				Seq: 88	11:31:41 27 Mar 13	HG		
				240-22294-d-4-b				
Hg	.2503	ppb	.0000	.2503				
*** Sample ID:				Seq: 89	11:32:57 27 Mar 13	HG		
				240-22296-d-1-b				
Hg	.0120	ppb	.0000	.0120				

*** Check Standard: 6 Ck6CCV Seq: 90 11:34:18 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.1	5.106	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 91 11:35:33 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0555	.2000	ppb	.0000

*** Sample ID:				Seq: 92	11:37:32 27 Mar 13	HG		
				240-22296-d-2-b				
Hg	.0695	ppb	.0000	.0695				
*** Sample ID:				Seq: 93	11:38:49 27 Mar 13	HG		
				240-22296-d-3-b				
Hg	.0477	ppb	.0000	.0477				
*** Sample ID:				Seq: 94	11:40:06 27 Mar 13	HG		
				240-22297-c-4-a				
Hg	.5951	ppb	.0000	.5951				
*** Sample ID:				Seq: 95	11:41:43 27 Mar 13	HG		
				240-22297-c-5-a				
Hg	.7072	ppb	.0000	.7072				
*** Sample ID:				Seq: 96	11:43:05 27 Mar 13	HG		
				240-22335-b-1-a				
Hg	.3184	ppb	.0000	.3184				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 97 11:45:06 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.059	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 98 11:46:22 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0745	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 99 17:04:13 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.40	4.820	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 100 17:05:42 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0846	.2000	ppb	.0000

*** Sample ID: Seq: 101 17:06:57 27 Mar 13 HG
mb 240-79646/1-a

Hg	-.0522	ppb	.0000	-.0522

*** Sample ID: Seq: 102 17:08:25 27 Mar 13 HG
lcs 240-79646/2-a

Hg	5.543	ppb	.0000	5.543

*** Sample ID: Seq: 103 17:09:50 27 Mar 13 HG
240-22141-b-1-b

Hg	.3318	ppb	.0000	.3318

*** Sample ID: Seq: 104 17:11:18 27 Mar 13 HG
240-22141-b-1-c du

Hg	.3274	ppb	.0000	.3274

*** Sample ID: Seq: 105 17:12:35 27 Mar 13 HG
240-22141-b-1-d ms

Hg	1.647	ppb	.0000	1.647

*** Sample ID: Seq: 106 17:13:55 27 Mar 13 HG
240-22141-b-2-b

Hg	.2375	ppb	.0000	.2375

*** Sample ID: Seq: 107 17:15:15 27 Mar 13 HG
240-22141-b-3-b

Hg	.6201	ppb	.0000	.6201

*** Sample ID: Seq: 108 17:16:42 27 Mar 13 HG
240-22141-b-4-b

Hg	.2310	ppb	.0000	.2310

*** Sample ID: Seq: 109 17:18:00 27 Mar 13 HG
240-22141-b-5-b

Hg	.2152	ppb	.0000	.2152

*** Sample ID: Seq: 110 17:19:17 27 Mar 13 HG
240-22141-b-6-b

Hg	.2563	ppb	.0000	.2563

*** Check Standard: 6 Ck6CCV Seq: 111 17:21:07 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.86	4.893	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 112 17:22:29 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0046	.2000	ppb	.0000

*** Sample ID: Seq: 113 17:23:59 27 Mar 13 HG
240-22141-b-7-b

Hg	.2899	ppb	.0000	.2899

*** Sample ID: Seq: 114 17:25:59 27 Mar 13 HG
240-22141-b-8-b

Hg	.1495	ppb	.0000	.1495

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 115	17:27:20 27 Mar 13	HG		
				240-22141-b-9-b				
Hg	.2057	ppb	.0000	.2057				
*** Sample ID:				Seq: 116	17:28:37 27 Mar 13	HG		
				240-22141-b-10-b				
Hg	.2155	ppb	.0000	.2155				
*** Sample ID:				Seq: 117	17:30:33 27 Mar 13	HG		
				240-22141-b-11-b				
Hg	.2247	ppb	.0000	.2247				
*** Sample ID:				Seq: 118	17:31:50 27 Mar 13	HG		
				240-22141-b-12-b				
Hg	.1287	ppb	.0000	.1287				
*** Sample ID:				Seq: 119	17:33:09 27 Mar 13	HG		
				240-22141-b-13-b				
Hg	.1191	ppb	.0000	.1191				
*** Sample ID:				Seq: 120	17:34:47 27 Mar 13	HG		
				240-22141-b-14-b				
Hg	.1057	ppb	.0000	.1057				
*** Sample ID:				Seq: 121	17:36:13 27 Mar 13	HG		
				240-22141-b-15-b				
Hg	.0091	ppb	.0000	.0091				
*** Sample ID:				Seq: 122	17:37:32 27 Mar 13	HG		
				240-22141-b-16-b				
Hg	.0522	ppb	.0000	.0522				
*** Check Standard: 6 Ck6CCV				Seq: 123	17:38:58 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.3	5.013	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 124	17:40:13 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0727	.2000	ppb	.0000			
*** Sample ID:				Seq: 125	17:41:33 27 Mar 13	HG		
				240-22141-b-17-b				
Hg	.1643	ppb	.0000	.1643				
*** Sample ID:				Seq: 126	17:43:08 27 Mar 13	HG		
				240-22141-b-18-b				
Hg	.0855	ppb	.0000	.0855				
*** Sample ID:				Seq: 127	17:44:34 27 Mar 13	HG		
				240-22141-b-21-b				
Hg	.0888	ppb	.0000	.0888				
*** Sample ID:				Seq: 128	17:46:24 27 Mar 13	HG		
				240-22141-b-22-b				
Hg	.0159	ppb	.0000	.0159				
*** Sample ID:				Seq: 129	17:48:11 27 Mar 13	HG		
				mb 240-79642/1-a				
Hg	-.0332	ppb	.0000	-.0332				
*** Sample ID:				Seq: 130	17:49:56 27 Mar 13	HG		
				lcs 240-79642/2-a				
Hg	5.528	ppb	.0000	5.528				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 131	17:51:26 27 Mar 13	HG		
				240-22379-e-1-b				
Hg	.0656	ppb	.0000	.0656				
*** Sample ID:				Seq: 132	17:52:54 27 Mar 13	HG		
				240-22379-e-1-c ms				
Hg	1.153	ppb	.0000	1.153				
*** Sample ID:				Seq: 133	17:54:26 27 Mar 13	HG		
				240-22379-e-1-d msd				
Hg	1.122	ppb	.0000	1.122				
*** Sample ID:				Seq: 134	17:56:06 27 Mar 13	HG		
				240-22379-d-2-b				
Hg	.0216	ppb	.0000	.0216				
*** Check Standard: 6 Ck6CCV				Seq: 135	17:57:28 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.37	4.969	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 136	17:59:05 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0695	.2000	ppb	.0000			
*** Sample ID:				Seq: 137	18:00:21 27 Mar 13	HG		
				240-22379-e-3-b				
Hg	.0864	ppb	.0000	.0864				
*** Sample ID:				Seq: 138	18:01:44 27 Mar 13	HG		
				240-22379-e-4-b				
Hg	.0748	ppb	.0000	.0748				
*** Sample ID:				Seq: 139	18:03:03 27 Mar 13	HG		
				240-22386-d-9-b				
Hg	.0846	ppb	.0000	.0846				
*** Sample ID:				Seq: 140	18:04:22 27 Mar 13	HG		
				240-22410-a-55-b				
Hg	4.006	ppb	.0000	4.006				
*** Sample ID:				Seq: 141	18:05:50 27 Mar 13	HG		
				240-22410-a-56-b				
Hg	-.0198	ppb	.0000	-.0198				
*** Sample ID:				Seq: 142	18:07:20 27 Mar 13	HG		
				240-22410-a-57-b				
Hg	.0501	ppb	.0000	.0501				
*** Sample ID:				Seq: 143	18:08:38 27 Mar 13	HG		
				240-22410-b-73-b				
Hg	72.34 H	ppb	.0000	72.34				
*** Sample ID:				Seq: 144	18:09:57 27 Mar 13	HG		
				240-22410-b-74-b				
Hg	1.294	ppb	.0000	1.294				
*** Sample ID:				Seq: 145	18:11:36 27 Mar 13	HG		
				240-22410-b-76-b				
Hg	.6837	ppb	.0000	.6837				
*** Sample ID:				Seq: 146	18:12:55 27 Mar 13	HG		
				240-22410-b-77-b				
Hg	1.306	ppb	.0000	1.306				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 147 18:14:22 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.54	4.977	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 148 18:15:48 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0314	.2000	ppb	.0000

*** Sample ID: Seq: 149 18:17:15 27 Mar 13 HG
240-22410-b-78-b

Hg	.5460	ppb	.0000	.5460

*** Sample ID: Seq: 150 18:18:33 27 Mar 13 HG
240-22410-b-79-b

Hg	.1736	ppb	.0000	.1736

*** Sample ID: Seq: 151 18:20:04 27 Mar 13 HG
240-22410-b-93-b

Hg	3.021	ppb	.0000	3.021

*** Sample ID: Seq: 152 18:21:52 27 Mar 13 HG
240-22410-b-94-b

Hg	1.114	ppb	.0000	1.114

*** Sample ID: Seq: 153 18:23:23 27 Mar 13 HG
~~mb 240-79646/1-a~~ 240-22410-b-95-b

Hg	1.624	ppb	.0000	1.624

*** Sample ID: Seq: 154 18:24:39 27 Mar 13 HG
~~lcs 240-79646/2-a~~ 240-22410-b-96-b

Hg	.2887	ppb	.0000	.2887

SG 3-28-13

*** Sample ID: Seq: 155 18:26:01 27 Mar 13 HG
~~240-22141-b-1-b~~ 460-52889-d-2-b

Hg	.0013	ppb	.0000	.0013

*** Sample ID: Seq: 156 18:27:18 27 Mar 13 HG
~~240-22141-b-1-c du~~ 460-52889-C-3-b

Hg	-.0231	ppb	.0000	-.0231

*** Check Standard: 6 Ck6CCV Seq: 157 18:29:14 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.74	4.937	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 158 18:30:30 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0656	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 159 12:09:23 28 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.82	4.641	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 160 12:10:53 28 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0460	.2000	ppb	.0000

*** Sample ID: ~~240-22410-b-95-b~~ CRA Seq: 161 12:12:09 28 Mar 13 HG

Hg	.1599	ppb	.0000	.1599	SG 7-28-13

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : (7471)

Run Date: 4/2/2013 Analyst: A. Sutherland Instrument: H1

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓		~~✓~~ ADS 4/3/2013	✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/3/2013 Reviewed from 11:51 to 16:05

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: [signature] Date/Time: 4/3/13 Reviewed from 11:51 to 16:05

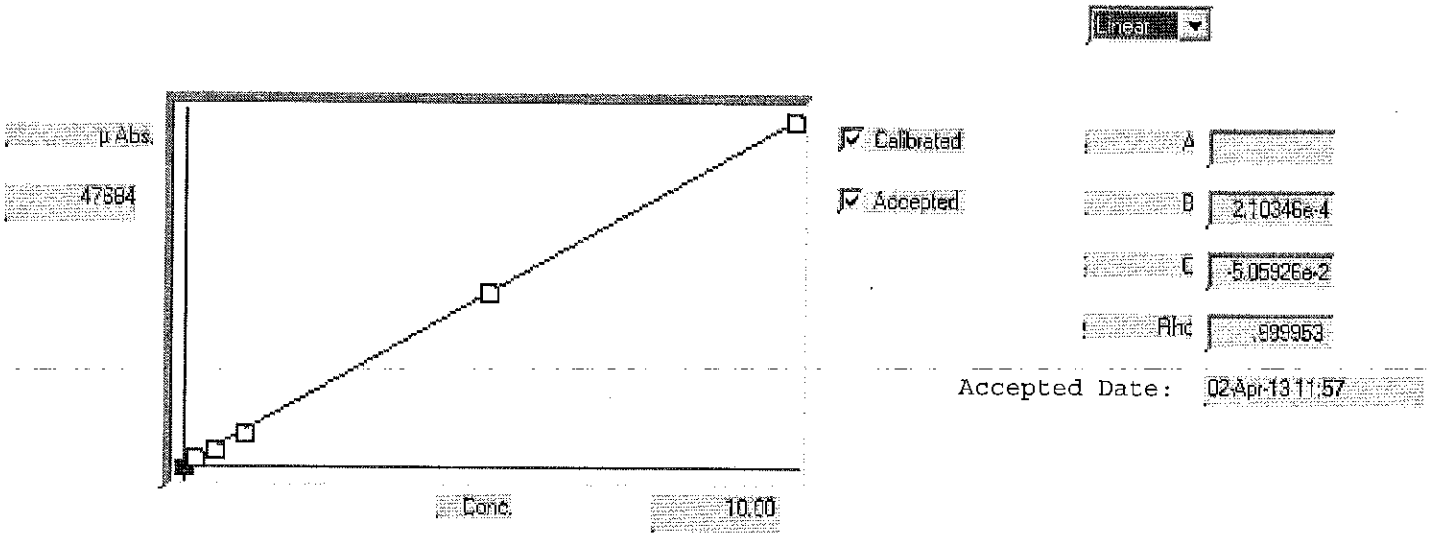
Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/2/2013 Curve Time 9:25-9:55 DILUTION H20 00013

Revised 11/29/2012

Protocol: 0402BHG1



S	Conc.	Calc.	Dev	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.0472	-.0472	16	1	16				
02	.20000	.2502	.0502	1430	0%	1430				
03	.50000	.4999	-.0001	2618	0%	2617				
04	1.0000	.9753	-.0247	4877	0%	4877				
05	5.0000	5.042	.0423	24212	0%	24212				
06	10.000	9.980	-.0204	47685	0%	47684				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 11:51:04 02 Apr 13 HG

Hg .0000 ppb 16

*** Standard: 2 Rep: 1 Seq: 2 11:52:20 02 Apr 13 HG

Hg .2000 ppb 1430

*** Standard: 3 Rep: 1 Seq: 3 11:53:37 02 Apr 13 HG

Hg .5000 ppb 2617

*** Standard: 4 Rep: 1 Seq: 4 11:54:56 02 Apr 13 HG

Hg 1.000 ppb 4877

*** Standard: 5 Rep: 1 Seq: 5 11:56:14 02 Apr 13 HG

Hg 5.000 ppb 24212

*** Standard: 6 Rep: 1 Seq: 6 11:57:51 02 Apr 13 HG

Hg 10.00 ppb 47684

*** Check Standard: 2 Ck2ICV Seq: 7 11:59:12 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.90	2.473	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 12:00:51 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	.0062	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 12:02:49 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.8	.2096	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 12:04:48 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.7	5.035	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 12:06:56 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0262	.2000	ppb	.0000

*** Sample ID: Seq: 12 12:08:23 02 Apr 13 HG
MB 240-79936/1-A
Hg -.0176 ppb .0000 -.0176

*** Sample ID: Seq: 13 12:09:41 02 Apr 13 HG
LCS 240-79936/2-A
Hg 4.941 ppb .0000 4.941

*** Sample ID: Seq: 14 12:10:59 02 Apr 13 HG
240-22471-D-1-F
Hg .0823 ppb .0000 .0823

*** Sample ID: Seq: 15 12:12:15 02 Apr 13 HG
240-22471-D-1-G MS
Hg 1.081 ppb .0000 1.081

*** Sample ID: Seq: 16 12:13:43 02 Apr 13 HG
240-22471-D-1-H MSD
Hg .9925 ppb .0000 .9925

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 17	12:15:11 02 Apr 13	HG		
				240-22471-E-2-D				
Hg	.0567	ppb	.0000	.0567				
*** Sample ID:				Seq: 18	12:16:27 02 Apr 13	HG		
				240-22471-D-3-D				
Hg	.0622	ppb	.0000	.0622				
*** Sample ID:				Seq: 19	12:17:56 02 Apr 13	HG		
				240-22471-D-4-D				
Hg	.0220	ppb	.0000	.0220				
*** Sample ID:				Seq: 20	12:19:33 02 Apr 13	HG		
				240-22471-D-5-D				
Hg	.1183	ppb	.0000	.1183				
*** Sample ID:				Seq: 21	12:20:51 02 Apr 13	HG		
				240-22471-D-6-D				
Hg	.0895	ppb	.0000	.0895				

*** Check Standard: 6 Ck6CCV Seq: 22 12:22:21 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.055	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 12:23:36 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0201	.2000	ppb	.0000

*** Sample ID:				Seq: 24	12:24:58 02 Apr 13	HG		
				240-22471-D-7-D				
Hg	.0239	ppb	.0000	.0239				
*** Sample ID:				Seq: 25	12:26:38 02 Apr 13	HG		
				240-22471-E-8-D				
Hg	.0737	ppb	.0000	.0737				
*** Sample ID:				Seq: 26	12:27:57 02 Apr 13	HG		
				240-22471-D-10-D				
Hg	.1101	ppb	.0000	.1101				
*** Sample ID:				Seq: 27	12:29:38 02 Apr 13	HG		
				240-22471-D-11-D				
Hg	-.0140	ppb	.0000	-.0140				
*** Sample ID:				Seq: 28	12:31:04 02 Apr 13	HG		
				240-22471-D-12-D				
Hg	.0948	ppb	.0000	.0948				
*** Sample ID:				Seq: 29	12:32:21 02 Apr 13	HG		
				240-22471-D-13-D				
Hg	.0918	ppb	.0000	.0918				
*** Sample ID:				Seq: 30	12:34:39 02 Apr 13	HG		
				240-22410-B-31-B				
Hg	.1572	ppb	.0000	.1572				
*** Sample ID:				Seq: 31	12:37:52 02 Apr 13	HG		
				240-22410-B-32-B				
Hg	-.0083	ppb	.0000	-.0083				
*** Sample ID:				Seq: 32	12:39:13 02 Apr 13	HG		
				240-22410-B-33-B				
Hg	.0361	ppb	.0000	.0361				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 33	12:40:34 02 Apr 13	HG		
				240-22410-B-34-B				
Hg	.0308	ppb	.0000	.0308				
*** Check Standard: 6 Ck6CCV				Seq: 34	12:41:51 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.1	5.056	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 35	12:43:08 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0514	.2000	ppb	.0000			
*** Sample ID:				Seq: 36	12:44:28 02 Apr 13	HG		
				240-22474-E-19-G				
Hg	.4054	ppb	.0000	.4054				
*** Sample ID:				Seq: 37	12:45:47 02 Apr 13	HG		
				240-22474-E-20-E				
Hg	.4322	ppb	.0000	.4322				
*** Sample ID:				Seq: 38	12:47:17 02 Apr 13	HG		
				240-22474-E-21-E				
Hg	.2330	ppb	.0000	.2330				
*** Sample ID:				Seq: 39	12:48:48 02 Apr 13	HG		
				240-22474-E-22-E				
Hg	.1804	ppb	.0000	.1804				
*** Sample ID:				Seq: 40	12:50:45 02 Apr 13	HG		
				LB 240-79835/1-C				
Hg	-.0439	ppb	.0000	-.0439				
*** Sample ID:				Seq: 41	12:52:22 02 Apr 13	HG		
				MB 240-80140/2-A				
Hg	-.0115	ppb	.0000	-.0115				
*** Sample ID:				Seq: 42	12:53:41 02 Apr 13	HG		
				LCS 240-80140/3-A				
Hg	4.741	ppb	.0000	4.741				
*** Sample ID:				Seq: 43	12:55:21 02 Apr 13	HG		
				460-52889-E-2-E				
Hg	-.0603	ppb	.0000	-.0603				
*** Sample ID:				Seq: 44	12:56:38 02 Apr 13	HG		
				460-52889-E-2-F MS				
Hg	4.554	ppb	.0000	4.554				
*** Sample ID:				Seq: 45	12:58:17 02 Apr 13	HG		
				460-52889-E-2-G MSD				
Hg	4.724	ppb	.0000	4.724				
*** Check Standard: 6 Ck6CCV				Seq: 46	12:59:59 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.8	5.040	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 47	13:01:34 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.0039	.2000	ppb	.0000			
*** Sample ID:				Seq: 48	13:03:34 02 Apr 13	HG		
				460-52889-D-3-C				
Hg	-.0464	ppb	.0000	-.0464				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 49 13:05:45 02 Apr 13 HG
MB 240-80092/1-A
Hg -.0363 ppb .0000 -.0363

*** Sample ID: Seq: 50 13:07:13 02 Apr 13 HG
LCS 240-80092/2-A
Hg 4.712 ppb .0000 4.712

*** Sample ID: Seq: 51 13:08:31 02 Apr 13 HG
240-22609-C-1-B
Hg .0047 ppb .0000 .0047

*** Sample ID: Seq: 52 13:09:48 02 Apr 13 HG
240-22609-C-1-C MS
Hg .9894 ppb .0000 .9894

*** Sample ID: Seq: 53 13:11:06 02 Apr 13 HG
240-22609-C-1-D MSD
Hg 1.013 ppb .0000 1.013

*** Sample ID: Seq: 54 13:12:37 02 Apr 13 HG
240-22609-C-2-B
Hg .0279 ppb .0000 .0279

*** Sample ID: Seq: 55 13:13:54 02 Apr 13 HG
240-22609-C-4-B
Hg .0405 ppb .0000 .0405

*** Sample ID: Seq: 56 13:15:44 02 Apr 13 HG
240-22609-C-5-B
Hg .0420 ppb .0000 .0420

*** Sample ID: Seq: 57 13:17:02 02 Apr 13 HG
240-22609-C-6-B
Hg .0224 ppb .0000 .0224

*** Check Standard: 6 Ck6CCV Seq: 58 13:18:20 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.056	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 59 13:19:35 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0622	.2000	ppb	.0000

*** Sample ID: Seq: 60 13:21:13 02 Apr 13 HG
240-22609-C-7-B
Hg .0748 ppb .0000 .0748

*** Sample ID: Seq: 61 13:22:34 02 Apr 13 HG
240-22609-C-8-B
Hg .0661 ppb .0000 .0661

*** Sample ID: Seq: 62 13:23:54 02 Apr 13 HG
240-22609-C-9-B
Hg .0216 ppb .0000 .0216

*** Sample ID: Seq: 63 13:25:12 02 Apr 13 HG
240-22535-D-1-B
Hg .1720 ppb .0000 .1720

*** Check Standard: 6 Ck6CCV Seq: 64 13:27:08 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.053	5.000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1CCB Seq: 65 13:28:27 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0485	.2000	ppb	.0000

*** Sample ID: Seq: 66 13:29:44 02 Apr 13 HG
240-22410-B-58-B

Hg	-.0247	ppb	.0000	-.0247

*** Sample ID: Seq: 67 13:31:19 02 Apr 13 HG
240-22410-B-59-B

Hg	-.0026	ppb	.0000	-.0026

*** Sample ID: Seq: 68 13:32:37 02 Apr 13 HG
240-22410-B-60-B

Hg	-.0397	ppb	.0000	-.0397

*** Sample ID: Seq: 69 13:34:23 02 Apr 13 HG
240-22410-B-75-B

Hg	.3131	ppb	.0000	.3131

*** Sample ID: Seq: 70 13:35:40 02 Apr 13 HG
240-22410-B-97-C

Hg	1.340	ppb	.0000	1.340

*** Sample ID: Seq: 71 13:36:57 02 Apr 13 HG
240-22410-B-98-C

Hg	1.352	ppb	.0000	1.352

*** Sample ID: Seq: 72 13:38:25 02 Apr 13 HG
240-22410-B-99-C

Hg	.9023	ppb	.0000	.9023

*** Check Standard: 6 Ck6CCV Seq: 73 13:40:38 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.042	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 74 13:41:53 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0224	.2000	ppb	.0000

*** Sample ID: Seq: 75 13:43:29 02 Apr 13 HG
240-22410-B-73-B@20

Hg	2.935	ppb	.0000	2.935

*** Sample ID: Seq: 76 13:44:55 02 Apr 13 HG
MB 240-79782/1-A

Hg	-.0230	ppb	.0000	-.0230

*** Sample ID: Seq: 77 13:46:14 02 Apr 13 HG
LCS 240-79782/2-A

Hg	4.926	ppb	.0000	4.926

*** Sample ID: Seq: 78 13:47:34 02 Apr 13 HG
240-22141-B-23-B

Hg	.0407	ppb	.0000	.0407

*** Sample ID: Seq: 79 13:49:01 02 Apr 13 HG
240-22141-B-23-C MS

Hg	1.034	ppb	.0000	1.034

*** Sample ID: Seq: 80 13:50:17 02 Apr 13 HG
240-22141-B-23-D DU

Hg	.0630	ppb	.0000	.0630

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 81	13:51:44 02 Apr 13	HG		
				240-22141-B-24-B				
Hg	.0476	ppb	.0000	.0476				
*** Sample ID:				Seq: 82	13:52:59 02 Apr 13	HG		
				240-22141-B-25-B				
Hg	.0298	ppb	.0000	.0298				
*** Sample ID:				Seq: 83	13:54:14 02 Apr 13	HG		
				240-22141-B-26-B				
Hg	.0108	ppb	.0000	.0108				
*** Sample ID:				Seq: 84	13:57:00 02 Apr 13	HG		
				240-22141-B-27-B				
Hg	.0699	ppb	.0000	.0699				

*** Check Standard: 6 Ck6CCV			Seq: 85	13:58:22 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		100.2	5.012	5.000	ppb	.0000	
*** Check Standard: 1 Ck1CCB			Seq: 86	13:59:39 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD		
Hg		-.0401	.2000	ppb	.0000		
*** Sample ID:				Seq: 87	14:01:07 02 Apr 13	HG	
				240-22141-B-30-B			
Hg	1.894	ppb	.0000	1.894			
*** Sample ID:				Seq: 88	14:02:23 02 Apr 13	HG	
				240-22141-B-31-B			
Hg	.2279	ppb	.0000	.2279			
*** Sample ID:				Seq: 89	14:03:40 02 Apr 13	HG	
				240-22274-B-7-B			
Hg	.0447	ppb	.0000	.0447			
*** Sample ID:				Seq: 90	14:04:58 02 Apr 13	HG	
				240-22274-B-8-B			
Hg	.0009	ppb	.0000	.0009			
*** Sample ID:				Seq: 91	14:06:15 02 Apr 13	HG	
				240-22274-B-9-B			
Hg	.0457	ppb	.0000	.0457			
*** Sample ID:				Seq: 92	14:07:44 02 Apr 13	HG	
				240-22274-B-10-B			
Hg	.0687	ppb	.0000	.0687			
*** Sample ID:				Seq: 93	14:09:02 02 Apr 13	HG	
				240-22274-B-11-B			
Hg	.0392	ppb	.0000	.0392			
*** Sample ID:				Seq: 94	14:10:18 02 Apr 13	HG	
				240-22274-B-12-B			
Hg	.0941	ppb	.0000	.0941			
*** Sample ID:				Seq: 95	14:11:34 02 Apr 13	HG	
				240-22274-B-13-B			
Hg	.0716	ppb	.0000	.0716			
*** Sample ID:				Seq: 96	14:12:50 02 Apr 13	HG	
				240-22274-B-16-B			
Hg	.1017	ppb	.0000	.1017			

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 97 14:14:09 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.9	5.043	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 98 14:15:26 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0447	.2000	ppb	.0000

*** Sample ID: Seq: 99 14:16:43 02 Apr 13 HG
240-22274-B-17-B

Hg	.0396	ppb	.0000	.0396

*** Sample ID: Seq: 100 14:18:02 02 Apr 13 HG
240-22274-B-18-B

Hg	.1417	ppb	.0000	.1417

*** Sample ID: Seq: 101 14:19:28 02 Apr 13 HG
240-22274-B-19-B

Hg	.0769	ppb	.0000	.0769

*** Sample ID: Seq: 102 14:20:44 02 Apr 13 HG
240-22274-B-20-B

Hg	.0828	ppb	.0000	.0828

*** Sample ID: Seq: 103 14:22:05 02 Apr 13 HG
240-22274-B-21-B

Hg	.0407	ppb	.0000	.0407

*** Sample ID: Seq: 104 14:23:27 02 Apr 13 HG
MB 240-79941/1-A

Hg	-.0216	ppb	.0000	-.0216

*** Sample ID: Seq: 105 14:24:49 02 Apr 13 HG
LCS 240-79941/2-A

Hg	4.933	ppb	.0000	4.933

*** Sample ID: Seq: 106 14:27:00 02 Apr 13 HG
240-22274-B-22-B

Hg	.1063	ppb	.0000	.1063

*** Sample ID: Seq: 107 14:28:37 02 Apr 13 HG
240-22274-B-22-C DU

Hg	.0985	ppb	.0000	.0985

*** Sample ID: Seq: 108 14:30:24 02 Apr 13 HG
240-22274-B-22-D MS

Hg	1.060	ppb	.0000	1.060

Rerun cup empty

*** Check Standard: 6 Ck6CCV Seq: 109 14:31:41 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	L	24.03	1.201	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 110 14:33:37 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0813	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 111 14:38:17 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.5	5.074	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 112 14:39:44 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0516	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 113 14:41:20 02 Apr 13 HG
240-22274-B-25-B
Hg .1044 ppb .0000 .1044

*** Sample ID: Seq: 114 14:42:50 02 Apr 13 HG
240-22274-B-26-B
Hg .0089 ppb .0000 .0089

*** Sample ID: Seq: 115 14:44:16 02 Apr 13 HG
240-22274-B-27-B
Hg .0847 ppb .0000 .0847

*** Sample ID: Seq: 116 14:45:33 02 Apr 13 HG
240-22274-B-28-B
Hg .0281 ppb .0000 .0281

*** Sample ID: Seq: 117 14:47:00 02 Apr 13 HG
240-22274-B-29-B
Hg .0849 ppb .0000 .0849

*** Sample ID: Seq: 118 14:48:36 02 Apr 13 HG
240-22274-B-30-B
Hg .0508 ppb .0000 .0508

*** Sample ID: Seq: 119 14:49:54 02 Apr 13 HG
240-22274-B-31-B
Hg .0962 ppb .0000 .0962

*** Sample ID: Seq: 120 14:51:22 02 Apr 13 HG
240-22274-B-34-B
Hg .2025 ppb .0000 .2025

*** Sample ID: Seq: 121 14:52:39 02 Apr 13 HG
240-22274-B-35-B
Hg .2536 ppb .0000 .2536

*** Sample ID: Seq: 122 14:54:31 02 Apr 13 HG
240-22281-B-1-B
Hg .0958 ppb .0000 .0958

*** Check Standard: 6 Ck6CCV Seq: 123 14:56:57 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.056	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 124 14:58:45 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0437	.2000	ppb	.0000

*** Sample ID: Seq: 125 15:00:03 02 Apr 13 HG
240-22281-B-3-B
Hg .0813 ppb .0000 .0813

*** Sample ID: Seq: 126 15:02:21 02 Apr 13 HG
240-22281-B-4-B
Hg .0399 ppb .0000 .0399

*** Sample ID: Seq: 127 15:03:37 02 Apr 13 HG
240-22281-B-6-B
Hg .0996 ppb .0000 .0996

*** Sample ID: Seq: 128 15:04:55 02 Apr 13 HG
240-22281-B-7-B
Hg .0359 ppb .0000 .0359

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 129	15:07:04 02 Apr 13	HG		
				240-22281-B-8-B				
Hg	.0407	ppb	.0000	.0407				
*** Sample ID:				Seq: 130	15:08:32 02 Apr 13	HG		
				240-22281-B-9-B				
Hg	.0197	ppb	.0000	.0197				
*** Sample ID:				Seq: 131	15:09:52 02 Apr 13	HG		
				240-22281-B-10-B				
Hg	.0256	ppb	.0000	.0256				
*** Sample ID:				Seq: 132	15:11:09 02 Apr 13	HG		
				240-22281-B-11-B				
Hg	.0882	ppb	.0000	.0882				
*** Sample ID:				Seq: 133	15:12:57 02 Apr 13	HG		
				240-22281-B-17-A				
Hg	.3297	ppb	.0000	.3297				
*** Sample ID:				Seq: 134	15:14:48 02 Apr 13	HG		
				MB 240-80130/1-A				
Hg	-.0371	ppb	.0000	-.0371				
*** Check Standard: 6 Ck6CCV				Seq: 135	15:16:15 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.2	5.061	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 136	15:17:43 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0352	.2000	ppb	.0000			
*** Sample ID:				Seq: 137	15:19:02 02 Apr 13	HG		
				LCS 240-80130/2-A				
Hg	4.857	ppb	.0000	4.857				
*** Sample ID:				Seq: 138	15:20:31 02 Apr 13	HG		
				240-22281-B-20-B				
Hg	.1295	ppb	.0000	.1295				
*** Sample ID:				Seq: 139	15:21:52 02 Apr 13	HG		
				240-22281-B-20-C DU				
Hg	.0754	ppb	.0000	.0754				
*** Sample ID:				Seq: 140	15:23:09 02 Apr 13	HG		
				240-22281-B-20-D MS				
Hg	1.026	ppb	.0000	1.026				
*** Sample ID:				Seq: 141	15:24:26 02 Apr 13	HG		
				240-22281-B-22-B				
Hg	.0354	ppb	.0000	.0354				
*** Sample ID:				Seq: 142	15:26:17 02 Apr 13	HG		
				240-22281-B-23-B				
Hg	.0853	ppb	.0000	.0853				
*** Sample ID:				Seq: 143	15:27:46 02 Apr 13	HG		
				240-22281-B-25-B				
Hg	.1192	ppb	.0000	.1192				
*** Sample ID:				Seq: 144	15:29:14 02 Apr 13	HG		
				240-22281-B-26-B				
Hg	.0064	ppb	.0000	.0064				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 145 15:30:37 02 Apr 13 HG
240-22281-B-27-B

Hg	.1084	ppb	.0000	.1084

*** Sample ID: Seq: 146 15:32:26 02 Apr 13 HG
240-22281-B-28-B

Hg	.0380	ppb	.0000	.0380

*** Check Standard: 6 Ck6CCV Seq: 147 15:33:54 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.0	5.052	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 148 15:35:39 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0119	.2000	ppb	.0000

*** Sample ID: Seq: 149 15:36:55 02 Apr 13 HG
240-22281-B-29-B

Hg	.0302	ppb	.0000	.0302

*** Sample ID: Seq: 150 15:38:17 02 Apr 13 HG
240-22281-B-30-B

Hg	.0609	ppb	.0000	.0609

*** Sample ID: Seq: 151 15:40:45 02 Apr 13 HG
240-22281-B-31-B

Hg	.2761	ppb	.0000	.2761

*** Sample ID: Seq: 152 15:42:06 02 Apr 13 HG
240-22281-B-32-B

Hg	.0744	ppb	.0000	.0744

*** Sample ID: Seq: 153 15:43:28 02 Apr 13 HG
240-22281-B-33-B

Hg	.1124	ppb	.0000	.1124

*** Sample ID: Seq: 154 15:45:11 02 Apr 13 HG
240-22281-B-34-B

Hg	.2895	ppb	.0000	.2895

*** Sample ID: Seq: 155 15:46:38 02 Apr 13 HG
240-22281-B-35-B

Hg	.1778	ppb	.0000	.1778

*** Sample ID: Seq: 156 15:48:21 02 Apr 13 HG
240-22281-B-36-B

Hg	.0453	ppb	.0000	.0453

*** Sample ID: Seq: 157 15:49:39 02 Apr 13 HG
240-22281-B-37-B

Hg	.0990	ppb	.0000	.0990

*** Sample ID: Seq: 158 15:51:00 02 Apr 13 HG
240-22281-B-38-B

Hg	.0516	ppb	.0000	.0516

*** Check Standard: 6 Ck6CCV Seq: 159 15:52:33 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.3	5.063	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 160 15:54:54 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0056	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 161 15:56:35 02 Apr 13 HG
240-22281-B-39-B

Hg	.0327	ppb	.0000	.0327				

*** Sample ID: Seq: 162 15:58:13 02 Apr 13 HG
240-22281-B-18-A

Hg	.2321	ppb	.0000	.2321				

*** Sample ID: Seq: 163 15:59:40 02 Apr 13 HG
240-22281-B-19-A

Hg	.1600	ppb	.0000	.1600				

*** Sample ID: Seq: 164 16:00:57 02 Apr 13 HG
Ck4CRA/MRL

Hg	.1957	ppb	.0000	.1957				

*** Sample ID: Seq: 165 16:02:23 02 Apr 13 HG
Ck4CRA/MRL

Hg	.1835	ppb	.0000	.1835				

*** Check Standard: 6 Ck6CCV Seq: 166 16:03:44 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.039	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 167 16:05:23 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0331	.2000	ppb	.0000

Dilution Corrected Concentrations

STD1 787361 INT STD 4/10/2013 7:50:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	99.064%	0.032	-0.204	-0.044	0.000	0.578	0.054	-0.090
2	19:52:07	99.679%	-0.033	0.012	-0.035	0.000	0.063	-0.050	0.129
3	19:52:50	101.257%	0.001	0.192	0.079	0.000	-0.640	-0.004	-0.039
x		100.000%	0.000	-0.000	0.000	0.000	-0.000	0.000	-0.000
σ		1.131%	0.032	0.198	0.069	0.000	0.611	0.052	0.114
%RSD		1.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	-0.021	1.055	0.000	2.501	-2.557	3.652	98.828%	0.023
2	19:52:07	0.032	-5.483	0.000	-0.826	2.825	-0.050	100.708%	-0.003
3	19:52:50	-0.011	4.428	0.000	-1.675	-0.268	-3.602	100.465%	-0.020
x		-0.000	-0.000	0.000	-0.000	0.000	0.000	100.000%	-0.000
σ		0.028	5.039	0.000	2.207	2.701	3.627	1.023%	0.022
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	1.023	0.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	0.003	0.016	0.001	0.465	0.037	-0.002	0.021	-0.002
2	19:52:07	-0.024	-0.034	-0.002	-0.306	-0.634	0.002	-0.027	0.026
3	19:52:50	0.021	0.017	0.001	-0.159	0.597	0.000	0.005	-0.024
x		0.000	-0.000	-0.000	0.000	-0.000	0.000	0.000	-0.000
σ		0.022	0.029	0.002	0.409	0.617	0.002	0.024	0.025
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	-0.014	-0.001	0.001	-0.060	0.025	-0.327	0.000	-0.000
2	19:52:07	0.015	0.010	0.024	0.012	-0.057	0.038	0.000	0.000
3	19:52:50	-0.001	-0.009	-0.025	0.048	0.032	0.289	0.000	-0.000
x		-0.000	-0.000	0.000	0.000	0.000	-0.000	0.000	0.000
σ		0.015	0.010	0.024	0.055	0.049	0.310	0.000	0.000
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	98.800%	0.004	0.018	98.998%	-0.002	-0.000	-0.015	-0.011
2	19:52:07	100.407%	0.012	0.003	100.039%	0.002	0.005	0.053	0.039
3	19:52:50	100.793%	-0.016	-0.021	100.963%	0.000	-0.005	-0.038	-0.027
x		100.000%	-0.000	0.000	100.000%	-0.000	-0.000	0.000	-0.000
σ		1.057%	0.014	0.019	0.983%	0.002	0.005	0.047	0.034
%RSD		1.057	0.000	0.000	0.983	0.000	0.000	0.000	0.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	99.004%	-0.000	0.004	0.000	0.000	-0.001	98.940%	98.688%
2	19:52:07	100.209%	0.002	-0.003	0.005	-0.005	0.001	100.057%	100.096%
3	19:52:50	100.787%	-0.002	-0.001	-0.005	0.005	0.000	101.004%	101.215%
x		100.000%	-0.000	-0.000	0.000	0.000	0.000	100.000%	100.000%
σ		0.909%	0.002	0.003	0.005	0.005	0.001	1.033%	1.266%
%RSD		0.909	0.000	0.000	0.000	0.000	0.000	1.033	1.266

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:24	0.001	-0.000	0.007	0.001	0.002	99.114%
2	19:52:07	0.000	-0.000	-0.004	-0.001	-0.002	100.323%
3	19:52:50	-0.001	0.001	-0.003	-0.000	0.000	100.563%
x		-0.000	-0.000	-0.000	-0.000	-0.000	100.000%
σ		0.001	0.000	0.006	0.001	0.002	0.777%
%RSD		0.000	0.000	0.000	0.000	0.000	0.777

STD2 781421 4/10/2013 7:55:32 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	92.463%	198.900	0.417	1.152	0.000	99590.000	99480.000	99640.000
2	19:56:58	93.397%	199.100	0.705	1.075	0.000	99410.000	99800.000	99450.000
3	19:57:41	92.359%	202.000	0.392	0.945	0.000	101000.000	100700.000	100900.000
x		92.739%	200.000	0.505	1.057	0.000	100000.000	100000.000	100000.000
σ		0.571%	1.774	0.174	0.105	0.000	865.300	645.800	789.800
%RSD		0.616	0.887	34.430	9.913	0.000	0.865	0.646	0.790

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	997.800	28.440	0.000	99550.000	100000.000	100300.000	92.152%	0.201
2	19:56:58	993.900	5.829	0.000	100600.000	99970.000	100100.000	93.035%	0.181
3	19:57:41	1008.000	7.484	0.000	99880.000	99990.000	99580.000	94.376%	0.186
x		1000.000	13.920	0.000	100000.000	100000.000	100000.000	93.188%	0.189
σ		7.426	12.600	0.000	514.300	41.400	377.000	1.120%	0.011
%RSD		0.743	90.550	0.000	0.514	0.041	0.377	1.202	5.662

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	198.700	198.900	997.600	50080.000	50030.000	199.700	200.700	200.000
2	19:56:58	200.800	200.600	1002.000	50140.000	50050.000	200.000	198.600	199.600
3	19:57:41	200.400	200.500	1001.000	49780.000	49920.000	200.200	200.700	200.500
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		1.121	0.980	2.124	191.800	68.900	0.246	1.217	0.447
%RSD		0.560	0.490	0.212	0.384	0.138	0.123	0.609	0.224

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	200.600	201.000	199.800	197.900	196.300	195.800	0.000	200.100
2	19:56:58	200.100	199.800	200.000	201.500	200.400	202.900	0.000	199.100
3	19:57:41	199.200	199.300	200.200	200.600	203.300	201.300	0.000	200.800
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		0.706	0.890	0.184	1.874	3.519	3.740	0.000	0.857
%RSD		0.353	0.445	0.092	0.937	1.759	1.870	0.000	0.429

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	93.351%	0.194	0.177	89.221%	198.600	199.600	199.400	200.000
2	19:56:58	94.679%	0.223	0.177	89.957%	201.000	199.800	200.300	199.800
3	19:57:41	94.715%	0.318	0.216	90.596%	200.400	200.600	200.300	200.200
x		94.248%	0.245	0.190	89.925%	200.000	200.000	200.000	200.000
σ		0.777%	0.065	0.022	0.688%	1.291	0.568	0.550	0.202
%RSD		0.825	26.420	11.630	0.765	0.645	0.284	0.275	0.101

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	92.840%	0.133	0.136	0.136	199.800	200.400	95.488%	96.204%
2	19:56:58	93.841%	0.139	0.109	0.116	200.500	200.000	96.467%	97.299%
3	19:57:41	94.622%	0.151	0.133	0.109	199.800	199.500	97.401%	98.435%
x		93.768%	0.141	0.126	0.120	200.000	200.000	96.452%	97.312%
σ		0.893%	0.009	0.015	0.014	0.395	0.457	0.956%	1.116%
%RSD		0.952	6.323	11.820	11.590	0.197	0.228	0.992	1.147

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:15	198.200	197.600	197.400	197.800	196.900	93.255%
2	19:56:58	201.300	201.000	200.900	200.900	201.100	93.259%
3	19:57:41	200.600	201.400	201.700	201.400	201.900	93.449%
x		200.000	200.000	200.000	200.000	200.000	93.321%
σ		1.620	2.053	2.279	1.961	2.679	0.111%
%RSD		0.810	1.026	1.140	0.981	1.340	0.119

STD3 781422 4/10/2013 8:00:19 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	92.038%	0.081	199.500	200.800	0.000	117.300	43.680	44.640
2	20:01:44	93.718%	0.096	200.600	198.700	0.000	117.600	45.060	44.090
3	20:02:27	94.056%	0.127	199.900	200.500	0.000	117.200	41.860	43.850
x		93.271%	0.101	200.000	200.000	0.000	117.300	43.530	44.200
σ		1.081%	0.024	0.563	1.143	0.000	0.189	1.607	0.407
%RSD		1.159	23.290	0.281	0.571	0.000	0.161	3.691	0.920

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	11.860	10090.000	0.000	87.090	45.180	96.420	95.137%	201.000
2	20:01:44	12.330	9933.000	0.000	79.610	74.440	103.300	96.479%	200.000
3	20:02:27	12.140	9981.000	0.000	70.240	59.170	92.170	97.563%	199.000
x		12.110	10000.000	0.000	78.980	59.590	97.290	96.393%	200.000
σ		0.239	78.190	0.000	8.443	14.630	5.616	1.215%	1.041
%RSD		1.976	0.782	0.000	10.690	24.550	5.772	1.261	0.521

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	0.132	0.051	0.782	38.690	35.760	0.109	0.176	0.238
2	20:01:44	0.108	0.052	0.768	35.870	33.110	0.092	0.173	0.278
3	20:02:27	0.100	0.028	0.759	34.920	30.600	0.104	0.217	0.247
x		0.113	0.044	0.769	36.490	33.160	0.102	0.189	0.254
σ		0.017	0.014	0.012	1.964	2.581	0.009	0.025	0.021
%RSD		15.000	31.590	1.494	5.383	7.784	8.827	13.140	8.184

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	0.229	1.032	0.996	0.414	0.985	0.852	0.000	0.377
2	20:01:44	0.235	1.091	1.083	0.382	0.882	1.019	0.000	0.385
3	20:02:27	0.251	1.062	1.097	0.277	0.571	0.588	0.000	0.379
x		0.238	1.062	1.059	0.358	0.813	0.820	0.000	0.380
σ		0.011	0.029	0.055	0.071	0.215	0.218	0.000	0.004
%RSD		4.669	2.765	5.209	19.980	26.480	26.550	0.000	1.021

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	95.530%	197.000	197.500	95.889%	0.135	0.153	0.204	-0.338
2	20:01:44	97.069%	201.300	200.700	96.501%	0.155	0.171	0.132	-0.333
3	20:02:27	97.501%	201.700	201.800	96.896%	0.154	0.164	0.149	-0.358
x		96.700%	200.000	200.000	96.429%	0.148	0.163	0.162	-0.343
σ		1.036%	2.627	2.246	0.507%	0.011	0.009	0.038	0.013
%RSD		1.071	1.314	1.123	0.526	7.411	5.413	23.260	3.756

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	96.249%	199.700	199.100	199.100	0.269	0.401	95.926%	96.054%
2	20:01:44	97.432%	199.800	200.300	200.300	0.284	0.403	97.800%	98.314%
3	20:02:27	98.035%	200.500	200.600	200.600	0.263	0.366	98.843%	98.800%
x		97.239%	200.000	200.000	200.000	0.272	0.390	97.523%	97.723%
σ		0.908%	0.420	0.791	0.830	0.011	0.020	1.478%	1.466%
%RSD		0.934	0.210	0.396	0.415	4.020	5.244	1.516	1.500

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:02	0.074	0.069	0.118	0.114	0.119	96.976%
2	20:01:44	0.071	0.074	0.130	0.122	0.120	97.834%
3	20:02:27	0.084	0.072	0.115	0.111	0.115	98.524%
x		0.076	0.072	0.121	0.115	0.118	97.778%
σ		0.007	0.003	0.008	0.006	0.003	0.776%
%RSD		8.758	3.666	6.584	4.883	2.481	0.793

ICV 768044 4/10/2013 8:05:06 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	95.238%	78.340	81.480	81.450	0.000	40030.000	39550.000	39370.000
2	20:06:32	97.948%	76.290	79.380	79.460	0.000	38830.000	38110.000	37890.000
3	20:07:15	96.520%	79.540	84.390	84.770	0.000	40680.000	40060.000	40100.000
x		96.569%	97.571%	102.187%	102.366%	0.000	99.619%	98.092%	97.797%
σ		1.356%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.404	2.111	3.077	3.280	0.000	2.347	2.580	2.880

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	404.400	4568.000	0.000	40790.000	40470.000	40630.000	91.757%	80.680
2	20:06:32	393.300	4426.000	0.000	39050.000	39130.000	39090.000	94.436%	80.350
3	20:07:15	415.500	4727.000	0.000	41840.000	41640.000	41950.000	92.044%	85.420
x		101.099%	114.347%	0.000	101.403%	101.034%	101.393%	92.745%	102.685%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.471%	n/a
%RSD		2.751	3.293	0.000	3.469	3.117	3.520	1.586	3.455

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	82.290	82.150	382.800	20200.000	19150.000	81.370	81.100	81.910
2	20:06:32	79.220	79.390	372.400	19580.000	18650.000	78.980	79.310	79.720
3	20:07:15	85.010	84.710	394.600	20840.000	19860.000	84.690	83.410	84.360
x		102.720%	102.605%	95.814%	101.029%	96.095%	102.102%	101.595%	102.496%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.524	3.236	2.897	3.103	3.170	3.510	2.529	2.829

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	81.160	83.380	83.860	79.460	79.650	78.650	0.000	78.480
2	20:06:32	79.520	81.250	82.230	77.240	77.760	75.410	0.000	76.580
3	20:07:15	83.970	86.350	86.320	80.460	82.870	82.140	0.000	82.000
x		101.938%	104.575%	105.170%	98.815%	100.114%	98.417%	0.000	98.775%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.763	3.065	2.446	2.086	3.229	4.274	0.000	3.483

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	95.507%	79.250	81.070	92.825%	78.220	78.480	77.860	77.410
2	20:06:32	97.817%	79.220	80.760	93.718%	77.260	77.120	76.460	75.830
3	20:07:15	94.520%	84.460	85.000	90.988%	81.820	81.740	80.640	80.340
x		95.948%	101.220%	102.846%	92.510%	98.873%	98.893%	97.901%	97.325%
σ		1.692%	n/a	n/a	1.392%	n/a	n/a	n/a	n/a
%RSD		1.763	3.722	2.871	1.504	3.042	3.002	2.713	2.937

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	97.613%	87.000	77.880	77.880	80.760	80.100	94.924%	95.485%
2	20:06:32	100.020%	84.240	76.370	76.010	78.490	78.490	98.389%	98.483%
3	20:07:15	97.790%	90.030	81.080	80.780	83.000	83.500	95.632%	95.857%
x		98.474%	108.862%	98.058%	97.780%	100.937%	100.873%	96.315%	96.608%
σ		1.341%	n/a	n/a	n/a	n/a	n/a	1.830%	1.634%
%RSD		1.362	3.320	3.067	3.073	2.790	3.169	1.900	1.691

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:49	80.970	81.280	80.070	82.750	81.110	96.669%
2	20:06:32	81.060	80.460	78.550	82.310	80.370	97.937%
3	20:07:15	85.740	85.920	84.210	87.230	85.790	94.820%
x		103.238%	103.194%	101.182%	105.119%	103.030%	96.475%
σ		n/a	n/a	n/a	n/a	n/a	1.567%
%RSD		3.302	3.566	3.617	3.240	3.563	1.625

ICB 4/10/2013 8:13:22 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	100.137%	0.018	0.291	0.568	0.000	0.044	0.683	0.700
2	20:14:48	101.749%	0.034	0.564	0.243	0.000	0.578	1.054	0.794
3	20:15:31	103.497%	-0.013	0.206	0.528	0.000	0.661	1.506	1.465
x		101.795%	0.013	0.354	0.446	0.000	0.427	1.081	0.986
σ		1.680%	0.024	0.187	0.177	0.000	0.335	0.412	0.417
%RSD		1.651	186.700	52.710	39.670	0.000	78.370	38.140	42.270

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	0.270	-59.740	0.000	16.870	5.865	-6.357	101.274%	-0.004
2	20:14:48	0.337	-39.240	0.000	13.600	6.480	-9.474	102.649%	-0.005
3	20:15:31	0.487	-44.860	0.000	11.720	0.299	-6.470	104.591%	0.001
x		0.365	-47.950	0.000	14.060	4.215	-7.434	102.838%	-0.003
σ		0.111	10.590	0.000	2.607	3.405	1.768	1.667%	0.003
%RSD		30.440	22.090	0.000	18.540	80.790	23.780	1.621	132.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	0.011	-0.033	0.032	-2.252	0.744	0.002	-0.014	0.027
2	20:14:48	0.001	-0.066	0.015	-3.312	-1.254	-0.005	0.034	0.028
3	20:15:31	0.007	-0.070	0.035	-3.348	-0.546	-0.003	-0.002	0.010
x		0.006	-0.056	0.027	-2.971	-0.352	-0.002	0.006	0.022
σ		0.005	0.020	0.011	0.623	1.013	0.004	0.025	0.010
%RSD		75.500	35.890	39.580	20.960	287.700	211.100	427.200	45.470

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	0.013	0.176	0.382	-0.132	0.064	-0.240	0.000	0.007
2	20:14:48	0.038	0.180	0.301	-0.042	0.137	-0.074	0.000	0.016
3	20:15:31	0.002	0.203	0.184	-0.091	0.077	-0.349	0.000	0.027
x		0.018	0.186	0.289	-0.088	0.093	-0.221	0.000	0.017
σ		0.018	0.014	0.099	0.045	0.039	0.139	0.000	0.010
%RSD		103.500	7.527	34.330	50.970	42.100	62.660	0.000	59.450

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	95.808%	0.122	0.121	96.776%	-0.008	-0.003	0.043	0.036
2	20:14:48	97.699%	0.094	0.105	97.668%	-0.007	-0.000	0.021	0.013
3	20:15:31	99.210%	0.076	0.091	99.247%	-0.005	-0.004	0.038	0.028
x		97.572%	0.097	0.106	97.897%	-0.007	-0.002	0.034	0.026
σ		1.704%	0.023	0.015	1.251%	0.002	0.002	0.012	0.012
%RSD		1.747	23.920	14.220	1.278	22.360	85.480	33.950	45.420

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	96.442%	0.016	-0.001	0.006	0.006	0.010	95.991%	96.442%
2	20:14:48	98.061%	0.014	0.006	0.008	0.003	0.001	98.083%	98.762%
3	20:15:31	99.222%	0.025	0.008	0.011	0.016	0.014	100.022%	100.140%
x		97.908%	0.019	0.004	0.008	0.008	0.009	98.032%	98.448%
σ		1.396%	0.006	0.004	0.002	0.007	0.007	2.016%	1.869%
%RSD		1.426	31.000	98.820	28.170	83.680	82.850	2.056	1.898

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:05	0.001	-0.000	0.009	0.011	0.012	97.495%
2	20:14:48	0.006	0.001	0.009	0.016	0.010	99.594%
3	20:15:31	0.005	0.003	0.011	0.012	0.010	101.558%
x		0.004	0.001	0.010	0.013	0.011	99.549%
σ		0.003	0.002	0.001	0.002	0.001	2.032%
%RSD		69.200	128.800	9.552	18.790	8.108	2.041

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:22:13	102.866%	1.081	6.205	6.838	0.000	93.380	94.990	98.610
2	20:22:56	103.052%	1.082	6.206	7.028	0.000	97.500	98.500	100.500
3	20:23:40	105.084%	0.841	6.578	6.649	0.000	93.540	95.930	98.830
x		103.667%	100.143%	126.591%	136.763%	0.000	94.806%	96.476%	99.301%
σ		1.231%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.187	13.840	3.395	2.774	0.000	2.462	1.885	1.022
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:22:13	31.600	419.400	0.000	118.100	109.200	107.900	96.061%	5.013
2	20:22:56	31.710	431.400	0.000	117.200	106.000	108.500	96.777%	5.145
3	20:23:40	31.590	401.900	0.000	116.600	102.000	103.900	97.394%	4.502
x		105.443%	83.517%	0.000	117.304%	105.722%	106.745%	96.744%	97.729%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.667%	n/a
%RSD		0.209	3.552	0.000	0.677	3.406	2.365	0.690	6.948
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:22:13	0.996	2.060	4.873	52.670	53.620	0.541	0.990	2.032
2	20:22:56	0.964	1.984	4.914	52.560	54.020	0.526	1.039	2.291
3	20:23:40	1.022	2.053	4.999	53.020	55.500	0.535	1.064	2.149
x		99.381%	101.607%	985.677%	105.499%	108.763%	106.776%	103.117%	107.864%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.933	2.061	1.301	0.452	1.818	1.402	3.630	6.027
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:22:13	2.020	5.397	5.250	0.999	5.179	4.898	0.000	5.054
2	20:22:56	2.146	5.218	5.216	1.084	5.179	5.386	0.000	5.127
3	20:23:40	2.114	5.280	5.263	0.978	4.922	4.546	0.000	5.138
x		104.651%	105.969%	104.858%	102.027%	101.867%	98.869%	0.000	102.128%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.133	1.718	0.468	5.535	2.905	8.538	0.000	0.897
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:22:13	92.820%	3.979	4.010	95.832%	1.023	0.962	1.148	1.062
2	20:22:56	93.822%	4.108	4.141	96.612%	0.979	0.987	1.124	1.042
3	20:23:40	94.485%	4.170	4.166	96.948%	0.952	1.024	1.008	1.019
x		93.709%	81.713%	82.113%	96.464%	98.452%	99.087%	109.325%	104.139%
σ		0.838%	n/a	n/a	0.572%	n/a	n/a	n/a	n/a
%RSD		0.894	2.380	2.044	0.593	3.670	3.121	6.854	2.059
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:22:13	94.748%	4.691	1.919	1.942	10.000	9.951	94.834%	95.740%
2	20:22:56	96.778%	4.760	1.954	1.898	10.160	9.858	97.717%	97.597%
3	20:23:40	97.498%	4.854	1.931	1.872	10.090	9.880	98.318%	98.086%
x		96.342%	95.361%	96.727%	95.199%	100.846%	98.963%	96.956%	97.141%
σ		1.426%	n/a	n/a	n/a	n/a	n/a	1.862%	1.237%
%RSD		1.480	1.717	0.942	1.855	0.778	0.494	1.921	1.274
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:22:13	0.947	0.963	0.973	1.004	0.986	96.086%		
2	20:22:56	0.970	0.946	0.988	1.016	0.979	97.443%		
3	20:23:40	0.987	0.963	0.993	1.032	1.012	98.245%		
x		96.791%	95.728%	98.451%	101.710%	99.204%	97.258%		
σ		n/a	n/a	n/a	n/a	n/a	1.091%		
%RSD		2.050	1.022	1.074	1.381	1.768	1.122		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	81.038%	0.012	2.385	2.976	0.000	93.180	134.200	136.200
2	20:30:59	81.468%	-0.014	2.798	3.136	0.000	98.720	137.300	137.200
3	20:31:42	81.314%	-0.009	3.291	3.150	0.000	105.800	136.600	136.200
x		81.273%	-0.004	2.825	3.087	0.000	99.230	136.000	136.500
σ		0.218%	0.014	0.454	0.097	0.000	6.317	1.625	0.611
%RSD		0.268	380.200	16.060	3.133	0.000	6.366	1.194	0.448

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	499500.000	38.440	0.000	102.600	349.800	148.500	78.388%	0.756
2	20:30:59	502000.000	48.310	0.000	110.500	315.000	137.800	78.100%	0.580
3	20:31:42	498100.000	35.480	0.000	115.300	328.900	150.300	77.886%	0.698
x		499900.000	40.750	0.000	109.400	331.200	145.500	78.125%	0.678
σ		1948.000	6.720	0.000	6.417	17.490	6.779	0.252%	0.090
%RSD		0.390	16.490	0.000	5.863	5.279	4.658	0.323	13.250

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	-614.400	20190.000	19350.000	469300.000	487100.000	8.536	10050.000	18620.000
2	20:30:59	-639.800	20180.000	19510.000	471000.000	487700.000	8.483	9991.000	18400.000
3	20:31:42	-648.600	20160.000	19520.000	472300.000	487900.000	8.524	9905.000	18330.000
x		-634.200	20180.000	19460.000	470900.000	487600.000	8.515	9984.000	18450.000
σ		17.740	16.160	92.670	1469.000	415.900	0.028	75.300	152.100
%RSD		2.798	0.080	0.476	0.312	0.085	0.327	0.754	0.825

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	20060.000	20830.000	20760.000	0.248	0.983	0.339	0.000	0.216
2	20:30:59	19870.000	20790.000	20840.000	0.306	1.449	0.419	0.000	0.239
3	20:31:42	19770.000	20660.000	20670.000	0.270	1.903	0.339	0.000	0.222
x		19900.000	20760.000	20760.000	0.275	1.445	0.366	0.000	0.226
σ		148.200	91.420	85.170	0.029	0.460	0.046	0.000	0.012
%RSD		0.745	0.440	0.410	10.730	31.810	12.660	0.000	5.333

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	79.886%	1.683	1.632	78.669%	0.235	0.237	0.035	0.040
2	20:30:59	80.923%	1.748	1.723	78.637%	0.241	0.244	0.032	0.031
3	20:31:42	81.482%	1.718	1.722	78.542%	0.237	0.225	0.060	0.055
x		80.764%	1.717	1.692	78.616%	0.238	0.235	0.042	0.042
σ		0.810%	0.032	0.052	0.066%	0.003	0.010	0.015	0.012
%RSD		1.003	1.882	3.079	0.084	1.299	4.240	36.120	28.080

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	83.591%	0.277	0.801	0.872	15200.000	15330.000	84.972%	85.101%
2	20:30:59	85.195%	0.285	0.824	0.813	15220.000	15320.000	85.951%	87.157%
3	20:31:42	86.193%	0.255	0.874	0.834	15110.000	15140.000	86.964%	87.651%
x		84.993%	0.272	0.833	0.840	15180.000	15260.000	85.962%	86.637%
σ		1.313%	0.015	0.037	0.030	59.330	105.900	0.996%	1.352%
%RSD		1.544	5.612	4.474	3.566	0.391	0.694	1.159	1.561

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:16	0.048	0.046	18880.000	20400.000	19630.000	85.473%
2	20:30:59	0.042	0.047	19180.000	20570.000	19850.000	85.278%
3	20:31:42	0.059	0.053	19490.000	20890.000	20140.000	84.479%
x		0.050	0.049	19190.000	20620.000	19880.000	85.077%
σ		0.009	0.004	303.600	247.500	258.300	0.527%
%RSD		17.810	8.143	1.582	1.200	1.299	0.619

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	90.826%	-0.020	1.571	1.403	0.000	493000.000	988100.000	985500.000
2	20:39:17	90.763%	-0.025	1.456	1.517	0.000	488500.000	983000.000	982600.000
3	20:40:00	89.534%	0.004	1.654	1.763	0.000	498700.000	1006000.000	999100.000
x		90.375%	-0.014	1.560	1.561	0.000	493400.000	992400.000	989100.000
σ		0.728%	0.015	0.099	0.184	0.000	5137.000	12070.000	8782.000
%RSD		0.806	114.000	6.358	11.770	0.000	1.041	1.216	0.888

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	52.760	334.100	0.000	482900.000	1071000.000	968600.000	95.944%	0.541
2	20:39:17	55.810	405.800	0.000	481200.000	1062000.000	967100.000	97.211%	0.609
3	20:40:00	54.920	446.200	0.000	487500.000	1072000.000	968700.000	97.702%	0.462
x		54.500	395.400	0.000	483900.000	1068000.000	968100.000	96.952%	0.537
σ		1.569	56.820	0.000	3218.000	5875.000	880.700	0.907%	0.073
%RSD		2.879	14.370	0.000	0.665	0.550	0.091	0.936	13.620

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	-0.008	2.192	2.233	62.740	1719.000	0.567	-8.499	3.481
2	20:39:17	-0.029	2.199	2.456	62.780	1721.000	0.583	-8.217	3.596
3	20:40:00	0.045	2.261	2.421	60.840	1794.000	0.559	-8.549	3.725
x		0.003	2.217	2.370	62.120	1744.000	0.570	-8.422	3.601
σ		0.038	0.038	0.120	1.111	43.050	0.012	0.179	0.122
%RSD		1370.000	1.718	5.071	1.789	2.468	2.158	2.129	3.392

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	2.862	3.809	3.279	0.340	5.455	1.596	0.000	37.400
2	20:39:17	3.067	3.563	3.453	0.239	9.574	1.034	0.000	37.580
3	20:40:00	3.088	3.474	3.224	0.268	14.810	1.182	0.000	37.830
x		3.006	3.615	3.319	0.282	9.948	1.271	0.000	37.600
σ		0.125	0.173	0.120	0.052	4.690	0.291	0.000	0.217
%RSD		4.154	4.793	3.606	18.480	47.150	22.910	0.000	0.576

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	97.600%	0.740	0.254	88.587%	0.077	0.083	0.046	0.019
2	20:39:17	99.353%	1.413	0.266	89.351%	0.094	0.103	0.102	0.072
3	20:40:00	98.266%	2.410	0.242	89.470%	0.093	0.083	0.053	0.047
x		98.406%	1.521	0.254	89.136%	0.088	0.089	0.067	0.046
σ		0.885%	0.840	0.012	0.479%	0.009	0.012	0.030	0.027
%RSD		0.899	55.240	4.690	0.538	10.570	13.110	45.450	57.970

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	93.187%	0.490	0.359	0.382	2.901	2.994	94.732%	94.518%
2	20:39:17	94.785%	0.543	0.374	0.386	3.026	2.818	94.674%	96.053%
3	20:40:00	94.009%	0.492	0.372	0.389	2.919	2.859	94.852%	94.609%
x		93.994%	0.508	0.368	0.386	2.948	2.890	94.752%	95.060%
σ		0.799%	0.030	0.008	0.003	0.068	0.092	0.091%	0.861%
%RSD		0.850	5.877	2.213	0.897	2.301	3.197	0.096	0.906

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:38:34	0.073	0.085	2.525	2.610	2.561	83.494%
2	20:39:17	0.093	0.077	2.534	2.728	2.648	83.138%
3	20:40:00	0.089	0.084	2.462	2.708	2.554	81.732%
x		0.085	0.082	2.507	2.682	2.587	82.788%
σ		0.011	0.004	0.040	0.063	0.052	0.932%
%RSD		12.380	5.379	1.578	2.342	2.017	1.126

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:46:50	91.488%	-0.002	0.038	-0.039	0.000	104900.000	104900.000	104400.000
2	20:47:33	91.261%	-0.021	-0.339	-0.013	0.000	103300.000	102800.000	102900.000
3	20:48:16	90.669%	-0.002	-0.081	0.197	0.000	104600.000	103500.000	103600.000
x		91.139%	-0.008	-0.127	0.048	0.000	104300.000	103700.000	103600.000
σ		0.422%	0.011	0.192	0.129	0.000	882.600	1112.000	776.600
%RSD		0.463	133.500	150.900	267.200	0.000	0.847	1.072	0.750
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:46:50	108100.000	-73.930	0.000	101000.000	98740.000	99400.000	102.122%	2121.000
2	20:47:33	107600.000	-84.960	0.000	99870.000	99210.000	98890.000	102.623%	2097.000
3	20:48:16	107600.000	-99.090	0.000	100200.000	100200.000	100100.000	101.228%	2116.000
x		107800.000	-85.990	0.000	100400.000	99370.000	99470.000	101.991%	2112.000
σ		276.800	12.610	0.000	560.800	719.300	617.000	0.706%	12.650
%RSD		0.257	14.670	0.000	0.559	0.724	0.620	0.693	0.599
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:46:50	-0.298	0.073	0.492	101900.000	102800.000	0.086	-0.227	1.694
2	20:47:33	-0.362	0.075	0.493	100800.000	101900.000	0.080	-0.370	1.598
3	20:48:16	-0.356	0.019	0.485	101600.000	102200.000	0.077	-0.304	1.685
x		-0.339	0.056	0.490	101500.000	102300.000	0.081	-0.300	1.659
σ		0.035	0.032	0.005	561.600	451.800	0.005	0.072	0.053
%RSD		10.480	56.970	0.960	0.553	0.442	5.728	23.850	3.185
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:46:50	1.508	3.033	2.396	0.172	12.440	0.474	0.000	5.085
2	20:47:33	1.441	2.986	2.308	0.242	12.420	0.790	0.000	5.141
3	20:48:16	1.305	3.050	2.543	0.102	12.610	-0.115	0.000	5.159
x		1.418	3.023	2.416	0.172	12.490	0.383	0.000	5.128
σ		0.103	0.033	0.119	0.070	0.104	0.459	0.000	0.038
%RSD		7.293	1.107	4.921	40.920	0.832	119.900	0.000	0.748
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:46:50	92.776%	2168.000	2316.000	96.206%	0.053	0.050	0.334	0.303
2	20:47:33	92.906%	2179.000	2320.000	95.317%	0.059	0.070	0.283	0.179
3	20:48:16	92.392%	2384.000	2357.000	94.606%	0.058	0.060	0.224	0.218
x		92.691%	2244.000	2331.000	95.376%	0.057	0.060	0.280	0.234
σ		0.267%	121.800	22.570	0.802%	0.003	0.010	0.055	0.063
%RSD		0.288	5.426	0.968	0.841	5.919	16.970	19.610	27.010
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:46:50	98.500%	0.150	0.296	0.298	0.312	0.382	99.914%	95.588%
2	20:47:33	98.426%	0.169	0.307	0.306	0.408	0.361	101.323%	96.385%
3	20:48:16	98.180%	0.158	0.282	0.311	0.372	0.414	101.248%	96.748%
x		98.369%	0.159	0.295	0.305	0.364	0.386	100.829%	96.240%
σ		0.167%	0.010	0.013	0.007	0.049	0.027	0.793%	0.593%
%RSD		0.170	6.199	4.235	2.179	13.440	6.901	0.786	0.617
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:46:50	0.026	0.018	0.254	0.299	0.266	98.011%		
2	20:47:33	0.020	0.019	0.291	0.264	0.271	97.235%		
3	20:48:16	0.019	0.016	0.267	0.287	0.263	97.025%		
x		0.022	0.018	0.271	0.283	0.267	97.424%		
σ		0.004	0.002	0.019	0.018	0.004	0.519%		
%RSD		16.680	9.185	7.057	6.282	1.536	0.533		

ICSAB 787359 4/10/2013 8:54:22 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	88.317%	22.060	52.270	53.490	0.000	111500.000	110600.000	110100.000
2	20:55:48	88.653%	21.470	55.110	53.110	0.000	110100.000	109600.000	109500.000
3	20:56:31	87.556%	21.820	53.160	52.760	0.000	111000.000	110300.000	110200.000
x		88.175%	108.919%	107.026%	106.241%	0.000	110.895%	110.165%	109.923%
σ		0.562%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.637	1.343	2.718	0.686	0.000	0.647	0.501	0.338
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	114900.000	448.700	0.000	109600.000	108500.000	109800.000	93.149%	2305.000
2	20:55:48	113700.000	418.600	0.000	108300.000	108700.000	109300.000	92.411%	2274.000
3	20:56:31	114800.000	417.300	0.000	109900.000	109700.000	110400.000	91.611%	2299.000
x		114.472%	85.643%	0.000	109.261%	108.988%	109.843%	92.390%	114.646%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.769%	n/a
%RSD		0.554	4.148	0.000	0.785	0.571	0.510	0.832	0.712
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	21.040	21.160	21.350	109100.000	110000.000	21.740	20.670	23.110
2	20:55:48	21.070	21.180	21.250	108600.000	109200.000	21.510	20.860	23.100
3	20:56:31	21.110	21.290	21.310	109600.000	110100.000	21.690	20.790	23.150
x		105.351%	106.039%	92.627%	109.111%	109.760%	108.234%	103.848%	115.595%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.167	0.321	0.239	0.445	0.484	0.543	0.460	0.102
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	23.070	25.320	24.560	22.900	65.210	55.540	0.000	26.950
2	20:55:48	22.350	24.950	24.480	22.950	66.810	56.460	0.000	26.600
3	20:56:31	22.750	25.040	24.670	22.390	67.190	56.720	0.000	27.230
x		113.610%	100.417%	98.281%	113.725%	132.807%	112.487%	0.000	134.627%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.604	0.779	0.373	1.354	1.588	1.102	0.000	1.174
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	93.890%	2165.000	2327.000	97.481%	20.150	20.450	21.360	21.180
2	20:55:48	94.844%	2172.000	2319.000	96.603%	20.360	20.610	20.810	21.230
3	20:56:31	93.606%	2379.000	2352.000	95.719%	20.650	20.620	21.480	21.410
x		94.113%	111.929%	116.646%	96.601%	101.939%	102.813%	106.073%	106.368%
σ		0.648%	n/a	n/a	0.881%	n/a	n/a	n/a	n/a
%RSD		0.689	5.442	0.745	0.912	1.233	0.464	1.681	0.580
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	95.782%	110.300	22.170	22.120	22.450	22.510	99.376%	94.767%
2	20:55:48	96.379%	109.400	22.050	21.820	21.830	21.670	101.178%	95.849%
3	20:56:31	96.657%	109.900	22.000	21.880	22.320	22.340	101.286%	96.074%
x		96.273%	109.892%	110.366%	109.705%	111.002%	110.867%	100.613%	95.563%
σ		0.447%	n/a	n/a	n/a	n/a	n/a	1.073%	0.699%
%RSD		0.465	0.425	0.412	0.717	1.487	1.989	1.066	0.732
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:55:05	21.460	21.330	21.970	21.870	21.830	97.032%		
2	20:55:48	21.960	21.800	22.310	22.410	22.270	96.631%		
3	20:56:31	22.300	22.300	22.500	22.490	22.420	96.525%		
x		109.544%	109.050%	111.299%	111.283%	110.878%	96.729%		
σ		n/a	n/a	n/a	n/a	n/a	0.267%		
%RSD		1.945	2.212	1.191	1.499	1.373	0.276		

CCV 781130 4/10/2013 9:02:37 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:03:20	93.094%	100.800	98.510	99.110	0.000	50240.000	50100.000	50300.000
2	21:04:03	94.521%	100.400	99.430	99.690	0.000	50210.000	50280.000	49910.000
3	21:04:46	93.579%	101.600	103.200	101.800	0.000	50630.000	50460.000	50330.000
x		93.732%	100.946%	100.387%	100.191%	0.000	100.722%	100.564%	100.354%
σ		0.726%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.774	0.628	2.485	1.404	0.000	0.470	0.356	0.464
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:03:20	506.500	5402.000	0.000	49600.000	48720.000	49250.000	98.629%	99.780
2	21:04:03	503.800	5344.000	0.000	49960.000	49360.000	49350.000	99.385%	100.100
3	21:04:46	504.900	5360.000	0.000	49910.000	49480.000	49490.000	100.063%	96.820
x		101.014%	107.372%	0.000	99.644%	98.378%	98.730%	99.359%	98.885%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.718%	n/a
%RSD		0.265	0.561	0.000	0.391	0.827	0.245	0.722	1.810
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:03:20	98.420	97.860	491.500	24950.000	24720.000	98.470	99.890	100.500
2	21:04:03	97.690	98.410	492.400	24870.000	24740.000	99.840	99.750	100.600
3	21:04:46	97.770	97.590	493.300	24850.000	24640.000	99.550	99.150	101.100
x		97.960%	97.953%	98.486%	99.556%	98.789%	99.288%	99.598%	100.752%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.413	0.429	0.183	0.228	0.220	0.731	0.393	0.325
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:03:20	100.300	99.630	98.840	98.210	99.640	97.530	0.000	98.400
2	21:04:03	100.400	98.540	100.400	98.390	99.650	97.030	0.000	98.620
3	21:04:46	98.910	99.440	98.160	98.150	100.100	97.570	0.000	99.170
x		99.876%	99.203%	99.118%	98.250%	99.790%	97.378%	0.000	98.729%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.842	0.590	1.141	0.128	0.250	0.310	0.000	0.399
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:03:20	98.191%	100.300	101.300	95.168%	98.700	98.860	97.500	97.840
2	21:04:03	99.764%	102.300	103.700	95.961%	98.270	98.180	97.830	97.490
3	21:04:46	99.962%	102.800	104.500	96.394%	99.300	98.620	98.560	98.210
x		99.306%	101.808%	103.155%	95.841%	98.756%	98.554%	97.961%	97.847%
σ		0.970%	n/a	n/a	0.622%	n/a	n/a	n/a	n/a
%RSD		0.977	1.342	1.586	0.649	0.526	0.347	0.552	0.370
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:03:20	98.038%	97.140	97.510	97.240	99.640	99.140	99.441%	99.914%
2	21:04:03	100.108%	97.530	96.850	96.840	98.920	98.980	101.374%	101.447%
3	21:04:46	99.986%	98.300	97.830	97.960	98.080	99.810	101.466%	102.539%
x		99.377%	97.656%	97.397%	97.345%	98.880%	99.313%	100.760%	101.300%
σ		1.162%	n/a	n/a	n/a	n/a	n/a	1.143%	1.319%
%RSD		1.169	0.602	0.516	0.587	0.789	0.442	1.135	1.302
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:03:20	98.320	97.320	96.970	97.610	97.580	96.444%		
2	21:04:03	98.960	99.300	98.900	98.770	98.770	97.465%		
3	21:04:46	99.960	99.450	98.930	99.740	99.350	97.955%		
x		99.081%	98.689%	98.266%	98.707%	98.569%	97.288%		
σ		n/a	n/a	n/a	n/a	n/a	0.771%		
%RSD		0.834	1.204	1.143	1.079	0.915	0.792		

CCB1 4/10/2013 9:10:51 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	108.866%	-0.024	-0.086	0.027	0.000	10.530	2.933	2.614
2	21:12:18	112.759%	-0.029	-0.178	-0.161	0.000	7.915	2.548	2.318
3	21:13:01	111.982%	0.013	-0.406	-0.206	0.000	8.927	2.588	2.671
x		111.202%	-0.013	-0.223	-0.114	0.000	9.124	2.690	2.534
σ		2.060%	0.023	0.165	0.124	0.000	1.319	0.212	0.190
%RSD		1.853	169.100	73.940	108.700	0.000	14.450	7.870	7.478

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	2.109	-20.330	0.000	30.160	12.010	-7.870	115.550%	0.071
2	21:12:18	2.038	-34.380	0.000	25.540	9.527	-3.932	119.099%	0.045
3	21:13:01	2.093	-23.800	0.000	23.860	12.750	-6.805	119.608%	0.024
x		2.080	-26.170	0.000	26.520	11.430	-6.203	118.085%	0.046
σ		0.038	7.318	0.000	3.259	1.686	2.037	2.211%	0.023
%RSD		1.804	27.960	0.000	12.290	14.760	32.840	1.872	50.520

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	0.021	-0.020	0.129	-2.013	2.250	-0.005	0.089	0.315
2	21:12:18	0.034	-0.005	0.116	-3.368	2.187	-0.003	0.068	0.284
3	21:13:01	0.024	-0.048	0.140	-3.650	1.625	-0.002	0.052	0.297
x		0.026	-0.024	0.128	-3.010	2.020	-0.003	0.069	0.299
σ		0.007	0.022	0.012	0.875	0.344	0.002	0.018	0.015
%RSD		25.460	90.300	9.449	29.070	17.020	51.720	26.620	5.179

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	0.274	1.957	2.101	-0.177	0.668	-0.944	0.000	0.034
2	21:12:18	0.247	2.050	2.111	-0.210	0.365	-0.923	0.000	0.035
3	21:13:01	0.298	2.133	2.121	-0.233	0.591	-1.017	0.000	0.037
x		0.273	2.047	2.111	-0.207	0.541	-0.961	0.000	0.035
σ		0.026	0.088	0.010	0.028	0.158	0.049	0.000	0.001
%RSD		9.453	4.314	0.465	13.760	29.140	5.139	0.000	4.217

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	111.774%	0.785	0.779	104.388%	-0.002	-0.004	-0.002	0.005
2	21:12:18	115.079%	0.617	0.704	107.275%	-0.002	-0.001	0.073	0.053
3	21:13:01	115.395%	0.677	0.655	107.304%	0.005	0.002	0.038	0.027
x		114.083%	0.693	0.713	106.322%	0.001	-0.001	0.037	0.028
σ		2.006%	0.085	0.063	1.675%	0.004	0.003	0.038	0.024
%RSD		1.758	12.280	8.790	1.576	664.400	271.900	102.400	85.970

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	103.293%	0.074	-0.004	-0.001	0.065	0.053	101.774%	101.618%
2	21:12:18	106.584%	0.069	-0.001	0.003	0.050	0.052	105.716%	105.322%
3	21:13:01	106.239%	0.076	-0.003	0.004	0.040	0.048	105.178%	105.489%
x		105.372%	0.073	-0.003	0.002	0.051	0.051	104.223%	104.143%
σ		1.809%	0.004	0.001	0.003	0.013	0.003	2.137%	2.188%
%RSD		1.717	5.596	52.290	141.400	24.320	5.061	2.051	2.101

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:11:34	0.027	0.021	0.052	0.054	0.053	102.327%
2	21:12:18	0.020	0.017	0.048	0.058	0.052	105.016%
3	21:13:01	0.014	0.013	0.053	0.046	0.057	104.895%
x		0.020	0.017	0.051	0.053	0.054	104.079%
σ		0.006	0.004	0.003	0.006	0.002	1.519%
%RSD		31.310	22.740	5.179	11.240	4.481	1.459

MB 180-67705/1-A 4/10/2013 9:19:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	103.933%	-0.010	-0.538	-0.534	0.000	0.457	6.587	7.150
2	21:20:31	105.428%	-0.002	-0.964	-0.564	0.000	1.792	7.102	6.950
3	21:21:14	106.957%	-0.003	-0.668	-0.626	0.000	0.258	7.829	6.879
x		105.439%	-0.005	-0.723	-0.575	0.000	0.836	7.173	6.993
σ		1.512%	0.004	0.218	0.047	0.000	0.834	0.624	0.141
%RSD		1.434	77.280	30.130	8.134	0.000	99.790	8.697	2.009

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	0.724	71.740	0.000	33.800	16.630	11.040	108.861%	0.361
2	21:20:31	0.867	81.870	0.000	32.430	24.860	11.160	110.255%	0.325
3	21:21:14	0.812	86.560	0.000	30.720	23.010	11.640	111.955%	0.245
x		0.801	80.060	0.000	32.320	21.500	11.280	110.357%	0.310
σ		0.072	7.575	0.000	1.540	4.322	0.317	1.549%	0.059
%RSD		8.973	9.462	0.000	4.766	20.100	2.808	1.404	19.080

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	0.014	0.023	0.071	1.502	4.812	-0.006	-0.010	0.122
2	21:20:31	0.037	0.012	0.101	0.632	4.092	-0.006	0.029	0.109
3	21:21:14	0.030	0.016	0.096	0.175	3.800	-0.003	0.019	0.128
x		0.027	0.017	0.089	0.770	4.234	-0.005	0.013	0.120
σ		0.012	0.006	0.016	0.674	0.521	0.002	0.021	0.010
%RSD		45.400	34.480	17.800	87.570	12.300	33.410	160.800	8.324

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	0.054	0.279	0.351	0.017	1.203	0.336	0.000	0.076
2	21:20:31	0.126	0.306	0.363	0.004	1.019	0.234	0.000	0.076
3	21:21:14	0.065	0.267	0.299	-0.061	0.654	0.016	0.000	0.081
x		0.082	0.284	0.337	-0.014	0.959	0.195	0.000	0.078
σ		0.039	0.020	0.034	0.042	0.280	0.164	0.000	0.003
%RSD		47.400	7.019	10.100	309.100	29.170	83.820	0.000	4.075

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	107.036%	0.806	0.764	107.834%	0.001	0.004	0.076	0.049
2	21:20:31	108.948%	0.645	0.634	109.148%	-0.001	0.004	0.069	0.043
3	21:21:14	110.384%	0.520	0.524	109.340%	-0.000	-0.000	0.041	0.030
x		108.789%	0.657	0.641	108.774%	-0.000	0.002	0.062	0.041
σ		1.680%	0.143	0.120	0.820%	0.001	0.002	0.018	0.009
%RSD		1.544	21.800	18.700	0.754	585.000	97.760	29.490	22.940

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	105.715%	1.518	-0.005	-0.001	0.127	0.073	103.424%	104.139%
2	21:20:31	108.236%	1.396	-0.005	-0.000	0.091	0.093	106.307%	106.207%
3	21:21:14	109.557%	1.257	-0.001	-0.003	0.127	0.096	106.869%	106.358%
x		107.836%	1.390	-0.004	-0.001	0.115	0.087	105.533%	105.568%
σ		1.952%	0.131	0.003	0.002	0.021	0.012	1.848%	1.240%
%RSD		1.810	9.388	72.340	102.600	17.960	14.030	1.751	1.174

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:49	0.008	0.006	0.022	0.016	0.019	104.421%
2	21:20:31	0.009	0.007	0.017	0.023	0.018	105.969%
3	21:21:14	0.005	0.007	0.017	0.020	0.018	106.562%
x		0.007	0.007	0.019	0.019	0.018	105.651%
σ		0.002	0.001	0.003	0.004	0.001	1.105%
%RSD		31.890	7.642	15.960	18.910	4.900	1.046

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	92.739%	46.760	914.300	920.800	0.000	47300.000	47710.000	47570.000
2	21:28:43	92.237%	47.720	944.500	938.800	0.000	47920.000	48090.000	48020.000
3	21:29:26	92.386%	47.960	927.300	937.400	0.000	47610.000	47720.000	47520.000
x		92.454%	47.480	928.700	932.300	0.000	47610.000	47840.000	47700.000
σ		0.258%	0.637	15.140	10.010	0.000	310.600	214.900	271.900
%RSD		0.279	1.342	1.630	1.074	0.000	0.652	0.449	0.570

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	2008.000	4752.000	0.000	47090.000	47020.000	47230.000	96.645%	930.800
2	21:28:43	2027.000	4801.000	0.000	47700.000	47980.000	47840.000	96.122%	948.500
3	21:29:26	2006.000	4758.000	0.000	47220.000	47610.000	47560.000	95.514%	945.500
x		2013.000	4771.000	0.000	47340.000	47540.000	47550.000	96.094%	941.600
σ		11.750	26.840	0.000	322.800	482.900	303.900	0.566%	9.486
%RSD		0.584	0.563	0.000	0.682	1.016	0.639	0.589	1.007

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	470.300	184.800	460.100	995.900	982.900	462.100	462.800	235.300
2	21:28:43	477.600	187.100	469.400	1010.000	1002.000	471.400	470.000	240.200
3	21:29:26	479.100	188.100	468.200	1011.000	996.000	471.900	467.300	237.900
x		475.700	186.700	465.900	1006.000	993.600	468.400	466.700	237.800
σ		4.732	1.694	5.078	8.405	9.700	5.528	3.594	2.436
%RSD		0.995	0.908	1.090	0.836	0.976	1.180	0.770	1.024

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	235.000	451.800	454.100	34.900	9.729	9.666	0.000	983.500
2	21:28:43	237.600	458.700	457.800	35.300	9.653	8.168	0.000	999.300
3	21:29:26	237.400	457.200	460.200	35.290	10.020	9.457	0.000	999.600
x		236.700	455.900	457.400	35.160	9.801	9.097	0.000	994.100
σ		1.435	3.618	3.080	0.229	0.195	0.811	0.000	9.228
%RSD		0.606	0.793	0.673	0.652	1.990	8.916	0.000	0.928

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	96.442%	958.500	967.700	92.999%	46.290	46.050	46.030	37.390
2	21:28:43	96.631%	977.100	989.900	92.340%	46.830	47.020	47.250	39.450
3	21:29:26	95.770%	968.700	976.000	91.908%	46.680	46.800	46.470	38.770
x		96.281%	968.100	977.900	92.416%	46.600	46.620	46.580	38.540
σ		0.453%	9.337	11.240	0.550%	0.281	0.509	0.615	1.051
%RSD		0.470	0.964	1.149	0.595	0.602	1.091	1.320	2.727

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	95.293%	2023.000	452.600	453.600	1849.000	1851.000	98.096%	98.709%
2	21:28:43	94.422%	2063.000	463.500	465.800	1902.000	1903.000	97.971%	99.001%
3	21:29:26	94.707%	2046.000	461.300	461.300	1874.000	1876.000	98.492%	99.098%
x		94.807%	2044.000	459.100	460.200	1875.000	1877.000	98.186%	98.936%
σ		0.444%	19.750	5.755	6.169	26.550	26.250	0.272%	0.202%
%RSD		0.468	0.966	1.254	1.340	1.416	1.399	0.277	0.204

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:28:00	45.930	46.110	17.980	19.610	18.670	96.363%
2	21:28:43	47.750	47.370	18.470	20.320	19.340	94.450%
3	21:29:26	47.140	47.230	18.420	20.010	19.220	94.803%
x		46.940	46.900	18.290	19.980	19.070	95.206%
σ		0.926	0.695	0.268	0.356	0.359	1.018%
%RSD		1.973	1.481	1.465	1.783	1.884	1.069

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	89.570%	7.835	39.940	39.960	0.000	550.400	36410.000	36220.000
2	21:36:54	90.604%	7.691	38.900	40.750	0.000	557.100	36970.000	36740.000
3	21:37:37	91.912%	7.618	40.400	39.510	0.000	547.600	36360.000	36090.000
x		90.696%	7.715	39.750	40.080	0.000	551.700	36580.000	36350.000
σ		1.174%	0.111	0.767	0.628	0.000	4.879	339.700	347.100
%RSD		1.294	1.433	1.930	1.568	0.000	0.884	0.928	0.955

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	154700.000	7304.000	0.000	12380.000	4878.000	4378.000	108.903%	989.800
2	21:36:54	156200.000	7384.000	0.000	12540.000	4761.000	4435.000	110.911%	1005.000
3	21:37:37	153800.000	7268.000	0.000	12400.000	4879.000	4372.000	112.241%	998.600
x		154900.000	7319.000	0.000	12440.000	4839.000	4395.000	110.685%	997.700
σ		1246.000	59.210	0.000	89.110	68.300	35.020	1.680%	7.487
%RSD		0.805	0.809	0.000	0.716	1.411	0.797	1.518	0.750

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	210.800	179.800	8268.000	275500.000	282900.000	139.600	289.100	212.600
2	21:36:54	214.200	181.400	8390.000	278400.000	287000.000	141.600	295.300	214.500
3	21:37:37	212.500	180.000	8265.000	275100.000	281900.000	139.600	292.800	213.300
x		212.500	180.400	8308.000	276300.000	284000.000	140.300	292.400	213.500
σ		1.713	0.844	71.490	1799.000	2713.000	1.150	3.135	0.998
%RSD		0.806	0.468	0.861	0.651	0.955	0.820	1.072	0.467

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	213.100	761.400	769.300	139.300	3.382	4.029	0.000	75.070
2	21:36:54	217.400	773.700	783.800	140.500	3.604	3.801	0.000	76.490
3	21:37:37	215.400	774.100	785.400	140.400	3.601	3.266	0.000	75.740
x		215.300	769.700	779.500	140.100	3.529	3.699	0.000	75.760
σ		2.145	7.178	8.852	0.686	0.127	0.392	0.000	0.709
%RSD		0.997	0.933	1.136	0.489	3.601	10.590	0.000	0.936

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	0.000	10.880	10.670	96.862%	0.279	0.198	1.610	1.267
2	21:36:54	0.000	10.810	10.860	98.397%	0.281	0.215	1.645	1.326
3	21:37:37	0.000	11.020	10.890	98.880%	0.292	0.209	1.597	1.300
x		0.000	10.910	10.810	98.046%	0.284	0.207	1.617	1.298
σ		0.000	0.105	0.117	1.054%	0.007	0.009	0.025	0.030
%RSD		0.000	0.962	1.086	1.075	2.614	4.286	1.529	2.280

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	101.072%	3.710	0.486	0.499	904.800	896.200	115.403%	113.916%
2	21:36:54	103.469%	3.476	0.492	0.481	920.100	909.200	116.921%	116.349%
3	21:37:37	104.536%	3.408	0.497	0.488	904.900	897.400	118.436%	117.280%
x		103.025%	3.531	0.492	0.489	909.900	900.900	116.920%	115.848%
σ		1.774%	0.158	0.005	0.009	8.770	7.178	1.517%	1.737%
%RSD		1.722	4.478	1.090	1.826	0.964	0.797	1.297	1.500

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:11	1.994	1.963	140.300	137.600	139.100	100.222%
2	21:36:54	2.061	2.057	145.000	143.300	144.500	99.566%
3	21:37:37	2.038	2.043	144.900	141.600	143.500	99.600%
x		2.031	2.021	143.400	140.800	142.400	99.796%
σ		0.034	0.051	2.691	2.892	2.906	0.369%
%RSD		1.668	2.516	1.876	2.053	2.041	0.370

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	98.425%	1.503	8.517	8.631	0.000	103.500	7222.000	7241.000
2	21:45:06	99.456%	1.488	8.496	8.201	0.000	104.300	7174.000	7173.000
3	21:45:49	99.798%	1.504	8.591	8.757	0.000	103.600	7101.000	7141.000
x		99.226%	1.498	8.535	8.530	0.000	103.800	7165.000	7185.000
σ		0.715%	0.009	0.050	0.291	0.000	0.459	60.680	50.910
%RSD		0.720	0.626	0.585	3.418	0.000	0.442	0.847	0.709

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	31040.000	1879.000	0.000	2586.000	985.400	913.500	108.676%	209.400
2	21:45:06	30830.000	1861.000	0.000	2606.000	1038.000	907.000	109.360%	208.700
3	21:45:49	30520.000	1826.000	0.000	2585.000	1011.000	916.100	108.947%	207.800
x		30800.000	1855.000	0.000	2592.000	1012.000	912.200	108.994%	208.600
σ		262.600	27.030	0.000	11.680	26.560	4.702	0.345%	0.830
%RSD		0.853	1.457	0.000	0.451	2.625	0.515	0.316	0.398

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	44.390	37.610	1725.000	58880.000	58690.000	29.360	61.070	44.460
2	21:45:06	44.280	37.510	1723.000	58530.000	58420.000	29.220	61.360	45.240
3	21:45:49	44.060	37.410	1713.000	58290.000	58170.000	28.920	60.470	44.320
x		44.240	37.510	1720.000	58570.000	58430.000	29.170	60.970	44.670
σ		0.170	0.101	6.314	293.900	260.600	0.225	0.456	0.496
%RSD		0.385	0.270	0.367	0.502	0.446	0.771	0.749	1.110

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	44.300	159.600	161.100	28.770	1.580	0.482	0.000	14.650
2	21:45:06	44.820	159.900	161.800	28.640	1.461	0.613	0.000	14.870
3	21:45:49	44.340	158.500	160.900	28.790	1.088	1.221	0.000	14.840
x		44.480	159.300	161.300	28.740	1.376	0.772	0.000	14.790
σ		0.287	0.702	0.437	0.080	0.257	0.394	0.000	0.119
%RSD		0.645	0.441	0.271	0.280	18.670	51.080	0.000	0.804

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	0.000	1.852	1.950	104.354%	0.048	0.035	0.382	0.284
2	21:45:06	0.000	2.016	1.997	104.938%	0.053	0.031	0.347	0.279
3	21:45:49	0.000	1.909	1.980	104.681%	0.050	0.033	0.272	0.260
x		0.000	1.926	1.976	104.658%	0.050	0.033	0.334	0.274
σ		0.000	0.083	0.024	0.292%	0.002	0.002	0.057	0.013
%RSD		0.000	4.333	1.218	0.279	4.774	5.810	16.960	4.700

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	105.665%	0.644	0.106	0.092	187.100	185.300	107.988%	107.959%
2	21:45:06	107.306%	0.647	0.092	0.085	187.300	185.900	110.345%	109.624%
3	21:45:49	108.410%	0.591	0.093	0.106	183.300	184.000	110.570%	110.410%
x		107.127%	0.628	0.097	0.094	185.900	185.100	109.634%	109.331%
σ		1.381%	0.032	0.008	0.011	2.265	0.935	1.430%	1.251%
%RSD		1.289	5.024	7.952	11.410	1.218	0.505	1.304	1.145

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:23	0.398	0.402	28.350	27.860	28.120	100.283%
2	21:45:06	0.431	0.421	28.940	28.470	28.690	100.507%
3	21:45:49	0.417	0.412	28.740	28.330	28.550	101.173%
x		0.415	0.412	28.680	28.220	28.450	100.654%
σ		0.017	0.010	0.297	0.321	0.297	0.463%
%RSD		4.008	2.391	1.036	1.138	1.043	0.460

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	81.609%	56.490	927.700	936.300	0.000	49390.000	88640.000	88510.000
2	21:53:19	83.158%	55.850	946.200	938.700	0.000	49030.000	88560.000	87630.000
3	21:54:02	82.808%	56.510	952.300	954.200	0.000	49380.000	88870.000	88090.000
x		82.525%	56.280	942.100	943.100	0.000	49260.000	88690.000	88080.000
σ		0.812%	0.376	12.800	9.689	0.000	205.600	164.600	441.800
%RSD		0.984	0.669	1.358	1.027	0.000	0.417	0.186	0.502

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	205400.000	21200.000	0.000	61230.000	47900.000	47900.000	105.268%	1898.000
2	21:53:19	204800.000	20920.000	0.000	61520.000	48370.000	48340.000	106.244%	1900.000
3	21:54:02	206100.000	21040.000	0.000	61580.000	48290.000	48210.000	106.312%	1903.000
x		205400.000	21050.000	0.000	61440.000	48190.000	48150.000	105.941%	1901.000
σ		698.300	140.400	0.000	186.700	249.100	224.900	0.584%	2.756
%RSD		0.340	0.667	0.000	0.304	0.517	0.467	0.551	0.145

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	752.500	381.500	8072.000	277500.000	285100.000	575.100	731.200	428.000
2	21:53:19	750.100	382.000	8077.000	278200.000	286000.000	572.400	728.100	428.700
3	21:54:02	756.300	384.200	8134.000	278800.000	285600.000	573.700	730.700	429.900
x		753.000	382.500	8094.000	278100.000	285600.000	573.800	730.000	428.900
σ		3.110	1.412	34.570	667.900	410.600	1.337	1.689	0.968
%RSD		0.413	0.369	0.427	0.240	0.144	0.233	0.231	0.226

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	430.200	1209.000	1223.000	172.000	10.920	11.490	0.000	1145.000
2	21:53:19	431.800	1221.000	1231.000	171.900	10.810	11.360	0.000	1148.000
3	21:54:02	432.500	1222.000	1236.000	172.900	11.100	11.260	0.000	1154.000
x		431.500	1217.000	1230.000	172.300	10.940	11.370	0.000	1149.000
σ		1.168	7.167	6.364	0.557	0.148	0.116	0.000	4.649
%RSD		0.271	0.589	0.517	0.323	1.357	1.020	0.000	0.405

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	0.000	906.800	910.100	91.217%	45.630	45.160	48.560	46.420
2	21:53:19	0.000	915.200	916.400	92.032%	45.720	45.640	48.660	46.420
3	21:54:02	0.000	918.500	924.700	92.258%	46.080	45.470	48.330	45.660
x		0.000	913.500	917.100	91.836%	45.810	45.420	48.510	46.170
σ		0.000	6.019	7.325	0.548%	0.238	0.244	0.168	0.441
%RSD		0.000	0.659	0.799	0.596	0.519	0.538	0.346	0.954

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	95.583%	533.600	124.800	123.600	2555.000	2866.000	111.597%	109.381%
2	21:53:19	97.572%	534.000	124.100	123.600	2658.000	2838.000	113.854%	112.630%
3	21:54:02	99.119%	529.700	124.500	124.000	2651.000	2828.000	115.347%	114.304%
x		97.425%	532.400	124.500	123.800	2621.000	2844.000	113.599%	112.105%
σ		1.773%	2.360	0.358	0.197	57.330	19.670	1.888%	2.503%
%RSD		1.820	0.443	0.287	0.159	2.187	0.692	1.662	2.233

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:36	46.900	46.970	160.400	160.100	160.700	93.782%
2	21:53:19	47.480	47.740	163.000	162.600	163.500	94.562%
3	21:54:02	47.630	47.900	163.900	164.400	165.300	95.255%
x		47.340	47.540	162.400	162.400	163.200	94.533%
σ		0.389	0.496	1.835	2.182	2.312	0.737%
%RSD		0.822	1.044	1.130	1.344	1.417	0.780

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:48	79.900%	56.480	943.000	948.700	0.000	48620.000	88010.000	87400.000
2	22:01:31	80.691%	56.570	958.400	960.700	0.000	49220.000	88670.000	87990.000
3	22:02:14	80.551%	54.980	968.500	963.400	0.000	49000.000	88870.000	88240.000
x		80.381%	56.010	956.600	957.600	0.000	48950.000	88520.000	87880.000
σ		0.422%	0.891	12.850	7.852	0.000	303.300	449.700	434.800
%RSD		0.525	1.590	1.343	0.820	0.000	0.620	0.508	0.495
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:48	216400.000	18650.000	0.000	63700.000	47220.000	47820.000	102.566%	1849.000
2	22:01:31	218400.000	18600.000	0.000	64280.000	47650.000	47740.000	104.000%	1867.000
3	22:02:14	218500.000	18560.000	0.000	63730.000	47700.000	47710.000	103.930%	1855.000
x		217800.000	18610.000	0.000	63900.000	47520.000	47760.000	103.499%	1857.000
σ		1187.000	41.830	0.000	330.700	261.900	51.600	0.808%	8.742
%RSD		0.545	0.225	0.000	0.518	0.551	0.108	0.781	0.471
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:48	716.300	388.400	7126.000	274300.000	282900.000	562.800	710.500	419.800
2	22:01:31	773.700	392.100	7132.000	274400.000	282400.000	565.500	710.100	422.200
3	22:02:14	763.300	389.800	7155.000	273300.000	282300.000	552.000	710.600	420.700
x		751.100	390.100	7138.000	274000.000	282600.000	560.100	710.400	420.900
σ		30.560	1.853	14.980	629.900	331.000	7.145	0.245	1.224
%RSD		4.069	0.475	0.210	0.230	0.117	1.276	0.034	0.291
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:48	423.400	1181.000	1191.000	169.600	11.130	11.850	0.000	1145.000
2	22:01:31	425.900	1192.000	1203.000	170.300	11.180	12.230	0.000	1159.000
3	22:02:14	422.600	1193.000	1203.000	170.000	11.250	12.210	0.000	1145.000
x		424.000	1188.000	1199.000	170.000	11.190	12.100	0.000	1150.000
σ		1.704	6.337	6.979	0.327	0.057	0.211	0.000	7.793
%RSD		0.402	0.533	0.582	0.193	0.505	1.742	0.000	0.678
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:48	0.000	890.500	897.200	89.152%	45.220	44.790	48.160	46.490
2	22:01:31	0.000	904.600	912.000	90.166%	45.620	45.060	48.170	45.910
3	22:02:14	0.000	900.200	911.800	90.951%	45.260	44.840	47.620	46.090
x		0.000	898.400	907.000	90.090%	45.370	44.900	47.980	46.160
σ		0.000	7.190	8.496	0.902%	0.223	0.143	0.317	0.300
%RSD		0.000	0.800	0.937	1.001	0.491	0.320	0.660	0.650
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:48	93.713%	473.900	109.500	109.300	2532.000	2839.000	109.473%	107.851%
2	22:01:31	96.424%	476.100	109.600	108.900	2530.000	2834.000	112.179%	110.586%
3	22:02:14	96.750%	474.600	109.100	108.500	2536.000	2824.000	113.435%	112.493%
x		95.629%	474.800	109.400	108.900	2533.000	2832.000	111.695%	110.310%
σ		1.667%	1.110	0.265	0.412	3.057	7.649	2.025%	2.333%
%RSD		1.744	0.234	0.242	0.378	0.121	0.270	1.813	2.115
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:00:48	46.300	46.150	158.100	158.100	158.600	91.789%		
2	22:01:31	47.520	47.810	163.200	163.400	164.100	91.829%		
3	22:02:14	47.410	47.700	162.900	163.000	163.600	92.742%		
x		47.070	47.220	161.400	161.500	162.100	92.120%		
σ		0.676	0.927	2.888	2.913	3.014	0.539%		
%RSD		1.435	1.963	1.790	1.804	1.859	0.585		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	80.162%	58.520	1056.000	1064.000	0.000	52440.000	86700.000	86330.000
2	22:09:45	81.063%	58.590	1079.000	1076.000	0.000	52590.000	86780.000	86510.000
3	22:10:28	81.439%	58.920	1085.000	1083.000	0.000	52740.000	86910.000	86500.000
x		80.888%	58.680	1073.000	1074.000	0.000	52590.000	86800.000	86450.000
σ		0.656%	0.216	15.170	9.558	0.000	149.900	101.800	99.920
%RSD		0.811	0.368	1.413	0.890	0.000	0.285	0.117	0.116

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	151800.000	16810.000	0.000	59820.000	52230.000	52200.000	98.893%	1872.000
2	22:09:45	151900.000	16660.000	0.000	59800.000	51810.000	52120.000	100.412%	1862.000
3	22:10:28	152500.000	16590.000	0.000	60110.000	51560.000	52080.000	100.677%	1868.000
x		152100.000	16690.000	0.000	59910.000	51870.000	52130.000	99.994%	1867.000
σ		396.500	112.900	0.000	175.700	336.100	61.960	0.963%	5.128
%RSD		0.261	0.676	0.000	0.293	0.648	0.119	0.963	0.275

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	685.100	365.500	8482.000	269300.000	276200.000	616.400	757.400	443.900
2	22:09:45	730.100	364.600	8479.000	268300.000	274800.000	598.000	757.900	442.900
3	22:10:28	686.500	364.800	8516.000	268300.000	276700.000	612.300	753.600	446.700
x		700.600	365.000	8492.000	268600.000	275900.000	608.900	756.300	444.500
σ		25.580	0.519	20.450	556.900	987.800	9.659	2.396	1.946
%RSD		3.651	0.142	0.241	0.207	0.358	1.586	0.317	0.438

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	447.500	1217.000	1223.000	173.000	12.860	13.200	0.000	1186.000
2	22:09:45	446.800	1217.000	1231.000	173.800	12.920	13.030	0.000	1194.000
3	22:10:28	446.800	1230.000	1245.000	174.800	12.390	13.350	0.000	1202.000
x		447.000	1221.000	1233.000	173.900	12.730	13.190	0.000	1194.000
σ		0.385	7.434	11.080	0.877	0.291	0.161	0.000	7.959
%RSD		0.086	0.609	0.899	0.504	2.284	1.218	0.000	0.667

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	0.000	1014.000	1020.000	89.424%	50.910	50.450	52.360	43.080
2	22:09:45	0.000	1025.000	1033.000	90.496%	51.490	51.130	51.880	43.590
3	22:10:28	0.000	1029.000	1034.000	90.178%	51.440	50.990	52.190	42.120
x		0.000	1023.000	1029.000	90.033%	51.280	50.850	52.140	42.930
σ		0.000	7.661	7.653	0.550%	0.319	0.359	0.241	0.747
%RSD		0.000	0.749	0.744	0.611	0.622	0.707	0.463	1.740

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	92.608%	2072.000	456.100	453.600	2389.000	3019.000	108.960%	107.271%
2	22:09:45	93.949%	2087.000	466.800	465.000	2226.000	3033.000	110.832%	109.593%
3	22:10:28	95.332%	2080.000	469.100	467.900	2056.000	3021.000	111.530%	109.753%
x		93.963%	2080.000	464.000	462.200	2224.000	3024.000	110.441%	108.872%
σ		1.362%	7.580	6.909	7.577	166.700	7.670	1.329%	1.389%
%RSD		1.450	0.364	1.489	1.639	7.494	0.254	1.203	1.276

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:02	52.370	52.410	157.100	156.600	157.400	92.411%
2	22:09:45	53.300	53.450	159.800	158.500	159.700	92.559%
3	22:10:28	53.980	53.840	160.900	160.100	160.900	92.861%
x		53.220	53.230	159.300	158.400	159.300	92.610%
σ		0.809	0.741	1.938	1.777	1.786	0.229%
%RSD		1.520	1.392	1.217	1.122	1.121	0.248

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:15	87.674%	2.449	31.220	30.300	0.000	278.400	12180.000	12130.000
2	22:17:58	87.604%	2.769	29.140	30.110	0.000	284.500	12320.000	12230.000
3	22:18:41	88.887%	2.739	29.430	28.320	0.000	278.900	12150.000	12120.000
x		88.055%	2.653	29.930	29.580	0.000	280.600	12220.000	12160.000
σ		0.721%	0.177	1.128	1.096	0.000	3.401	90.670	63.480
%RSD		0.819	6.671	3.768	3.707	0.000	1.212	0.742	0.522
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:15	47390.000	6781.000	0.000	6016.000	2717.000	2484.000	98.483%	372.500
2	22:17:58	48090.000	6852.000	0.000	6134.000	2696.000	2528.000	98.103%	380.900
3	22:18:41	47390.000	6760.000	0.000	6047.000	2765.000	2512.000	98.782%	375.100
x		47620.000	6798.000	0.000	6066.000	2726.000	2508.000	98.456%	376.200
σ		401.800	48.180	0.000	61.280	35.180	22.280	0.340%	4.291
%RSD		0.844	0.709	0.000	1.010	1.290	0.888	0.346	1.141
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:15	77.780	72.970	5803.000	131300.000	131700.000	59.210	154.800	88.340
2	22:17:58	79.110	74.110	5972.000	134100.000	134700.000	60.440	156.800	89.090
3	22:18:41	78.500	73.360	5886.000	132500.000	133400.000	59.560	155.500	88.390
x		78.460	73.480	5887.000	132600.000	133300.000	59.740	155.700	88.610
σ		0.666	0.583	84.400	1452.000	1469.000	0.634	1.041	0.421
%RSD		0.848	0.794	1.434	1.095	1.103	1.061	0.668	0.475
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:15	88.930	458.800	462.000	152.600	1.792	0.812	0.000	37.810
2	22:17:58	89.760	466.800	470.300	154.700	1.597	1.139	0.000	38.620
3	22:18:41	88.480	460.600	466.800	154.500	1.623	1.220	0.000	38.130
x		89.060	462.100	466.400	153.900	1.671	1.057	0.000	38.190
σ		0.654	4.199	4.176	1.121	0.106	0.216	0.000	0.405
%RSD		0.734	0.909	0.895	0.728	6.339	20.430	0.000	1.061
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:15	0.000	7.403	7.153	94.767%	0.202	0.149	1.264	1.139
2	22:17:58	0.000	7.190	7.101	95.658%	0.185	0.163	1.205	1.159
3	22:18:41	0.000	7.003	7.056	96.068%	0.178	0.180	1.275	1.105
x		0.000	7.199	7.104	95.498%	0.188	0.164	1.248	1.135
σ		0.000	0.200	0.048	0.665%	0.012	0.016	0.037	0.028
%RSD		0.000	2.780	0.682	0.696	6.394	9.635	2.999	2.433
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:15	96.810%	4.906	2.635	2.684	432.800	430.000	104.014%	103.403%
2	22:17:58	97.433%	4.698	2.357	2.346	439.400	436.800	104.642%	103.879%
3	22:18:41	99.292%	4.310	1.901	1.899	430.400	430.500	105.988%	105.944%
x		97.845%	4.638	2.298	2.310	434.200	432.400	104.881%	104.409%
σ		1.291%	0.302	0.371	0.394	4.643	3.787	1.009%	1.350%
%RSD		1.320	6.517	16.130	17.040	1.069	0.876	0.962	1.293
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:17:15	1.075	1.101	79.160	78.810	78.720	98.965%		
2	22:17:58	1.131	1.113	81.810	81.220	81.720	98.117%		
3	22:18:41	1.061	1.117	80.650	79.960	80.400	98.804%		
x		1.089	1.111	80.540	80.000	80.280	98.629%		
σ		0.037	0.008	1.326	1.205	1.505	0.450%		
%RSD		3.365	0.741	1.647	1.507	1.875	0.457		

240-22141-B-23-E 4/10/2013 10:24:46 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	84.980%	4.787	31.840	33.680	0.000	333.100	20860.000	20840.000
2	22:26:12	86.698%	5.311	32.470	33.260	0.000	338.600	20900.000	20830.000
3	22:26:55	87.410%	4.996	32.130	32.970	0.000	333.400	20860.000	20740.000
x		86.363%	5.031	32.150	33.310	0.000	335.000	20870.000	20800.000
σ		1.249%	0.264	0.318	0.356	0.000	3.113	24.020	54.400
%RSD		1.446	5.242	0.989	1.068	0.000	0.929	0.115	0.262

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	89650.000	6941.000	0.000	9684.000	1771.000	1601.000	98.355%	600.400
2	22:26:12	89510.000	6921.000	0.000	9631.000	1815.000	1605.000	100.724%	601.800
3	22:26:55	89650.000	6879.000	0.000	9723.000	1829.000	1603.000	100.571%	604.700
x		89600.000	6913.000	0.000	9679.000	1805.000	1603.000	99.883%	602.300
σ		81.310	31.400	0.000	46.100	30.690	1.720	1.326%	2.208
%RSD		0.091	0.454	0.000	0.476	1.700	0.107	1.327	0.367

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	129.800	118.400	12890.000	214700.000	217700.000	119.400	230.500	133.500
2	22:26:12	129.100	118.400	12850.000	213200.000	216400.000	118.700	229.200	132.700
3	22:26:55	130.900	119.200	12830.000	214000.000	218400.000	119.900	231.400	133.400
x		129.900	118.700	12860.000	214000.000	217500.000	119.300	230.400	133.200
σ		0.933	0.493	30.270	719.500	1009.000	0.588	1.147	0.454
%RSD		0.718	0.415	0.235	0.336	0.464	0.492	0.498	0.341

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	132.900	634.400	643.900	121.200	2.280	2.006	0.000	39.720
2	22:26:12	132.500	635.800	641.400	121.500	2.050	2.477	0.000	39.820
3	22:26:55	133.400	642.000	650.500	121.000	2.228	2.579	0.000	40.300
x		132.900	637.400	645.300	121.200	2.186	2.354	0.000	39.950
σ		0.498	4.054	4.686	0.286	0.120	0.306	0.000	0.309
%RSD		0.374	0.636	0.726	0.236	5.500	12.980	0.000	0.774

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	0.000	8.434	8.349	93.842%	0.231	0.195	1.389	1.175
2	22:26:12	0.000	8.483	8.605	95.895%	0.210	0.197	1.304	1.060
3	22:26:55	0.000	8.567	8.524	95.961%	0.251	0.173	1.311	1.102
x		0.000	8.495	8.493	95.233%	0.231	0.188	1.335	1.113
σ		0.000	0.068	0.131	1.205%	0.020	0.014	0.047	0.058
%RSD		0.000	0.796	1.537	1.265	8.771	7.168	3.553	5.212

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	95.815%	2.659	0.661	0.663	592.500	587.700	108.586%	106.958%
2	22:26:12	98.844%	2.700	0.670	0.641	593.600	589.800	111.391%	110.372%
3	22:26:55	99.651%	2.642	0.641	0.631	590.600	585.100	111.529%	110.525%
x		98.103%	2.667	0.657	0.645	592.200	587.500	110.502%	109.285%
σ		2.022%	0.030	0.014	0.016	1.534	2.348	1.661%	2.017%
%RSD		2.061	1.131	2.204	2.524	0.259	0.400	1.503	1.845

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:29	1.302	1.309	104.600	103.500	103.800	98.384%
2	22:26:12	1.354	1.364	106.700	105.600	105.900	99.795%
3	22:26:55	1.351	1.343	106.000	104.500	105.200	100.393%
x		1.336	1.339	105.800	104.500	105.000	99.524%
σ		0.029	0.028	1.098	1.058	1.086	1.031%
%RSD		2.185	2.081	1.038	1.012	1.035	1.036

240-22141-B-24-C 4/10/2013 10:33:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:43	84.192%	8.132	34.780	35.540	0.000	499.100	36200.000	36020.000
2	22:34:26	84.424%	8.020	35.390	36.610	0.000	504.500	36440.000	36000.000
3	22:35:09	84.038%	8.553	37.570	36.980	0.000	515.100	36880.000	36790.000
x		84.218%	8.235	35.910	36.380	0.000	506.200	36510.000	36270.000
σ		0.194%	0.281	1.464	0.749	0.000	8.150	343.700	453.600
%RSD		0.231	3.413	4.077	2.059	0.000	1.610	0.942	1.251
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:43	142500.000	8618.000	0.000	11650.000	5599.000	5007.000	101.157%	932.900
2	22:34:26	142100.000	8608.000	0.000	11700.000	5512.000	5036.000	103.372%	932.800
3	22:35:09	145600.000	8785.000	0.000	11930.000	5567.000	5121.000	102.577%	954.700
x		143400.000	8670.000	0.000	11760.000	5559.000	5055.000	102.369%	940.100
σ		1925.000	99.450	0.000	146.700	43.960	59.600	1.122%	12.590
%RSD		1.342	1.147	0.000	1.247	0.791	1.179	1.096	1.339
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:43	204.100	168.700	4392.000	306700.000	315000.000	120.300	268.400	212.100
2	22:34:26	206.200	169.100	4399.000	305700.000	314800.000	120.500	267.100	211.900
3	22:35:09	209.400	172.300	4488.000	310800.000	321800.000	123.400	270.500	216.000
x		206.500	170.100	4426.000	307700.000	317200.000	121.400	268.700	213.300
σ		2.663	1.990	53.570	2697.000	3997.000	1.699	1.740	2.347
%RSD		1.289	1.170	1.210	0.876	1.260	1.399	0.648	1.100
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:43	211.800	785.100	802.900	140.200	2.624	3.219	0.000	84.530
2	22:34:26	213.900	790.700	805.000	140.500	2.629	3.535	0.000	85.830
3	22:35:09	219.400	811.000	822.400	144.000	2.637	3.492	0.000	87.620
x		215.000	795.600	810.100	141.600	2.630	3.416	0.000	86.000
σ		3.958	13.640	10.690	2.097	0.006	0.171	0.000	1.548
%RSD		1.840	1.715	1.320	1.481	0.246	5.013	0.000	1.800
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:43	0.000	11.690	11.880	93.333%	0.357	0.272	1.764	1.428
2	22:34:26	0.000	11.710	11.940	94.388%	0.329	0.276	1.497	1.285
3	22:35:09	0.000	12.010	12.260	94.162%	0.363	0.275	1.649	1.309
x		0.000	11.800	12.030	93.961%	0.349	0.274	1.637	1.341
σ		0.000	0.181	0.207	0.556%	0.018	0.002	0.134	0.076
%RSD		0.000	1.533	1.723	0.591	5.253	0.805	8.190	5.704
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:43	97.047%	2.274	0.470	0.458	821.500	813.300	112.356%	110.591%
2	22:34:26	99.487%	2.277	0.462	0.426	819.700	815.500	115.387%	114.070%
3	22:35:09	99.132%	2.271	0.460	0.466	838.500	836.600	114.877%	113.368%
x		98.555%	2.274	0.464	0.450	826.600	821.800	114.206%	112.677%
σ		1.318%	0.003	0.005	0.021	10.390	12.890	1.623%	1.840%
%RSD		1.338	0.141	1.096	4.649	1.257	1.568	1.421	1.633
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:33:43	1.883	1.853	145.900	144.100	145.300	98.349%		
2	22:34:26	1.908	1.954	149.600	147.400	149.200	99.033%		
3	22:35:09	1.961	1.962	153.400	151.600	153.300	98.815%		
x		1.917	1.923	149.600	147.700	149.200	98.732%		
σ		0.040	0.061	3.763	3.758	4.005	0.350%		
%RSD		2.091	3.157	2.515	2.544	2.684	0.354		

CCV 781130 4/10/2013 10:41:14 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	92.088%	102.000	100.700	102.600	0.000	50940.000	50920.000	50930.000
2	22:42:40	91.832%	102.100	103.900	102.800	0.000	50950.000	51220.000	51100.000
3	22:43:23	91.729%	100.700	103.800	104.100	0.000	50940.000	50990.000	51020.000
x		91.883%	101.566%	102.838%	103.168%	0.000	101.886%	102.090%	102.029%
σ		0.185%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.201	0.782	1.775	0.777	0.000	0.010	0.303	0.167

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	507.800	5513.000	0.000	50480.000	49520.000	49980.000	98.531%	100.200
2	22:42:40	508.700	5513.000	0.000	50820.000	50130.000	50440.000	98.007%	99.850
3	22:43:23	507.000	5499.000	0.000	50750.000	49680.000	49940.000	97.623%	100.900
x		101.568%	110.172%	0.000	101.373%	99.559%	100.235%	98.054%	100.316%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.456%	n/a
%RSD		0.175	0.148	0.000	0.354	0.638	0.555	0.465	0.558

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	98.620	98.650	501.600	25370.000	25210.000	99.840	99.480	100.300
2	22:42:40	98.810	98.490	498.100	25230.000	25140.000	99.940	100.400	99.920
3	22:43:23	98.350	98.500	500.500	25280.000	25210.000	99.950	99.030	100.600
x		98.594%	98.546%	100.011%	101.171%	100.744%	99.911%	99.641%	100.294%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.232	0.091	0.354	0.275	0.158	0.059	0.705	0.352

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	99.980	99.120	99.870	99.110	99.650	97.630	0.000	99.670
2	22:42:40	99.720	100.200	99.290	99.220	99.470	98.460	0.000	99.600
3	22:43:23	100.900	100.000	99.840	98.700	99.610	98.380	0.000	98.960
x		100.211%	99.776%	99.667%	99.008%	99.574%	98.157%	0.000	99.412%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.636	0.580	0.327	0.277	0.095	0.466	0.000	0.397

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	97.514%	96.600	97.930	96.183%	97.880	98.500	97.710	97.230
2	22:42:40	98.556%	99.990	101.100	96.163%	98.570	99.000	97.980	99.050
3	22:43:23	98.356%	102.300	101.700	95.473%	98.350	98.350	98.070	98.130
x		98.142%	99.646%	100.242%	95.940%	98.268%	98.616%	97.920%	98.137%
σ		0.553%	n/a	n/a	0.404%	n/a	n/a	n/a	n/a
%RSD		0.563	2.902	2.017	0.422	0.360	0.341	0.190	0.925

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	97.549%	98.490	98.380	97.820	99.680	100.500	98.158%	98.392%
2	22:42:40	97.820%	99.350	98.610	98.450	99.700	99.740	100.113%	100.190%
3	22:43:23	98.309%	98.610	97.720	98.030	99.510	99.290	100.146%	100.183%
x		97.893%	98.815%	98.237%	98.100%	99.630%	99.843%	99.472%	99.588%
σ		0.385%	n/a	n/a	n/a	n/a	n/a	1.139%	1.036%
%RSD		0.393	0.470	0.469	0.331	0.104	0.607	1.145	1.040

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:57	97.250	96.840	97.610	97.150	97.440	96.552%
2	22:42:40	99.030	98.100	99.090	98.220	98.840	97.188%
3	22:43:23	99.110	99.170	99.360	98.410	98.970	97.671%
x		98.466%	98.039%	98.688%	97.928%	98.418%	97.137%
σ		n/a	n/a	n/a	n/a	n/a	0.561%
%RSD		1.070	1.190	0.954	0.695	0.859	0.578

CCB2 4/10/2013 10:49:29 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	104.434%	-0.018	1.099	1.479	0.000	-3.318	2.297	2.325
2	22:50:55	105.693%	-0.027	1.216	1.302	0.000	-2.927	2.545	2.320
3	22:51:38	107.033%	-0.015	1.316	1.180	0.000	-2.468	3.445	3.031
x		105.720%	-0.020	1.210	1.320	0.000	-2.904	2.762	2.559
σ		1.300%	0.006	0.109	0.150	0.000	0.426	0.604	0.409
%RSD		1.229	29.630	8.974	11.390	0.000	14.660	21.870	15.990

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	2.159	0.292	0.000	13.390	12.570	-9.319	111.855%	0.010
2	22:50:55	2.405	-9.326	0.000	8.598	14.180	-8.051	114.819%	0.029
3	22:51:38	2.732	19.770	0.000	10.660	26.370	-3.294	115.115%	0.071
x		2.432	3.578	0.000	10.880	17.710	-6.888	113.930%	0.037
σ		0.288	14.820	0.000	2.404	7.543	3.177	1.803%	0.032
%RSD		11.820	414.300	0.000	22.090	42.590	46.120	1.582	86.260

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	0.009	-0.020	0.055	-0.830	2.574	-0.005	0.036	0.243
2	22:50:55	0.024	0.008	0.067	-1.519	1.449	-0.006	0.043	0.228
3	22:51:38	0.025	-0.020	0.095	-0.535	3.778	-0.002	0.055	0.205
x		0.019	-0.011	0.072	-0.961	2.601	-0.004	0.045	0.225
σ		0.009	0.016	0.020	0.505	1.165	0.002	0.010	0.019
%RSD		46.020	153.600	27.700	52.540	44.780	46.330	21.360	8.505

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	0.249	2.062	2.326	-0.152	0.306	-0.761	0.000	0.041
2	22:50:55	0.230	1.981	2.077	-0.068	0.415	-0.270	0.000	0.041
3	22:51:38	0.196	2.031	2.023	-0.114	0.369	-0.673	0.000	0.046
x		0.225	2.024	2.142	-0.111	0.363	-0.568	0.000	0.042
σ		0.027	0.041	0.162	0.042	0.054	0.262	0.000	0.003
%RSD		11.840	2.012	7.555	37.830	15.000	46.100	0.000	6.626

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	109.045%	0.152	0.164	102.986%	-0.005	-0.001	0.027	0.019
2	22:50:55	111.370%	0.106	0.167	104.513%	-0.006	-0.005	0.018	0.018
3	22:51:38	112.015%	0.089	0.109	105.438%	0.002	0.001	-0.003	0.005
x		110.810%	0.116	0.147	104.312%	-0.003	-0.002	0.014	0.014
σ		1.562%	0.032	0.033	1.238%	0.004	0.003	0.015	0.008
%RSD		1.410	28.030	22.300	1.187	161.100	166.800	107.800	56.360

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	101.399%	0.200	0.032	0.030	0.040	0.037	99.502%	99.305%
2	22:50:55	102.728%	0.190	0.028	0.038	0.099	0.050	101.724%	101.021%
3	22:51:38	104.340%	0.153	0.020	0.025	0.043	0.045	102.973%	103.370%
x		102.822%	0.181	0.026	0.031	0.061	0.044	101.400%	101.232%
σ		1.473%	0.025	0.006	0.006	0.033	0.006	1.758%	2.041%
%RSD		1.433	13.750	23.360	19.990	54.600	14.560	1.734	2.016

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:50:12	0.011	0.013	0.024	0.024	0.020	102.016%
2	22:50:55	0.006	0.009	0.018	0.013	0.017	103.854%
3	22:51:38	0.007	0.004	0.025	0.026	0.023	104.472%
x		0.008	0.009	0.022	0.021	0.020	103.447%
σ		0.003	0.005	0.003	0.007	0.003	1.277%
%RSD		34.540	50.120	15.140	32.790	12.770	1.235

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	83.298%	6.173	32.640	34.040	0.000	462.900	26470.000	26420.000
2	22:55:46	83.483%	5.699	33.470	35.910	0.000	480.400	27090.000	26900.000
3	22:56:29	86.176%	6.028	34.050	34.430	0.000	457.100	25800.000	25790.000
x		84.319%	5.967	33.390	34.790	0.000	466.800	26450.000	26370.000
σ		1.611%	0.243	0.707	0.989	0.000	12.150	647.100	558.000
%RSD		1.910	4.070	2.118	2.843	0.000	2.604	2.446	2.116

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	113000.000	7937.000	0.000	11010.000	5830.000	5334.000	100.147%	709.000
2	22:55:46	114900.000	8042.000	0.000	11250.000	5950.000	5419.000	101.031%	718.300
3	22:56:29	110300.000	7696.000	0.000	10890.000	5727.000	5271.000	102.253%	703.300
x		112700.000	7892.000	0.000	11050.000	5836.000	5341.000	101.143%	710.200
σ		2354.000	177.600	0.000	184.400	111.800	73.960	1.057%	7.579
%RSD		2.088	2.250	0.000	1.669	1.915	1.385	1.045	1.067

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	151.300	143.500	2979.000	237900.000	242700.000	137.600	330.000	178.900
2	22:55:46	154.800	146.900	3044.000	242700.000	248100.000	140.300	337.600	182.900
3	22:56:29	149.000	142.800	2960.000	235500.000	241200.000	136.600	330.700	176.500
x		151.700	144.400	2994.000	238700.000	244000.000	138.100	332.800	179.400
σ		2.879	2.230	44.240	3662.000	3626.000	1.906	4.172	3.267
%RSD		1.898	1.544	1.477	1.534	1.486	1.380	1.254	1.821

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	178.800	563.000	568.600	174.800	1.968	3.093	0.000	70.180
2	22:55:46	184.200	571.400	580.200	178.700	2.449	2.982	0.000	72.260
3	22:56:29	176.400	558.100	567.400	175.300	2.299	2.822	0.000	69.950
x		179.800	564.100	572.100	176.300	2.239	2.966	0.000	70.800
σ		3.959	6.714	7.086	2.092	0.246	0.136	0.000	1.275
%RSD		2.202	1.190	1.239	1.187	11.000	4.594	0.000	1.801

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	0.000	6.955	7.009	93.799%	0.211	0.126	1.259	1.035
2	22:55:46	0.000	7.376	7.277	93.853%	0.225	0.166	1.271	1.020
3	22:56:29	0.000	7.144	7.005	95.892%	0.234	0.149	1.155	0.962
x		0.000	7.158	7.097	94.515%	0.224	0.147	1.228	1.006
σ		0.000	0.211	0.156	1.193%	0.012	0.020	0.064	0.038
%RSD		0.000	2.944	2.198	1.263	5.209	13.740	5.175	3.822

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	95.589%	2.417	0.334	0.312	605.700	602.000	108.437%	106.171%
2	22:55:46	96.947%	2.373	0.353	0.364	618.600	618.400	109.414%	108.653%
3	22:56:29	98.603%	2.236	0.336	0.365	595.800	593.900	111.390%	109.621%
x		97.046%	2.342	0.341	0.347	606.700	604.800	109.747%	108.149%
σ		1.510%	0.095	0.011	0.030	11.450	12.460	1.504%	1.779%
%RSD		1.556	4.045	3.113	8.719	1.887	2.061	1.371	1.645

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:03	1.843	1.875	120.800	119.400	120.200	99.394%
2	22:55:46	1.932	1.939	126.000	125.000	125.700	98.588%
3	22:56:29	1.861	1.887	123.100	122.600	122.600	99.516%
x		1.878	1.900	123.300	122.300	122.800	99.166%
σ		0.047	0.034	2.594	2.807	2.779	0.505%
%RSD		2.503	1.787	2.103	2.295	2.262	0.509

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	83.614%	3.928	24.130	24.920	0.000	312.600	18830.000	18670.000
2	23:03:59	85.573%	3.932	24.080	24.970	0.000	308.700	18680.000	18600.000
3	23:04:42	84.827%	4.039	25.170	25.580	0.000	314.700	18960.000	18830.000
x		84.671%	3.966	24.460	25.160	0.000	312.000	18830.000	18700.000
σ		0.989%	0.063	0.615	0.368	0.000	3.082	136.900	117.700
%RSD		1.168	1.587	2.513	1.461	0.000	0.988	0.727	0.630

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	83110.000	7868.000	0.000	8026.000	3159.000	2925.000	97.640%	629.100
2	23:03:59	82900.000	7849.000	0.000	8027.000	3174.000	2927.000	99.063%	631.500
3	23:04:42	83570.000	7915.000	0.000	8041.000	3225.000	2990.000	99.192%	632.400
x		83200.000	7877.000	0.000	8031.000	3186.000	2947.000	98.632%	631.000
σ		344.000	33.730	0.000	8.642	34.540	36.520	0.862%	1.704
%RSD		0.413	0.428	0.000	0.108	1.084	1.239	0.874	0.270

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	129.900	106.900	1650.000	170400.000	172400.000	66.440	194.100	107.100
2	23:03:59	127.900	106.300	1645.000	168600.000	170400.000	66.040	192.700	105.700
3	23:04:42	130.300	107.500	1661.000	169300.000	171100.000	66.270	193.900	106.900
x		129.400	106.900	1652.000	169400.000	171300.000	66.250	193.600	106.600
σ		1.259	0.588	8.240	881.800	977.100	0.202	0.778	0.754
%RSD		0.973	0.550	0.499	0.520	0.570	0.305	0.402	0.708

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	105.600	477.800	481.300	205.500	1.954	1.868	0.000	46.130
2	23:03:59	106.000	483.200	484.000	204.700	1.961	1.938	0.000	46.450
3	23:04:42	105.800	481.800	487.700	205.500	1.852	2.495	0.000	46.810
x		105.800	480.900	484.300	205.200	1.922	2.100	0.000	46.460
σ		0.169	2.841	3.211	0.467	0.061	0.344	0.000	0.339
%RSD		0.159	0.591	0.663	0.227	3.173	16.360	0.000	0.729

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	0.000	7.325	7.499	92.994%	0.217	0.140	0.970	0.858
2	23:03:59	0.000	7.559	7.618	94.628%	0.204	0.148	0.960	0.828
3	23:04:42	0.000	7.770	7.696	94.838%	0.189	0.141	1.030	0.870
x		0.000	7.551	7.605	94.153%	0.204	0.143	0.987	0.852
σ		0.000	0.222	0.099	1.010%	0.014	0.004	0.038	0.022
%RSD		0.000	2.943	1.305	1.072	6.907	3.059	3.845	2.529

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	95.395%	2.547	0.281	0.270	416.100	412.200	103.976%	102.978%
2	23:03:59	97.631%	2.520	0.287	0.271	414.000	412.500	106.963%	106.475%
3	23:04:42	97.481%	2.589	0.315	0.319	415.700	414.800	108.392%	106.817%
x		96.836%	2.552	0.294	0.286	415.300	413.200	106.444%	105.423%
σ		1.250%	0.035	0.018	0.028	1.137	1.435	2.253%	2.124%
%RSD		1.290	1.373	5.976	9.744	0.274	0.347	2.117	2.015

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:16	1.415	1.403	89.080	88.060	88.640	98.151%
2	23:03:59	1.411	1.408	90.080	88.660	89.540	100.468%
3	23:04:42	1.446	1.425	91.100	89.770	90.620	100.142%
x		1.424	1.412	90.090	88.830	89.600	99.587%
σ		0.019	0.011	1.011	0.866	0.993	1.254%
%RSD		1.346	0.796	1.123	0.975	1.109	1.259

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	82.795%	5.172	26.350	25.500	0.000	344.400	25560.000	25440.000
2	23:12:11	83.083%	5.194	26.900	26.050	0.000	347.200	25630.000	25560.000
3	23:12:54	83.147%	5.025	26.030	26.740	0.000	347.400	25470.000	25480.000
x		83.008%	5.130	26.430	26.100	0.000	346.300	25550.000	25490.000
σ		0.188%	0.092	0.438	0.620	0.000	1.688	81.730	57.590
%RSD		0.226	1.796	1.658	2.374	0.000	0.487	0.320	0.226

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	97200.000	6577.000	0.000	9147.000	3784.000	3482.000	96.466%	764.300
2	23:12:11	96600.000	6522.000	0.000	9167.000	3782.000	3472.000	98.254%	760.100
3	23:12:54	96840.000	6485.000	0.000	9136.000	3810.000	3481.000	97.938%	758.500
x		96880.000	6528.000	0.000	9150.000	3792.000	3478.000	97.553%	761.000
σ		304.700	46.310	0.000	16.050	15.220	5.293	0.954%	3.012
%RSD		0.315	0.709	0.000	0.175	0.401	0.152	0.978	0.396

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	149.400	130.300	9454.000	197800.000	200500.000	112.800	225.700	148.300
2	23:12:11	146.900	127.900	9430.000	196400.000	199000.000	112.600	225.400	146.700
3	23:12:54	147.300	127.300	9359.000	195200.000	197900.000	111.200	222.000	145.000
x		147.900	128.500	9414.000	196500.000	199100.000	112.200	224.400	146.700
σ		1.319	1.581	49.360	1320.000	1314.000	0.849	2.060	1.662
%RSD		0.892	1.231	0.524	0.672	0.660	0.757	0.918	1.133

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	148.000	832.400	841.300	196.200	2.141	2.244	0.000	58.280
2	23:12:11	147.100	833.600	843.500	197.300	2.065	1.896	0.000	59.070
3	23:12:54	147.500	832.300	838.900	196.000	2.308	2.690	0.000	59.250
x		147.500	832.800	841.200	196.500	2.171	2.277	0.000	58.870
σ		0.455	0.719	2.289	0.715	0.125	0.398	0.000	0.512
%RSD		0.309	0.086	0.272	0.364	5.737	17.480	0.000	0.870

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	0.000	10.170	10.240	91.865%	0.205	0.136	3.280	3.090
2	23:12:11	0.000	10.510	10.360	93.102%	0.200	0.117	3.259	2.961
3	23:12:54	0.000	10.320	10.530	93.853%	0.182	0.147	3.288	3.051
x		0.000	10.340	10.380	92.940%	0.196	0.133	3.276	3.034
σ		0.000	0.169	0.146	1.004%	0.012	0.015	0.015	0.066
%RSD		0.000	1.631	1.403	1.080	6.206	11.260	0.459	2.180

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	93.291%	1.981	0.267	0.260	847.300	841.300	105.104%	104.953%
2	23:12:11	95.981%	1.951	0.268	0.258	840.500	833.700	109.195%	107.340%
3	23:12:54	97.103%	1.941	0.245	0.256	836.600	833.200	109.222%	108.472%
x		95.458%	1.958	0.260	0.258	841.500	836.100	107.840%	106.921%
σ		1.959%	0.021	0.013	0.002	5.415	4.538	2.370%	1.797%
%RSD		2.052	1.073	4.974	0.865	0.643	0.543	2.198	1.680

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:28	1.422	1.452	107.400	106.300	107.200	97.036%
2	23:12:11	1.500	1.493	109.300	107.400	108.200	98.718%
3	23:12:54	1.458	1.481	108.100	107.200	108.200	98.567%
x		1.460	1.475	108.200	107.000	107.800	98.107%
σ		0.039	0.021	0.961	0.591	0.585	0.931%
%RSD		2.654	1.422	0.888	0.552	0.542	0.949

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	83.099%	2.678	13.150	12.780	0.000	263.900	12130.000	12130.000
2	23:20:23	84.212%	2.647	13.440	13.040	0.000	266.600	12220.000	12190.000
3	23:21:06	84.594%	2.838	11.720	13.150	0.000	262.500	12180.000	12120.000
x		83.968%	2.721	12.770	12.990	0.000	264.300	12180.000	12150.000
σ		0.777%	0.102	0.917	0.187	0.000	2.080	42.380	40.310
%RSD		0.925	3.766	7.178	1.441	0.000	0.787	0.348	0.332

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	101500.000	7682.000	0.000	4642.000	4516.000	4157.000	93.941%	767.800
2	23:20:23	101900.000	7657.000	0.000	4665.000	4572.000	4142.000	94.958%	755.000
3	23:21:06	101600.000	7637.000	0.000	4670.000	4364.000	4130.000	95.977%	746.000
x		101700.000	7659.000	0.000	4659.000	4484.000	4143.000	94.959%	756.300
σ		175.400	22.790	0.000	14.880	107.500	13.410	1.018%	10.920
%RSD		0.172	0.298	0.000	0.319	2.398	0.324	1.072	1.444

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	202.300	103.400	2078.000	148300.000	149400.000	24.340	65.080	43.430
2	23:20:23	204.700	104.500	2088.000	148900.000	150200.000	24.440	64.770	43.600
3	23:21:06	202.200	103.200	2084.000	147600.000	148700.000	24.300	64.160	43.000
x		203.100	103.700	2083.000	148300.000	149400.000	24.360	64.670	43.340
σ		1.407	0.680	5.023	656.500	713.200	0.072	0.468	0.311
%RSD		0.693	0.656	0.241	0.443	0.477	0.294	0.724	0.716

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	44.330	288.200	288.200	72.250	3.141	2.913	0.000	34.410
2	23:20:23	43.710	291.000	293.700	72.820	3.256	2.283	0.000	34.780
3	23:21:06	43.220	288.500	288.200	71.890	3.021	3.059	0.000	34.700
x		43.750	289.200	290.000	72.320	3.139	2.752	0.000	34.630
σ		0.557	1.530	3.137	0.465	0.117	0.413	0.000	0.198
%RSD		1.274	0.529	1.082	0.643	3.733	14.990	0.000	0.571

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	0.000	7.294	7.193	91.717%	0.265	0.229	0.618	0.467
2	23:20:23	0.000	7.431	7.492	93.123%	0.280	0.257	0.474	0.380
3	23:21:06	0.000	7.277	7.447	93.484%	0.275	0.219	0.545	0.414
x		0.000	7.334	7.377	92.774%	0.273	0.235	0.546	0.420
σ		0.000	0.085	0.161	0.934%	0.008	0.020	0.072	0.044
%RSD		0.000	1.154	2.188	1.006	2.774	8.391	13.180	10.410

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	92.807%	1.808	0.137	0.161	473.100	474.200	98.089%	97.466%
2	23:20:23	95.445%	1.696	0.154	0.146	473.100	471.600	101.242%	100.579%
3	23:21:06	96.030%	1.824	0.140	0.122	474.200	473.800	101.640%	101.377%
x		94.760%	1.776	0.144	0.143	473.400	473.200	100.324%	99.807%
σ		1.717%	0.070	0.009	0.019	0.643	1.403	1.946%	2.067%
%RSD		1.812	3.923	6.436	13.610	0.136	0.296	1.939	2.071

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:40	1.504	1.527	101.800	99.110	100.100	96.336%
2	23:20:23	1.524	1.508	103.500	101.200	101.900	98.188%
3	23:21:06	1.532	1.516	103.600	100.900	102.300	98.289%
x		1.520	1.517	103.000	100.400	101.500	97.604%
σ		0.014	0.010	1.028	1.123	1.172	1.099%
%RSD		0.950	0.638	0.999	1.118	1.155	1.126

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	82.460%	4.938	15.560	16.790	0.000	261.800	15210.000	15180.000
2	23:28:37	83.161%	5.277	17.470	16.810	0.000	267.100	15360.000	15240.000
3	23:29:20	83.321%	4.983	16.700	17.340	0.000	270.400	15380.000	15220.000
x		82.980%	5.066	16.580	16.980	0.000	266.400	15320.000	15210.000
σ		0.458%	0.184	0.962	0.311	0.000	4.336	93.450	33.280
%RSD		0.552	3.630	5.804	1.833	0.000	1.628	0.610	0.219

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	121200.000	6906.000	0.000	5984.000	4350.000	4026.000	96.144%	840.000
2	23:28:37	121600.000	6906.000	0.000	6028.000	4434.000	4049.000	96.547%	847.700
3	23:29:20	122000.000	6917.000	0.000	6001.000	4571.000	4048.000	96.814%	853.400
x		121600.000	6910.000	0.000	6004.000	4451.000	4041.000	96.502%	847.000
σ		376.300	6.607	0.000	22.180	111.600	12.840	0.337%	6.702
%RSD		0.310	0.096	0.000	0.369	2.508	0.318	0.349	0.791

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	252.700	142.900	1950.000	259100.000	265100.000	30.950	87.510	116.600
2	23:28:37	255.900	144.700	1970.000	261100.000	267800.000	31.780	88.520	117.000
3	23:29:20	256.300	145.000	1980.000	261900.000	268700.000	31.740	87.710	117.200
x		255.000	144.200	1967.000	260700.000	267200.000	31.490	87.910	116.900
σ		1.990	1.123	15.260	1433.000	1871.000	0.470	0.536	0.291
%RSD		0.780	0.779	0.776	0.550	0.700	1.494	0.610	0.249

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	116.000	309.400	315.700	182.000	3.973	4.071	0.000	36.720
2	23:28:37	116.200	313.000	316.800	183.500	3.947	3.989	0.000	37.140
3	23:29:20	117.200	316.900	320.300	187.600	4.677	3.759	0.000	37.800
x		116.400	313.100	317.600	184.400	4.199	3.939	0.000	37.220
σ		0.659	3.760	2.398	2.913	0.414	0.162	0.000	0.545
%RSD		0.566	1.201	0.755	1.580	9.855	4.107	0.000	1.464

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	0.000	11.310	11.360	91.745%	0.234	0.177	0.860	0.691
2	23:28:37	0.000	11.560	11.480	92.838%	0.216	0.158	0.857	0.682
3	23:29:20	0.000	11.780	11.750	92.011%	0.243	0.152	0.788	0.671
x		0.000	11.550	11.530	92.198%	0.231	0.163	0.835	0.681
σ		0.000	0.238	0.198	0.570%	0.014	0.013	0.040	0.010
%RSD		0.000	2.064	1.718	0.618	6.022	7.997	4.819	1.440

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	93.419%	2.007	0.257	0.263	492.500	490.400	99.986%	99.276%
2	23:28:37	95.046%	2.057	0.272	0.251	496.000	494.400	101.172%	101.246%
3	23:29:20	95.207%	2.047	0.269	0.260	504.400	496.900	101.597%	101.789%
x		94.557%	2.037	0.266	0.258	497.600	493.900	100.919%	100.770%
σ		0.989%	0.026	0.008	0.006	6.131	3.260	0.835%	1.323%
%RSD		1.046	1.299	2.973	2.448	1.232	0.660	0.827	1.313

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:54	1.481	1.455	142.700	140.000	140.900	95.950%
2	23:28:37	1.523	1.505	144.400	141.400	143.000	96.782%
3	23:29:20	1.516	1.482	146.800	144.400	145.600	96.999%
x		1.507	1.481	144.600	141.900	143.200	96.577%
σ		0.022	0.025	2.059	2.264	2.370	0.554%
%RSD		1.485	1.679	1.424	1.595	1.655	0.574

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:07	79.083%	6.628	17.940	18.810	0.000	394.600	27670.000	27540.000
2	23:36:50	79.920%	6.193	17.760	19.560	0.000	396.200	27610.000	27440.000
3	23:37:33	78.889%	6.636	18.980	19.550	0.000	403.400	28020.000	27880.000
x		79.297%	6.486	18.230	19.310	0.000	398.100	27760.000	27620.000
σ		0.548%	0.253	0.661	0.428	0.000	4.713	222.100	228.000
%RSD		0.691	3.905	3.626	2.219	0.000	1.184	0.800	0.825
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:07	139400.000	6671.000	0.000	7072.000	6392.000	5632.000	90.664%	1113.000
2	23:36:50	138500.000	6666.000	0.000	7088.000	6217.000	5613.000	90.594%	1117.000
3	23:37:33	141000.000	6716.000	0.000	7185.000	6368.000	5716.000	89.829%	1131.000
x		139700.000	6684.000	0.000	7115.000	6326.000	5653.000	90.362%	1120.000
σ		1275.000	27.550	0.000	61.180	95.070	54.840	0.463%	9.291
%RSD		0.913	0.412	0.000	0.860	1.503	0.970	0.513	0.829
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:07	257.900	486.600	45470.000	221900.000	225600.000	111.700	484.200	128.900
2	23:36:50	258.500	490.900	45830.000	223100.000	225600.000	111.800	486.200	128.100
3	23:37:33	259.900	495.700	46430.000	223800.000	227000.000	113.500	489.100	130.100
x		258.800	491.100	45910.000	222900.000	226100.000	112.300	486.500	129.000
σ		1.013	4.511	483.100	967.900	799.100	1.037	2.433	1.011
%RSD		0.391	0.919	1.052	0.434	0.353	0.923	0.500	0.784
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:07	128.600	567.300	572.700	197.900	5.129	5.316	0.000	415.500
2	23:36:50	129.300	571.500	579.200	198.100	5.497	4.998	0.000	458.500
3	23:37:33	129.400	580.200	582.800	201.300	5.411	5.260	0.000	465.000
x		129.100	573.000	578.200	199.100	5.346	5.192	0.000	446.400
σ		0.439	6.605	5.134	1.893	0.192	0.170	0.000	26.930
%RSD		0.340	1.153	0.888	0.951	3.599	3.276	0.000	6.033
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:07	0.000	71.330	70.960	88.443%	1.062	0.984	1.630	1.415
2	23:36:50	0.000	73.000	72.180	88.635%	1.059	1.022	1.686	1.406
3	23:37:33	0.000	73.200	73.600	87.398%	1.104	1.017	1.596	1.369
x		0.000	72.510	72.250	88.159%	1.075	1.008	1.637	1.397
σ		0.000	1.024	1.322	0.666%	0.025	0.021	0.045	0.024
%RSD		0.000	1.412	1.829	0.755	2.325	2.056	2.766	1.737
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:07	90.997%	1.762	0.499	0.501	6338.000	6365.000	98.896%	98.439%
2	23:36:50	91.781%	1.741	0.489	0.546	6302.000	6290.000	100.445%	99.904%
3	23:37:33	91.090%	1.791	0.542	0.540	6407.000	6391.000	100.159%	99.918%
x		91.289%	1.764	0.510	0.529	6349.000	6349.000	99.834%	99.420%
σ		0.428%	0.025	0.028	0.025	52.920	52.460	0.824%	0.850%
%RSD		0.469	1.427	5.536	4.647	0.834	0.826	0.826	0.855
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:36:07	5.956	5.903	194.000	188.200	191.100	94.919%		
2	23:36:50	6.069	6.080	196.900	192.500	195.200	95.316%		
3	23:37:33	6.154	6.239	201.700	195.900	198.100	94.274%		
x		6.060	6.074	197.500	192.200	194.800	94.836%		
σ		0.099	0.168	3.904	3.818	3.536	0.526%		
%RSD		1.635	2.763	1.976	1.986	1.815	0.554		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	79.195%	5.787	25.400	26.090	0.000	400.500	71540.000	71530.000
2	23:45:03	79.895%	5.861	27.450	27.160	0.000	401.900	71210.000	71230.000
3	23:45:46	80.686%	5.372	26.950	26.060	0.000	400.100	71120.000	70790.000
x		79.925%	5.673	26.600	26.440	0.000	400.800	71290.000	71180.000
σ		0.746%	0.263	1.066	0.624	0.000	0.945	219.100	372.600
%RSD		0.933	4.642	4.006	2.361	0.000	0.236	0.307	0.523

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	120800.000	6523.000	0.000	6678.000	13640.000	12290.000	91.109%	947.700
2	23:45:03	119700.000	6416.000	0.000	6702.000	13400.000	12380.000	92.242%	947.000
3	23:45:46	118800.000	6375.000	0.000	6660.000	13710.000	12360.000	92.488%	938.900
x		119700.000	6438.000	0.000	6680.000	13580.000	12340.000	91.946%	944.500
σ		989.100	76.240	0.000	21.040	159.300	47.630	0.736%	4.869
%RSD		0.826	1.184	0.000	0.315	1.173	0.386	0.800	0.515

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	211.900	563.800	38420.000	213000.000	215600.000	90.490	1078.000	94.880
2	23:45:03	209.300	563.300	38170.000	212000.000	215100.000	90.200	1073.000	93.920
3	23:45:46	209.300	560.000	38100.000	211600.000	215200.000	89.700	1073.000	94.430
x		210.200	562.400	38230.000	212200.000	215300.000	90.130	1075.000	94.410
σ		1.514	2.059	170.200	732.100	282.000	0.401	3.075	0.481
%RSD		0.720	0.366	0.445	0.345	0.131	0.445	0.286	0.510

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	94.340	437.300	440.600	117.000	4.343	3.492	0.000	125.300
2	23:45:03	93.310	441.200	442.800	116.700	4.320	3.887	0.000	126.000
3	23:45:46	93.550	438.900	443.200	117.800	4.229	4.121	0.000	126.900
x		93.730	439.100	442.200	117.100	4.297	3.833	0.000	126.100
σ		0.543	1.950	1.431	0.560	0.060	0.318	0.000	0.798
%RSD		0.579	0.444	0.324	0.478	1.398	8.298	0.000	0.633

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	0.000	16.320	16.130	88.760%	0.401	0.337	1.663	1.548
2	23:45:03	0.000	16.680	16.390	89.101%	0.394	0.325	1.705	1.480
3	23:45:46	0.000	16.570	16.550	89.325%	0.384	0.349	1.643	1.581
x		0.000	16.520	16.360	89.062%	0.393	0.337	1.671	1.536
σ		0.000	0.187	0.212	0.284%	0.009	0.012	0.031	0.051
%RSD		0.000	1.129	1.295	0.319	2.189	3.577	1.884	3.339

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	90.974%	1.797	0.388	0.380	761.900	753.100	99.043%	98.964%
2	23:45:03	92.912%	1.801	0.383	0.357	757.800	754.800	101.245%	102.039%
3	23:45:46	93.728%	1.725	0.361	0.340	751.200	749.900	102.385%	102.623%
x		92.538%	1.774	0.377	0.359	757.000	752.600	100.891%	101.209%
σ		1.415%	0.043	0.014	0.020	5.405	2.468	1.699%	1.966%
%RSD		1.529	2.415	3.763	5.619	0.714	0.328	1.684	1.942

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:20	1.486	1.478	136.100	132.200	133.900	95.568%
2	23:45:03	1.517	1.496	136.300	132.300	134.600	96.881%
3	23:45:46	1.520	1.501	137.100	133.500	135.000	96.839%
x		1.508	1.492	136.500	132.700	134.500	96.429%
σ		0.019	0.012	0.554	0.680	0.599	0.746%
%RSD		1.280	0.823	0.406	0.512	0.446	0.774

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	94.447%	-0.040	-0.489	-0.099	0.000	-8.993	6.487	6.485
2	23:53:17	96.887%	-0.019	-0.034	-0.156	0.000	-9.462	6.503	6.360
3	23:54:00	97.450%	-0.015	-0.506	-0.118	0.000	-11.220	7.466	7.146
x		96.261%	-0.024	-0.343	-0.124	0.000	-9.892	6.819	6.663
σ		1.596%	0.014	0.268	0.029	0.000	1.175	0.561	0.422
%RSD		1.658	55.470	78.030	23.400	0.000	11.870	8.226	6.340

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	2.809	101.800	0.000	15.950	20.260	13.740	102.668%	0.396
2	23:53:17	3.632	89.310	0.000	13.860	22.780	12.740	104.627%	0.174
3	23:54:00	5.107	88.350	0.000	12.420	11.360	11.980	105.874%	0.179
x		3.850	93.160	0.000	14.080	18.130	12.820	104.390%	0.249
σ		1.164	7.505	0.000	1.773	6.000	0.886	1.616%	0.127
%RSD		30.250	8.056	0.000	12.600	33.090	6.914	1.548	50.780

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	0.035	0.031	0.933	9.583	8.960	-0.014	0.067	0.101
2	23:53:17	0.005	0.049	1.131	9.382	9.328	-0.011	0.071	0.067
3	23:54:00	0.025	0.043	1.564	11.620	11.320	-0.011	-0.015	0.050
x		0.022	0.041	1.209	10.200	9.871	-0.012	0.041	0.073
σ		0.015	0.009	0.322	1.238	1.272	0.002	0.049	0.026
%RSD		71.450	22.690	26.670	12.140	12.890	14.280	119.300	35.640

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	0.007	0.375	0.332	0.059	0.751	-0.148	0.000	0.061
2	23:53:17	0.065	0.338	0.380	0.023	0.569	-0.079	0.000	0.046
3	23:54:00	0.029	0.360	0.415	0.095	0.772	0.322	0.000	0.047
x		0.034	0.358	0.376	0.059	0.697	0.032	0.000	0.051
σ		0.029	0.019	0.042	0.036	0.112	0.254	0.000	0.008
%RSD		86.080	5.297	11.200	61.490	16.050	798.900	0.000	16.450

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	102.616%	-0.106	-0.096	104.583%	-0.007	-0.008	0.008	0.010
2	23:53:17	105.051%	-0.080	-0.106	105.995%	-0.007	-0.007	-0.033	-0.020
3	23:54:00	106.646%	-0.095	-0.109	106.907%	-0.004	-0.001	-0.010	-0.006
x		104.771%	-0.094	-0.103	105.828%	-0.006	-0.005	-0.012	-0.006
σ		2.030%	0.013	0.007	1.171%	0.002	0.004	0.021	0.015
%RSD		1.937	13.950	6.768	1.106	33.520	76.130	173.800	268.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	101.808%	1.872	-0.004	-0.011	0.128	0.096	102.237%	102.315%
2	23:53:17	104.542%	1.841	-0.003	-0.015	0.132	0.115	104.039%	103.926%
3	23:54:00	105.807%	1.784	-0.005	-0.003	0.162	0.118	104.476%	105.070%
x		104.052%	1.832	-0.004	-0.010	0.141	0.110	103.584%	103.770%
σ		2.044%	0.045	0.001	0.006	0.018	0.012	1.187%	1.384%
%RSD		1.964	2.434	28.070	62.260	13.050	10.620	1.146	1.334

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:34	-0.007	-0.010	0.037	0.035	0.038	105.608%
2	23:53:17	-0.007	-0.008	0.038	0.038	0.035	107.509%
3	23:54:00	-0.006	-0.009	0.041	0.033	0.036	108.708%
x		-0.007	-0.009	0.039	0.035	0.036	107.275%
σ		0.000	0.001	0.002	0.002	0.002	1.563%
%RSD		7.304	10.110	4.850	7.039	4.900	1.457

LCS 180-67702/2-A 4/11/2013 12:00:05 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:48	80.334%	46.990	919.300	921.800	0.000	47320.000	47650.000	47530.000
2	00:01:31	81.903%	45.670	897.400	904.500	0.000	46100.000	46000.000	45990.000
3	00:02:14	80.278%	46.630	935.000	943.400	0.000	47610.000	47360.000	47400.000
x		80.838%	46.430	917.200	923.300	0.000	47010.000	47000.000	46970.000
σ		0.922%	0.682	18.870	19.500	0.000	801.800	880.600	853.200
%RSD		1.141	1.469	2.057	2.112	0.000	1.706	1.874	1.816
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:48	1994.000	4690.000	0.000	47030.000	46790.000	47520.000	86.299%	927.100
2	00:01:31	1950.000	4550.000	0.000	46000.000	45890.000	46230.000	87.283%	898.200
3	00:02:14	2002.000	4689.000	0.000	46970.000	46860.000	47630.000	86.175%	927.600
x		1982.000	4643.000	0.000	46670.000	46510.000	47130.000	86.586%	917.600
σ		28.250	80.830	0.000	577.300	538.500	774.900	0.607%	16.870
%RSD		1.425	1.741	0.000	1.237	1.158	1.644	0.702	1.839
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:48	472.100	185.700	439.000	1032.000	1003.000	465.300	467.600	239.100
2	00:01:31	459.000	180.100	427.100	1000.000	964.000	451.200	455.100	229.900
3	00:02:14	471.700	184.400	441.300	1031.000	995.100	467.100	470.600	237.800
x		467.600	183.400	435.800	1021.000	987.500	461.200	464.400	235.600
σ		7.441	2.918	7.629	17.840	20.730	8.695	8.240	5.018
%RSD		1.591	1.591	1.751	1.748	2.100	1.885	1.774	2.130
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:48	238.600	452.800	454.700	35.190	9.555	9.443	0.000	1041.000
2	00:01:31	230.800	439.500	441.300	34.670	9.356	8.380	0.000	1023.000
3	00:02:14	238.300	456.300	457.800	35.470	9.424	8.877	0.000	1042.000
x		235.900	449.600	451.300	35.110	9.445	8.900	0.000	1036.000
σ		4.398	8.875	8.805	0.407	0.101	0.532	0.000	10.640
%RSD		1.864	1.974	1.951	1.159	1.070	5.981	0.000	1.027
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:48	82.884%	969.800	969.200	86.066%	45.380	45.560	45.810	36.040
2	00:01:31	84.729%	954.100	944.000	86.944%	44.690	44.600	44.490	36.290
3	00:02:14	83.554%	972.500	966.600	86.139%	45.490	45.780	45.700	36.850
x		83.723%	965.500	959.900	86.383%	45.190	45.310	45.340	36.390
σ		0.934%	9.925	13.880	0.487%	0.434	0.627	0.732	0.416
%RSD		1.116	1.028	1.446	0.564	0.959	1.384	1.614	1.143
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:48	86.234%	2082.000	456.100	453.900	1857.000	1853.000	91.055%	91.409%
2	00:01:31	88.698%	1999.000	439.700	443.000	1819.000	1805.000	93.065%	94.540%
3	00:02:14	86.919%	2068.000	454.200	453.000	1847.000	1841.000	92.712%	94.159%
x		87.284%	2049.000	450.000	450.000	1841.000	1833.000	92.277%	93.369%
σ		1.272%	44.320	8.953	6.048	19.610	24.750	1.073%	1.709%
%RSD		1.457	2.163	1.990	1.344	1.065	1.350	1.163	1.830
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:00:48	45.160	44.930	17.410	18.940	18.200	91.868%		
2	00:01:31	44.520	44.190	17.140	18.660	17.950	94.262%		
3	00:02:14	45.690	45.460	17.450	19.280	18.270	93.624%		
x		45.120	44.860	17.330	18.960	18.140	93.251%		
σ		0.585	0.637	0.171	0.310	0.169	1.240%		
%RSD		1.297	1.421	0.985	1.634	0.932	1.329		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	71.925%	6.846	44.280	41.850	0.000	881.200	29440.000	29260.000
2	00:09:46	71.593%	7.051	42.140	42.650	0.000	925.500	30330.000	30140.000
3	00:10:29	74.706%	6.350	39.510	39.700	0.000	882.200	29140.000	28970.000
x		72.741%	6.749	41.980	41.400	0.000	896.300	29640.000	29460.000
σ		1.709%	0.361	2.385	1.527	0.000	25.280	617.700	608.600
%RSD		2.350	5.347	5.682	3.688	0.000	2.821	2.084	2.066

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	137500.000	9893.000	0.000	9826.000	39790.000	40840.000	82.846%	1246.000
2	00:09:46	142400.000	10130.000	0.000	10110.000	41050.000	41990.000	84.109%	1275.000
3	00:10:29	137000.000	9724.000	0.000	9865.000	40020.000	41070.000	85.486%	1253.000
x		139000.000	9916.000	0.000	9933.000	40290.000	41300.000	84.147%	1258.000
σ		2971.000	203.500	0.000	153.400	673.300	610.000	1.320%	15.260
%RSD		2.137	2.053	0.000	1.544	1.671	1.477	1.569	1.213

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	249.400	301.400	127800.000	211500.000	215500.000	83.640	335.500	135.800
2	00:09:46	255.400	310.200	130600.000	217100.000	220700.000	85.420	346.200	138.200
3	00:10:29	250.000	302.000	127300.000	212200.000	214900.000	83.370	338.600	135.200
x		251.600	304.500	128600.000	213600.000	217000.000	84.140	340.100	136.400
σ		3.291	4.936	1767.000	3053.000	3161.000	1.117	5.490	1.564
%RSD		1.308	1.621	1.374	1.429	1.456	1.327	1.614	1.147

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	136.200	1068.000	1077.000	125.900	5.425	5.559	0.000	593.100
2	00:09:46	139.500	1101.000	1116.000	129.500	5.290	5.127	0.000	610.300
3	00:10:29	135.900	1074.000	1087.000	125.300	5.179	5.631	0.000	598.800
x		137.200	1081.000	1093.000	126.900	5.298	5.439	0.000	600.700
σ		1.999	17.270	20.410	2.256	0.123	0.273	0.000	8.740
%RSD		1.458	1.598	1.867	1.777	2.330	5.016	0.000	1.455

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	0.000	13.020	13.190	81.161%	2.890	2.651	3.036	3.013
2	00:09:46	0.000	13.670	13.920	81.914%	2.839	2.777	3.205	3.033
3	00:10:29	0.000	13.480	13.640	83.141%	2.853	2.748	3.038	2.910
x		0.000	13.390	13.580	82.072%	2.861	2.725	3.093	2.986
σ		0.000	0.331	0.366	1.000%	0.026	0.066	0.097	0.066
%RSD		0.000	2.473	2.695	1.218	0.916	2.427	3.136	2.206

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	83.330%	3.247	0.644	0.651	2758.000	3402.000	91.615%	91.996%
2	00:09:46	85.413%	2.965	0.644	0.648	2969.000	3488.000	93.365%	93.802%
3	00:10:29	86.496%	2.805	0.651	0.675	2862.000	3406.000	95.935%	96.216%
x		85.080%	3.005	0.646	0.658	2863.000	3432.000	93.639%	94.004%
σ		1.610%	0.224	0.004	0.015	105.800	48.320	2.173%	2.117%
%RSD		1.892	7.445	0.613	2.214	3.695	1.408	2.320	2.252

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:03	5.419	5.385	271.300	270.000	270.800	89.667%
2	00:09:46	5.629	5.608	284.200	282.000	282.600	90.133%
3	00:10:29	5.590	5.604	283.800	281.800	282.600	90.683%
x		5.546	5.533	279.800	277.900	278.700	90.161%
σ		0.112	0.128	7.326	6.906	6.838	0.509%
%RSD		2.010	2.307	2.618	2.485	2.454	0.564

CCV 781130 4/11/2013 12:16:33 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:16	80.237%	102.700	107.900	103.600	0.000	51390.000	51440.000	51350.000
2	00:17:59	80.627%	103.000	104.500	107.600	0.000	51790.000	51850.000	51560.000
3	00:18:42	81.491%	103.100	104.000	105.700	0.000	51410.000	51650.000	51150.000
x		80.785%	102.949%	105.460%	105.629%	0.000	103.061%	103.284%	102.711%
σ		0.642%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.794	0.205	2.017	1.889	0.000	0.433	0.397	0.392
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:16	510.800	5556.000	0.000	51080.000	49210.000	50590.000	85.641%	99.000
2	00:17:59	509.800	5569.000	0.000	51230.000	50070.000	51090.000	85.349%	100.700
3	00:18:42	508.500	5512.000	0.000	50930.000	49620.000	50820.000	85.422%	100.200
x		101.939%	110.913%	0.000	102.158%	99.271%	101.666%	85.471%	99.972%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.152%	n/a
%RSD		0.223	0.539	0.000	0.300	0.862	0.501	0.178	0.873
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:16	98.660	99.180	447.000	25700.000	23860.000	100.800	100.400	100.700
2	00:17:59	100.300	100.600	476.600	25890.000	24160.000	101.100	101.300	101.700
3	00:18:42	99.430	99.950	473.700	25740.000	23560.000	100.300	100.800	101.300
x		99.479%	99.922%	93.158%	103.111%	95.437%	100.734%	100.827%	101.196%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.848	0.724	3.503	0.379	1.249	0.377	0.423	0.505
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:16	101.500	99.180	99.240	97.430	99.350	97.890	0.000	98.850
2	00:17:59	101.200	99.820	100.600	100.000	99.600	101.100	0.000	100.000
3	00:18:42	100.900	100.800	99.880	97.900	98.510	97.540	0.000	100.100
x		101.168%	99.930%	99.910%	98.444%	99.154%	98.862%	0.000	99.642%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.301	0.811	0.687	1.386	0.579	2.012	0.000	0.688
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:16	86.417%	97.090	97.070	86.160%	97.360	97.650	98.550	99.190
2	00:17:59	86.650%	100.600	101.400	85.779%	98.460	99.100	98.620	99.890
3	00:18:42	86.724%	101.000	102.100	85.631%	98.770	98.840	98.780	99.370
x		86.597%	99.565%	100.185%	85.856%	98.197%	98.532%	98.649%	99.486%
σ		0.160%	n/a	n/a	0.273%	n/a	n/a	n/a	n/a
%RSD		0.185	2.160	2.724	0.318	0.754	0.784	0.118	0.367
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:16	86.150%	98.540	98.310	98.290	100.400	100.600	88.998%	90.013%
2	00:17:59	87.245%	99.140	99.180	98.540	100.300	100.100	90.908%	91.452%
3	00:18:42	86.991%	100.000	98.900	99.030	100.900	100.300	90.483%	91.797%
x		86.795%	99.227%	98.798%	98.620%	100.533%	100.315%	90.129%	91.087%
σ		0.573%	n/a	n/a	n/a	n/a	n/a	1.003%	0.946%
%RSD		0.660	0.742	0.448	0.384	0.299	0.238	1.113	1.039
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:17:16	96.040	95.590	95.220	95.890	95.440	91.873%		
2	00:17:59	97.830	97.870	98.000	96.620	97.670	92.037%		
3	00:18:42	98.300	97.990	97.820	98.160	98.090	91.395%		
x		97.389%	97.150%	97.014%	96.891%	97.067%	91.768%		
σ		n/a	n/a	n/a	n/a	n/a	0.334%		
%RSD		1.222	1.392	1.605	1.196	1.467	0.364		

CCB3 4/11/2013 12:24:49 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	106.082%	-0.014	1.064	1.032	0.000	-8.659	2.545	2.243
2	00:26:15	107.070%	-0.015	0.785	1.009	0.000	-9.931	2.744	2.624
3	00:26:58	109.549%	-0.008	0.677	1.028	0.000	-10.140	3.254	3.578
x		107.567%	-0.013	0.842	1.023	0.000	-9.576	2.848	2.815
σ		1.786%	0.004	0.200	0.012	0.000	0.800	0.366	0.688
%RSD		1.661	29.670	23.720	1.178	0.000	8.360	12.850	24.440

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	2.218	-109.800	0.000	-0.377	8.725	-3.249	102.701%	0.035
2	00:26:15	2.424	-121.100	0.000	-0.525	11.480	-10.990	104.494%	0.001
3	00:26:58	2.680	-118.100	0.000	0.305	9.920	-3.317	104.870%	0.072
x		2.441	-116.400	0.000	-0.199	10.040	-5.852	104.022%	0.036
σ		0.231	5.856	0.000	0.443	1.381	4.451	1.159%	0.035
%RSD		9.464	5.033	0.000	222.600	13.750	76.050	1.114	97.660

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	0.009	0.006	0.084	0.243	1.523	-0.005	0.070	0.205
2	00:26:15	0.041	0.013	0.145	-0.841	0.936	-0.010	0.056	0.234
3	00:26:58	0.020	0.001	0.349	-0.252	2.421	-0.001	0.095	0.250
x		0.024	0.007	0.193	-0.283	1.627	-0.005	0.074	0.230
σ		0.016	0.006	0.139	0.543	0.748	0.004	0.020	0.023
%RSD		69.880	85.300	72.000	191.700	45.990	76.380	27.040	9.925

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	0.219	2.083	2.232	-0.129	-0.117	-0.579	0.000	0.048
2	00:26:15	0.202	2.137	2.128	-0.190	-0.334	-0.984	0.000	0.043
3	00:26:58	0.241	1.962	2.264	-0.109	0.015	-0.603	0.000	0.049
x		0.221	2.061	2.208	-0.143	-0.146	-0.722	0.000	0.047
σ		0.020	0.089	0.071	0.042	0.176	0.227	0.000	0.003
%RSD		9.002	4.327	3.219	29.750	120.900	31.470	0.000	6.575

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	97.421%	0.174	0.189	100.264%	-0.004	-0.002	-0.018	0.001
2	00:26:15	99.382%	0.220	0.180	101.234%	-0.004	-0.000	-0.034	-0.016
3	00:26:58	99.909%	0.160	0.161	100.950%	0.002	0.006	0.000	0.007
x		98.904%	0.185	0.177	100.816%	-0.002	0.001	-0.017	-0.003
σ		1.311%	0.032	0.014	0.498%	0.004	0.004	0.017	0.012
%RSD		1.326	17.030	7.962	0.494	212.900	300.300	99.120	461.800

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	90.073%	0.249	0.007	0.010	0.042	0.050	91.378%	92.157%
2	00:26:15	91.803%	0.256	0.004	0.017	0.064	0.058	93.305%	93.065%
3	00:26:58	92.346%	0.268	0.015	0.018	0.064	0.057	93.709%	93.681%
x		91.407%	0.258	0.009	0.015	0.057	0.055	92.797%	92.968%
σ		1.187%	0.009	0.006	0.004	0.013	0.004	1.246%	0.767%
%RSD		1.298	3.641	65.100	29.120	22.330	7.285	1.343	0.825

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:32	0.015	0.012	0.019	0.019	0.019	97.455%
2	00:26:15	0.005	0.011	0.018	0.021	0.021	98.626%
3	00:26:58	0.007	0.003	0.037	0.024	0.029	99.209%
x		0.009	0.009	0.025	0.021	0.023	98.430%
σ		0.005	0.005	0.011	0.003	0.005	0.893%
%RSD		59.170	57.560	43.650	12.090	22.630	0.908

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	78.546%	1.418	8.028	7.345	0.000	157.500	5432.000	5479.000
2	00:34:32	80.287%	1.487	8.258	7.277	0.000	160.100	5442.000	5453.000
3	00:35:15	80.230%	1.256	7.039	7.767	0.000	160.200	5457.000	5485.000
x		79.687%	1.387	7.775	7.463	0.000	159.300	5444.000	5472.000
σ		0.989%	0.119	0.648	0.265	0.000	1.530	12.650	17.080
%RSD		1.241	8.558	8.332	3.554	0.000	0.961	0.232	0.312

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	28150.000	2363.000	0.000	2109.000	8487.000	7656.000	85.696%	259.500
2	00:34:32	27910.000	2313.000	0.000	2097.000	8342.000	7707.000	86.790%	259.400
3	00:35:15	28050.000	2309.000	0.000	2097.000	8354.000	7715.000	87.067%	258.300
x		28040.000	2329.000	0.000	2101.000	8394.000	7693.000	86.518%	259.100
σ		119.300	29.830	0.000	6.787	80.520	31.760	0.725%	0.666
%RSD		0.425	1.281	0.000	0.323	0.959	0.413	0.838	0.257

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	51.400	62.400	26380.000	44020.000	43740.000	16.770	68.710	27.370
2	00:34:32	51.750	62.430	26250.000	43830.000	43720.000	16.800	68.980	27.560
3	00:35:15	51.520	61.830	26310.000	43700.000	43830.000	16.730	68.940	27.490
x		51.560	62.220	26310.000	43850.000	43760.000	16.770	68.880	27.470
σ		0.177	0.335	65.590	159.300	60.480	0.038	0.146	0.100
%RSD		0.344	0.538	0.249	0.363	0.138	0.228	0.212	0.364

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	26.950	213.300	214.900	23.640	1.007	-0.532	0.000	96.380
2	00:34:32	27.600	214.000	215.800	23.590	0.944	-0.246	0.000	97.090
3	00:35:15	26.970	215.400	217.800	24.250	0.693	-0.333	0.000	97.640
x		27.170	214.200	216.200	23.830	0.881	-0.370	0.000	97.040
σ		0.367	1.106	1.485	0.369	0.166	0.147	0.000	0.635
%RSD		1.349	0.516	0.687	1.548	18.870	39.590	0.000	0.655

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	96.084%	3.026	3.095	87.608%	0.565	0.578	0.576	0.595
2	00:34:32	97.484%	3.275	3.208	87.628%	0.543	0.525	0.535	0.532
3	00:35:15	97.475%	3.234	3.399	88.150%	0.542	0.547	0.686	0.606
x		97.015%	3.178	3.234	87.795%	0.550	0.550	0.599	0.578
σ		0.806%	0.133	0.153	0.307%	0.013	0.027	0.078	0.040
%RSD		0.830	4.191	4.742	0.350	2.314	4.828	13.050	6.934

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	86.958%	0.469	0.135	0.121	643.000	642.300	90.458%	90.907%
2	00:34:32	89.814%	0.521	0.132	0.119	634.500	633.800	92.707%	93.888%
3	00:35:15	89.921%	0.525	0.116	0.116	635.500	634.400	94.094%	94.085%
x		88.897%	0.505	0.128	0.119	637.700	636.800	92.420%	92.960%
σ		1.681%	0.031	0.010	0.003	4.674	4.737	1.835%	1.781%
%RSD		1.891	6.177	7.723	2.243	0.733	0.744	1.985	1.916

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:49	1.123	1.086	55.260	54.980	55.060	92.837%
2	00:34:32	1.111	1.128	56.830	56.100	56.420	92.710%
3	00:35:15	1.158	1.115	57.310	56.810	56.920	91.972%
x		1.131	1.110	56.470	55.960	56.140	92.506%
σ		0.024	0.022	1.071	0.921	0.962	0.467%
%RSD		2.138	1.947	1.897	1.645	1.713	0.505

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	67.638%	54.120	966.300	947.900	0.000	49190.000	80330.000	80380.000
2	00:42:47	69.141%	55.600	955.600	961.400	0.000	49230.000	81030.000	81030.000
3	00:43:30	70.056%	54.190	971.500	962.900	0.000	49410.000	81100.000	80400.000
x		68.945%	54.640	964.500	957.400	0.000	49280.000	80820.000	80600.000
σ		1.221%	0.833	8.088	8.230	0.000	121.200	427.500	371.900
%RSD		1.771	1.525	0.839	0.860	0.000	0.246	0.529	0.461

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	197400.000	16520.000	0.000	63610.000	89720.000	91680.000	82.875%	2599.000
2	00:42:47	197500.000	16510.000	0.000	63770.000	90630.000	91780.000	84.962%	2624.000
3	00:43:30	197100.000	16380.000	0.000	63570.000	90930.000	91800.000	85.258%	2614.000
x		197300.000	16470.000	0.000	63650.000	90430.000	91750.000	84.365%	2612.000
σ		204.200	79.180	0.000	103.900	626.500	64.810	1.299%	12.390
%RSD		0.103	0.481	0.000	0.163	0.693	0.071	1.539	0.474

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	754.500	523.300	175300.000	210900.000	213800.000	514.100	769.800	367.400
2	00:42:47	764.100	525.300	175200.000	211000.000	214100.000	514.200	768.500	364.900
3	00:43:30	763.700	527.100	175900.000	212100.000	215900.000	519.900	773.600	370.100
x		760.800	525.200	175500.000	211300.000	214600.000	516.000	770.600	367.400
σ		5.426	1.939	383.700	644.500	1107.000	3.307	2.639	2.629
%RSD		0.713	0.369	0.219	0.305	0.516	0.641	0.343	0.715

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	367.500	1632.000	1636.000	179.100	13.100	12.610	0.000	1960.000
2	00:42:47	367.800	1641.000	1656.000	179.200	13.470	13.370	0.000	1965.000
3	00:43:30	370.500	1651.000	1670.000	180.600	13.590	13.330	0.000	1961.000
x		368.600	1641.000	1654.000	179.600	13.390	13.100	0.000	1962.000
σ		1.653	9.472	16.900	0.861	0.253	0.426	0.000	2.517
%RSD		0.448	0.577	1.022	0.479	1.886	3.253	0.000	0.128

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	0.000	885.000	887.400	78.388%	47.340	46.990	48.340	46.490
2	00:42:47	0.000	894.400	896.700	80.110%	47.440	47.440	49.040	46.670
3	00:43:30	0.000	903.300	907.400	80.251%	47.850	47.180	48.660	46.510
x		0.000	894.200	897.100	79.583%	47.540	47.200	48.680	46.560
σ		0.000	9.143	10.030	1.037%	0.272	0.225	0.350	0.099
%RSD		0.000	1.022	1.118	1.303	0.571	0.477	0.719	0.213

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	81.889%	657.600	128.700	128.100	6655.000	6655.000	90.524%	91.531%
2	00:42:47	83.816%	666.100	128.700	128.500	6650.000	6632.000	93.524%	94.591%
3	00:43:30	84.619%	664.100	128.500	129.000	6595.000	6611.000	94.415%	94.887%
x		83.441%	662.600	128.600	128.600	6633.000	6633.000	92.821%	93.670%
σ		1.403%	4.444	0.145	0.473	33.180	21.970	2.039%	1.858%
%RSD		1.682	0.671	0.113	0.368	0.500	0.331	2.196	1.983

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:04	48.640	48.670	266.700	266.600	265.900	88.147%
2	00:42:47	48.980	49.170	270.100	270.800	270.300	89.891%
3	00:43:30	50.260	50.210	276.100	276.900	275.200	88.747%
x		49.290	49.350	271.000	271.400	270.500	88.928%
σ		0.856	0.787	4.783	5.199	4.663	0.886%
%RSD		1.737	1.595	1.765	1.915	1.724	0.997

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	66.259%	56.520	965.100	963.300	0.000	49480.000	82040.000	81660.000
2	00:51:03	68.602%	54.530	964.100	964.200	0.000	48840.000	81330.000	80820.000
3	00:51:46	69.092%	54.900	961.000	966.700	0.000	49050.000	81490.000	81210.000
x		67.984%	55.320	963.400	964.700	0.000	49120.000	81620.000	81230.000
σ		1.514%	1.058	2.147	1.759	0.000	327.400	370.600	420.200
%RSD		2.227	1.912	0.223	0.182	0.000	0.666	0.454	0.517

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	203700.000	16440.000	0.000	61250.000	91720.000	93410.000	81.757%	2590.000
2	00:51:03	201100.000	16290.000	0.000	61210.000	91940.000	92800.000	84.437%	2588.000
3	00:51:46	201900.000	16260.000	0.000	62160.000	92580.000	93150.000	84.188%	2607.000
x		202200.000	16330.000	0.000	61540.000	92080.000	93120.000	83.461%	2595.000
σ		1315.000	98.750	0.000	538.700	451.100	308.300	1.481%	10.560
%RSD		0.650	0.605	0.000	0.875	0.490	0.331	1.774	0.407

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	767.700	524.500	170300.000	222900.000	226000.000	527.200	785.300	356.300
2	00:51:03	764.800	521.000	170000.000	222200.000	224500.000	526.200	787.700	356.400
3	00:51:46	772.500	528.100	170700.000	223600.000	228400.000	529.700	788.200	356.300
x		768.400	524.500	170300.000	222900.000	226300.000	527.700	787.100	356.300
σ		3.869	3.534	344.700	669.700	1931.000	1.796	1.547	0.051
%RSD		0.503	0.674	0.202	0.300	0.853	0.340	0.197	0.014

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	357.800	1636.000	1655.000	174.300	13.550	14.530	0.000	1716.000
2	00:51:03	358.900	1642.000	1652.000	174.700	13.420	13.780	0.000	1732.000
3	00:51:46	360.000	1660.000	1680.000	176.000	13.690	13.610	0.000	1735.000
x		358.900	1646.000	1662.000	175.000	13.550	13.980	0.000	1728.000
σ		1.124	12.520	15.150	0.884	0.135	0.488	0.000	10.250
%RSD		0.313	0.760	0.912	0.505	0.999	3.493	0.000	0.594

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	0.000	880.900	885.700	77.496%	47.330	47.250	49.020	47.340
2	00:51:03	0.000	900.200	903.700	78.807%	47.640	47.200	49.430	47.190
3	00:51:46	0.000	901.600	910.100	79.370%	47.790	47.530	49.800	47.320
x		0.000	894.200	899.800	78.558%	47.590	47.330	49.410	47.280
σ		0.000	11.530	12.640	0.962%	0.236	0.177	0.390	0.083
%RSD		0.000	1.290	1.405	1.224	0.496	0.375	0.790	0.175

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	80.429%	630.000	120.300	120.500	10020.000	10070.000	90.671%	91.017%
2	00:51:03	83.322%	633.400	121.500	120.200	10010.000	10010.000	93.639%	93.950%
3	00:51:46	83.908%	633.500	121.000	121.100	10050.000	10040.000	94.184%	94.487%
x		82.553%	632.300	120.900	120.600	10030.000	10040.000	92.831%	93.151%
σ		1.863%	1.998	0.587	0.454	17.830	30.850	1.890%	1.868%
%RSD		2.256	0.316	0.485	0.376	0.178	0.307	2.036	2.005

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:20	49.060	49.200	232.800	232.600	232.900	86.673%
2	00:51:03	49.660	50.070	236.600	236.900	236.900	88.367%
3	00:51:46	50.260	50.740	240.900	240.400	240.500	88.123%
x		49.660	50.000	236.800	236.600	236.800	87.721%
σ		0.599	0.775	4.025	3.892	3.768	0.916%
%RSD		1.205	1.550	1.700	1.645	1.591	1.044

240-22141-B-1-E PDS 4/11/2013 12:57:52 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:34	67.095%	57.870	1080.000	1079.000	0.000	53640.000	81580.000	81250.000
2	00:59:17	68.121%	59.010	1086.000	1085.000	0.000	54120.000	81350.000	81000.000
3	01:00:00	68.453%	58.620	1083.000	1086.000	0.000	53470.000	81240.000	80600.000
x		67.890%	58.500	1083.000	1083.000	0.000	53740.000	81390.000	80950.000
σ		0.708%	0.580	3.013	4.012	0.000	337.700	173.900	328.600
%RSD		1.043	0.992	0.278	0.370	0.000	0.628	0.214	0.406
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:34	138100.000	19850.000	0.000	58940.000	87620.000	89180.000	80.421%	2168.000
2	00:59:17	138900.000	19810.000	0.000	59830.000	88230.000	88790.000	81.741%	2167.000
3	01:00:00	137000.000	19610.000	0.000	59240.000	87380.000	89070.000	82.530%	2166.000
x		138000.000	19760.000	0.000	59340.000	87740.000	89010.000	81.564%	2167.000
σ		983.600	129.800	0.000	455.000	440.900	197.900	1.065%	0.938
%RSD		0.713	0.657	0.000	0.767	0.502	0.222	1.306	0.043
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:34	732.200	486.900	124700.000	206800.000	209800.000	571.000	814.000	373.700
2	00:59:17	737.100	486.500	124900.000	206300.000	209300.000	566.500	806.700	373.200
3	01:00:00	732.200	486.600	124600.000	205600.000	208400.000	564.300	806.100	371.700
x		733.800	486.700	124700.000	206200.000	209200.000	567.300	808.900	372.900
σ		2.811	0.221	179.700	627.200	715.300	3.387	4.393	0.997
%RSD		0.383	0.045	0.144	0.304	0.342	0.597	0.543	0.267
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:34	375.800	1520.000	1539.000	160.900	14.720	15.590	0.000	1716.000
2	00:59:17	374.200	1527.000	1539.000	160.200	14.480	14.880	0.000	1722.000
3	01:00:00	370.600	1520.000	1539.000	159.100	15.290	15.170	0.000	1710.000
x		373.500	1522.000	1539.000	160.100	14.830	15.220	0.000	1716.000
σ		2.648	3.980	0.077	0.947	0.415	0.360	0.000	5.705
%RSD		0.709	0.261	0.005	0.592	2.799	2.363	0.000	0.332
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:34	0.000	1044.000	1050.000	77.150%	53.000	53.360	53.450	42.460
2	00:59:17	0.000	1053.000	1060.000	79.067%	53.240	53.190	53.780	42.610
3	01:00:00	0.000	1052.000	1053.000	79.610%	52.920	53.020	53.060	43.010
x		0.000	1050.000	1054.000	78.609%	53.050	53.190	53.430	42.690
σ		0.000	4.978	5.197	1.292%	0.162	0.171	0.362	0.281
%RSD		0.000	0.474	0.493	1.644	0.306	0.322	0.677	0.658
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:34	79.320%	2227.000	482.500	478.700	5564.000	5540.000	89.457%	89.700%
2	00:59:17	81.125%	2228.000	491.200	488.500	5546.000	5529.000	92.620%	92.317%
3	01:00:00	82.067%	2231.000	494.500	492.800	5553.000	5536.000	92.623%	93.358%
x		80.837%	2229.000	489.400	486.700	5554.000	5535.000	91.566%	91.792%
σ		1.396%	1.981	6.188	7.224	9.095	5.487	1.827%	1.884%
%RSD		1.727	0.089	1.264	1.484	0.164	0.099	1.995	2.053
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:58:34	55.500	55.540	288.100	286.400	287.200	85.847%		
2	00:59:17	55.780	55.930	291.500	291.400	290.600	87.652%		
3	01:00:00	55.800	56.090	292.800	292.700	292.200	88.167%		
x		55.690	55.860	290.800	290.200	290.000	87.222%		
σ		0.171	0.287	2.395	3.308	2.531	1.218%		
%RSD		0.307	0.514	0.824	1.140	0.873	1.397		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	66.699%	5.841	43.270	43.150	0.000	584.500	18750.000	18560.000
2	01:07:30	67.422%	6.059	41.370	41.550	0.000	586.000	18580.000	18480.000
3	01:08:13	67.267%	5.384	41.170	42.940	0.000	590.600	18600.000	18560.000
x		67.129%	5.761	41.940	42.550	0.000	587.000	18640.000	18530.000
σ		0.381%	0.344	1.160	0.870	0.000	3.174	92.810	47.860
%RSD		0.567	5.977	2.766	2.044	0.000	0.541	0.498	0.258

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	120000.000	6237.000	0.000	8782.000	13490.000	12140.000	75.764%	890.700
2	01:07:30	119900.000	6171.000	0.000	8728.000	13350.000	12200.000	76.613%	878.900
3	01:08:13	120000.000	6135.000	0.000	8779.000	13300.000	12300.000	76.359%	883.400
x		120000.000	6181.000	0.000	8763.000	13380.000	12210.000	76.246%	884.300
σ		31.480	51.910	0.000	29.860	96.840	85.810	0.435%	5.944
%RSD		0.026	0.840	0.000	0.341	0.724	0.703	0.571	0.672

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	280.300	139.500	228500.000	225200.000	228300.000	102.100	310.600	166.600
2	01:07:30	277.900	138.700	227800.000	224500.000	226900.000	101.800	307.000	165.500
3	01:08:13	280.000	139.500	229000.000	224800.000	227400.000	102.800	309.300	166.500
x		279.400	139.200	228400.000	224800.000	227500.000	102.200	309.000	166.200
σ		1.309	0.492	605.100	369.800	734.900	0.469	1.790	0.606
%RSD		0.469	0.354	0.265	0.165	0.323	0.459	0.579	0.364

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	167.300	1509.000	1518.000	146.000	4.484	4.927	0.000	351.800
2	01:07:30	167.600	1522.000	1536.000	147.200	4.703	4.709	0.000	355.300
3	01:08:13	169.000	1519.000	1539.000	146.900	4.418	5.036	0.000	357.400
x		168.000	1517.000	1531.000	146.700	4.535	4.891	0.000	354.800
σ		0.918	7.068	11.280	0.615	0.149	0.167	0.000	2.846
%RSD		0.546	0.466	0.737	0.419	3.293	3.410	0.000	0.802

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	0.000	20.350	19.660	76.524%	3.567	3.579	3.445	3.318
2	01:07:30	0.000	20.010	19.550	77.255%	3.638	3.561	3.367	3.255
3	01:08:13	0.000	19.630	19.350	77.609%	3.608	3.532	3.292	3.173
x		0.000	19.990	19.520	77.129%	3.604	3.557	3.368	3.249
σ		0.000	0.361	0.154	0.553%	0.036	0.024	0.076	0.073
%RSD		0.000	1.803	0.789	0.717	0.996	0.676	2.267	2.236

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	78.435%	4.218	2.679	2.602	10850.000	10910.000	87.318%	87.537%
2	01:07:30	80.406%	3.674	2.250	2.279	10790.000	10820.000	90.047%	90.546%
3	01:08:13	81.644%	3.052	1.782	1.801	10700.000	10760.000	90.565%	91.387%
x		80.162%	3.648	2.237	2.227	10780.000	10830.000	89.310%	89.823%
σ		1.618%	0.583	0.449	0.403	76.730	76.340	1.745%	2.024%
%RSD		2.018	15.990	20.070	18.090	0.712	0.705	1.953	2.253

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:47	3.125	3.098	447.800	459.600	476.800	85.474%
2	01:07:30	3.132	3.148	452.000	462.900	479.600	87.134%
3	01:08:13	3.168	3.144	453.100	465.300	480.800	87.567%
x		3.142	3.130	451.000	462.600	479.000	86.725%
σ		0.023	0.028	2.790	2.849	2.048	1.105%
%RSD		0.734	0.883	0.619	0.616	0.428	1.274

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	63.134%	8.655	53.990	55.610	0.000	1373.000	51540.000	51400.000
2	01:15:43	64.085%	9.288	56.440	55.540	0.000	1366.000	50900.000	50750.000
3	01:16:26	63.944%	8.984	53.300	56.960	0.000	1363.000	50550.000	50250.000
x		63.721%	8.976	54.580	56.040	0.000	1367.000	51000.000	50800.000
σ		0.513%	0.317	1.649	0.801	0.000	4.779	502.600	579.700
%RSD		0.806	3.529	3.021	1.429	0.000	0.349	0.986	1.141

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	121500.000	6698.000	0.000	14530.000	61480.000	63600.000	73.731%	1205.000
2	01:15:43	119800.000	6568.000	0.000	14370.000	61780.000	63320.000	74.691%	1196.000
3	01:16:26	118300.000	6479.000	0.000	14360.000	61380.000	62710.000	74.008%	1188.000
x		119900.000	6582.000	0.000	14420.000	61550.000	63210.000	74.143%	1196.000
σ		1586.000	110.000	0.000	96.890	208.400	456.600	0.494%	8.799
%RSD		1.323	1.671	0.000	0.672	0.339	0.722	0.667	0.736

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	273.000	389.000	440100.000	207700.000	211200.000	117.300	482.000	221.100
2	01:15:43	269.700	387.400	433700.000	205500.000	208500.000	116.500	476.300	218.400
3	01:16:26	267.700	383.400	431300.000	204000.000	207600.000	115.900	477.000	217.100
x		270.100	386.600	435000.000	205700.000	209100.000	116.600	478.400	218.900
σ		2.647	2.863	4535.000	1877.000	1893.000	0.733	3.077	2.038
%RSD		0.980	0.741	1.042	0.912	0.905	0.629	0.643	0.931

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	223.200	7553.000	7680.000	499.500	5.196	5.900	0.000	1111.000
2	01:15:43	221.800	7457.000	7635.000	498.100	4.883	5.630	0.000	1100.000
3	01:16:26	221.700	7445.000	7599.000	495.700	4.995	6.179	0.000	1101.000
x		222.300	7485.000	7638.000	497.700	5.025	5.903	0.000	1104.000
σ		0.853	59.180	40.870	1.912	0.159	0.275	0.000	6.182
%RSD		0.384	0.791	0.535	0.384	3.159	4.655	0.000	0.560

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	0.000	25.380	24.750	73.927%	48.900	48.300	14.060	13.890
2	01:15:43	0.000	25.930	25.180	74.537%	48.930	48.220	14.030	13.590
3	01:16:26	0.000	25.820	25.030	74.423%	48.050	48.480	13.610	13.450
x		0.000	25.710	24.990	74.296%	48.630	48.330	13.900	13.640
σ		0.000	0.293	0.214	0.324%	0.499	0.135	0.250	0.227
%RSD		0.000	1.139	0.857	0.436	1.025	0.280	1.795	1.664

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	76.319%	2.985	2.220	2.171	12320.000	12440.000	86.144%	86.644%
2	01:15:43	77.472%	3.049	2.107	2.195	12250.000	12240.000	87.781%	88.916%
3	01:16:26	76.746%	2.927	2.114	2.110	12260.000	12280.000	87.690%	88.838%
x		76.846%	2.987	2.147	2.159	12280.000	12320.000	87.205%	88.133%
σ		0.583%	0.061	0.063	0.044	38.290	103.500	0.920%	1.290%
%RSD		0.758	2.040	2.954	2.047	0.312	0.840	1.055	1.464

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:00	12.000	11.850	2200.000	2253.000	2229.000	85.184%
2	01:15:43	12.150	12.020	2208.000	2264.000	2237.000	85.391%
3	01:16:26	12.140	12.130	2206.000	2262.000	2238.000	84.768%
x		12.100	12.000	2205.000	2260.000	2235.000	85.115%
σ		0.081	0.142	4.542	5.981	4.741	0.317%
%RSD		0.672	1.188	0.206	0.265	0.212	0.373

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:23:13	62.570%	9.396	67.500	68.060	0.000	1200.000	45130.000	44770.000
2	01:23:56	64.148%	9.039	66.910	68.220	0.000	1201.000	44560.000	44390.000
3	01:24:38	65.368%	8.804	65.070	66.110	0.000	1178.000	43930.000	43680.000
x		64.029%	9.080	66.500	67.460	0.000	1193.000	44540.000	44280.000
σ		1.403%	0.298	1.271	1.171	0.000	13.190	601.000	553.400
%RSD		2.191	3.284	1.911	1.736	0.000	1.105	1.349	1.250
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:23:13	145900.000	8368.000	0.000	8476.000	148900.000	151800.000	74.216%	1360.000
2	01:23:56	144200.000	8204.000	0.000	8414.000	148000.000	150700.000	75.204%	1356.000
3	01:24:38	141800.000	8080.000	0.000	8419.000	147500.000	150000.000	75.143%	1348.000
x		144000.000	8217.000	0.000	8437.000	148100.000	150800.000	74.854%	1355.000
σ		2019.000	144.200	0.000	34.550	681.100	893.100	0.553%	6.010
%RSD		1.403	1.755	0.000	0.410	0.460	0.592	0.739	0.444
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:23:13	223.200	764.000	36730.000	207400.000	209500.000	103.500	543.800	134.200
2	01:23:56	227.100	768.300	36500.000	205800.000	208400.000	102.600	542.200	132.600
3	01:24:38	222.600	757.700	36420.000	205500.000	206900.000	101.700	533.900	131.700
x		224.300	763.300	36550.000	206200.000	208300.000	102.600	540.000	132.800
σ		2.446	5.360	161.700	1008.000	1314.000	0.909	5.302	1.244
%RSD		1.090	0.702	0.442	0.489	0.631	0.886	0.982	0.937
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:23:13	134.000	514.900	520.300	150.500	5.422	5.253	0.000	2323.000
2	01:23:56	132.000	512.400	520.700	150.900	5.180	5.315	0.000	2315.000
3	01:24:38	132.900	512.100	522.100	148.400	5.571	5.732	0.000	2317.000
x		133.000	513.100	521.000	149.900	5.391	5.433	0.000	2318.000
σ		0.977	1.525	0.970	1.327	0.197	0.260	0.000	3.880
%RSD		0.735	0.297	0.186	0.885	3.662	4.791	0.000	0.167
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:23:13	0.000	28.860	29.450	73.250%	0.487	0.433	2.266	2.140
2	01:23:56	0.000	29.230	29.120	74.725%	0.467	0.410	2.343	1.955
3	01:24:38	0.000	29.150	29.360	74.654%	0.498	0.417	2.251	2.065
x		0.000	29.080	29.310	74.210%	0.484	0.420	2.286	2.054
σ		0.000	0.191	0.173	0.832%	0.016	0.012	0.049	0.093
%RSD		0.000	0.656	0.589	1.121	3.237	2.795	2.156	4.530
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:23:13	75.941%	2.721	0.681	0.660	1797.000	1786.000	85.776%	86.925%
2	01:23:56	77.170%	2.754	0.677	0.666	1791.000	1788.000	88.135%	88.970%
3	01:24:38	77.904%	2.714	0.670	0.674	1782.000	1772.000	89.279%	89.437%
x		77.005%	2.730	0.676	0.667	1790.000	1782.000	87.730%	88.444%
σ		0.992%	0.021	0.006	0.007	7.512	8.813	1.786%	1.336%
%RSD		1.288	0.782	0.830	1.053	0.420	0.495	2.036	1.511
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:23:13	1.720	1.709	419.400	423.200	448.000	85.789%		
2	01:23:56	1.709	1.733	421.800	428.400	451.400	87.111%		
3	01:24:38	1.708	1.719	415.700	423.200	444.900	87.576%		
x		1.712	1.720	419.000	424.900	448.100	86.825%		
σ		0.007	0.012	3.036	3.000	3.251	0.927%		
%RSD		0.402	0.704	0.725	0.706	0.726	1.068		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	65.207%	5.250	35.020	35.450	0.000	994.200	32440.000	32280.000
2	01:32:09	66.177%	5.264	36.500	36.600	0.000	999.700	32420.000	32370.000
3	01:32:52	67.990%	5.353	36.430	35.400	0.000	982.500	31960.000	32000.000
x		66.458%	5.289	35.980	35.820	0.000	992.100	32280.000	32220.000
σ		1.413%	0.056	0.837	0.681	0.000	8.790	269.800	194.000
%RSD		2.126	1.058	2.326	1.902	0.000	0.886	0.836	0.602

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	132000.000	6676.000	0.000	8177.000	15950.000	14820.000	75.890%	918.000
2	01:32:09	132200.000	6616.000	0.000	8085.000	16080.000	14760.000	77.762%	914.900
3	01:32:52	131200.000	6579.000	0.000	8137.000	16130.000	14900.000	78.010%	916.300
x		131800.000	6624.000	0.000	8133.000	16050.000	14830.000	77.221%	916.400
σ		539.100	48.900	0.000	45.840	93.190	71.300	1.159%	1.545
%RSD		0.409	0.738	0.000	0.564	0.581	0.481	1.501	0.169

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	264.500	999.800	32440.000	241700.000	244800.000	103.200	804.100	116.800
2	01:32:09	266.500	1004.000	32470.000	241900.000	244100.000	102.900	804.400	117.000
3	01:32:52	266.000	1004.000	32570.000	241700.000	244600.000	103.100	799.700	116.600
x		265.700	1003.000	32490.000	241800.000	244500.000	103.000	802.700	116.800
σ		1.021	2.499	69.800	141.600	365.100	0.154	2.642	0.194
%RSD		0.384	0.249	0.215	0.059	0.149	0.149	0.329	0.166

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	116.200	437.700	445.900	100.500	3.506	3.922	0.000	198.900
2	01:32:09	116.800	441.900	449.400	100.800	3.684	3.876	0.000	201.800
3	01:32:52	116.100	440.600	446.700	101.900	3.373	3.696	0.000	202.000
x		116.400	440.000	447.300	101.100	3.521	3.831	0.000	200.900
σ		0.364	2.154	1.844	0.747	0.156	0.120	0.000	1.744
%RSD		0.313	0.490	0.412	0.739	4.425	3.119	0.000	0.868

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	0.000	11.050	11.100	76.740%	0.395	0.341	1.480	1.289
2	01:32:09	0.000	11.670	11.240	77.929%	0.415	0.319	1.355	1.265
3	01:32:52	0.000	11.220	11.310	78.283%	0.379	0.336	1.447	1.280
x		0.000	11.310	11.220	77.650%	0.396	0.332	1.427	1.278
σ		0.000	0.321	0.108	0.808%	0.018	0.011	0.065	0.012
%RSD		0.000	2.837	0.958	1.040	4.498	3.438	4.560	0.951

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	78.684%	1.981	0.363	0.371	1571.000	1569.000	87.083%	87.275%
2	01:32:09	80.826%	2.026	0.382	0.408	1584.000	1580.000	90.049%	90.568%
3	01:32:52	81.235%	2.095	0.379	0.384	1576.000	1564.000	90.829%	91.267%
x		80.248%	2.034	0.374	0.388	1577.000	1571.000	89.320%	89.703%
σ		1.370%	0.057	0.010	0.019	6.705	8.079	1.976%	2.132%
%RSD		1.707	2.820	2.738	4.862	0.425	0.514	2.213	2.376

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:26	1.775	1.798	151.200	148.000	148.900	88.244%
2	01:32:09	1.794	1.809	153.300	150.200	151.200	90.555%
3	01:32:52	1.817	1.786	153.500	150.300	152.100	90.755%
x		1.795	1.797	152.700	149.500	150.700	89.851%
σ		0.021	0.011	1.249	1.328	1.673	1.396%
%RSD		1.182	0.632	0.818	0.889	1.110	1.553

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:39:40	61.553%	9.595	62.650	62.470	0.000	1822.000	29500.000	29340.000
2	01:40:23	61.843%	9.848	64.540	63.520	0.000	1813.000	29260.000	29160.000
3	01:41:06	61.811%	9.795	62.470	65.250	0.000	1807.000	29210.000	29050.000
x		61.736%	9.746	63.220	63.740	0.000	1814.000	29320.000	29190.000
σ		0.159%	0.134	1.146	1.402	0.000	7.416	154.500	144.800
%RSD		0.257	1.369	1.813	2.199	0.000	0.409	0.527	0.496
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:39:40	137900.000	8136.000	0.000	19530.000	31070.000	28350.000	70.532%	1217.000
2	01:40:23	137400.000	8000.000	0.000	19430.000	30890.000	28390.000	71.027%	1207.000
3	01:41:06	136400.000	7905.000	0.000	19480.000	31030.000	28320.000	70.593%	1213.000
x		137200.000	8014.000	0.000	19480.000	31000.000	28350.000	70.717%	1212.000
σ		747.300	116.200	0.000	50.010	95.970	36.870	0.270%	4.964
%RSD		0.544	1.451	0.000	0.257	0.310	0.130	0.382	0.410
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:39:40	283.400	327.700	464600.000	235200.000	239300.000	224.000	592.000	252.400
2	01:40:23	283.000	326.200	460300.000	232900.000	236500.000	223.000	592.000	253.400
3	01:41:06	283.200	324.900	461800.000	233700.000	235900.000	222.000	593.300	250.800
x		283.200	326.200	462200.000	233900.000	237300.000	223.000	592.400	252.200
σ		0.210	1.390	2167.000	1172.000	1806.000	1.006	0.780	1.329
%RSD		0.074	0.426	0.469	0.501	0.761	0.451	0.132	0.527
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:39:40	254.800	751.200	758.300	206.800	4.013	5.082	0.000	1553.000
2	01:40:23	254.000	751.500	756.800	208.600	4.340	4.794	0.000	1548.000
3	01:41:06	253.900	755.200	761.000	206.300	4.207	4.365	0.000	1551.000
x		254.200	752.600	758.700	207.300	4.187	4.747	0.000	1551.000
σ		0.469	2.204	2.124	1.204	0.164	0.361	0.000	2.459
%RSD		0.185	0.293	0.280	0.581	3.925	7.601	0.000	0.159
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:39:40	0.000	24.270	24.220	71.526%	0.466	0.432	2.804	2.772
2	01:40:23	0.000	24.300	24.450	72.455%	0.441	0.426	2.998	2.888
3	01:41:06	0.000	25.080	24.340	71.887%	0.452	0.403	3.099	2.915
x		0.000	24.550	24.340	71.956%	0.453	0.420	2.967	2.858
σ		0.000	0.458	0.116	0.469%	0.013	0.016	0.150	0.076
%RSD		0.000	1.866	0.477	0.651	2.853	3.696	5.051	2.643
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:39:40	74.713%	2.490	0.998	0.958	14860.000	14840.000	90.825%	87.187%
2	01:40:23	75.640%	2.526	0.935	0.928	14850.000	14850.000	93.132%	89.084%
3	01:41:06	75.377%	2.524	0.961	0.896	14810.000	14850.000	93.356%	89.546%
x		75.243%	2.513	0.965	0.928	14840.000	14850.000	92.438%	88.606%
σ		0.478%	0.020	0.031	0.031	23.300	4.128	1.401%	1.250%
%RSD		0.635	0.796	3.240	3.333	0.157	0.028	1.516	1.411
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:39:40	6.309	6.183	201.700	201.300	200.900	83.571%		
2	01:40:23	6.205	6.289	204.300	203.500	203.700	85.171%		
3	01:41:06	6.364	6.350	205.200	203.400	204.500	84.846%		
x		6.293	6.274	203.700	202.700	203.000	84.529%		
σ		0.081	0.084	1.795	1.252	1.912	0.846%		
%RSD		1.286	1.346	0.881	0.618	0.942	1.000		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:47:54	59.495%	6.333	140.800	139.400	0.000	5325.000	36190.000	36100.000
2	01:48:38	60.413%	5.843	143.500	140.800	0.000	5296.000	35990.000	35760.000
3	01:49:21	59.219%	6.068	149.100	143.500	0.000	5336.000	36120.000	35980.000
x		59.709%	6.081	144.400	141.200	0.000	5319.000	36100.000	35950.000
σ		0.625%	0.245	4.240	2.077	0.000	20.340	100.200	176.500
%RSD		1.047	4.032	2.935	1.471	0.000	0.382	0.278	0.491
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:47:54	99990.000	8399.000	0.000	14370.000	70370.000	68580.000	68.208%	1132.000
2	01:48:38	99310.000	8312.000	0.000	14450.000	70310.000	68590.000	68.435%	1142.000
3	01:49:21	99230.000	8286.000	0.000	14450.000	70240.000	68110.000	68.426%	1136.000
x		99510.000	8332.000	0.000	14420.000	70310.000	68430.000	68.357%	1137.000
σ		421.400	58.860	0.000	46.700	65.710	273.100	0.128%	4.846
%RSD		0.423	0.706	0.000	0.324	0.093	0.399	0.188	0.426
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:47:54	206.400	406.400	370000.000	151200.000	152200.000	190.600	249.600	875.200
2	01:48:38	208.200	406.600	368200.000	151000.000	152300.000	190.400	248.400	876.100
3	01:49:21	208.300	405.100	368500.000	151100.000	151500.000	191.100	248.600	884.400
x		207.600	406.000	368900.000	151100.000	152000.000	190.700	248.800	878.600
σ		1.097	0.858	957.500	79.790	437.400	0.389	0.662	5.089
%RSD		0.528	0.211	0.260	0.053	0.288	0.204	0.266	0.579
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:47:54	884.100	884.800	890.000	2242.000	4.529	4.972	0.000	37030.000
2	01:48:38	878.200	892.100	901.000	2236.000	4.118	4.004	0.000	37000.000
3	01:49:21	876.600	887.200	903.000	2240.000	4.363	5.413	0.000	36960.000
x		879.600	888.000	898.000	2239.000	4.337	4.796	0.000	36990.000
σ		3.975	3.718	6.999	3.018	0.207	0.721	0.000	32.630
%RSD		0.452	0.419	0.779	0.135	4.770	15.030	0.000	0.088
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:47:54	0.000	706.400	703.500	70.483%	0.617	0.541	2.230	1.909
2	01:48:38	0.000	707.000	707.100	71.566%	0.552	0.520	2.024	1.726
3	01:49:21	0.000	712.800	714.400	70.773%	0.532	0.550	1.853	1.791
x		0.000	708.700	708.300	70.941%	0.567	0.537	2.036	1.809
σ		0.000	3.557	5.533	0.561%	0.044	0.015	0.189	0.093
%RSD		0.000	0.502	0.781	0.791	7.838	2.862	9.281	5.147
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:47:54	72.537%	2.570	0.809	0.853	2724.000	2699.000	82.517%	83.454%
2	01:48:38	74.850%	2.532	0.791	0.825	2692.000	2696.000	84.946%	85.630%
3	01:49:21	74.076%	2.481	0.825	0.827	2730.000	2703.000	85.119%	86.403%
x		73.821%	2.528	0.808	0.835	2715.000	2699.000	84.194%	85.162%
σ		1.177%	0.045	0.017	0.016	20.450	3.570	1.455%	1.529%
%RSD		1.595	1.780	2.082	1.897	0.753	0.132	1.728	1.795
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:47:54	2.644	2.722	8184.000	8347.000	8366.000	83.135%		
2	01:48:38	2.723	2.730	8224.000	8461.000	8467.000	83.761%		
3	01:49:21	2.696	2.693	8172.000	8438.000	8441.000	84.808%		
x		2.688	2.715	8193.000	8415.000	8425.000	83.901%		
σ		0.040	0.019	27.450	60.440	52.600	0.846%		
%RSD		1.505	0.709	0.335	0.718	0.624	1.008		

CCV 781130 4/11/2013 1:55:26 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:56:09	64.984%	104.400	106.100	107.800	0.000	51820.000	51960.000	51870.000
2	01:56:52	66.121%	104.100	103.500	106.700	0.000	51130.000	51310.000	51140.000
3	01:57:35	67.467%	101.600	105.200	104.600	0.000	50890.000	51340.000	51100.000
x		66.191%	103.391%	104.933%	106.388%	0.000	102.560%	103.067%	102.741%
σ		1.243%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.878	1.513	1.251	1.516	0.000	0.949	0.712	0.837
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:56:09	511.100	5575.000	0.000	51950.000	50260.000	52150.000	67.713%	102.000
2	01:56:52	508.000	5442.000	0.000	51310.000	49410.000	51570.000	68.728%	102.000
3	01:57:35	502.700	5409.000	0.000	51860.000	51010.000	51960.000	68.709%	102.100
x		101.453%	109.509%	0.000	103.411%	100.447%	103.786%	68.383%	102.010%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.581%	n/a
%RSD		0.845	1.608	0.000	0.663	1.591	0.575	0.849	0.058
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:56:09	101.500	101.300	477.600	26470.000	24260.000	101.200	101.000	102.100
2	01:56:52	100.400	100.400	477.800	26360.000	24180.000	100.800	100.900	102.300
3	01:57:35	100.900	100.500	482.300	26480.000	24370.000	102.200	101.200	102.500
x		100.957%	100.738%	95.849%	105.748%	97.079%	101.387%	101.032%	102.284%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.544	0.476	0.558	0.248	0.389	0.716	0.161	0.214
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:56:09	102.000	100.100	102.500	100.200	98.770	101.700	0.000	101.400
2	01:56:52	100.300	100.300	101.700	99.770	100.500	99.120	0.000	100.700
3	01:57:35	101.400	101.200	101.500	99.440	100.400	101.100	0.000	101.700
x		101.257%	100.530%	101.881%	99.805%	99.887%	100.620%	0.000	101.253%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.834	0.570	0.531	0.387	0.967	1.322	0.000	0.503
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:56:09	70.295%	98.980	99.210	72.249%	98.350	98.940	100.800	100.500
2	01:56:52	72.021%	100.500	102.000	73.070%	98.100	98.190	98.990	100.500
3	01:57:35	71.932%	103.000	103.000	73.328%	98.360	99.170	99.530	100.700
x		71.416%	100.824%	101.399%	72.882%	98.267%	98.766%	99.763%	100.551%
σ		0.972%	n/a	n/a	0.563%	n/a	n/a	n/a	n/a
%RSD		1.361	2.007	1.941	0.773	0.151	0.521	0.917	0.121
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:56:09	72.256%	99.810	100.300	99.690	100.000	101.400	77.394%	78.135%
2	01:56:52	73.538%	99.860	100.300	100.100	100.700	101.100	79.146%	80.819%
3	01:57:35	74.112%	99.730	99.710	99.370	100.100	100.400	79.932%	81.439%
x		73.302%	99.799%	100.118%	99.703%	100.267%	100.929%	78.824%	80.131%
σ		0.950%	n/a	n/a	n/a	n/a	n/a	1.299%	1.756%
%RSD		1.296	0.063	0.358	0.345	0.374	0.498	1.648	2.191
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:56:09	96.180	95.420	96.120	95.600	95.720	83.176%		
2	01:56:52	97.630	96.860	96.710	96.370	96.380	84.062%		
3	01:57:35	97.070	96.330	97.120	97.210	96.900	85.112%		
x		96.958%	96.203%	96.650%	96.391%	96.335%	84.117%		
σ		n/a	n/a	n/a	n/a	n/a	0.969%		
%RSD		0.755	0.754	0.518	0.837	0.611	1.152		

CCB4 4/11/2013 2:03:43 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:04:26	89.725%	-0.005	0.489	0.659	0.000	-11.640	2.349	2.607
2	02:05:09	90.919%	-0.034	0.392	0.445	0.000	-11.470	2.843	2.380
3	02:05:52	92.115%	-0.025	0.678	0.628	0.000	-10.620	4.190	3.686
x		90.920%	-0.022	0.520	0.577	0.000	-11.240	3.127	2.891
σ		1.195%	0.015	0.146	0.116	0.000	0.546	0.953	0.698
%RSD		1.315	68.030	28.020	20.060	0.000	4.860	30.460	24.140
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:04:26	2.261	-267.300	0.000	-25.630	7.247	-23.920	96.504%	0.036
2	02:05:09	2.345	-262.300	0.000	-25.330	7.077	-25.540	97.878%	0.051
3	02:05:52	2.713	-236.100	0.000	-21.820	5.468	-21.570	97.895%	-0.009
x		2.440	-255.200	0.000	-24.260	6.597	-23.670	97.426%	0.026
σ		0.240	16.790	0.000	2.117	0.982	1.997	0.798%	0.031
%RSD		9.853	6.579	0.000	8.725	14.890	8.434	0.819	118.800
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:04:26	0.032	0.005	0.309	-7.201	0.185	-0.001	0.117	0.198
2	02:05:09	0.008	-0.017	0.425	-7.689	-0.350	-0.002	0.039	0.207
3	02:05:52	0.023	0.000	1.261	-7.175	0.867	-0.001	0.090	0.168
x		0.021	-0.004	0.665	-7.355	0.234	-0.001	0.082	0.191
σ		0.012	0.011	0.519	0.289	0.610	0.000	0.039	0.021
%RSD		58.480	276.500	78.110	3.934	260.800	35.220	47.940	10.840
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:04:26	0.198	1.749	1.998	-0.137	-0.473	-1.503	0.000	0.053
2	02:05:09	0.223	1.852	2.058	-0.020	-0.458	-1.025	0.000	0.066
3	02:05:52	0.186	1.947	1.858	-0.119	-0.547	-1.420	0.000	0.127
x		0.203	1.849	1.971	-0.092	-0.492	-1.316	0.000	0.082
σ		0.019	0.099	0.103	0.063	0.047	0.255	0.000	0.040
%RSD		9.303	5.371	5.223	68.050	9.635	19.400	0.000	48.520
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:04:26	79.938%	0.278	0.331	87.975%	-0.002	-0.006	-0.020	-0.015
2	02:05:09	81.528%	0.272	0.249	88.913%	-0.007	-0.006	-0.024	-0.013
3	02:05:52	81.926%	0.216	0.265	88.580%	-0.002	-0.003	-0.002	0.006
x		81.130%	0.255	0.281	88.489%	-0.004	-0.005	-0.015	-0.007
σ		1.052%	0.034	0.044	0.475%	0.003	0.002	0.012	0.011
%RSD		1.297	13.410	15.510	0.537	81.450	29.650	78.340	163.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:04:26	83.997%	0.172	0.016	0.022	0.055	0.056	86.200%	87.106%
2	02:05:09	85.693%	0.188	0.008	0.013	0.072	0.044	88.194%	88.707%
3	02:05:52	86.373%	0.156	0.025	0.033	0.062	0.069	88.162%	89.531%
x		85.354%	0.172	0.016	0.023	0.063	0.056	87.519%	88.448%
σ		1.224%	0.016	0.008	0.010	0.009	0.012	1.142%	1.233%
%RSD		1.434	9.294	49.610	45.290	13.610	21.650	1.305	1.394
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:04:26	0.005	0.009	0.043	0.052	0.043	99.517%		
2	02:05:09	0.005	0.006	0.040	0.033	0.043	100.715%		
3	02:05:52	0.006	0.007	0.052	0.062	0.055	100.621%		
x		0.005	0.007	0.045	0.049	0.047	100.284%		
σ		0.001	0.002	0.006	0.015	0.007	0.666%		
%RSD		13.650	22.640	14.070	30.020	14.850	0.664		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	58.427%	6.462	110.400	105.100	0.000	2453.000	29490.000	29300.000
2	02:13:27	60.698%	5.902	107.400	105.700	0.000	2435.000	29220.000	29200.000
3	02:14:10	61.520%	6.027	107.400	103.700	0.000	2393.000	28550.000	28350.000
x		60.215%	6.130	108.400	104.800	0.000	2427.000	29090.000	28950.000
σ		1.602%	0.293	1.693	1.002	0.000	30.480	482.400	523.500
%RSD		2.660	4.788	1.562	0.955	0.000	1.256	1.659	1.808

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	127700.000	7302.000	0.000	14500.000	14580.000	12090.000	69.602%	1041.000
2	02:13:27	126300.000	7203.000	0.000	14520.000	14530.000	12140.000	70.444%	1052.000
3	02:14:10	122800.000	7000.000	0.000	14120.000	14340.000	11830.000	71.490%	1026.000
x		125600.000	7168.000	0.000	14380.000	14480.000	12020.000	70.512%	1040.000
σ		2557.000	153.600	0.000	226.000	128.500	166.500	0.946%	12.990
%RSD		2.036	2.143	0.000	1.572	0.887	1.386	1.341	1.249

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	224.100	264.700	54420.000	200900.000	201800.000	95.490	251.700	250.600
2	02:13:27	226.600	266.200	55200.000	203400.000	203200.000	95.280	251.800	252.900
3	02:14:10	221.500	261.400	53750.000	196700.000	197500.000	92.660	247.800	246.500
x		224.100	264.100	54460.000	200300.000	200800.000	94.480	250.400	250.000
σ		2.527	2.470	727.400	3370.000	3001.000	1.577	2.320	3.285
%RSD		1.128	0.935	1.336	1.682	1.495	1.669	0.926	1.314

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	249.500	593.000	599.400	1714.000	4.800	4.849	0.000	9079.000
2	02:13:27	251.300	596.200	605.300	1725.000	4.662	4.838	0.000	9118.000
3	02:14:10	244.000	589.300	595.000	1697.000	4.644	5.000	0.000	8948.000
x		248.300	592.900	599.900	1712.000	4.702	4.896	0.000	9048.000
σ		3.769	3.455	5.186	14.210	0.085	0.091	0.000	88.890
%RSD		1.518	0.583	0.864	0.830	1.817	1.851	0.000	0.982

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	0.000	382.100	382.500	71.667%	0.508	0.487	1.806	1.660
2	02:13:27	0.000	388.200	389.000	73.002%	0.524	0.450	1.721	1.630
3	02:14:10	0.000	379.700	380.900	74.001%	0.476	0.471	1.520	1.490
x		0.000	383.300	384.100	72.890%	0.503	0.469	1.682	1.593
σ		0.000	4.355	4.296	1.171%	0.025	0.019	0.147	0.091
%RSD		0.000	1.136	1.118	1.607	4.907	3.965	8.745	5.688

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	72.411%	2.174	0.412	0.406	1014.000	1011.000	82.426%	82.778%
2	02:13:27	74.605%	2.197	0.418	0.419	1013.000	1011.000	84.794%	85.115%
3	02:14:10	75.300%	2.203	0.424	0.440	993.500	987.100	86.168%	86.215%
x		74.105%	2.192	0.418	0.421	1007.000	1003.000	84.462%	84.702%
σ		1.508%	0.015	0.006	0.017	11.760	13.800	1.893%	1.755%
%RSD		2.035	0.698	1.453	4.039	1.168	1.376	2.241	2.072

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:12:44	1.490	1.514	1667.000	1699.000	1698.000	85.106%
2	02:13:27	1.483	1.507	1683.000	1722.000	1720.000	86.176%
3	02:14:10	1.476	1.497	1633.000	1674.000	1674.000	87.181%
x		1.483	1.506	1661.000	1699.000	1697.000	86.154%
σ		0.007	0.008	25.570	23.900	22.950	1.037%
%RSD		0.470	0.557	1.540	1.407	1.352	1.204

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	60.741%	7.387	43.120	41.920	0.000	625.000	44010.000	43540.000
2	02:21:43	61.372%	7.864	45.270	43.110	0.000	630.300	44080.000	43910.000
3	02:22:26	61.835%	8.317	44.840	44.600	0.000	638.100	44660.000	44510.000
x		61.316%	7.856	44.410	43.210	0.000	631.200	44250.000	43990.000
σ		0.549%	0.465	1.141	1.346	0.000	6.593	356.500	486.700
%RSD		0.895	5.921	2.569	3.115	0.000	1.045	0.806	1.106

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	154100.000	8271.000	0.000	10820.000	41760.000	43170.000	71.597%	1215.000
2	02:21:43	155300.000	8249.000	0.000	10830.000	41680.000	43220.000	73.403%	1203.000
3	02:22:26	156900.000	8335.000	0.000	10930.000	42450.000	43970.000	73.608%	1225.000
x		155400.000	8285.000	0.000	10860.000	41970.000	43450.000	72.869%	1214.000
σ		1407.000	44.440	0.000	62.720	425.100	450.100	1.106%	11.070
%RSD		0.905	0.536	0.000	0.577	1.013	1.036	1.518	0.912

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	229.700	277.500	15110.000	235000.000	237200.000	103.300	271.400	143.600
2	02:21:43	228.100	279.000	15040.000	234400.000	238400.000	104.500	273.500	145.500
3	02:22:26	232.100	283.200	15220.000	239200.000	241000.000	105.300	280.000	147.900
x		230.000	279.900	15120.000	236200.000	238900.000	104.400	275.000	145.700
σ		2.034	2.967	92.650	2621.000	1951.000	1.011	4.496	2.187
%RSD		0.884	1.060	0.613	1.110	0.817	0.969	1.635	1.501

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	145.200	574.700	585.000	115.600	4.812	5.037	0.000	268.900
2	02:21:43	144.900	578.200	587.800	115.300	4.956	4.685	0.000	269.700
3	02:22:26	148.200	590.700	597.000	117.800	4.757	5.403	0.000	277.800
x		146.100	581.200	589.900	116.200	4.842	5.042	0.000	272.100
σ		1.802	8.390	6.289	1.365	0.103	0.359	0.000	4.896
%RSD		1.233	1.444	1.066	1.174	2.129	7.115	0.000	1.799

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	0.000	25.500	25.680	72.873%	0.471	0.437	2.024	1.762
2	02:21:43	0.000	25.800	25.700	74.083%	0.493	0.444	2.078	1.800
3	02:22:26	0.000	26.090	26.400	74.256%	0.508	0.458	1.964	1.866
x		0.000	25.800	25.930	73.737%	0.491	0.446	2.022	1.810
σ		0.000	0.297	0.411	0.753%	0.018	0.011	0.057	0.053
%RSD		0.000	1.153	1.587	1.022	3.726	2.410	2.830	2.915

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	73.935%	2.111	0.296	0.299	882.800	879.400	85.409%	85.188%
2	02:21:43	75.697%	2.110	0.282	0.275	891.100	888.300	88.285%	88.122%
3	02:22:26	76.708%	2.165	0.300	0.299	895.800	892.800	88.604%	88.601%
x		75.446%	2.129	0.293	0.291	889.900	886.800	87.433%	87.304%
σ		1.404%	0.031	0.009	0.014	6.572	6.778	1.760%	1.848%
%RSD		1.860	1.463	3.230	4.767	0.739	0.764	2.013	2.117

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:00	1.705	1.675	170.900	168.300	169.600	86.178%
2	02:21:43	1.744	1.702	175.800	172.700	173.600	87.392%
3	02:22:26	1.779	1.757	178.300	176.700	177.900	87.279%
x		1.743	1.712	175.000	172.600	173.700	86.950%
σ		0.037	0.042	3.749	4.204	4.167	0.671%
%RSD		2.132	2.439	2.143	2.436	2.399	0.772

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	57.396%	5.012	107.500	105.700	0.000	8860.000	37250.000	37040.000
2	02:29:59	59.042%	4.814	105.700	106.200	0.000	8670.000	36630.000	36550.000
3	02:30:42	57.943%	4.786	107.100	105.500	0.000	8745.000	36980.000	36800.000
x		58.127%	4.871	106.800	105.800	0.000	8759.000	36950.000	36800.000
σ		0.838%	0.123	0.919	0.365	0.000	95.560	313.200	245.900
%RSD		1.442	2.530	0.861	0.345	0.000	1.091	0.848	0.668

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	121500.000	8729.000	0.000	17170.000	50190.000	49680.000	66.993%	1223.000
2	02:29:59	119600.000	8541.000	0.000	17100.000	49760.000	49800.000	67.284%	1225.000
3	02:30:42	120100.000	8552.000	0.000	17020.000	49550.000	49560.000	66.980%	1229.000
x		120400.000	8607.000	0.000	17100.000	49830.000	49680.000	67.086%	1226.000
σ		972.800	105.100	0.000	72.410	326.200	124.000	0.172%	2.875
%RSD		0.808	1.222	0.000	0.423	0.655	0.250	0.256	0.235

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	261.300	145.700	489300.000	190500.000	192400.000	715.900	289.800	1056.000
2	02:29:59	262.000	144.700	489800.000	191200.000	192800.000	718.000	295.200	1069.000
3	02:30:42	261.600	144.500	491600.000	190400.000	192500.000	719.700	292.200	1069.000
x		261.600	145.000	490200.000	190700.000	192600.000	717.900	292.400	1065.000
σ		0.345	0.630	1206.000	399.300	196.200	1.869	2.694	7.558
%RSD		0.132	0.435	0.246	0.209	0.102	0.260	0.921	0.710

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	1060.000	568.300	574.000	916.700	3.834	4.105	0.000	16790.000
2	02:29:59	1069.000	574.500	579.200	915.700	3.575	4.206	0.000	16890.000
3	02:30:42	1067.000	576.700	581.400	924.000	3.722	3.972	0.000	16940.000
x		1065.000	573.200	578.200	918.800	3.710	4.094	0.000	16870.000
σ		4.870	4.365	3.801	4.541	0.130	0.117	0.000	78.560
%RSD		0.457	0.761	0.657	0.494	3.497	2.861	0.000	0.466

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	0.000	582.800	578.300	69.204%	0.333	0.291	1.288	1.074
2	02:29:59	0.000	587.400	586.600	69.911%	0.326	0.258	1.096	0.933
3	02:30:42	0.000	591.500	590.700	68.873%	0.319	0.271	1.075	1.007
x		0.000	587.300	585.200	69.329%	0.326	0.273	1.153	1.004
σ		0.000	4.367	6.359	0.530%	0.007	0.017	0.117	0.071
%RSD		0.000	0.744	1.087	0.765	2.054	6.128	10.170	7.037

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	72.010%	2.172	0.963	0.977	5225.000	5254.000	81.550%	81.701%
2	02:29:59	72.766%	2.211	0.970	0.968	5177.000	5232.000	83.410%	84.013%
3	02:30:42	72.812%	2.124	1.003	0.915	5177.000	5221.000	83.644%	84.071%
x		72.529%	2.169	0.979	0.953	5193.000	5236.000	82.868%	83.262%
σ		0.450%	0.044	0.021	0.034	27.490	17.030	1.148%	1.352%
%RSD		0.621	2.023	2.185	3.519	0.529	0.325	1.385	1.623

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:16	9.860	9.661	1247.000	1274.000	1267.000	82.310%
2	02:29:59	9.878	9.819	1251.000	1277.000	1275.000	83.524%
3	02:30:42	10.070	9.874	1249.000	1281.000	1277.000	83.509%
x		9.935	9.785	1249.000	1277.000	1273.000	83.114%
σ		0.114	0.111	2.003	3.715	5.188	0.697%
%RSD		1.150	1.130	0.160	0.291	0.407	0.838

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	55.127%	6.125	138.900	133.400	0.000	4897.000	34400.000	34170.000
2	02:38:15	55.854%	6.445	142.100	134.500	0.000	4887.000	34080.000	34160.000
3	02:38:58	55.443%	6.425	142.200	138.800	0.000	4981.000	34660.000	34610.000
x		55.475%	6.332	141.100	135.600	0.000	4922.000	34380.000	34310.000
σ		0.364%	0.179	1.887	2.868	0.000	51.520	292.500	256.000
%RSD		0.657	2.830	1.338	2.115	0.000	1.047	0.851	0.746

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	142200.000	9294.000	0.000	24640.000	27910.000	22730.000	64.975%	1335.000
2	02:38:15	141800.000	9165.000	0.000	24690.000	27300.000	22720.000	65.593%	1329.000
3	02:38:58	144100.000	9278.000	0.000	25100.000	28070.000	23180.000	65.113%	1362.000
x		142700.000	9246.000	0.000	24810.000	27760.000	22880.000	65.227%	1342.000
σ		1236.000	70.390	0.000	256.100	405.600	261.600	0.325%	17.560
%RSD		0.867	0.761	0.000	1.032	1.461	1.143	0.498	1.308

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	262.300	158.900	282300.000	244800.000	247200.000	262.200	256.500	374.700
2	02:38:15	262.100	157.800	281700.000	244500.000	246700.000	261.000	256.700	374.100
3	02:38:58	266.400	159.500	285100.000	247400.000	249200.000	265.000	258.900	377.100
x		263.600	158.700	283000.000	245600.000	247700.000	262.700	257.400	375.300
σ		2.435	0.842	1808.000	1578.000	1314.000	2.034	1.309	1.590
%RSD		0.924	0.531	0.639	0.642	0.530	0.774	0.508	0.424

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	374.100	640.700	647.400	1651.000	4.342	4.279	0.000	23770.000
2	02:38:15	375.800	641.300	649.500	1662.000	4.259	4.685	0.000	23870.000
3	02:38:58	378.100	652.300	663.700	1693.000	4.650	4.501	0.000	24260.000
x		376.000	644.800	653.600	1669.000	4.417	4.488	0.000	23960.000
σ		2.003	6.543	8.855	21.510	0.206	0.204	0.000	256.800
%RSD		0.533	1.015	1.355	1.289	4.661	4.537	0.000	1.072

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	0.000	1022.000	1022.000	67.536%	0.413	0.326	1.574	1.362
2	02:38:15	0.000	1029.000	1031.000	68.472%	0.414	0.331	1.704	1.437
3	02:38:58	0.000	1059.000	1056.000	67.341%	0.417	0.332	1.480	1.279
x		0.000	1037.000	1036.000	67.783%	0.415	0.330	1.586	1.359
σ		0.000	19.460	17.500	0.605%	0.002	0.003	0.113	0.079
%RSD		0.000	1.877	1.689	0.892	0.408	0.977	7.105	5.816

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	69.190%	2.204	0.411	0.433	2138.000	2137.000	81.236%	81.182%
2	02:38:15	71.079%	2.192	0.419	0.380	2144.000	2148.000	82.767%	83.357%
3	02:38:58	70.678%	2.361	0.382	0.436	2184.000	2169.000	83.093%	83.041%
x		70.316%	2.252	0.404	0.416	2155.000	2151.000	82.365%	82.527%
σ		0.995%	0.094	0.020	0.031	25.070	16.290	0.991%	1.175%
%RSD		1.415	4.191	4.883	7.542	1.163	0.757	1.203	1.424

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:32	7.983	7.952	1330.000	1358.000	1356.000	80.619%
2	02:38:15	8.149	8.038	1333.000	1363.000	1363.000	82.325%
3	02:38:58	8.295	8.242	1358.000	1388.000	1386.000	81.939%
x		8.142	8.077	1341.000	1369.000	1368.000	81.628%
σ		0.156	0.149	15.510	15.900	15.580	0.894%
%RSD		1.914	1.845	1.157	1.161	1.139	1.096

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	57.625%	7.083	38.090	38.320	0.000	486.300	33360.000	33170.000
2	02:46:31	57.988%	6.935	39.020	38.900	0.000	487.500	33500.000	33450.000
3	02:47:14	59.377%	6.910	40.050	38.870	0.000	478.800	33140.000	32950.000
x		58.330%	6.976	39.050	38.700	0.000	484.200	33340.000	33190.000
σ		0.925%	0.094	0.980	0.329	0.000	4.733	181.000	247.500
%RSD		1.585	1.347	2.510	0.850	0.000	0.977	0.543	0.746

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	150400.000	9272.000	0.000	11020.000	7235.000	6560.000	67.765%	1143.000
2	02:46:31	151400.000	9294.000	0.000	11120.000	7245.000	6600.000	69.648%	1152.000
3	02:47:14	149800.000	9107.000	0.000	11090.000	7232.000	6576.000	70.645%	1146.000
x		150600.000	9224.000	0.000	11080.000	7237.000	6579.000	69.352%	1147.000
σ		789.800	102.300	0.000	54.470	7.170	20.440	1.463%	4.700
%RSD		0.525	1.109	0.000	0.492	0.099	0.311	2.109	0.410

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	219.500	170.100	3118.000	283900.000	287500.000	95.940	208.100	198.800
2	02:46:31	218.400	170.500	3118.000	281400.000	284700.000	95.500	206.500	197.200
3	02:47:14	218.600	170.300	3111.000	282100.000	286100.000	95.760	206.400	197.700
x		218.800	170.300	3115.000	282500.000	286100.000	95.730	207.000	197.900
σ		0.588	0.220	3.970	1274.000	1393.000	0.221	0.967	0.849
%RSD		0.269	0.129	0.127	0.451	0.487	0.231	0.467	0.429

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	198.700	549.300	555.700	141.100	2.235	3.128	0.000	83.190
2	02:46:31	197.200	547.600	556.900	140.400	2.692	3.480	0.000	82.590
3	02:47:14	197.100	551.300	556.700	140.100	2.756	3.637	0.000	82.790
x		197.700	549.400	556.500	140.500	2.561	3.415	0.000	82.850
σ		0.880	1.847	0.622	0.546	0.284	0.261	0.000	0.302
%RSD		0.445	0.336	0.112	0.389	11.090	7.628	0.000	0.365

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	0.000	11.020	11.330	69.184%	0.260	0.169	1.126	0.931
2	02:46:31	0.000	10.700	10.940	71.413%	0.247	0.202	1.241	0.951
3	02:47:14	0.000	10.800	11.020	71.700%	0.230	0.181	1.075	0.899
x		0.000	10.840	11.100	70.766%	0.246	0.184	1.147	0.927
σ		0.000	0.164	0.208	1.377%	0.015	0.017	0.085	0.026
%RSD		0.000	1.508	1.871	1.946	6.200	9.172	7.422	2.840

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	70.150%	1.974	0.256	0.240	745.500	742.700	83.637%	84.032%
2	02:46:31	72.376%	1.913	0.239	0.234	751.600	741.800	87.226%	87.066%
3	02:47:14	72.551%	1.938	0.248	0.225	759.400	751.300	88.087%	88.159%
x		71.692%	1.942	0.248	0.233	752.200	745.300	86.317%	86.419%
σ		1.339%	0.030	0.008	0.008	6.963	5.243	2.360%	2.138%
%RSD		1.868	1.558	3.379	3.321	0.926	0.703	2.734	2.474

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:45:48	1.844	1.809	138.000	134.700	136.600	82.122%
2	02:46:31	1.842	1.826	139.200	137.400	138.400	83.978%
3	02:47:14	1.830	1.823	140.900	138.300	139.600	84.611%
x		1.839	1.819	139.400	136.800	138.200	83.571%
σ		0.008	0.009	1.472	1.838	1.468	1.294%
%RSD		0.433	0.498	1.056	1.344	1.062	1.548

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	58.681%	5.827	29.210	31.020	0.000	620.300	26650.000	26780.000
2	02:54:46	59.857%	5.508	31.560	29.680	0.000	619.200	26410.000	26210.000
3	02:55:29	60.401%	5.509	31.430	29.550	0.000	629.000	26690.000	26490.000
x		59.646%	5.615	30.730	30.090	0.000	622.800	26590.000	26490.000
σ		0.879%	0.184	1.322	0.810	0.000	5.360	151.200	288.800
%RSD		1.473	3.274	4.303	2.693	0.000	0.861	0.569	1.090

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	101800.000	7538.000	0.000	9945.000	2852.000	2510.000	68.291%	713.600
2	02:54:46	100200.000	7366.000	0.000	9825.000	2802.000	2509.000	69.459%	706.200
3	02:55:29	100600.000	7459.000	0.000	9993.000	2759.000	2557.000	68.486%	720.300
x		100900.000	7454.000	0.000	9921.000	2804.000	2525.000	68.745%	713.400
σ		818.900	86.160	0.000	86.750	46.430	27.110	0.626%	7.079
%RSD		0.812	1.156	0.000	0.874	1.656	1.074	0.910	0.992

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	139.800	125.600	2855.000	220700.000	222000.000	88.650	208.500	160.700
2	02:54:46	138.700	125.300	2823.000	218000.000	220900.000	88.220	205.900	159.400
3	02:55:29	141.900	128.800	2899.000	223700.000	224100.000	89.700	209.500	162.600
x		140.100	126.600	2859.000	220800.000	222300.000	88.860	208.000	160.900
σ		1.602	1.928	37.830	2845.000	1645.000	0.760	1.846	1.570
%RSD		1.143	1.523	1.323	1.289	0.740	0.855	0.887	0.976

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	159.900	497.700	501.900	137.600	1.444	1.830	0.000	55.280
2	02:54:46	158.600	500.600	506.200	137.200	1.052	1.927	0.000	56.220
3	02:55:29	161.500	506.000	517.300	141.400	1.370	2.518	0.000	56.910
x		160.000	501.500	508.500	138.800	1.288	2.092	0.000	56.140
σ		1.457	4.225	7.947	2.307	0.208	0.372	0.000	0.817
%RSD		0.910	0.843	1.563	1.662	16.150	17.790	0.000	1.456

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	0.000	8.112	8.283	71.220%	0.271	0.194	0.909	0.719
2	02:54:46	0.000	8.292	8.439	71.932%	0.241	0.194	0.940	0.711
3	02:55:29	0.000	8.265	8.525	71.036%	0.283	0.198	0.872	0.690
x		0.000	8.223	8.416	71.396%	0.265	0.195	0.907	0.707
σ		0.000	0.097	0.122	0.473%	0.022	0.003	0.034	0.015
%RSD		0.000	1.186	1.455	0.663	8.195	1.391	3.757	2.095

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	70.984%	2.338	0.242	0.269	645.700	640.000	85.596%	85.067%
2	02:54:46	72.726%	2.361	0.264	0.238	642.500	640.800	87.643%	87.045%
3	02:55:29	72.442%	2.509	0.277	0.236	650.500	650.200	87.438%	86.939%
x		72.051%	2.402	0.261	0.248	646.200	643.700	86.892%	86.351%
σ		0.935%	0.093	0.018	0.019	4.023	5.689	1.127%	1.113%
%RSD		1.298	3.862	6.734	7.493	0.623	0.884	1.298	1.289

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:03	1.398	1.452	121.200	119.600	120.300	83.700%
2	02:54:46	1.415	1.490	123.400	122.400	122.600	84.353%
3	02:55:29	1.488	1.475	124.600	123.800	124.200	85.072%
x		1.434	1.472	123.100	122.000	122.400	84.375%
σ		0.048	0.020	1.720	2.125	1.991	0.686%
%RSD		3.334	1.329	1.397	1.742	1.627	0.813

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	59.242%	4.930	26.550	28.950	0.000	337.600	23260.000	23220.000
2	03:02:59	59.871%	5.266	30.000	30.340	0.000	340.300	23380.000	23190.000
3	03:03:42	60.318%	5.298	29.750	29.440	0.000	338.800	23150.000	22990.000
x		59.810%	5.165	28.760	29.580	0.000	338.900	23260.000	23130.000
σ		0.541%	0.204	1.923	0.705	0.000	1.339	116.700	123.100
%RSD		0.904	3.948	6.685	2.384	0.000	0.395	0.502	0.532

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	96930.000	6997.000	0.000	9825.000	1927.000	1778.000	68.071%	647.500
2	03:02:59	96990.000	6943.000	0.000	9845.000	1922.000	1780.000	68.528%	652.500
3	03:03:42	96250.000	6895.000	0.000	9746.000	1991.000	1772.000	68.614%	638.700
x		96730.000	6945.000	0.000	9805.000	1947.000	1777.000	68.404%	646.200
σ		413.900	51.290	0.000	52.820	38.440	3.883	0.292%	6.993
%RSD		0.428	0.739	0.000	0.539	1.974	0.219	0.427	1.082

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	135.000	118.500	2153.000	198600.000	198400.000	88.720	179.600	134.900
2	03:02:59	136.600	120.500	2176.000	199900.000	199900.000	89.570	180.300	135.300
3	03:03:42	134.800	118.300	2146.000	197900.000	198800.000	88.900	178.800	134.700
x		135.400	119.100	2158.000	198800.000	199100.000	89.060	179.600	135.000
σ		0.967	1.234	15.440	998.900	795.300	0.450	0.750	0.331
%RSD		0.714	1.036	0.716	0.502	0.400	0.505	0.417	0.245

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	133.700	403.200	409.500	111.200	1.244	1.402	0.000	36.130
2	03:02:59	135.700	410.000	415.300	112.000	1.449	1.939	0.000	37.040
3	03:03:42	134.500	408.100	413.800	111.800	1.211	1.249	0.000	36.570
x		134.600	407.100	412.800	111.700	1.301	1.530	0.000	36.580
σ		0.996	3.494	3.000	0.399	0.129	0.362	0.000	0.459
%RSD		0.740	0.858	0.727	0.357	9.908	23.660	0.000	1.255

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	0.000	6.591	6.657	71.354%	0.155	0.090	0.940	0.759
2	03:02:59	0.000	7.041	6.992	71.486%	0.151	0.084	0.930	0.741
3	03:03:42	0.000	6.790	6.809	71.867%	0.153	0.102	0.976	0.787
x		0.000	6.807	6.819	71.569%	0.153	0.092	0.949	0.762
σ		0.000	0.225	0.168	0.267%	0.002	0.009	0.024	0.023
%RSD		0.000	3.311	2.458	0.373	1.215	10.090	2.539	3.075

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	70.758%	2.172	0.201	0.238	491.400	488.600	83.907%	83.832%
2	03:02:59	71.851%	2.162	0.188	0.206	495.700	492.700	85.134%	85.028%
3	03:03:42	72.460%	2.039	0.214	0.204	491.800	487.200	86.487%	85.790%
x		71.690%	2.124	0.201	0.216	493.000	489.500	85.176%	84.883%
σ		0.862%	0.074	0.013	0.019	2.346	2.829	1.291%	0.987%
%RSD		1.203	3.474	6.460	8.838	0.476	0.578	1.516	1.163

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:16	1.155	1.180	92.570	90.670	91.460	84.955%
2	03:02:59	1.201	1.181	94.260	93.050	93.580	85.359%
3	03:03:42	1.228	1.194	94.160	93.070	93.540	85.458%
x		1.195	1.185	93.670	92.260	92.860	85.257%
σ		0.037	0.008	0.948	1.382	1.215	0.266%
%RSD		3.105	0.649	1.012	1.498	1.308	0.312

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	57.901%	4.838	33.410	33.360	0.000	315.600	21990.000	21850.000
2	03:11:13	59.058%	5.422	34.300	33.230	0.000	316.200	22150.000	22000.000
3	03:11:56	59.312%	5.144	32.170	33.500	0.000	316.100	21800.000	21870.000
x		58.757%	5.135	33.290	33.360	0.000	316.000	21980.000	21910.000
σ		0.752%	0.292	1.070	0.134	0.000	0.314	173.000	83.520
%RSD		1.281	5.694	3.213	0.401	0.000	0.099	0.787	0.381

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	99580.000	6974.000	0.000	8763.000	1596.000	1439.000	67.464%	707.200
2	03:11:13	100200.000	6974.000	0.000	8845.000	1583.000	1480.000	68.102%	724.200
3	03:11:56	99560.000	6880.000	0.000	8826.000	1568.000	1449.000	68.142%	717.900
x		99780.000	6943.000	0.000	8811.000	1582.000	1456.000	67.903%	716.400
σ		375.500	54.130	0.000	42.840	14.400	21.200	0.380%	8.565
%RSD		0.376	0.780	0.000	0.486	0.910	1.456	0.560	1.195

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	149.200	118.000	3254.000	217900.000	218400.000	121.700	161.200	144.800
2	03:11:13	149.300	117.900	3309.000	221100.000	223500.000	124.100	163.300	146.500
3	03:11:56	148.700	117.100	3274.000	218900.000	219200.000	121.700	160.900	145.000
x		149.100	117.700	3279.000	219300.000	220300.000	122.500	161.800	145.400
σ		0.323	0.486	27.740	1661.000	2722.000	1.410	1.311	0.904
%RSD		0.217	0.413	0.846	0.757	1.235	1.151	0.810	0.622

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	143.600	393.700	404.100	150.900	1.746	2.094	0.000	32.710
2	03:11:13	145.600	405.400	409.600	151.800	1.984	2.014	0.000	33.600
3	03:11:56	144.700	403.700	405.900	151.000	1.720	1.755	0.000	33.070
x		144.600	400.900	406.500	151.200	1.816	1.954	0.000	33.130
σ		1.021	6.305	2.780	0.508	0.146	0.177	0.000	0.450
%RSD		0.706	1.573	0.684	0.336	8.018	9.077	0.000	1.359

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	0.000	8.674	9.059	70.025%	0.177	0.122	0.925	0.723
2	03:11:13	0.000	9.171	9.140	70.515%	0.209	0.118	0.807	0.674
3	03:11:56	0.000	8.972	9.125	71.163%	0.171	0.108	0.970	0.784
x		0.000	8.939	9.108	70.568%	0.186	0.116	0.901	0.727
σ		0.000	0.250	0.044	0.571%	0.020	0.007	0.085	0.055
%RSD		0.000	2.799	0.478	0.809	10.910	5.998	9.387	7.582

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	70.645%	2.185	0.209	0.260	512.700	512.400	83.143%	83.877%
2	03:11:13	71.285%	2.155	0.232	0.242	521.600	518.800	84.768%	85.347%
3	03:11:56	72.244%	2.134	0.230	0.223	511.100	507.200	85.762%	85.986%
x		71.392%	2.158	0.224	0.242	515.100	512.800	84.557%	85.070%
σ		0.805%	0.025	0.012	0.018	5.636	5.797	1.322%	1.081%
%RSD		1.127	1.181	5.537	7.630	1.094	1.130	1.564	1.271

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:10:30	1.402	1.393	120.800	118.500	119.300	84.931%
2	03:11:13	1.449	1.430	123.800	121.700	122.500	85.267%
3	03:11:56	1.398	1.431	124.500	122.200	123.100	85.232%
x		1.416	1.418	123.000	120.800	121.600	85.143%
σ		0.028	0.022	1.954	1.999	2.038	0.185%
%RSD		2.008	1.537	1.588	1.654	1.675	0.217

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	56.871%	5.749	33.270	34.770	0.000	737.800	21980.000	21820.000
2	03:19:28	57.448%	5.422	34.780	34.990	0.000	739.200	21720.000	21760.000
3	03:20:11	56.935%	5.766	36.640	34.930	0.000	755.300	22220.000	22120.000
x		57.085%	5.646	34.900	34.900	0.000	744.100	21970.000	21900.000
σ		0.316%	0.194	1.684	0.113	0.000	9.676	250.700	193.600
%RSD		0.554	3.436	4.824	0.325	0.000	1.300	1.141	0.884

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	83070.000	7239.000	0.000	7973.000	39680.000	36420.000	65.930%	643.900
2	03:19:28	82220.000	7163.000	0.000	8055.000	39950.000	40630.000	66.188%	645.300
3	03:20:11	83890.000	7286.000	0.000	8156.000	40300.000	41440.000	65.783%	652.000
x		83060.000	7230.000	0.000	8061.000	39980.000	39500.000	65.967%	647.100
σ		837.600	62.110	0.000	91.590	313.900	2697.000	0.205%	4.327
%RSD		1.008	0.859	0.000	1.136	0.785	6.828	0.311	0.669

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	129.700	119.800	21850.000	263600.000	264200.000	110.500	255.200	128.800
2	03:19:28	128.900	119.100	21850.000	262800.000	264900.000	110.600	254.800	129.200
3	03:20:11	131.900	122.300	22210.000	268500.000	271300.000	113.700	261.300	131.400
x		130.200	120.400	21970.000	265000.000	266800.000	111.600	257.100	129.800
σ		1.552	1.663	205.400	3050.000	3900.000	1.788	3.639	1.409
%RSD		1.192	1.381	0.935	1.151	1.462	1.602	1.415	1.085

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	128.500	396.300	402.200	174.800	1.584	2.593	0.000	170.400
2	03:19:28	128.700	400.800	408.400	174.700	1.700	1.810	0.000	170.100
3	03:20:11	130.100	409.600	415.000	178.600	1.616	2.256	0.000	175.900
x		129.100	402.300	408.500	176.000	1.633	2.220	0.000	172.100
σ		0.865	6.771	6.412	2.193	0.060	0.393	0.000	3.250
%RSD		0.670	1.683	1.570	1.246	3.692	17.690	0.000	1.888

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	0.000	11.720	12.010	68.858%	0.198	0.146	1.165	0.870
2	03:19:28	0.000	11.880	11.910	69.891%	0.203	0.146	1.226	1.025
3	03:20:11	0.000	12.520	12.360	68.719%	0.180	0.150	1.279	1.037
x		0.000	12.040	12.090	69.156%	0.193	0.147	1.223	0.977
σ		0.000	0.420	0.234	0.641%	0.012	0.002	0.057	0.093
%RSD		0.000	3.485	1.931	0.926	6.236	1.645	4.658	9.541

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	69.839%	2.107	0.488	0.481	1013.000	1005.000	83.755%	83.680%
2	03:19:28	70.553%	2.157	0.505	0.474	1013.000	1007.000	86.768%	85.616%
3	03:20:11	70.312%	2.128	0.523	0.498	1036.000	1025.000	85.757%	85.344%
x		70.235%	2.131	0.505	0.484	1021.000	1012.000	85.427%	84.880%
σ		0.363%	0.025	0.017	0.012	13.530	10.620	1.533%	1.048%
%RSD		0.517	1.172	3.416	2.561	1.325	1.049	1.795	1.235

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:45	2.050	2.028	119.100	117.300	117.700	83.474%
2	03:19:28	2.061	2.068	120.900	119.200	119.900	84.737%
3	03:20:11	2.177	2.105	124.100	122.700	123.500	83.438%
x		2.096	2.067	121.400	119.700	120.400	83.883%
σ		0.070	0.039	2.558	2.761	2.928	0.740%
%RSD		3.336	1.867	2.108	2.306	2.432	0.882

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	56.896%	4.445	24.350	24.600	0.000	324.000	20410.000	20180.000
2	03:27:42	57.733%	4.596	25.580	25.490	0.000	322.400	20150.000	20110.000
3	03:28:25	56.743%	4.502	26.980	26.420	0.000	335.000	20740.000	20590.000
x		57.124%	4.514	25.640	25.500	0.000	327.100	20440.000	20290.000
σ		0.533%	0.076	1.316	0.906	0.000	6.843	296.400	262.800
%RSD		0.934	1.690	5.132	3.553	0.000	2.092	1.451	1.295

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	88590.000	5796.000	0.000	7851.000	8442.000	7706.000	64.443%	748.900
2	03:27:42	88560.000	5735.000	0.000	7843.000	8375.000	7761.000	65.892%	775.900
3	03:28:25	90280.000	5889.000	0.000	8016.000	8539.000	7991.000	65.744%	763.300
x		89140.000	5807.000	0.000	7903.000	8452.000	7819.000	65.360%	762.700
σ		981.400	77.660	0.000	97.910	82.470	151.400	0.797%	13.530
%RSD		1.101	1.337	0.000	1.239	0.976	1.937	1.220	1.774

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	145.500	112.300	4405.000	204000.000	204300.000	70.340	165.700	123.100
2	03:27:42	145.100	111.100	4345.000	201800.000	201500.000	70.070	163.600	121.000
3	03:28:25	147.700	112.600	4461.000	206200.000	206900.000	71.550	168.100	124.900
x		146.100	112.000	4404.000	204000.000	204200.000	70.650	165.800	123.000
σ		1.422	0.815	58.020	2214.000	2712.000	0.789	2.243	1.964
%RSD		0.973	0.728	1.317	1.085	1.328	1.117	1.353	1.597

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	121.100	326.500	327.700	116.200	1.500	2.228	0.000	56.560
2	03:27:42	121.500	326.600	331.000	115.000	1.678	1.553	0.000	57.010
3	03:28:25	124.400	333.800	336.100	119.700	1.828	2.564	0.000	58.840
x		122.300	329.000	331.600	116.900	1.668	2.115	0.000	57.470
σ		1.809	4.201	4.231	2.442	0.164	0.515	0.000	1.210
%RSD		1.479	1.277	1.276	2.088	9.826	24.350	0.000	2.106

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	0.000	6.613	6.777	68.259%	0.179	0.113	0.867	0.687
2	03:27:42	0.000	6.622	7.025	69.437%	0.165	0.108	0.842	0.649
3	03:28:25	0.000	7.044	7.170	69.047%	0.200	0.117	0.787	0.626
x		0.000	6.760	6.991	68.915%	0.181	0.113	0.832	0.654
σ		0.000	0.246	0.199	0.600%	0.017	0.004	0.041	0.031
%RSD		0.000	3.643	2.845	0.871	9.643	3.748	4.923	4.734

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	67.482%	2.090	0.241	0.238	661.900	656.700	79.663%	80.221%
2	03:27:42	70.152%	1.995	0.231	0.207	658.700	655.200	82.562%	82.405%
3	03:28:25	69.731%	2.055	0.241	0.214	676.300	670.900	82.826%	82.651%
x		69.122%	2.047	0.238	0.220	665.600	660.900	81.683%	81.759%
σ		1.436%	0.048	0.006	0.016	9.371	8.654	1.755%	1.338%
%RSD		2.077	2.347	2.443	7.454	1.408	1.309	2.148	1.636

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:00	1.228	1.234	100.400	98.290	99.010	82.759%
2	03:27:42	1.227	1.248	101.900	99.860	100.600	84.422%
3	03:28:25	1.272	1.303	105.400	103.600	104.300	83.963%
x		1.243	1.261	102.600	100.600	101.300	83.715%
σ		0.026	0.036	2.572	2.737	2.734	0.859%
%RSD		2.063	2.875	2.507	2.721	2.699	1.026

CCV 781130 4/11/2013 3:34:32 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:35:14	60.744%	106.800	108.000	104.800	0.000	51730.000	52070.000	51910.000
2	03:35:58	62.136%	104.800	107.500	103.300	0.000	50570.000	50880.000	50760.000
3	03:36:41	61.306%	106.500	107.400	107.600	0.000	51840.000	52010.000	52000.000
x		61.395%	106.035%	107.643%	105.200%	0.000	102.754%	103.307%	103.120%
σ		0.701%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.141	1.015	0.326	2.056	0.000	1.372	1.294	1.339
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:35:14	510.700	5566.000	0.000	52250.000	50260.000	52420.000	63.378%	104.400
2	03:35:58	500.900	5395.000	0.000	51590.000	50360.000	51660.000	64.041%	102.000
3	03:36:41	510.400	5509.000	0.000	52510.000	51020.000	52640.000	63.170%	103.200
x		101.466%	109.799%	0.000	104.229%	101.101%	104.485%	63.530%	103.226%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.455%	n/a
%RSD		1.100	1.583	0.000	0.912	0.819	0.984	0.716	1.149
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:35:14	101.400	100.900	480.600	26680.000	24150.000	101.000	101.500	102.000
2	03:35:58	100.400	99.940	480.400	26410.000	24180.000	100.300	100.500	100.700
3	03:36:41	102.700	101.700	487.500	26810.000	24410.000	102.300	101.200	102.600
x		101.492%	100.821%	96.568%	106.542%	96.980%	101.187%	101.041%	101.785%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.136	0.849	0.834	0.756	0.575	0.984	0.513	0.979
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:35:14	101.300	100.400	101.700	99.130	100.800	98.460	0.000	100.900
2	03:35:58	99.670	99.470	101.000	97.970	99.010	98.410	0.000	101.600
3	03:36:41	101.700	101.000	100.500	98.720	101.700	100.200	0.000	101.700
x		100.909%	100.273%	101.045%	98.608%	100.492%	99.009%	0.000	101.412%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.080	0.764	0.580	0.598	1.346	1.004	0.000	0.450
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:35:14	66.454%	98.230	98.720	67.980%	97.980	99.060	99.690	101.600
2	03:35:58	67.066%	100.900	100.700	69.373%	97.130	97.730	98.670	99.860
3	03:36:41	67.070%	103.000	102.300	68.218%	99.310	100.300	100.700	101.500
x		66.864%	100.717%	100.575%	68.524%	98.140%	99.035%	99.698%	100.968%
σ		0.354%	n/a	n/a	0.745%	n/a	n/a	n/a	n/a
%RSD		0.530	2.397	1.805	1.088	1.121	1.311	1.041	0.952
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:35:14	67.823%	99.930	100.100	100.200	100.900	101.200	74.302%	74.922%
2	03:35:58	69.178%	99.600	99.230	98.710	100.600	99.950	75.343%	76.344%
3	03:36:41	68.131%	102.200	101.500	101.500	102.200	101.900	74.912%	76.029%
x		68.378%	100.568%	100.266%	100.153%	101.247%	101.036%	74.852%	75.765%
σ		0.710%	n/a	n/a	n/a	n/a	n/a	0.523%	0.747%
%RSD		1.039	1.389	1.123	1.394	0.858	0.991	0.698	0.986
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	03:35:14	96.240	95.560	95.200	95.040	95.100	80.183%		
2	03:35:58	96.460	95.870	96.590	95.740	95.700	81.308%		
3	03:36:41	97.900	97.400	97.520	96.270	97.000	81.058%		
x		96.865%	96.274%	96.436%	95.684%	95.934%	80.849%		
σ		n/a	n/a	n/a	n/a	n/a	0.591%		
%RSD		0.932	1.022	1.207	0.641	1.012	0.731		

CCB5 4/11/2013 3:44:15 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	90.280%	-0.034	-0.599	-0.329	0.000	-10.860	3.028	2.700
2	03:45:41	92.139%	-0.034	-0.643	-0.209	0.000	-10.540	3.579	3.803
3	03:46:24	92.375%	-0.011	-0.219	-0.290	0.000	-6.621	6.492	6.136
x		91.598%	-0.026	-0.487	-0.276	0.000	-9.341	4.366	4.213
σ		1.147%	0.013	0.233	0.061	0.000	2.360	1.861	1.754
%RSD		1.252	49.840	47.940	22.190	0.000	25.270	42.630	41.630

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	2.552	-263.600	0.000	-13.170	14.950	-19.020	86.147%	0.041
2	03:45:41	2.628	-250.500	0.000	-12.710	16.410	-15.510	87.508%	0.039
3	03:46:24	3.657	-237.000	0.000	-8.384	13.850	-6.365	86.991%	0.039
x		2.946	-250.400	0.000	-11.420	15.070	-13.630	86.882%	0.040
σ		0.617	13.300	0.000	2.639	1.286	6.534	0.687%	0.001
%RSD		20.960	5.312	0.000	23.110	8.536	47.930	0.791	2.687

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	0.008	-0.002	0.566	0.393	0.268	-0.005	0.049	0.185
2	03:45:41	0.030	0.018	0.647	0.075	0.631	-0.004	0.048	0.186
3	03:46:24	0.056	0.044	0.850	2.819	3.311	0.005	0.116	0.235
x		0.031	0.020	0.688	1.095	1.403	-0.001	0.071	0.202
σ		0.024	0.023	0.146	1.501	1.662	0.006	0.039	0.029
%RSD		77.560	116.800	21.240	137.000	118.400	434.600	55.120	14.280

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	0.245	1.950	1.948	-0.275	-0.667	-1.809	0.000	0.079
2	03:45:41	0.218	1.993	1.952	-0.117	-0.598	-0.783	0.000	0.099
3	03:46:24	0.229	1.789	1.953	-0.136	-0.416	-0.972	0.000	0.105
x		0.231	1.911	1.951	-0.176	-0.561	-1.188	0.000	0.094
σ		0.013	0.107	0.003	0.087	0.130	0.546	0.000	0.013
%RSD		5.734	5.616	0.132	49.150	23.140	45.960	0.000	13.990

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	81.120%	0.062	0.072	92.081%	-0.004	-0.001	-0.012	-0.007
2	03:45:41	82.723%	0.053	0.044	93.176%	-0.001	-0.004	-0.033	-0.011
3	03:46:24	81.687%	0.028	0.066	92.318%	0.004	0.002	-0.018	0.005
x		81.843%	0.048	0.061	92.525%	-0.001	-0.001	-0.021	-0.004
σ		0.813%	0.018	0.015	0.576%	0.004	0.003	0.011	0.009
%RSD		0.993	37.300	24.390	0.622	645.700	258.200	49.630	196.700

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	85.063%	0.087	0.000	-0.005	0.070	0.056	85.306%	86.386%
2	03:45:41	87.722%	0.079	-0.009	-0.000	0.062	0.068	87.407%	87.878%
3	03:46:24	86.695%	0.068	0.004	0.012	0.099	0.080	87.013%	87.131%
x		86.493%	0.078	-0.002	0.002	0.077	0.068	86.575%	87.131%
σ		1.341%	0.010	0.007	0.009	0.020	0.012	1.117%	0.746%
%RSD		1.551	12.330	442.200	394.300	25.460	17.260	1.290	0.857

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:44:58	0.009	0.009	0.029	0.027	0.030	96.545%
2	03:45:41	0.008	0.005	0.035	0.028	0.030	98.740%
3	03:46:24	0.011	0.008	0.042	0.038	0.040	98.853%
x		0.010	0.007	0.036	0.031	0.034	98.046%
σ		0.001	0.002	0.007	0.006	0.006	1.301%
%RSD		14.150	28.990	18.370	20.230	16.490	1.327

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:53:16	56.367%	5.143	25.040	24.490	0.000	322.500	21540.000	21530.000
2	03:53:59	57.317%	4.914	27.420	25.040	0.000	328.200	21700.000	21650.000
3	03:54:42	58.117%	4.994	24.600	25.040	0.000	323.700	21480.000	21330.000
x		57.267%	5.017	25.690	24.860	0.000	324.800	21570.000	21510.000
σ		0.876%	0.116	1.520	0.322	0.000	3.023	110.300	161.700
%RSD		1.529	2.317	5.916	1.295	0.000	0.931	0.511	0.752
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:53:16	92380.000	6394.000	0.000	9151.000	3426.000	3040.000	65.628%	668.900
2	03:53:59	92970.000	6380.000	0.000	9253.000	3489.000	3090.000	65.927%	679.000
3	03:54:42	92030.000	6268.000	0.000	9114.000	3423.000	3042.000	66.120%	674.000
x		92460.000	6347.000	0.000	9172.000	3446.000	3058.000	65.892%	674.000
σ		473.100	68.930	0.000	71.860	37.290	28.220	0.248%	5.072
%RSD		0.512	1.086	0.000	0.783	1.082	0.923	0.376	0.752
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:53:16	129.500	115.400	3824.000	210400.000	211200.000	101.100	180.400	154.500
2	03:53:59	131.300	116.600	3862.000	211500.000	212800.000	101.200	183.400	156.200
3	03:54:42	129.400	116.400	3852.000	211100.000	211300.000	101.200	181.600	155.500
x		130.100	116.100	3846.000	211000.000	211800.000	101.200	181.800	155.400
σ		1.066	0.616	19.440	546.900	862.800	0.058	1.553	0.884
%RSD		0.819	0.531	0.505	0.259	0.407	0.057	0.854	0.569
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:53:16	154.100	468.500	475.600	130.800	1.102	1.917	0.000	45.190
2	03:53:59	156.900	477.700	486.300	133.400	1.185	1.579	0.000	45.930
3	03:54:42	154.200	471.700	479.000	132.100	1.347	1.942	0.000	45.900
x		155.100	472.700	480.300	132.100	1.211	1.813	0.000	45.670
σ		1.542	4.688	5.494	1.327	0.124	0.203	0.000	0.421
%RSD		0.995	0.992	1.144	1.005	10.270	11.210	0.000	0.923
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:53:16	0.000	6.553	6.609	67.975%	0.182	0.095	0.900	0.770
2	03:53:59	0.000	6.619	6.604	68.803%	0.166	0.108	0.898	0.740
3	03:54:42	0.000	6.532	6.543	69.320%	0.169	0.111	0.997	0.760
x		0.000	6.568	6.585	68.699%	0.172	0.105	0.931	0.757
σ		0.000	0.046	0.037	0.679%	0.008	0.008	0.056	0.015
%RSD		0.000	0.698	0.563	0.988	4.927	7.915	6.044	1.992
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:53:16	67.193%	2.227	0.215	0.217	532.200	531.700	80.477%	79.637%
2	03:53:59	69.213%	2.263	0.224	0.234	535.900	534.500	82.251%	81.680%
3	03:54:42	69.319%	2.277	0.205	0.205	535.100	531.400	83.226%	82.607%
x		68.575%	2.256	0.215	0.219	534.400	532.500	81.985%	81.308%
σ		1.198%	0.026	0.009	0.014	1.895	1.701	1.394%	1.519%
%RSD		1.747	1.146	4.406	6.623	0.355	0.320	1.700	1.868
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	03:53:16	1.281	1.243	119.900	117.800	118.600	82.000%		
2	03:53:59	1.279	1.305	123.300	120.900	121.500	82.198%		
3	03:54:42	1.288	1.287	122.400	121.100	121.400	82.767%		
x		1.283	1.278	121.900	119.900	120.500	82.322%		
σ		0.005	0.032	1.782	1.833	1.669	0.398%		
%RSD		0.356	2.501	1.462	1.528	1.385	0.484		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	55.635%	8.151	14.440	15.570	0.000	292.000	14450.000	14500.000
2	04:02:14	56.095%	8.715	15.870	16.190	0.000	294.900	14440.000	14490.000
3	04:02:57	56.711%	8.466	16.170	15.570	0.000	292.200	14410.000	14410.000
x		56.147%	8.444	15.490	15.780	0.000	293.000	14440.000	14470.000
σ		0.540%	0.283	0.925	0.357	0.000	1.647	22.630	51.040
%RSD		0.962	3.347	5.970	2.261	0.000	0.562	0.157	0.353

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	122400.000	5703.000	0.000	5898.000	7982.000	7318.000	63.337%	977.400
2	04:02:14	122800.000	5696.000	0.000	5884.000	7817.000	7317.000	63.829%	986.600
3	04:02:57	121900.000	5657.000	0.000	5889.000	8086.000	7328.000	63.389%	981.500
x		122400.000	5686.000	0.000	5890.000	7962.000	7321.000	63.518%	981.800
σ		466.000	24.900	0.000	6.977	135.900	6.037	0.271%	4.620
%RSD		0.381	0.438	0.000	0.118	1.707	0.082	0.426	0.470

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	292.900	133.200	39860.000	276200.000	278800.000	171.300	113.500	46.210
2	04:02:14	292.700	132.700	39580.000	274300.000	276600.000	170.300	111.900	45.990
3	04:02:57	296.300	133.200	39920.000	277600.000	279700.000	171.800	112.000	46.350
x		294.000	133.000	39790.000	276000.000	278400.000	171.200	112.400	46.180
σ		2.036	0.300	184.700	1665.000	1581.000	0.781	0.875	0.181
%RSD		0.693	0.226	0.464	0.603	0.568	0.457	0.778	0.391

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	46.290	394.000	402.700	122.300	5.537	5.655	0.000	51.770
2	04:02:14	46.370	397.100	403.900	121.600	6.091	5.906	0.000	52.190
3	04:02:57	46.230	400.400	406.300	122.400	5.660	5.163	0.000	51.700
x		46.300	397.200	404.300	122.100	5.763	5.575	0.000	51.890
σ		0.070	3.237	1.791	0.442	0.291	0.378	0.000	0.268
%RSD		0.151	0.815	0.443	0.362	5.049	6.775	0.000	0.516

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	0.000	14.130	14.280	66.524%	0.455	0.370	1.375	1.186
2	04:02:14	0.000	14.320	14.080	67.595%	0.412	0.407	1.239	1.147
3	04:02:57	0.000	14.620	13.990	67.008%	0.421	0.380	1.241	1.138
x		0.000	14.360	14.120	67.042%	0.429	0.385	1.285	1.157
σ		0.000	0.243	0.148	0.536%	0.022	0.019	0.078	0.026
%RSD		0.000	1.696	1.051	0.800	5.237	4.997	6.068	2.236

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	67.240%	2.046	0.211	0.208	1151.000	1142.000	76.675%	77.111%
2	04:02:14	68.617%	1.994	0.202	0.192	1150.000	1145.000	78.418%	79.038%
3	04:02:57	68.479%	2.086	0.206	0.189	1154.000	1146.000	78.668%	78.670%
x		68.112%	2.042	0.206	0.197	1152.000	1144.000	77.921%	78.273%
σ		0.758%	0.046	0.004	0.010	1.969	2.152	1.086%	1.023%
%RSD		1.113	2.251	2.177	5.157	0.171	0.188	1.393	1.307

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:31	1.948	1.998	174.400	170.000	171.100	82.351%
2	04:02:14	2.010	2.001	178.800	172.700	175.600	82.428%
3	04:02:57	2.021	1.996	179.700	174.300	176.100	82.220%
x		1.993	1.998	177.700	172.300	174.300	82.333%
σ		0.039	0.003	2.869	2.187	2.762	0.105%
%RSD		1.972	0.130	1.615	1.269	1.584	0.128

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	54.367%	6.910	18.790	18.140	0.000	333.300	19630.000	19610.000
2	04:10:26	55.856%	6.742	18.260	17.680	0.000	333.100	19600.000	19430.000
3	04:11:09	55.500%	6.776	18.130	17.790	0.000	335.900	19650.000	19580.000
x		55.241%	6.809	18.390	17.870	0.000	334.100	19630.000	19540.000
σ		0.778%	0.089	0.352	0.238	0.000	1.581	23.090	96.130
%RSD		1.408	1.304	1.913	1.334	0.000	0.473	0.118	0.492

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	142700.000	6050.000	0.000	7912.000	5726.000	5342.000	62.727%	1261.000
2	04:10:26	141300.000	5969.000	0.000	7896.000	5820.000	5303.000	64.045%	1257.000
3	04:11:09	142300.000	6047.000	0.000	7899.000	5676.000	5359.000	64.904%	1263.000
x		142100.000	6022.000	0.000	7902.000	5741.000	5335.000	63.892%	1260.000
σ		706.500	46.000	0.000	8.716	73.270	28.700	1.096%	3.130
%RSD		0.497	0.764	0.000	0.110	1.276	0.538	1.716	0.248

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	275.800	156.200	8200.000	276600.000	278700.000	84.000	110.200	72.210
2	04:10:26	276.800	156.900	8182.000	274400.000	277000.000	84.570	109.200	71.050
3	04:11:09	277.300	154.900	8117.000	272500.000	276500.000	83.440	109.700	71.830
x		276.600	156.000	8166.000	274500.000	277400.000	84.010	109.700	71.700
σ		0.759	1.037	43.910	2057.000	1149.000	0.568	0.518	0.590
%RSD		0.274	0.665	0.538	0.749	0.414	0.675	0.472	0.823

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	71.320	416.600	422.300	115.800	5.722	5.942	0.000	47.270
2	04:10:26	70.380	418.700	425.500	115.200	5.868	5.956	0.000	48.230
3	04:11:09	70.350	417.600	425.200	116.100	5.917	5.899	0.000	48.000
x		70.690	417.600	424.300	115.700	5.836	5.932	0.000	47.830
σ		0.550	1.045	1.788	0.458	0.101	0.030	0.000	0.505
%RSD		0.778	0.250	0.421	0.396	1.736	0.504	0.000	1.056

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	0.000	10.750	10.810	66.085%	0.355	0.322	0.555	0.444
2	04:10:26	0.000	10.790	10.910	67.451%	0.334	0.323	0.669	0.527
3	04:11:09	0.000	11.110	10.990	67.925%	0.353	0.344	0.544	0.425
x		0.000	10.880	10.910	67.154%	0.347	0.330	0.589	0.465
σ		0.000	0.197	0.086	0.955%	0.012	0.013	0.069	0.054
%RSD		0.000	1.813	0.788	1.423	3.320	3.795	11.740	11.650

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	66.504%	2.378	0.152	0.119	690.400	688.600	77.000%	77.047%
2	04:10:26	68.661%	2.509	0.144	0.157	688.800	685.200	79.437%	79.629%
3	04:11:09	68.431%	2.372	0.149	0.140	695.800	694.800	80.075%	80.466%
x		67.866%	2.420	0.148	0.138	691.700	689.500	78.837%	79.047%
σ		1.185%	0.077	0.004	0.019	3.695	4.848	1.623%	1.782%
%RSD		1.746	3.202	2.661	13.620	0.534	0.703	2.058	2.254

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:09:43	1.408	1.469	132.800	129.100	130.800	81.921%
2	04:10:26	1.450	1.499	134.300	130.300	132.000	83.437%
3	04:11:09	1.528	1.477	136.000	132.600	134.000	83.919%
x		1.462	1.482	134.400	130.700	132.200	83.092%
σ		0.061	0.016	1.574	1.793	1.596	1.043%
%RSD		4.153	1.061	1.171	1.372	1.207	1.255

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:17:55	76.715%	-0.045	-0.772	-0.581	0.000	-16.360	6.102	5.962
2	04:18:38	77.711%	-0.045	-0.967	-0.679	0.000	-15.570	6.075	5.634
3	04:19:21	77.806%	-0.013	-0.786	-0.675	0.000	-15.860	6.441	6.347
x		77.411%	-0.034	-0.841	-0.645	0.000	-15.930	6.206	5.981
σ		0.604%	0.019	0.109	0.056	0.000	0.398	0.204	0.357
%RSD		0.781	54.320	12.920	8.632	0.000	2.498	3.287	5.966
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:17:55	7.365	-254.000	0.000	-33.730	19.970	-14.120	91.776%	0.302
2	04:18:38	7.222	-244.900	0.000	-34.940	18.710	-15.270	93.375%	0.216
3	04:19:21	10.650	-236.400	0.000	-36.950	20.300	-14.200	93.761%	0.214
x		8.412	-245.100	0.000	-35.210	19.660	-14.530	92.971%	0.244
σ		1.939	8.778	0.000	1.624	0.839	0.643	1.052%	0.050
%RSD		23.050	3.581	0.000	4.613	4.268	4.428	1.132	20.580
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:17:55	0.052	0.080	0.553	22.640	11.940	-0.015	-0.031	0.017
2	04:18:38	0.075	0.098	0.588	21.370	11.100	-0.012	-0.002	0.018
3	04:19:21	0.047	0.109	0.869	27.520	17.210	-0.011	-0.048	0.004
x		0.058	0.096	0.670	23.840	13.420	-0.012	-0.027	0.013
σ		0.015	0.015	0.173	3.244	3.314	0.002	0.023	0.008
%RSD		26.080	15.260	25.840	13.600	24.700	17.710	86.680	57.150
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:17:55	0.005	0.316	0.302	-0.389	-0.953	-2.365	0.000	0.054
2	04:18:38	0.012	0.341	0.347	-0.283	-1.171	-1.764	0.000	0.052
3	04:19:21	0.064	0.335	0.235	-0.462	-0.777	-2.681	0.000	0.064
x		0.027	0.331	0.295	-0.378	-0.967	-2.270	0.000	0.057
σ		0.032	0.013	0.056	0.090	0.198	0.466	0.000	0.006
%RSD		119.800	3.906	19.040	23.860	20.440	20.530	0.000	11.320
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:17:55	87.879%	-0.120	-0.126	76.826%	-0.004	-0.009	0.011	-0.004
2	04:18:38	89.706%	-0.154	-0.127	78.087%	-0.009	-0.006	-0.021	-0.019
3	04:19:21	90.301%	-0.136	-0.117	78.322%	-0.005	-0.007	-0.049	-0.022
x		89.295%	-0.137	-0.123	77.745%	-0.006	-0.007	-0.020	-0.015
σ		1.262%	0.017	0.005	0.804%	0.002	0.001	0.030	0.010
%RSD		1.413	12.380	4.460	1.035	37.780	16.150	150.700	66.420
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:17:55	73.544%	3.445	-0.012	-0.017	0.193	0.184	77.990%	79.038%
2	04:18:38	75.652%	2.614	-0.015	-0.018	0.211	0.174	80.355%	81.112%
3	04:19:21	76.100%	2.751	-0.015	-0.019	0.162	0.238	80.703%	81.581%
x		75.099%	2.937	-0.014	-0.018	0.189	0.199	79.683%	80.577%
σ		1.365%	0.446	0.002	0.001	0.025	0.034	1.476%	1.353%
%RSD		1.817	15.180	14.980	6.037	13.070	17.290	1.852	1.680
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	04:17:55	-0.005	-0.010	0.019	0.019	0.019	90.682%		
2	04:18:38	-0.008	-0.010	0.021	0.026	0.019	91.677%		
3	04:19:21	-0.010	-0.011	0.024	0.018	0.024	92.169%		
x		-0.008	-0.010	0.021	0.021	0.021	91.509%		
σ		0.002	0.001	0.002	0.004	0.003	0.758%		
%RSD		30.220	8.929	11.120	19.340	12.760	0.828		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	57.050%	49.570	937.100	942.600	0.000	47860.000	48250.000	48340.000
2	04:26:51	58.198%	48.510	954.500	960.000	0.000	48040.000	48180.000	48240.000
3	04:27:34	57.895%	48.540	958.700	969.800	0.000	47900.000	47860.000	47910.000
x		57.714%	48.880	950.100	957.500	0.000	47930.000	48090.000	48160.000
σ		0.595%	0.603	11.470	13.770	0.000	93.750	209.300	227.800
%RSD		1.031	1.234	1.208	1.438	0.000	0.196	0.435	0.473

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	2022.000	4322.000	0.000	48520.000	47720.000	48920.000	59.754%	943.500
2	04:26:51	2034.000	4324.000	0.000	48980.000	48240.000	49260.000	60.979%	958.300
3	04:27:34	2012.000	4298.000	0.000	48520.000	48010.000	48840.000	61.440%	945.200
x		2023.000	4314.000	0.000	48680.000	47990.000	49010.000	60.724%	949.000
σ		11.090	14.300	0.000	264.700	263.500	223.800	0.872%	8.100
%RSD		0.548	0.331	0.000	0.544	0.549	0.457	1.436	0.854

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	482.000	188.900	443.300	1050.000	983.000	469.400	473.100	244.900
2	04:26:51	483.300	188.700	448.700	1047.000	992.900	470.900	474.900	248.800
3	04:27:34	476.100	186.200	441.300	1030.000	977.400	466.300	467.100	245.000
x		480.500	187.900	444.400	1042.000	984.400	468.900	471.700	246.200
σ		3.837	1.488	3.857	10.740	7.832	2.342	4.084	2.184
%RSD		0.798	0.792	0.868	1.031	0.796	0.500	0.866	0.887

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	243.700	463.400	463.200	34.320	8.330	10.650	0.000	1036.000
2	04:26:51	246.700	467.800	472.100	35.830	8.549	11.890	0.000	1045.000
3	04:27:34	241.300	463.700	464.200	34.590	8.252	10.850	0.000	1033.000
x		243.900	465.000	466.500	34.920	8.377	11.130	0.000	1038.000
σ		2.732	2.508	4.912	0.807	0.154	0.666	0.000	6.357
%RSD		1.120	0.539	1.053	2.312	1.840	5.988	0.000	0.612

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	62.998%	954.300	947.200	64.917%	44.970	45.490	46.120	35.160
2	04:26:51	64.042%	970.400	973.600	65.496%	46.130	46.700	47.740	35.720
3	04:27:34	64.674%	956.200	957.800	66.002%	45.540	45.720	46.460	34.900
x		63.905%	960.300	959.500	65.472%	45.540	45.970	46.770	35.260
σ		0.847%	8.833	13.290	0.543%	0.581	0.640	0.854	0.416
%RSD		1.325	0.920	1.385	0.829	1.275	1.392	1.826	1.180

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	62.985%	2210.000	461.700	461.400	1875.000	1883.000	70.314%	71.223%
2	04:26:51	64.355%	2224.000	469.500	467.800	1903.000	1898.000	72.437%	73.057%
3	04:27:34	65.186%	2191.000	462.300	461.400	1888.000	1880.000	72.893%	73.929%
x		64.175%	2208.000	464.500	463.500	1889.000	1887.000	71.881%	72.737%
σ		1.111%	16.430	4.318	3.727	13.980	9.694	1.376%	1.381%
%RSD		1.731	0.744	0.930	0.804	0.740	0.514	1.915	1.899

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:08	44.040	44.130	17.510	18.950	18.090	77.604%
2	04:26:51	45.520	45.380	17.770	19.600	18.550	78.466%
3	04:27:34	45.490	45.200	17.940	19.860	18.620	78.634%
x		45.020	44.910	17.740	19.470	18.420	78.234%
σ		0.845	0.677	0.222	0.473	0.290	0.552%
%RSD		1.877	1.507	1.249	2.427	1.573	0.706

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	52.909%	3.950	62.980	60.710	0.000	401.900	16630.000	16600.000
2	04:35:04	53.902%	4.009	61.830	58.610	0.000	404.400	16510.000	16570.000
3	04:35:47	54.114%	3.822	60.710	61.330	0.000	411.500	16790.000	16750.000
x		53.642%	3.927	61.840	60.220	0.000	406.000	16650.000	16640.000
σ		0.643%	0.096	1.135	1.426	0.000	4.959	141.900	99.860
%RSD		1.199	2.440	1.835	2.369	0.000	1.221	0.853	0.600

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	72060.000	12330.000	0.000	9339.000	15940.000	14180.000	59.526%	908.500
2	04:35:04	71770.000	12180.000	0.000	9325.000	16200.000	14240.000	60.658%	912.600
3	04:35:47	72490.000	12190.000	0.000	9427.000	16350.000	14410.000	60.884%	921.600
x		72110.000	12230.000	0.000	9364.000	16160.000	14280.000	60.356%	914.200
σ		364.100	82.830	0.000	55.510	208.400	122.200	0.728%	6.674
%RSD		0.505	0.677	0.000	0.593	1.289	0.856	1.206	0.730

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	164.600	168.100	4324.000	127200.000	126100.000	52.090	174.800	129.900
2	04:35:04	161.800	167.400	4295.000	126000.000	125200.000	51.670	170.700	128.900
3	04:35:47	163.700	170.100	4349.000	128200.000	127300.000	52.370	173.600	129.200
x		163.400	168.500	4323.000	127100.000	126200.000	52.040	173.100	129.400
σ		1.384	1.439	26.960	1110.000	1036.000	0.354	2.100	0.535
%RSD		0.847	0.854	0.624	0.873	0.821	0.680	1.213	0.414

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	127.400	482.600	489.900	1458.000	4.055	3.709	0.000	4609.000
2	04:35:04	127.500	482.700	486.600	1458.000	3.337	3.489	0.000	4639.000
3	04:35:47	129.100	493.900	497.900	1477.000	4.041	3.852	0.000	4710.000
x		128.000	486.400	491.500	1464.000	3.811	3.683	0.000	4653.000
σ		0.931	6.524	5.830	11.030	0.410	0.183	0.000	51.910
%RSD		0.727	1.341	1.186	0.753	10.760	4.969	0.000	1.116

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	0.000	664.700	662.000	63.828%	0.470	0.423	2.125	2.059
2	04:35:04	0.000	670.600	669.200	64.713%	0.485	0.447	2.138	2.005
3	04:35:47	0.000	684.000	683.800	64.693%	0.493	0.462	2.039	2.004
x		0.000	673.100	671.700	64.411%	0.483	0.444	2.101	2.023
σ		0.000	9.864	11.090	0.505%	0.012	0.020	0.054	0.032
%RSD		0.000	1.465	1.652	0.784	2.438	4.530	2.565	1.559

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	63.322%	5.360	0.828	0.877	425.800	422.300	72.772%	73.114%
2	04:35:04	65.040%	4.875	0.858	0.844	428.800	428.000	75.037%	75.973%
3	04:35:47	65.253%	4.509	0.881	0.898	432.400	429.900	75.324%	76.372%
x		64.538%	4.915	0.856	0.873	429.000	426.700	74.378%	75.153%
σ		1.059%	0.427	0.026	0.027	3.276	3.922	1.398%	1.777%
%RSD		1.641	8.685	3.073	3.124	0.764	0.919	1.880	2.365

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:34:22	1.020	1.004	303.700	305.200	305.200	78.185%
2	04:35:04	1.029	1.005	310.500	309.800	310.900	79.470%
3	04:35:47	1.041	1.033	313.600	315.500	315.100	80.042%
x		1.030	1.014	309.300	310.200	310.400	79.232%
σ		0.010	0.017	5.042	5.147	4.973	0.951%
%RSD		1.016	1.628	1.630	1.660	1.602	1.201

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:42:34	56.467%	0.764	13.580	13.420	0.000	86.100	3037.000	3059.000
2	04:43:17	56.635%	0.664	12.770	12.930	0.000	86.930	3030.000	3025.000
3	04:44:00	56.545%	0.793	12.450	13.240	0.000	89.120	3024.000	3037.000
x		56.549%	0.741	12.930	13.190	0.000	87.390	3030.000	3040.000
σ		0.084%	0.068	0.581	0.247	0.000	1.559	6.232	16.810
%RSD		0.149	9.129	4.495	1.869	0.000	1.784	0.206	0.553
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:42:34	14730.000	2688.000	0.000	1983.000	3351.000	2973.000	61.651%	186.300
2	04:43:17	14540.000	2121.000	0.000	1961.000	3333.000	2889.000	62.043%	186.200
3	04:44:00	14620.000	2160.000	0.000	1980.000	3273.000	2883.000	61.150%	188.200
x		14630.000	2323.000	0.000	1975.000	3319.000	2915.000	61.614%	186.900
σ		96.060	317.000	0.000	11.600	40.910	50.500	0.448%	1.119
%RSD		0.657	13.650	0.000	0.587	1.233	1.732	0.726	0.599
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:42:34	32.640	33.950	879.900	25830.000	23110.000	10.420	35.510	25.810
2	04:43:17	32.120	34.090	875.900	25590.000	22890.000	10.310	35.250	25.970
3	04:44:00	33.210	34.370	877.100	25840.000	23120.000	10.480	34.580	26.290
x		32.660	34.130	877.600	25750.000	23040.000	10.400	35.110	26.030
σ		0.544	0.212	2.070	143.500	129.900	0.087	0.480	0.244
%RSD		1.665	0.622	0.236	0.557	0.564	0.838	1.368	0.936
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:42:34	25.730	98.650	99.380	287.800	0.313	-0.286	0.000	888.200
2	04:43:17	26.060	98.170	99.180	290.100	0.329	-1.184	0.000	887.600
3	04:44:00	26.380	99.070	99.770	291.500	0.407	-0.774	0.000	888.800
x		26.060	98.630	99.440	289.800	0.349	-0.748	0.000	888.200
σ		0.322	0.450	0.301	1.860	0.051	0.450	0.000	0.619
%RSD		1.234	0.457	0.302	0.642	14.480	60.100	0.000	0.070
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:42:34	69.406%	127.700	129.200	65.059%	0.090	0.076	0.394	0.384
2	04:43:17	69.820%	129.200	131.100	65.110%	0.103	0.094	0.357	0.323
3	04:44:00	69.369%	130.800	132.500	64.878%	0.101	0.080	0.359	0.388
x		69.532%	129.200	130.900	65.016%	0.098	0.083	0.370	0.365
σ		0.250%	1.537	1.651	0.122%	0.007	0.010	0.021	0.037
%RSD		0.360	1.190	1.261	0.187	7.402	11.490	5.597	10.080
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:42:34	66.372%	0.846	0.172	0.183	87.390	87.270	72.725%	73.647%
2	04:43:17	67.256%	0.875	0.168	0.152	86.880	85.960	73.966%	74.479%
3	04:44:00	67.239%	0.846	0.168	0.169	85.750	85.700	73.671%	74.589%
x		66.956%	0.856	0.169	0.168	86.670	86.310	73.454%	74.238%
σ		0.506%	0.017	0.002	0.016	0.844	0.845	0.649%	0.515%
%RSD		0.756	1.951	1.393	9.315	0.973	0.979	0.883	0.694
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	04:42:34	0.188	0.195	61.410	61.180	61.320	81.064%		
2	04:43:17	0.195	0.197	62.380	62.560	62.600	80.379%		
3	04:44:00	0.204	0.197	62.790	62.580	62.860	80.048%		
x		0.196	0.196	62.190	62.110	62.260	80.497%		
σ		0.008	0.001	0.704	0.802	0.827	0.518%		
%RSD		4.059	0.693	1.132	1.292	1.328	0.644		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	51.865%	4.446	62.250	57.210	0.000	399.300	16950.000	16990.000
2	04:51:29	52.625%	4.171	63.180	58.380	0.000	399.900	17050.000	17020.000
3	04:52:12	54.991%	3.751	56.990	55.850	0.000	377.400	16170.000	16170.000
x		53.161%	4.123	60.800	57.150	0.000	392.200	16720.000	16730.000
σ		1.631%	0.350	3.340	1.264	0.000	12.830	480.000	481.500
%RSD		3.067	8.490	5.493	2.212	0.000	3.272	2.871	2.878

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	79520.000	13900.000	0.000	10180.000	16950.000	14990.000	59.910%	1018.000
2	04:51:29	79490.000	13910.000	0.000	10240.000	17170.000	15150.000	61.108%	1023.000
3	04:52:12	75720.000	13140.000	0.000	9787.000	16500.000	14650.000	62.174%	974.900
x		78240.000	13650.000	0.000	10070.000	16870.000	14930.000	61.064%	1005.000
σ		2187.000	439.700	0.000	244.500	343.400	258.800	1.133%	26.520
%RSD		2.794	3.221	0.000	2.429	2.035	1.734	1.855	2.638

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	175.800	162.800	4960.000	134600.000	133900.000	56.220	167.200	121.600
2	04:51:29	175.000	162.500	4980.000	134500.000	134200.000	56.130	166.900	121.800
3	04:52:12	167.500	157.500	4779.000	129200.000	128700.000	54.070	159.200	116.000
x		172.800	160.900	4907.000	132700.000	132300.000	55.470	164.400	119.800
σ		4.565	2.990	110.600	3108.000	3071.000	1.214	4.547	3.297
%RSD		2.642	1.858	2.254	2.341	2.321	2.188	2.766	2.752

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	121.800	499.100	509.900	1551.000	4.000	3.085	0.000	5120.000
2	04:51:29	121.200	500.100	507.000	1557.000	3.597	2.468	0.000	5099.000
3	04:52:12	114.500	481.300	488.100	1495.000	3.802	3.284	0.000	4934.000
x		119.200	493.500	501.700	1534.000	3.799	2.946	0.000	5051.000
σ		4.038	10.580	11.850	34.000	0.202	0.426	0.000	101.800
%RSD		3.389	2.144	2.363	2.216	5.304	14.450	0.000	2.015

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	0.000	716.400	718.400	63.824%	0.498	0.402	2.172	1.994
2	04:51:29	0.000	726.000	727.200	64.935%	0.463	0.431	2.121	2.092
3	04:52:12	0.000	699.200	697.800	66.647%	0.448	0.437	2.127	1.898
x		0.000	713.900	714.500	65.135%	0.469	0.423	2.140	1.995
σ		0.000	13.560	15.050	1.422%	0.026	0.019	0.028	0.097
%RSD		0.000	1.900	2.107	2.183	5.450	4.457	1.292	4.869

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	63.657%	3.205	0.851	0.793	460.400	464.200	73.336%	74.388%
2	04:51:29	65.747%	3.069	0.824	0.845	464.200	458.900	75.794%	76.459%
3	04:52:12	67.149%	3.104	0.797	0.853	446.800	445.800	77.712%	78.720%
x		65.518%	3.126	0.824	0.830	457.100	456.300	75.614%	76.522%
σ		1.757%	0.071	0.027	0.033	9.142	9.514	2.193%	2.166%
%RSD		2.682	2.265	3.270	3.932	2.000	2.085	2.901	2.831

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:46	1.121	1.074	277.900	277.800	277.300	80.334%
2	04:51:29	1.122	1.100	283.800	284.800	285.000	80.957%
3	04:52:12	1.123	1.078	273.700	274.300	274.400	82.587%
x		1.122	1.084	278.500	278.900	278.900	81.293%
σ		0.001	0.014	5.069	5.337	5.456	1.163%
%RSD		0.096	1.332	1.820	1.913	1.956	1.431

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	50.298%	53.300	1048.000	1047.000	0.000	49010.000	66080.000	65990.000
2	04:59:40	50.328%	53.260	1059.000	1070.000	0.000	49420.000	66500.000	66510.000
3	05:00:23	51.328%	52.130	1063.000	1058.000	0.000	48600.000	65670.000	65520.000
x		50.652%	52.900	1057.000	1058.000	0.000	49010.000	66080.000	66010.000
σ		0.586%	0.661	7.782	11.490	0.000	410.300	416.900	495.400
%RSD		1.157	1.249	0.737	1.086	0.000	0.837	0.631	0.750

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	116000.000	17990.000	0.000	62590.000	61080.000	62940.000	58.880%	2097.000
2	04:59:40	116300.000	17970.000	0.000	62840.000	61680.000	62960.000	59.862%	2071.000
3	05:00:23	114900.000	17720.000	0.000	62620.000	61550.000	63130.000	60.266%	2075.000
x		115700.000	17890.000	0.000	62690.000	61440.000	63010.000	59.669%	2081.000
σ		744.100	147.600	0.000	137.700	320.200	106.200	0.713%	14.200
%RSD		0.643	0.825	0.000	0.220	0.521	0.169	1.195	0.682

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	674.100	384.500	4578.000	117600.000	116900.000	493.700	609.500	335.300
2	04:59:40	673.300	383.400	4580.000	117100.000	116800.000	493.800	607.800	337.200
3	05:00:23	675.200	382.600	4576.000	117300.000	116300.000	494.200	606.100	336.800
x		674.200	383.500	4578.000	117300.000	116700.000	493.900	607.800	336.400
σ		0.970	0.999	2.340	240.100	320.800	0.261	1.738	0.966
%RSD		0.144	0.260	0.051	0.205	0.275	0.053	0.286	0.287

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	332.500	945.700	960.200	1312.000	12.420	12.500	0.000	5740.000
2	04:59:40	335.500	952.300	969.000	1316.000	12.600	11.740	0.000	5797.000
3	05:00:23	334.100	950.900	957.200	1311.000	12.070	12.510	0.000	5756.000
x		334.000	949.600	962.100	1313.000	12.360	12.250	0.000	5765.000
σ		1.482	3.458	6.133	2.562	0.269	0.442	0.000	29.620
%RSD		0.444	0.364	0.637	0.195	2.175	3.604	0.000	0.514

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	0.000	1505.000	1509.000	61.688%	44.900	45.510	48.330	45.970
2	04:59:40	0.000	1535.000	1539.000	61.828%	45.160	44.860	48.010	45.800
3	05:00:23	0.000	1531.000	1533.000	62.402%	45.330	45.710	47.910	45.690
x		0.000	1524.000	1527.000	61.972%	45.130	45.360	48.080	45.820
σ		0.000	16.290	15.650	0.378%	0.215	0.447	0.221	0.142
%RSD		0.000	1.070	1.025	0.610	0.476	0.985	0.459	0.310

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	62.207%	1061.000	247.400	244.400	2327.000	2325.000	71.808%	72.787%
2	04:59:40	63.937%	1065.000	247.000	247.500	2327.000	2319.000	74.017%	74.957%
3	05:00:23	64.079%	1073.000	247.700	248.700	2326.000	2319.000	74.623%	75.369%
x		63.408%	1067.000	247.400	246.900	2327.000	2321.000	73.483%	74.371%
σ		1.042%	5.958	0.381	2.215	0.901	3.581	1.482%	1.387%
%RSD		1.644	0.559	0.154	0.897	0.039	0.154	2.016	1.865

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:56	45.480	45.270	280.500	282.300	281.100	77.218%
2	04:59:40	46.270	45.990	285.400	287.700	286.700	78.279%
3	05:00:23	46.150	45.970	285.900	289.100	288.200	78.674%
x		45.960	45.740	283.900	286.400	285.300	78.057%
σ		0.428	0.408	2.958	3.605	3.747	0.753%
%RSD		0.931	0.893	1.042	1.259	1.313	0.965

240-22274-E-3-A PDS 4/11/2013 5:06:25 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	50.037%	59.000	1133.000	1135.000	0.000	52700.000	68430.000	68080.000
2	05:07:51	50.867%	57.720	1149.000	1135.000	0.000	52070.000	67460.000	67510.000
3	05:08:34	52.121%	54.940	1138.000	1131.000	0.000	51900.000	67220.000	67080.000
x		51.008%	57.220	1140.000	1134.000	0.000	52220.000	67700.000	67560.000
σ		1.049%	2.076	8.179	2.316	0.000	424.200	638.200	499.600
%RSD		2.057	3.628	0.717	0.204	0.000	0.812	0.943	0.740

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	72560.000	22030.000	0.000	59370.000	64040.000	66230.000	58.314%	1873.000
2	05:07:51	72010.000	21810.000	0.000	59840.000	64180.000	66170.000	59.258%	1853.000
3	05:08:34	71730.000	21570.000	0.000	59550.000	64600.000	66390.000	59.594%	1868.000
x		72100.000	21800.000	0.000	59580.000	64280.000	66260.000	59.055%	1865.000
σ		420.000	227.000	0.000	238.600	290.900	116.100	0.664%	10.810
%RSD		0.583	1.041	0.000	0.400	0.453	0.175	1.124	0.580

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	662.100	360.200	4674.000	123000.000	122200.000	549.600	664.000	372.500
2	05:07:51	662.000	358.500	4664.000	122300.000	122200.000	548.900	660.600	372.700
3	05:08:34	662.900	359.900	4668.000	122500.000	121700.000	548.100	659.900	372.300
x		662.300	359.500	4669.000	122600.000	122000.000	548.900	661.500	372.500
σ		0.490	0.916	5.115	382.500	237.700	0.729	2.228	0.198
%RSD		0.074	0.255	0.110	0.312	0.195	0.133	0.337	0.053

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	368.000	947.300	962.100	1467.000	13.840	14.690	0.000	5633.000
2	05:07:51	369.400	955.800	969.300	1471.000	13.900	14.430	0.000	5662.000
3	05:08:34	366.400	956.700	963.900	1470.000	14.390	12.990	0.000	5684.000
x		367.900	953.300	965.100	1469.000	14.040	14.030	0.000	5660.000
σ		1.540	5.171	3.765	2.402	0.300	0.917	0.000	25.430
%RSD		0.418	0.542	0.390	0.164	2.135	6.536	0.000	0.449

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	0.000	1676.000	1672.000	61.442%	50.690	50.890	52.750	40.180
2	05:07:51	0.000	1689.000	1688.000	62.220%	50.860	51.590	52.200	39.330
3	05:08:34	0.000	1695.000	1699.000	62.962%	50.880	51.200	52.810	41.010
x		0.000	1687.000	1686.000	62.208%	50.810	51.230	52.590	40.180
σ		0.000	9.701	13.520	0.760%	0.102	0.353	0.332	0.843
%RSD		0.000	0.575	0.802	1.223	0.201	0.688	0.631	2.097

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	61.670%	2307.000	482.100	483.900	2429.000	2403.000	71.940%	72.530%
2	05:07:51	63.148%	2300.000	488.900	489.700	2425.000	2410.000	73.835%	75.060%
3	05:08:34	63.078%	2325.000	498.300	498.800	2447.000	2435.000	74.547%	75.990%
x		62.632%	2311.000	489.800	490.800	2434.000	2416.000	73.441%	74.527%
σ		0.834%	12.920	8.110	7.545	11.930	16.850	1.348%	1.791%
%RSD		1.332	0.559	1.656	1.537	0.490	0.697	1.835	2.403

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	05:07:08	49.750	49.550	315.400	316.500	316.800	76.353%
2	05:07:51	50.630	50.500	319.600	321.400	321.500	77.529%
3	05:08:34	50.590	50.700	322.300	324.200	323.500	78.318%
x		50.320	50.250	319.100	320.700	320.600	77.400%
σ		0.496	0.613	3.461	3.898	3.421	0.989%
%RSD		0.986	1.221	1.085	1.215	1.067	1.278

CCV 781130 4/11/2013 5:14:37 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	58.263%	102.900	109.900	111.000	0.000	50790.000	51200.000	51210.000
2	05:16:03	60.073%	102.600	110.200	110.300	0.000	50100.000	50510.000	50380.000
3	05:16:46	59.375%	102.500	110.100	115.700	0.000	50990.000	51470.000	51590.000
x		59.237%	102.665%	110.109%	112.314%	0.000	101.247%	102.121%	102.120%
σ		0.913%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.542	0.189	0.145	2.616	0.000	0.921	0.975	1.211

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	500.100	5516.000	0.000	51940.000	49690.000	51970.000	59.812%	102.700
2	05:16:03	496.800	5393.000	0.000	51840.000	49610.000	51790.000	60.285%	101.900
3	05:16:46	508.100	5504.000	0.000	52710.000	50730.000	52160.000	60.650%	100.900
x		100.338%	109.418%	0.000	104.321%	100.013%	103.946%	60.249%	101.848%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.420%	n/a
%RSD		1.164	1.237	0.000	0.912	1.249	0.351	0.698	0.914

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	100.800	100.700	481.200	26880.000	24120.000	101.600	100.500	101.600
2	05:16:03	100.100	100.500	485.100	26760.000	24250.000	100.900	101.700	101.900
3	05:16:46	101.100	101.600	483.900	26900.000	24360.000	102.300	100.800	102.500
x		100.708%	100.900%	96.682%	107.387%	96.969%	101.584%	101.031%	101.981%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.514	0.587	0.415	0.283	0.497	0.694	0.603	0.454

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	101.600	100.100	100.400	98.400	99.750	99.150	0.000	101.600
2	05:16:03	101.300	100.500	101.600	98.530	101.700	98.800	0.000	101.600
3	05:16:46	100.400	100.800	100.500	99.300	100.900	100.700	0.000	102.000
x		101.099%	100.470%	100.861%	98.742%	100.763%	99.563%	0.000	101.721%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.626	0.385	0.652	0.492	0.960	1.036	0.000	0.251

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	62.143%	99.970	99.080	65.125%	97.820	98.290	100.600	101.300
2	05:16:03	63.350%	102.900	101.400	65.653%	97.270	98.550	97.480	100.900
3	05:16:46	63.596%	104.600	103.300	65.513%	98.690	99.480	98.140	100.600
x		63.030%	102.458%	101.261%	65.430%	97.927%	98.772%	98.738%	100.942%
σ		0.778%	n/a	n/a	0.273%	n/a	n/a	n/a	n/a
%RSD		1.234	2.263	2.072	0.418	0.732	0.635	1.656	0.336

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	63.460%	102.000	101.300	101.600	101.500	102.100	69.667%	70.401%
2	05:16:03	64.991%	101.400	101.600	100.800	101.500	100.700	71.250%	72.368%
3	05:16:46	65.699%	101.800	100.300	100.700	102.100	101.400	71.650%	72.398%
x		64.716%	101.763%	101.068%	101.001%	101.697%	101.409%	70.856%	71.722%
σ		1.144%	n/a	n/a	n/a	n/a	n/a	1.048%	1.144%
%RSD		1.768	0.294	0.708	0.493	0.346	0.690	1.480	1.595

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:20	93.020	92.750	92.700	92.540	92.770	78.406%
2	05:16:03	95.020	94.760	95.340	94.990	94.780	78.788%
3	05:16:46	96.000	95.940	95.710	94.590	95.040	79.143%
x		94.681%	94.484%	94.583%	94.037%	94.199%	78.779%
σ		n/a	n/a	n/a	n/a	n/a	0.369%
%RSD		1.605	1.703	1.735	1.398	1.318	0.468

CCB6 4/11/2013 5:22:51 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:34	80.815%	-0.004	3.911	3.573	0.000	-4.701	3.813	3.957
2	05:24:17	82.409%	-0.005	3.254	3.430	0.000	-5.056	3.807	4.092
3	05:25:00	82.837%	-0.015	3.476	3.065	0.000	-4.189	4.456	4.502
x		82.021%	-0.008	3.547	3.356	0.000	-4.648	4.025	4.184
σ		1.065%	0.006	0.334	0.262	0.000	0.436	0.373	0.284
%RSD		1.299	82.320	9.425	7.808	0.000	9.373	9.272	6.784
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:34	2.904	-261.100	0.000	-2.844	12.450	-9.073	80.810%	-0.053
2	05:24:17	2.907	-267.700	0.000	-5.544	7.419	-13.600	82.145%	0.057
3	05:25:00	3.174	-246.600	0.000	-3.374	8.286	-11.820	82.657%	0.036
x		2.995	-258.500	0.000	-3.921	9.385	-11.500	81.871%	0.013
σ		0.155	10.830	0.000	1.430	2.690	2.281	0.954%	0.058
%RSD		5.187	4.190	0.000	36.480	28.670	19.840	1.165	432.700
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:34	0.005	-0.001	0.602	0.345	0.846	0.003	0.129	0.212
2	05:24:17	0.024	0.008	0.585	-0.582	0.830	0.004	0.141	0.205
3	05:25:00	0.056	-0.012	0.624	-0.589	2.017	0.001	0.052	0.167
x		0.028	-0.002	0.603	-0.275	1.231	0.003	0.107	0.195
σ		0.026	0.010	0.019	0.537	0.681	0.002	0.048	0.024
%RSD		91.770	621.800	3.218	195.100	55.300	56.720	45.190	12.270
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:34	0.213	1.854	2.065	-0.224	-0.889	-2.546	0.000	0.073
2	05:24:17	0.230	1.990	1.951	-0.225	-0.792	-2.599	0.000	0.080
3	05:25:00	0.294	1.801	2.120	-0.105	-0.568	-1.840	0.000	0.097
x		0.246	1.882	2.045	-0.185	-0.750	-2.328	0.000	0.083
σ		0.043	0.098	0.086	0.069	0.165	0.424	0.000	0.012
%RSD		17.490	5.183	4.214	37.130	21.970	18.210	0.000	14.530
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:34	79.685%	0.352	0.395	86.763%	-0.005	-0.004	-0.048	-0.033
2	05:24:17	81.422%	0.418	0.395	87.907%	-0.003	-0.001	-0.046	-0.028
3	05:25:00	82.587%	0.333	0.364	88.433%	-0.003	-0.002	-0.049	-0.027
x		81.232%	0.368	0.384	87.701%	-0.003	-0.002	-0.048	-0.029
σ		1.461%	0.045	0.018	0.854%	0.001	0.001	0.002	0.003
%RSD		1.798	12.150	4.678	0.974	36.850	62.220	3.741	11.620
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:34	79.949%	0.507	0.156	0.150	0.072	0.071	80.601%	81.226%
2	05:24:17	81.180%	0.523	0.176	0.152	0.080	0.066	82.377%	83.539%
3	05:25:00	81.594%	0.515	0.171	0.169	0.057	0.099	82.904%	84.066%
x		80.908%	0.515	0.167	0.157	0.069	0.079	81.961%	82.944%
σ		0.855%	0.008	0.010	0.010	0.012	0.018	1.207%	1.511%
%RSD		1.057	1.564	6.091	6.640	16.890	22.520	1.472	1.822
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:23:34	0.013	0.010	0.039	0.033	0.033	94.230%		
2	05:24:17	0.009	0.006	0.028	0.032	0.031	94.511%		
3	05:25:00	0.002	0.004	0.032	0.031	0.035	95.383%		
x		0.008	0.007	0.033	0.032	0.033	94.708%		
σ		0.006	0.003	0.005	0.001	0.002	0.601%		
%RSD		71.450	42.090	16.580	3.863	5.488	0.635		

CRI 787357 4/11/2013 5:31:06 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:31:49	61.545%	1.025	10.950	9.901	0.000	98.190	100.300	99.570
2	05:32:32	62.061%	1.030	10.040	10.510	0.000	100.500	99.360	103.400
3	05:33:15	61.281%	1.022	9.440	10.560	0.000	99.230	102.600	103.300
x		61.629%	102.592%	202.840%	206.480%	0.000	99.320%	100.778%	102.105%
σ		0.397%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.644	0.398	7.490	3.558	0.000	1.181	1.676	2.147
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:31:49	33.710	398.100	0.000	113.700	113.000	88.180	73.507%	4.469
2	05:32:32	33.320	399.400	0.000	111.800	100.300	98.600	73.360%	5.085
3	05:33:15	33.550	392.700	0.000	111.900	109.200	86.120	73.935%	4.969
x		111.768%	79.346%	0.000	112.477%	107.470%	90.968%	73.601%	96.818%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.299%	n/a
%RSD		0.589	0.898	0.000	0.912	6.074	7.352	0.406	6.757
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:31:49	0.932	2.043	4.716	53.240	48.010	0.483	0.989	2.052
2	05:32:32	1.030	1.953	4.799	54.250	50.010	0.483	1.077	1.986
3	05:33:15	1.052	1.973	4.720	54.320	51.580	0.495	0.895	2.108
x		100.476%	99.474%	948.960%	107.878%	99.735%	97.382%	98.689%	102.446%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		6.334	2.363	0.989	1.117	3.597	1.360	9.261	2.985
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:31:49	1.928	5.036	5.205	1.097	4.972	4.502	0.000	5.193
2	05:32:32	1.957	5.127	5.391	1.010	4.618	3.804	0.000	5.108
3	05:33:15	1.948	5.168	5.422	1.053	4.360	4.577	0.000	5.135
x		97.229%	102.208%	106.781%	105.311%	93.000%	85.888%	0.000	102.906%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.766	1.314	2.198	4.153	6.599	9.926	0.000	0.844
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:31:49	68.074%	4.245	4.170	73.715%	0.967	0.994	1.010	1.079
2	05:32:32	68.373%	4.240	4.264	74.117%	0.976	1.028	1.031	1.054
3	05:33:15	68.195%	4.428	4.452	73.627%	0.991	1.010	0.944	1.033
x		68.214%	86.092%	85.905%	73.820%	97.766%	101.053%	99.479%	105.510%
σ		0.151%	n/a	n/a	0.261%	n/a	n/a	n/a	n/a
%RSD		0.221	2.489	3.338	0.354	1.238	1.669	4.586	2.201
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:31:49	69.291%	5.178	2.035	2.031	10.130	10.430	73.360%	74.546%
2	05:32:32	69.411%	5.245	2.065	2.128	10.470	10.290	74.563%	75.692%
3	05:33:15	70.188%	5.473	2.129	2.158	10.390	10.480	74.994%	75.179%
x		69.630%	105.976%	103.812%	105.290%	103.318%	103.980%	74.306%	75.139%
σ		0.487%	n/a	n/a	n/a	n/a	n/a	0.847%	0.574%
%RSD		0.699	2.913	2.337	3.158	1.723	0.952	1.140	0.764
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:31:49	0.940	0.928	0.967	0.959	0.952	87.117%		
2	05:32:32	0.910	0.938	0.942	0.965	0.964	86.740%		
3	05:33:15	0.937	0.921	0.953	0.974	0.977	86.726%		
x		92.863%	92.900%	95.394%	96.586%	96.444%	86.861%		
σ		n/a	n/a	n/a	n/a	n/a	0.222%		
%RSD		1.770	0.905	1.356	0.760	1.255	0.255		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	60.428%	1.086	8.588	8.788	0.000	99.690	102.600	102.800
2	05:40:48	61.686%	0.899	9.006	9.236	0.000	98.490	101.500	100.600
3	05:41:31	61.529%	1.181	9.491	9.396	0.000	99.510	100.200	102.800
x		61.215%	105.561%	180.571%	182.802%	0.000	99.227%	101.423%	102.068%
σ		0.685%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.120	13.580	5.005	3.446	0.000	0.653	1.200	1.240
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	33.420	405.400	0.000	111.700	102.700	91.240	73.241%	4.799
2	05:40:48	33.430	393.600	0.000	111.200	97.870	90.680	74.391%	4.323
3	05:41:31	33.030	381.000	0.000	109.000	101.100	84.760	74.397%	4.455
x		110.980%	78.667%	0.000	110.640%	100.558%	88.894%	74.009%	90.514%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.666%	n/a
%RSD		0.692	3.113	0.000	1.273	2.463	4.041	0.900	5.435
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	0.930	1.905	4.765	58.510	51.930	0.500	1.051	2.055
2	05:40:48	0.896	1.968	4.760	57.030	48.240	0.514	1.066	2.081
3	05:41:31	0.899	1.920	4.783	57.830	49.830	0.492	0.895	1.977
x		90.841%	96.543%	953.811%	115.580%	100.005%	100.362%	100.408%	101.885%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.067	1.722	0.252	1.283	3.694	2.257	9.441	2.641
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	1.928	5.070	5.441	0.907	4.466	4.415	0.000	5.278
2	05:40:48	1.832	5.184	5.477	0.954	5.061	4.030	0.000	5.313
3	05:41:31	1.962	5.111	4.915	0.912	5.044	4.218	0.000	5.307
x		95.350%	102.429%	105.553%	92.429%	97.142%	84.420%	0.000	105.985%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.540	1.134	5.955	2.783	6.975	4.554	0.000	0.357
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	65.327%	3.980	4.055	73.116%	0.979	0.971	1.053	1.160
2	05:40:48	66.396%	4.099	4.011	73.657%	0.960	1.012	0.977	0.999
3	05:41:31	66.848%	4.292	4.182	73.884%	0.997	0.993	1.040	1.005
x		66.190%	82.469%	81.655%	73.552%	97.826%	99.210%	102.303%	105.447%
σ		0.781%	n/a	n/a	0.395%	n/a	n/a	n/a	n/a
%RSD		1.180	3.817	2.171	0.537	1.875	2.035	3.983	8.646
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	68.851%	4.983	2.056	1.983	10.590	10.430	72.774%	74.128%
2	05:40:48	70.253%	5.146	2.021	1.983	10.290	10.270	74.380%	75.402%
3	05:41:31	70.339%	5.319	2.012	2.004	10.240	10.200	75.576%	76.000%
x		69.814%	102.984%	101.472%	99.504%	103.698%	103.034%	74.243%	75.177%
σ		0.835%	n/a	n/a	n/a	n/a	n/a	1.406%	0.956%
%RSD		1.196	3.259	1.163	0.611	1.817	1.156	1.894	1.272
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:40:05	0.962	0.912	0.945	0.960	0.950	85.999%		
2	05:40:48	0.905	0.915	0.944	0.976	0.949	87.216%		
3	05:41:31	0.878	0.893	0.955	0.974	0.951	87.854%		
x		91.473%	90.661%	94.771%	97.002%	94.998%	87.023%		
σ		n/a	n/a	n/a	n/a	n/a	0.942%		
%RSD		4.702	1.321	0.632	0.906	0.067	1.083		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:20	56.290%	106.600	104.400	107.200	0.000	51820.000	52170.000	52250.000
2	05:49:04	57.248%	104.800	106.300	106.900	0.000	52050.000	52130.000	51990.000
3	05:49:47	57.025%	106.600	106.500	108.000	0.000	51510.000	51890.000	51920.000
x		56.854%	106.021%	105.692%	107.366%	0.000	103.587%	104.124%	104.111%
σ		0.502%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.882	0.965	1.098	0.556	0.000	0.520	0.295	0.327
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:20	513.200	5666.000	0.000	52450.000	50040.000	52270.000	59.398%	102.100
2	05:49:04	511.800	5617.000	0.000	52590.000	50230.000	52480.000	59.841%	101.600
3	05:49:47	509.500	5535.000	0.000	52400.000	50320.000	52160.000	60.891%	103.200
x		102.303%	112.123%	0.000	104.959%	100.393%	104.604%	60.043%	102.281%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.767%	n/a
%RSD		0.366	1.184	0.000	0.187	0.291	0.304	1.278	0.796
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:20	101.700	101.300	481.700	26940.000	24190.000	101.700	102.200	102.500
2	05:49:04	101.200	100.400	482.200	26870.000	24160.000	102.400	101.500	102.400
3	05:49:47	99.880	100.400	479.000	26660.000	24110.000	101.000	100.500	101.500
x		100.927%	100.713%	96.192%	107.303%	96.611%	101.694%	101.376%	102.138%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.943	0.508	0.357	0.542	0.163	0.656	0.856	0.539
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:20	102.300	98.830	100.000	97.920	99.460	99.400	0.000	101.100
2	05:49:04	102.000	99.250	100.700	99.300	98.400	102.100	0.000	101.300
3	05:49:47	100.500	99.030	100.300	97.810	101.200	99.610	0.000	100.900
x		101.605%	99.035%	100.343%	98.342%	99.690%	100.375%	0.000	101.091%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.946	0.210	0.362	0.844	1.426	1.510	0.000	0.205
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:20	61.473%	98.770	98.770	63.581%	97.930	98.890	98.170	100.800
2	05:49:04	62.127%	101.800	101.400	64.193%	97.410	99.160	99.010	100.300
3	05:49:47	62.842%	102.600	101.900	64.820%	98.010	98.580	99.180	99.860
x		62.147%	101.062%	100.685%	64.198%	97.784%	98.876%	98.786%	100.318%
σ		0.685%	n/a	n/a	0.620%	n/a	n/a	n/a	n/a
%RSD		1.102	2.009	1.668	0.965	0.335	0.290	0.546	0.448
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:20	62.202%	100.500	101.200	100.600	100.900	101.700	68.568%	69.123%
2	05:49:04	63.546%	101.000	100.300	100.300	100.600	100.600	70.553%	71.104%
3	05:49:47	64.980%	100.300	99.860	99.710	101.000	100.900	70.770%	71.989%
x		63.576%	100.645%	100.471%	100.212%	100.824%	101.075%	69.964%	70.738%
σ		1.389%	n/a	n/a	n/a	n/a	n/a	1.213%	1.468%
%RSD		2.185	0.356	0.706	0.453	0.205	0.592	1.734	2.075
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:48:20	93.000	92.780	92.690	92.530	91.840	77.558%		
2	05:49:04	95.640	94.870	94.190	94.250	94.260	77.550%		
3	05:49:47	95.280	95.050	95.380	94.160	94.890	78.713%		
x		94.637%	94.235%	94.088%	93.648%	93.662%	77.940%		
σ		n/a	n/a	n/a	n/a	n/a	0.669%		
%RSD		1.510	1.336	1.433	1.032	1.721	0.858		

CCB7 4/11/2013 5:55:53 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:56:36	83.763%	-0.046	0.022	0.353	0.000	-11.620	4.047	4.029
2	05:57:20	86.126%	-0.027	0.096	0.403	0.000	-11.290	4.686	4.342
3	05:58:03	85.786%	-0.012	0.242	0.359	0.000	-10.740	4.408	5.149
x		85.225%	-0.029	0.120	0.372	0.000	-11.220	4.380	4.507
σ		1.278%	0.017	0.112	0.027	0.000	0.444	0.320	0.578
%RSD		1.499	59.770	93.500	7.323	0.000	3.955	7.308	12.830
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:56:36	2.718	-307.700	0.000	-21.500	12.550	-15.950	84.881%	0.062
2	05:57:20	2.712	-292.800	0.000	-17.810	5.052	-13.420	86.006%	0.041
3	05:58:03	2.821	-302.900	0.000	-21.080	9.265	-16.750	88.081%	0.113
x		2.750	-301.100	0.000	-20.130	8.955	-15.380	86.323%	0.072
σ		0.061	7.622	0.000	2.022	3.758	1.737	1.624%	0.037
%RSD		2.225	2.531	0.000	10.050	41.970	11.300	1.881	51.220
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:56:36	0.016	0.016	0.626	-2.025	0.042	0.003	0.100	0.174
2	05:57:20	0.039	0.005	0.619	-2.671	0.513	0.001	0.060	0.142
3	05:58:03	0.035	0.034	0.655	-3.000	-0.364	0.007	0.065	0.161
x		0.030	0.018	0.633	-2.565	0.064	0.004	0.075	0.159
σ		0.013	0.014	0.019	0.496	0.439	0.003	0.022	0.016
%RSD		41.980	78.600	3.030	19.320	691.000	89.310	28.820	9.882
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:56:36	0.216	1.881	1.939	-0.393	-1.108	-2.307	0.000	0.092
2	05:57:20	0.222	1.866	1.820	-0.396	-0.633	-2.349	0.000	0.085
3	05:58:03	0.206	1.821	1.927	-0.398	-1.037	-2.342	0.000	0.092
x		0.214	1.856	1.895	-0.396	-0.926	-2.333	0.000	0.089
σ		0.008	0.031	0.065	0.002	0.257	0.022	0.000	0.004
%RSD		3.714	1.668	3.435	0.623	27.700	0.961	0.000	4.625
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:56:36	78.237%	0.156	0.207	85.488%	-0.003	0.003	-0.038	-0.018
2	05:57:20	79.834%	0.133	0.139	86.134%	-0.001	-0.005	-0.062	-0.040
3	05:58:03	81.365%	0.125	0.085	87.843%	0.001	-0.002	-0.057	-0.032
x		79.812%	0.138	0.144	86.488%	-0.001	-0.001	-0.052	-0.030
σ		1.564%	0.016	0.061	1.217%	0.002	0.004	0.013	0.011
%RSD		1.959	11.730	42.400	1.407	199.600	341.200	23.980	36.710
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:56:36	82.861%	0.191	0.025	0.017	0.063	0.068	80.912%	81.680%
2	05:57:20	84.742%	0.202	0.023	0.020	0.062	0.078	82.182%	83.227%
3	05:58:03	86.282%	0.140	0.030	0.027	0.057	0.061	84.550%	84.732%
x		84.628%	0.178	0.026	0.021	0.061	0.069	82.548%	83.213%
σ		1.713%	0.033	0.003	0.005	0.003	0.008	1.846%	1.526%
%RSD		2.024	18.620	13.150	24.290	5.209	11.900	2.237	1.834
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:56:36	0.013	0.011	0.036	0.035	0.035	91.677%		
2	05:57:20	0.010	0.005	0.036	0.036	0.036	93.100%		
3	05:58:03	0.013	0.005	0.036	0.040	0.039	94.596%		
x		0.012	0.007	0.036	0.037	0.036	93.124%		
σ		0.001	0.003	0.000	0.003	0.002	1.460%		
%RSD		11.750	47.020	1.309	7.667	5.926	1.568		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:04:53	52.179%	4.867	31.310	32.350	0.000	375.400	13070.000	13190.000
2	06:05:36	54.077%	4.296	35.630	32.290	0.000	376.400	13110.000	13170.000
3	06:06:19	54.430%	4.544	33.640	32.830	0.000	373.700	12950.000	13010.000
x		53.562%	4.569	33.520	32.490	0.000	375.200	13040.000	13120.000
σ		1.210%	0.286	2.163	0.297	0.000	1.377	83.550	99.370
%RSD		2.260	6.269	6.453	0.914	0.000	0.367	0.640	0.757
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:04:53	85940.000	14780.000	0.000	8649.000	4895.000	4288.000	60.793%	1017.000
2	06:05:36	85840.000	14580.000	0.000	8710.000	4876.000	4397.000	61.609%	1027.000
3	06:06:19	84000.000	14330.000	0.000	8578.000	4698.000	4302.000	62.651%	1019.000
x		85260.000	14560.000	0.000	8646.000	4823.000	4329.000	61.684%	1021.000
σ		1091.000	226.100	0.000	65.740	109.100	59.390	0.931%	5.646
%RSD		1.279	1.553	0.000	0.760	2.262	1.372	1.510	0.553
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:04:53	154.400	89.120	3965.000	126900.000	126700.000	78.730	98.560	76.840
2	06:05:36	156.900	90.270	4017.000	128300.000	127500.000	80.120	99.330	76.950
3	06:06:19	154.600	88.960	3953.000	126700.000	126200.000	78.600	97.930	75.910
x		155.300	89.450	3978.000	127300.000	126800.000	79.150	98.610	76.560
σ		1.375	0.713	34.290	871.100	646.600	0.843	0.702	0.571
%RSD		0.885	0.797	0.862	0.684	0.510	1.065	0.712	0.746
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:04:53	77.400	393.900	396.100	1196.000	3.106	2.587	0.000	585.100
2	06:05:36	76.830	399.100	401.800	1218.000	3.182	2.838	0.000	603.700
3	06:06:19	75.180	396.700	399.800	1205.000	3.207	3.697	0.000	668.900
x		76.470	396.600	399.200	1206.000	3.165	3.041	0.000	619.200
σ		1.153	2.566	2.890	10.690	0.053	0.582	0.000	44.010
%RSD		1.508	0.647	0.724	0.886	1.673	19.150	0.000	7.108
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:04:53	0.000	623.700	621.500	65.095%	0.337	0.312	1.998	1.949
2	06:05:36	0.000	642.100	644.400	65.276%	0.352	0.307	1.892	1.982
3	06:06:19	0.000	636.000	634.600	66.956%	0.329	0.337	2.018	1.885
x		0.000	633.900	633.500	65.776%	0.339	0.319	1.970	1.939
σ		0.000	9.360	11.490	1.027%	0.012	0.016	0.068	0.049
%RSD		0.000	1.477	1.813	1.561	3.424	5.091	3.436	2.539
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:04:53	63.367%	2.926	0.442	0.424	671.200	673.000	73.033%	73.282%
2	06:05:36	65.087%	2.967	0.430	0.424	679.000	679.300	74.361%	74.739%
3	06:06:19	66.086%	2.877	0.448	0.396	673.900	672.300	76.177%	76.570%
x		64.847%	2.923	0.440	0.415	674.700	674.900	74.524%	74.864%
σ		1.375%	0.045	0.009	0.016	3.961	3.897	1.579%	1.647%
%RSD		2.121	1.540	2.140	3.831	0.587	0.577	2.118	2.200
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:04:53	1.112	1.117	155.700	151.300	152.500	79.752%		
2	06:05:36	1.136	1.156	161.900	157.600	159.400	79.499%		
3	06:06:19	1.136	1.134	161.800	158.000	159.100	80.096%		
x		1.128	1.135	159.800	155.600	157.000	79.782%		
σ		0.014	0.020	3.544	3.757	3.897	0.300%		
%RSD		1.221	1.748	2.218	2.415	2.482	0.376		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:05	53.326%	3.617	57.700	55.550	0.000	387.800	14600.000	14660.000
2	06:13:48	54.761%	3.684	56.590	53.760	0.000	384.800	14340.000	14390.000
3	06:14:31	54.693%	3.556	60.160	56.000	0.000	389.000	14510.000	14520.000
x		54.260%	3.619	58.150	55.100	0.000	387.200	14480.000	14520.000
σ		0.810%	0.064	1.827	1.188	0.000	2.169	133.300	134.000
%RSD		1.492	1.762	3.142	2.156	0.000	0.560	0.921	0.923
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:05	71760.000	13210.000	0.000	10070.000	10120.000	9063.000	62.139%	862.800
2	06:13:48	70910.000	12990.000	0.000	9942.000	10130.000	9068.000	63.341%	861.200
3	06:14:31	71400.000	13080.000	0.000	10020.000	10260.000	8953.000	63.618%	863.100
x		71360.000	13090.000	0.000	10010.000	10170.000	9028.000	63.033%	862.400
σ		426.000	110.900	0.000	66.730	78.420	64.990	0.786%	1.030
%RSD		0.597	0.847	0.000	0.666	0.771	0.720	1.247	0.120
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:05	150.100	143.700	2381.000	107600.000	106800.000	42.260	146.100	118.300
2	06:13:48	150.900	143.700	2381.000	107300.000	106700.000	42.270	145.700	117.900
3	06:14:31	150.700	144.300	2386.000	106900.000	106300.000	42.250	146.400	119.100
x		150.600	143.900	2383.000	107300.000	106600.000	42.260	146.100	118.400
σ		0.415	0.332	3.070	327.500	274.600	0.010	0.333	0.586
%RSD		0.275	0.231	0.129	0.305	0.258	0.023	0.228	0.495
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:05	118.100	398.300	400.900	880.700	3.706	2.819	0.000	2720.000
2	06:13:48	118.500	396.000	402.600	886.500	3.064	3.345	0.000	2713.000
3	06:14:31	118.100	399.200	403.100	886.800	3.292	3.592	0.000	2734.000
x		118.200	397.800	402.200	884.700	3.354	3.252	0.000	2722.000
σ		0.229	1.645	1.121	3.462	0.326	0.395	0.000	10.650
%RSD		0.194	0.414	0.279	0.391	9.705	12.140	0.000	0.391
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:05	0.000	585.900	586.000	66.102%	0.457	0.393	1.844	1.843
2	06:13:48	0.000	593.300	591.400	67.098%	0.439	0.375	1.851	1.757
3	06:14:31	0.000	599.900	596.200	67.142%	0.388	0.388	1.909	1.795
x		0.000	593.100	591.200	66.780%	0.428	0.386	1.868	1.798
σ		0.000	7.009	5.090	0.588%	0.036	0.009	0.035	0.043
%RSD		0.000	1.182	0.861	0.880	8.315	2.340	1.886	2.385
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:05	65.080%	3.250	0.734	0.713	380.900	378.200	74.012%	74.458%
2	06:13:48	66.892%	3.164	0.747	0.740	381.700	379.800	76.329%	77.241%
3	06:14:31	67.114%	3.271	0.735	0.726	379.900	381.100	77.267%	77.332%
x		66.362%	3.228	0.739	0.726	380.900	379.700	75.869%	76.343%
σ		1.116%	0.057	0.007	0.013	0.928	1.438	1.676%	1.634%
%RSD		1.682	1.758	0.924	1.821	0.244	0.379	2.209	2.140
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:13:05	0.916	0.958	233.500	231.400	232.500	80.819%		
2	06:13:48	0.993	0.956	233.200	234.200	233.800	82.507%		
3	06:14:31	0.981	0.974	236.600	236.100	236.000	82.242%		
x		0.963	0.962	234.400	233.900	234.100	81.856%		
σ		0.042	0.010	1.905	2.326	1.780	0.908%		
%RSD		4.325	1.068	0.813	0.995	0.760	1.109		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	54.942%	1.417	61.050	56.990	0.000	244.200	5630.000	5655.000
2	06:22:00	55.546%	1.378	60.620	58.040	0.000	245.700	5665.000	5671.000
3	06:22:43	56.808%	1.325	60.090	56.850	0.000	240.400	5634.000	5651.000
x		55.765%	1.373	60.580	57.290	0.000	243.400	5643.000	5659.000
σ		0.952%	0.046	0.481	0.650	0.000	2.739	18.810	10.400
%RSD		1.707	3.354	0.794	1.135	0.000	1.125	0.333	0.184

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	24820.000	10100.000	0.000	5225.000	25570.000	23210.000	60.503%	449.100
2	06:22:00	24790.000	10050.000	0.000	5227.000	25380.000	23380.000	60.811%	456.300
3	06:22:43	24680.000	9959.000	0.000	5221.000	25840.000	23330.000	61.552%	453.500
x		24760.000	10040.000	0.000	5224.000	25600.000	23310.000	60.955%	453.000
σ		74.310	73.500	0.000	3.341	230.600	88.400	0.539%	3.626
%RSD		0.300	0.732	0.000	0.064	0.901	0.379	0.884	0.800

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	78.530	77.590	1836.000	93920.000	93470.000	24.940	95.720	76.090
2	06:22:00	77.230	77.670	1846.000	93780.000	93020.000	24.910	94.820	75.400
3	06:22:43	77.270	77.760	1843.000	93430.000	92870.000	24.830	95.670	75.890
x		77.680	77.670	1842.000	93710.000	93120.000	24.890	95.400	75.800
σ		0.740	0.083	5.203	250.000	313.500	0.057	0.506	0.356
%RSD		0.953	0.107	0.282	0.267	0.337	0.230	0.530	0.469

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	74.760	237.600	239.300	1383.000	5.344	4.456	0.000	2337.000
2	06:22:00	74.880	239.200	241.500	1401.000	4.883	4.378	0.000	2330.000
3	06:22:43	74.540	236.300	241.200	1383.000	4.966	5.594	0.000	2354.000
x		74.730	237.700	240.700	1389.000	5.065	4.809	0.000	2341.000
σ		0.174	1.438	1.160	10.370	0.246	0.681	0.000	12.360
%RSD		0.233	0.605	0.482	0.747	4.849	14.160	0.000	0.528

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	0.000	567.800	565.800	65.710%	0.368	0.359	1.598	1.542
2	06:22:00	0.000	572.900	572.300	66.625%	0.411	0.350	1.577	1.459
3	06:22:43	0.000	570.700	571.900	67.068%	0.394	0.327	1.302	1.241
x		0.000	570.500	570.000	66.468%	0.391	0.345	1.492	1.414
σ		0.000	2.551	3.608	0.692%	0.022	0.016	0.165	0.155
%RSD		0.000	0.447	0.633	1.041	5.595	4.687	11.040	10.990

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	64.479%	4.608	1.744	1.751	171.000	170.600	71.621%	72.771%
2	06:22:00	66.186%	4.482	1.668	1.738	173.400	170.600	74.113%	75.112%
3	06:22:43	66.440%	4.627	1.731	1.642	173.400	171.600	75.143%	75.729%
x		65.702%	4.572	1.714	1.711	172.600	171.000	73.626%	74.537%
σ		1.066%	0.079	0.041	0.059	1.401	0.578	1.810%	1.560%
%RSD		1.623	1.728	2.382	3.477	0.812	0.338	2.459	2.093

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	1.311	1.320	237.600	235.100	235.800	80.397%
2	06:22:00	1.364	1.288	241.300	238.700	238.600	82.472%
3	06:22:43	1.390	1.351	241.900	239.600	239.900	82.851%
x		1.355	1.320	240.200	237.800	238.100	81.907%
σ		0.040	0.032	2.325	2.346	2.068	1.321%
%RSD		2.971	2.421	0.968	0.987	0.868	1.613

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:30	52.111%	9.147	40.680	38.270	0.000	358.300	16140.000	16200.000
2	06:30:13	52.984%	9.471	41.210	38.270	0.000	361.700	16220.000	16220.000
3	06:30:56	52.586%	9.274	40.610	40.980	0.000	373.100	16480.000	16520.000
x		52.560%	9.297	40.840	39.170	0.000	364.400	16280.000	16310.000
σ		0.437%	0.164	0.325	1.566	0.000	7.765	179.200	181.100
%RSD		0.831	1.758	0.795	3.997	0.000	2.131	1.101	1.110
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:30	117500.000	13350.000	0.000	10860.000	8977.000	8134.000	59.743%	1135.000
2	06:30:13	117300.000	13270.000	0.000	10860.000	9033.000	8171.000	60.827%	1142.000
3	06:30:56	119600.000	13340.000	0.000	11130.000	9121.000	8297.000	60.847%	1155.000
x		118100.000	13320.000	0.000	10950.000	9044.000	8200.000	60.472%	1144.000
σ		1290.000	40.260	0.000	157.800	72.350	85.650	0.632%	10.190
%RSD		1.092	0.302	0.000	1.441	0.800	1.045	1.045	0.891
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:30	246.300	121.600	33450.000	264500.000	265700.000	220.000	147.000	82.990
2	06:30:13	246.300	121.400	33640.000	266000.000	265800.000	219.600	149.400	83.760
3	06:30:56	250.300	124.200	34100.000	270100.000	271500.000	224.000	151.800	84.950
x		247.600	122.400	33730.000	266800.000	267700.000	221.200	149.400	83.900
σ		2.293	1.565	337.400	2881.000	3290.000	2.442	2.365	0.987
%RSD		0.926	1.278	1.001	1.080	1.229	1.104	1.583	1.177
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:30	83.100	495.100	504.600	2150.000	5.877	5.881	0.000	1339.000
2	06:30:13	82.860	504.000	509.100	2166.000	5.852	6.183	0.000	1341.000
3	06:30:56	84.210	514.700	518.600	2205.000	5.850	6.081	0.000	1373.000
x		83.390	504.600	510.700	2174.000	5.859	6.048	0.000	1351.000
σ		0.724	9.816	7.164	28.140	0.015	0.153	0.000	19.190
%RSD		0.868	1.945	1.403	1.295	0.254	2.536	0.000	1.420
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:30	0.000	1365.000	1369.000	63.203%	0.399	0.310	3.013	2.794
2	06:30:13	0.000	1379.000	1378.000	64.620%	0.397	0.328	2.998	2.762
3	06:30:56	0.000	1418.000	1428.000	64.061%	0.393	0.346	3.055	3.016
x		0.000	1387.000	1392.000	63.961%	0.396	0.328	3.022	2.857
σ		0.000	27.140	31.410	0.714%	0.003	0.018	0.029	0.138
%RSD		0.000	1.957	2.257	1.116	0.867	5.585	0.971	4.845
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:30	62.710%	3.304	0.426	0.412	1458.000	1445.000	73.838%	73.672%
2	06:30:13	65.239%	3.193	0.414	0.455	1456.000	1449.000	76.453%	76.678%
3	06:30:56	65.456%	3.265	0.425	0.401	1479.000	1466.000	76.898%	77.369%
x		64.469%	3.254	0.421	0.423	1464.000	1453.000	75.730%	75.906%
σ		1.527%	0.056	0.007	0.028	12.700	11.250	1.653%	1.966%
%RSD		2.368	1.722	1.570	6.735	0.868	0.774	2.183	2.589
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:29:30	1.620	1.597	232.800	226.700	228.800	77.483%		
2	06:30:13	1.607	1.584	236.000	229.900	231.900	79.610%		
3	06:30:56	1.706	1.676	244.600	236.400	239.300	79.013%		
x		1.644	1.619	237.800	231.000	233.300	78.702%		
σ		0.054	0.050	6.136	4.961	5.439	1.097%		
%RSD		3.279	3.076	2.580	2.148	2.331	1.394		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	54.096%	6.042	52.850	53.940	0.000	1252.000	23540.000	23470.000
2	06:38:26	55.554%	5.654	54.270	54.210	0.000	1214.000	22640.000	22490.000
3	06:39:09	55.175%	5.946	57.390	54.500	0.000	1243.000	23230.000	23020.000
x		54.942%	5.881	54.840	54.210	0.000	1237.000	23140.000	22990.000
σ		0.756%	0.202	2.321	0.279	0.000	19.970	456.900	491.500
%RSD		1.376	3.438	4.233	0.514	0.000	1.615	1.975	2.138

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	104000.000	18630.000	0.000	12390.000	8147.000	7636.000	62.383%	984.100
2	06:38:26	99860.000	17700.000	0.000	11960.000	8013.000	7389.000	64.166%	957.500
3	06:39:09	102300.000	18080.000	0.000	12320.000	8304.000	7593.000	63.563%	983.400
x		102100.000	18140.000	0.000	12220.000	8155.000	7540.000	63.371%	975.000
σ		2095.000	469.000	0.000	228.900	145.300	132.100	0.907%	15.160
%RSD		2.052	2.586	0.000	1.873	1.782	1.752	1.431	1.555

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	162.400	132.400	6134.000	252600.000	253400.000	125.100	217.800	157.100
2	06:38:26	156.600	126.500	5883.000	242400.000	244700.000	120.500	208.200	152.900
3	06:39:09	160.200	129.900	6080.000	248600.000	250400.000	123.000	213.100	155.700
x		159.700	129.600	6033.000	247900.000	249500.000	122.900	213.000	155.200
σ		2.903	2.949	132.000	5094.000	4414.000	2.313	4.776	2.178
%RSD		1.817	2.275	2.187	2.055	1.769	1.882	2.242	1.403

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	157.000	477.000	486.600	190.000	1.820	2.132	0.000	234.300
2	06:38:26	152.300	466.600	473.600	182.300	1.732	1.718	0.000	228.800
3	06:39:09	156.100	479.300	489.300	185.100	1.851	2.171	0.000	234.500
x		155.100	474.300	483.200	185.800	1.801	2.007	0.000	232.600
σ		2.503	6.750	8.425	3.894	0.062	0.251	0.000	3.217
%RSD		1.614	1.423	1.744	2.096	3.430	12.500	0.000	1.383

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	0.000	321.600	322.600	64.500%	0.187	0.151	1.120	0.992
2	06:38:26	0.000	313.100	315.200	66.640%	0.194	0.141	1.192	1.069
3	06:39:09	0.000	320.000	322.400	66.666%	0.212	0.148	1.161	1.008
x		0.000	318.200	320.100	65.935%	0.198	0.147	1.158	1.023
σ		0.000	4.545	4.227	1.243%	0.013	0.005	0.036	0.041
%RSD		0.000	1.428	1.321	1.885	6.496	3.646	3.105	4.010

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	64.287%	2.812	0.466	0.480	553.500	550.200	77.264%	77.347%
2	06:38:26	66.738%	2.826	0.441	0.487	540.200	535.800	81.048%	80.763%
3	06:39:09	66.848%	2.785	0.457	0.401	553.500	547.400	81.079%	80.487%
x		65.957%	2.808	0.455	0.456	549.100	544.500	79.797%	79.532%
σ		1.448%	0.021	0.013	0.048	7.671	7.638	2.194%	1.898%
%RSD		2.195	0.754	2.775	10.510	1.397	1.403	2.749	2.386

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:43	1.387	1.345	105.700	103.700	104.600	78.505%
2	06:38:26	1.314	1.350	103.200	101.300	102.400	82.032%
3	06:39:09	1.369	1.365	107.700	104.700	106.000	81.102%
x		1.357	1.353	105.500	103.300	104.300	80.546%
σ		0.038	0.011	2.286	1.739	1.815	1.828%
%RSD		2.817	0.794	2.166	1.684	1.740	2.269

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	55.806%	2.368	19.640	19.840	0.000	232.100	7772.000	7830.000
2	06:46:40	56.689%	2.352	19.490	20.010	0.000	231.600	7643.000	7784.000
3	06:47:23	56.658%	2.326	19.820	20.200	0.000	237.200	7932.000	8002.000
x		56.384%	2.349	19.650	20.020	0.000	233.600	7782.000	7872.000
σ		0.501%	0.021	0.167	0.178	0.000	3.078	144.600	114.700
%RSD		0.889	0.889	0.847	0.889	0.000	1.317	1.859	1.457

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	35570.000	10450.000	0.000	6758.000	2460.000	2204.000	62.281%	322.000
2	06:46:40	35230.000	10320.000	0.000	6748.000	2445.000	2189.000	63.280%	322.700
3	06:47:23	36220.000	10570.000	0.000	6883.000	2385.000	2284.000	62.212%	328.100
x		35670.000	10450.000	0.000	6796.000	2430.000	2226.000	62.591%	324.300
σ		502.100	121.500	0.000	75.280	39.740	51.080	0.598%	3.338
%RSD		1.408	1.163	0.000	1.108	1.635	2.295	0.955	1.029

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	68.940	66.330	3941.000	130000.000	129800.000	62.110	125.100	67.520
2	06:46:40	68.140	65.410	3912.000	129200.000	128300.000	61.790	125.900	67.890
3	06:47:23	70.110	67.510	4043.000	133000.000	132200.000	63.880	130.000	70.400
x		69.070	66.420	3965.000	130700.000	130100.000	62.590	127.000	68.600
σ		0.990	1.054	68.870	1989.000	1995.000	1.127	2.630	1.569
%RSD		1.433	1.587	1.737	1.522	1.534	1.800	2.071	2.286

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	67.280	590.300	600.200	138.600	0.467	0.501	0.000	93.980
2	06:46:40	67.560	593.600	602.600	139.300	0.677	-0.123	0.000	94.530
3	06:47:23	69.460	613.600	620.800	143.200	0.743	-0.103	0.000	97.190
x		68.100	599.200	607.900	140.400	0.629	0.092	0.000	95.240
σ		1.188	12.610	11.250	2.522	0.144	0.355	0.000	1.718
%RSD		1.745	2.105	1.850	1.797	22.920	387.500	0.000	1.804

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	0.000	5.058	5.110	67.365%	0.117	0.073	1.120	1.031
2	06:46:40	0.000	5.044	4.857	68.062%	0.111	0.070	1.183	1.100
3	06:47:23	0.000	5.195	5.233	67.279%	0.115	0.085	0.972	0.921
x		0.000	5.099	5.067	67.569%	0.114	0.076	1.092	1.017
σ		0.000	0.083	0.192	0.430%	0.003	0.008	0.108	0.091
%RSD		0.000	1.634	3.782	0.636	2.464	10.670	9.908	8.911

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	65.937%	4.297	0.370	0.407	185.400	187.700	75.827%	75.946%
2	06:46:40	67.467%	4.396	0.345	0.387	188.800	184.300	77.688%	77.787%
3	06:47:23	67.002%	4.444	0.384	0.351	193.400	191.200	76.892%	77.252%
x		66.802%	4.379	0.366	0.382	189.200	187.700	76.802%	76.995%
σ		0.784%	0.075	0.020	0.028	4.014	3.457	0.934%	0.947%
%RSD		1.174	1.711	5.341	7.369	2.122	1.842	1.216	1.230

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:56	0.552	0.523	47.250	46.370	46.720	81.802%
2	06:46:40	0.566	0.564	48.270	47.730	47.810	82.388%
3	06:47:23	0.570	0.574	49.960	48.340	48.820	81.654%
x		0.562	0.554	48.490	47.480	47.780	81.948%
σ		0.009	0.027	1.367	1.005	1.050	0.388%
%RSD		1.662	4.857	2.819	2.117	2.197	0.474

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	52.576%	5.501	37.260	37.960	0.000	387.300	26510.000	26480.000
2	06:54:54	53.931%	5.290	38.160	38.200	0.000	383.500	26370.000	26180.000
3	06:55:37	54.293%	5.255	38.080	38.560	0.000	381.800	26290.000	26140.000
x		53.600%	5.349	37.830	38.240	0.000	384.200	26390.000	26260.000
σ		0.905%	0.133	0.497	0.304	0.000	2.815	114.200	185.700
%RSD		1.688	2.484	1.313	0.794	0.000	0.733	0.433	0.707

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	106700.000	17120.000	0.000	11490.000	12000.000	10840.000	62.866%	954.200
2	06:54:54	105600.000	17010.000	0.000	11550.000	11790.000	10940.000	63.193%	949.100
3	06:55:37	105500.000	16830.000	0.000	11450.000	11800.000	10860.000	63.510%	949.700
x		105900.000	16990.000	0.000	11500.000	11860.000	10880.000	63.190%	951.000
σ		667.900	144.200	0.000	49.770	116.200	51.740	0.322%	2.805
%RSD		0.631	0.849	0.000	0.433	0.979	0.475	0.509	0.295

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	158.400	136.300	3314.000	246900.000	247800.000	83.190	218.800	199.900
2	06:54:54	158.700	137.100	3325.000	246100.000	248100.000	82.980	218.300	200.500
3	06:55:37	157.900	136.400	3317.000	245300.000	246400.000	82.970	218.300	198.500
x		158.300	136.600	3319.000	246100.000	247400.000	83.050	218.500	199.600
σ		0.373	0.475	5.461	841.500	884.700	0.124	0.327	1.042
%RSD		0.235	0.348	0.165	0.342	0.357	0.149	0.149	0.522

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	197.300	543.700	549.700	140.000	1.571	1.330	0.000	73.970
2	06:54:54	198.600	546.400	554.700	140.000	0.990	0.928	0.000	74.030
3	06:55:37	198.000	547.300	558.300	141.200	1.082	2.305	0.000	74.390
x		198.000	545.800	554.200	140.400	1.214	1.521	0.000	74.130
σ		0.618	1.899	4.344	0.694	0.312	0.708	0.000	0.229
%RSD		0.312	0.348	0.784	0.494	25.720	46.530	0.000	0.309

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	0.000	7.173	7.279	64.788%	0.224	0.157	1.155	1.067
2	06:54:54	0.000	7.200	7.367	65.784%	0.201	0.149	1.156	1.011
3	06:55:37	0.000	7.395	7.342	65.839%	0.251	0.156	1.150	0.927
x		0.000	7.256	7.330	65.470%	0.225	0.154	1.154	1.002
σ		0.000	0.121	0.045	0.592%	0.025	0.004	0.003	0.070
%RSD		0.000	1.667	0.616	0.904	11.180	2.770	0.266	6.991

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	64.806%	2.489	0.392	0.379	544.500	544.400	78.602%	77.610%
2	06:54:54	65.831%	2.532	0.392	0.427	552.600	550.300	79.300%	79.586%
3	06:55:37	66.203%	2.438	0.379	0.377	549.600	544.800	80.112%	80.053%
x		65.613%	2.486	0.388	0.394	548.900	546.500	79.338%	79.083%
σ		0.723%	0.047	0.007	0.028	4.075	3.300	0.756%	1.297%
%RSD		1.102	1.905	1.918	7.150	0.742	0.604	0.953	1.640

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:11	1.371	1.368	115.200	112.900	113.600	80.909%
2	06:54:54	1.373	1.379	117.000	115.500	116.100	81.431%
3	06:55:37	1.358	1.356	118.000	115.500	116.700	81.189%
x		1.367	1.368	116.700	114.600	115.500	81.176%
σ		0.008	0.012	1.405	1.496	1.642	0.261%
%RSD		0.562	0.846	1.204	1.305	1.422	0.321

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	52.456%	3.005	144.300	135.300	0.000	2861.000	10320.000	11310.000
2	07:03:08	52.327%	3.221	146.700	137.300	0.000	2876.000	10400.000	10490.000
3	07:03:51	53.105%	2.809	140.400	136.100	0.000	2832.000	10270.000	10350.000
x		52.629%	3.011	143.800	136.200	0.000	2856.000	10330.000	10710.000
σ		0.417%	0.206	3.143	1.015	0.000	22.400	63.980	518.200
%RSD		0.792	6.835	2.186	0.745	0.000	0.784	0.619	4.837

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	61610.000	12270.000	0.000	20960.000	596.200	559.000	58.902%	626.600
2	07:03:08	61350.000	12090.000	0.000	21000.000	623.200	576.000	59.002%	633.400
3	07:03:51	60910.000	12070.000	0.000	20870.000	574.500	570.700	59.330%	633.000
x		61290.000	12140.000	0.000	20940.000	598.000	568.600	59.078%	631.000
σ		353.600	107.400	0.000	67.860	24.440	8.707	0.224%	3.764
%RSD		0.577	0.884	0.000	0.324	4.087	1.531	0.379	0.597

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	104.800	89.850	4099.000	191200.000	191300.000	88.120	145.600	88.240
2	07:03:08	106.100	90.680	4134.000	193400.000	191900.000	89.430	145.200	88.950
3	07:03:51	105.500	90.350	4118.000	190900.000	190100.000	88.270	145.500	87.050
x		105.500	90.290	4117.000	191800.000	191100.000	88.610	145.500	88.080
σ		0.629	0.418	17.350	1381.000	924.400	0.717	0.229	0.958
%RSD		0.597	0.463	0.421	0.720	0.484	0.809	0.157	1.088

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	87.060	244.400	249.700	244.600	1.435	2.179	0.000	77.020
2	07:03:08	88.330	247.900	250.400	244.000	1.522	1.482	0.000	77.660
3	07:03:51	88.340	245.400	251.000	245.200	1.582	1.601	0.000	77.300
x		87.910	245.900	250.400	244.600	1.513	1.754	0.000	77.330
σ		0.737	1.763	0.684	0.561	0.074	0.373	0.000	0.320
%RSD		0.838	0.717	0.273	0.230	4.880	21.240	0.000	0.413

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	0.000	1579.000	1540.000	62.670%	0.135	0.074	1.078	0.870
2	07:03:08	0.000	1598.000	1597.000	63.284%	0.155	0.083	0.867	0.792
3	07:03:51	0.000	1593.000	1598.000	63.457%	0.138	0.080	0.857	0.646
x		0.000	1590.000	1578.000	63.137%	0.142	0.079	0.934	0.769
σ		0.000	9.733	33.190	0.414%	0.011	0.004	0.125	0.114
%RSD		0.000	0.612	2.103	0.655	7.489	5.594	13.390	14.780

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	62.663%	3.768	0.554	0.564	287.200	285.700	73.260%	73.957%
2	07:03:08	63.901%	3.783	0.598	0.561	286.500	285.000	75.348%	75.670%
3	07:03:51	63.949%	3.838	0.553	0.591	288.900	283.500	75.387%	76.308%
x		63.504%	3.796	0.568	0.572	287.500	284.700	74.665%	75.312%
σ		0.729%	0.037	0.025	0.017	1.247	1.126	1.217%	1.216%
%RSD		1.148	0.972	4.440	2.896	0.434	0.396	1.630	1.614

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:25	1.074	1.071	75.290	73.140	73.920	78.471%
2	07:03:08	1.115	1.064	76.440	74.190	75.240	79.660%
3	07:03:51	1.071	1.069	76.550	74.840	75.360	80.394%
x		1.087	1.068	76.090	74.060	74.840	79.508%
σ		0.025	0.003	0.699	0.859	0.799	0.971%
%RSD		2.262	0.318	0.919	1.160	1.067	1.221

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	52.087%	4.563	30.020	28.680	0.000	1230.000	17080.000	17160.000
2	07:11:21	52.820%	4.285	29.970	30.180	0.000	1242.000	17190.000	17150.000
3	07:12:04	53.086%	4.238	28.610	29.010	0.000	1227.000	17050.000	17000.000
x		52.664%	4.362	29.530	29.290	0.000	1233.000	17110.000	17100.000
σ		0.517%	0.176	0.799	0.787	0.000	7.848	76.020	87.210
%RSD		0.983	4.036	2.706	2.687	0.000	0.636	0.444	0.510

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	73600.000	14310.000	0.000	8791.000	3377.000	3128.000	58.738%	730.100
2	07:11:21	73560.000	14060.000	0.000	8826.000	3347.000	3136.000	59.345%	731.600
3	07:12:04	73320.000	14050.000	0.000	8758.000	3450.000	3157.000	59.931%	719.800
x		73490.000	14140.000	0.000	8792.000	3391.000	3140.000	59.338%	727.200
σ		152.500	146.700	0.000	34.240	53.070	15.020	0.597%	6.388
%RSD		0.207	1.038	0.000	0.390	1.565	0.478	1.005	0.878

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	124.000	103.700	3245.000	175800.000	174700.000	84.130	155.000	103.800
2	07:11:21	122.800	103.900	3251.000	175800.000	176600.000	84.940	154.300	103.800
3	07:12:04	123.600	103.800	3246.000	175600.000	174500.000	84.330	153.300	104.400
x		123.500	103.800	3247.000	175700.000	175300.000	84.470	154.200	104.000
σ		0.572	0.102	2.838	102.700	1167.000	0.422	0.892	0.380
%RSD		0.463	0.098	0.087	0.058	0.666	0.500	0.579	0.365

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	102.800	844.400	859.000	167.800	1.421	1.474	0.000	43.230
2	07:11:21	102.300	852.700	861.100	167.800	1.459	0.757	0.000	43.480
3	07:12:04	104.200	853.800	864.100	166.100	1.470	1.250	0.000	43.800
x		103.100	850.300	861.400	167.200	1.450	1.160	0.000	43.500
σ		0.981	5.144	2.543	0.990	0.026	0.367	0.000	0.287
%RSD		0.952	0.605	0.295	0.592	1.782	31.610	0.000	0.659

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	0.000	9.850	10.180	62.546%	0.117	0.062	1.741	1.481
2	07:11:21	0.000	9.815	9.720	63.537%	0.115	0.066	1.607	1.449
3	07:12:04	0.000	9.549	9.280	64.001%	0.108	0.061	1.705	1.462
x		0.000	9.738	9.726	63.361%	0.113	0.063	1.684	1.464
σ		0.000	0.165	0.450	0.743%	0.005	0.003	0.069	0.016
%RSD		0.000	1.692	4.622	1.173	4.202	4.031	4.112	1.097

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	61.592%	3.332	0.337	0.359	334.900	332.800	73.061%	73.121%
2	07:11:21	63.609%	3.215	0.328	0.355	335.600	332.000	75.574%	75.857%
3	07:12:04	64.326%	3.302	0.324	0.358	332.400	329.200	76.859%	76.427%
x		63.176%	3.283	0.330	0.357	334.300	331.300	75.165%	75.135%
σ		1.418%	0.061	0.007	0.002	1.710	1.889	1.932%	1.768%
%RSD		2.244	1.853	2.082	0.516	0.511	0.570	2.570	2.352

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:38	0.972	0.963	65.810	63.840	64.600	78.095%
2	07:11:21	1.042	0.979	66.960	65.300	65.940	79.402%
3	07:12:04	0.986	0.981	67.250	65.870	66.420	80.245%
x		1.000	0.974	66.680	65.000	65.650	79.247%
σ		0.037	0.010	0.761	1.049	0.941	1.083%
%RSD		3.695	0.995	1.142	1.614	1.434	1.367

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	51.949%	3.878	19.680	20.850	0.000	344.700	10450.000	10480.000
2	07:19:34	53.073%	3.510	20.700	21.160	0.000	343.500	10440.000	10470.000
3	07:20:17	53.662%	3.575	20.460	20.810	0.000	340.900	10320.000	10370.000
x		52.895%	3.654	20.280	20.940	0.000	343.000	10400.000	10440.000
σ		0.870%	0.196	0.535	0.191	0.000	1.926	75.430	59.730
%RSD		1.645	5.370	2.640	0.910	0.000	0.561	0.725	0.572

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	72450.000	13950.000	0.000	6438.000	5259.000	4884.000	58.596%	721.400
2	07:19:34	72190.000	13720.000	0.000	6424.000	5187.000	4849.000	59.377%	715.800
3	07:20:17	71460.000	13550.000	0.000	6350.000	5229.000	4867.000	59.678%	712.000
x		72030.000	13740.000	0.000	6404.000	5225.000	4867.000	59.217%	716.400
σ		515.800	201.600	0.000	47.200	35.990	17.380	0.558%	4.728
%RSD		0.716	1.468	0.000	0.737	0.689	0.357	0.943	0.660

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	126.900	87.710	13420.000	160400.000	159400.000	204.800	240.900	84.430
2	07:19:34	127.400	87.870	13440.000	160200.000	159500.000	205.800	239.600	84.780
3	07:20:17	126.600	87.270	13280.000	159100.000	158500.000	202.700	237.800	83.110
x		127.000	87.620	13380.000	159900.000	159200.000	204.400	239.500	84.110
σ		0.420	0.311	88.240	725.300	563.000	1.598	1.560	0.879
%RSD		0.331	0.354	0.659	0.454	0.354	0.782	0.651	1.045

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	84.310	317.200	321.400	132.200	2.035	1.942	0.000	57.490
2	07:19:34	83.420	320.800	324.800	132.200	1.945	2.185	0.000	58.140
3	07:20:17	82.200	317.800	322.600	131.000	2.267	1.907	0.000	58.150
x		83.310	318.600	322.900	131.800	2.082	2.011	0.000	57.930
σ		1.059	1.939	1.684	0.743	0.166	0.151	0.000	0.379
%RSD		1.272	0.609	0.521	0.563	7.983	7.513	0.000	0.654

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	0.000	10.540	10.570	62.805%	0.163	0.118	1.507	1.359
2	07:19:34	0.000	10.410	10.520	63.709%	0.137	0.142	1.520	1.457
3	07:20:17	0.000	10.560	10.390	64.096%	0.156	0.113	1.442	1.310
x		0.000	10.500	10.490	63.537%	0.152	0.124	1.489	1.375
σ		0.000	0.079	0.093	0.663%	0.013	0.016	0.041	0.075
%RSD		0.000	0.754	0.887	1.043	8.840	12.530	2.782	5.435

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	61.380%	2.700	0.374	0.383	432.800	429.700	71.916%	72.150%
2	07:19:34	62.994%	2.644	0.357	0.401	432.400	427.500	74.123%	74.576%
3	07:20:17	64.097%	2.626	0.409	0.343	427.000	428.600	75.579%	75.296%
x		62.824%	2.657	0.380	0.376	430.700	428.600	73.873%	74.007%
σ		1.366%	0.039	0.026	0.030	3.234	1.063	1.845%	1.648%
%RSD		2.175	1.455	6.922	7.945	0.751	0.248	2.497	2.227

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:51	1.272	1.226	71.000	69.300	69.930	76.884%
2	07:19:34	1.284	1.235	72.030	69.950	70.730	78.452%
3	07:20:17	1.251	1.238	71.730	70.550	70.940	79.166%
x		1.269	1.233	71.580	69.930	70.530	78.167%
σ		0.017	0.006	0.531	0.623	0.536	1.167%
%RSD		1.339	0.514	0.743	0.890	0.760	1.493

CCV 781130 4/11/2013 7:26:20 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	56.381%	105.600	104.800	105.500	0.000	52210.000	52600.000	52570.000
2	07:27:45	55.996%	105.000	107.300	107.100	0.000	52170.000	52660.000	52520.000
3	07:28:28	56.225%	106.200	101.900	106.400	0.000	51960.000	52140.000	51770.000
x		56.201%	105.608%	104.650%	106.326%	0.000	104.234%	104.935%	104.580%
σ		0.194%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.345	0.570	2.588	0.787	0.000	0.257	0.544	0.857

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	514.700	5640.000	0.000	53380.000	51440.000	53090.000	58.854%	103.800
2	07:27:45	515.800	5577.000	0.000	53250.000	51110.000	52870.000	58.261%	104.500
3	07:28:28	521.800	5564.000	0.000	53180.000	50350.000	53000.000	58.117%	103.100
x		103.486%	111.870%	0.000	106.536%	101.941%	105.970%	58.411%	103.775%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.391%	n/a
%RSD		0.741	0.728	0.000	0.190	1.096	0.210	0.669	0.665

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	103.000	102.900	486.200	27310.000	24530.000	103.000	103.200	103.600
2	07:27:45	104.000	103.300	489.000	27240.000	24460.000	103.700	103.100	103.600
3	07:28:28	101.700	101.900	486.000	27180.000	24590.000	102.900	102.900	102.500
x		102.889%	102.693%	97.411%	108.972%	98.098%	103.175%	103.083%	103.239%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.110	0.696	0.345	0.232	0.264	0.452	0.125	0.613

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	102.900	99.710	100.700	99.900	101.500	101.600	0.000	102.500
2	07:27:45	102.300	101.100	101.600	99.530	100.200	100.500	0.000	102.500
3	07:28:28	103.400	101.900	101.300	99.160	100.200	100.000	0.000	102.300
x		102.846%	100.873%	101.175%	99.529%	100.674%	100.718%	0.000	102.406%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.526	1.074	0.425	0.369	0.751	0.820	0.000	0.125

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	61.500%	99.030	98.570	64.429%	98.060	98.920	99.740	101.400
2	07:27:45	61.201%	103.200	103.000	63.323%	98.950	99.190	99.930	101.100
3	07:28:28	60.840%	103.400	102.900	63.051%	97.870	100.100	99.970	102.000
x		61.180%	101.876%	101.490%	63.601%	98.294%	99.399%	99.880%	101.524%
σ		0.330%	n/a	n/a	0.730%	n/a	n/a	n/a	n/a
%RSD		0.540	2.417	2.490	1.148	0.586	0.614	0.125	0.466

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	62.939%	100.600	100.400	100.800	103.100	102.200	69.076%	70.333%
2	07:27:45	63.177%	101.100	100.400	100.100	101.000	101.200	69.748%	70.196%
3	07:28:28	62.692%	102.200	100.700	101.000	102.600	102.200	68.995%	70.310%
x		62.936%	101.312%	100.506%	100.638%	102.271%	101.864%	69.273%	70.280%
σ		0.242%	n/a	n/a	n/a	n/a	n/a	0.413%	0.073%
%RSD		0.385	0.833	0.160	0.485	1.082	0.581	0.597	0.104

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:02	95.540	95.130	94.750	95.170	94.830	77.120%
2	07:27:45	96.270	95.760	95.710	95.430	95.340	77.096%
3	07:28:28	96.940	95.910	96.620	95.610	96.050	76.775%
x		96.251%	95.600%	95.696%	95.403%	95.407%	76.997%
σ		n/a	n/a	n/a	n/a	n/a	0.193%
%RSD		0.727	0.433	0.976	0.233	0.646	0.250

CCB7 4/11/2013 7:34:33 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	82.282%	-0.036	-0.247	-0.231	0.000	-12.080	4.988	4.949
2	07:35:59	84.966%	-0.042	0.072	-0.291	0.000	-13.070	5.537	5.113
3	07:36:42	84.526%	-0.027	-0.652	-0.308	0.000	-8.921	7.279	7.459
x		83.925%	-0.035	-0.276	-0.277	0.000	-11.360	5.935	5.840
σ		1.439%	0.008	0.363	0.040	0.000	2.167	1.196	1.404
%RSD		1.715	22.060	131.600	14.490	0.000	19.080	20.160	24.040

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	3.024	-308.600	0.000	-16.150	18.490	-19.030	83.344%	-0.034
2	07:35:59	3.193	-322.100	0.000	-19.620	13.420	-23.120	85.064%	0.042
3	07:36:42	3.507	-318.300	0.000	-20.390	12.270	-7.929	86.282%	0.021
x		3.241	-316.300	0.000	-18.720	14.730	-16.690	84.896%	0.010
σ		0.245	6.998	0.000	2.258	3.310	7.861	1.476%	0.039
%RSD		7.559	2.212	0.000	12.060	22.470	47.090	1.739	402.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	0.048	0.037	0.662	4.126	0.467	0.004	0.085	0.173
2	07:35:59	0.049	0.033	0.648	3.157	0.301	0.004	0.032	0.173
3	07:36:42	0.073	0.041	0.833	4.722	2.587	0.006	0.037	0.157
x		0.057	0.037	0.714	4.002	1.118	0.005	0.051	0.168
σ		0.014	0.004	0.103	0.790	1.275	0.001	0.029	0.010
%RSD		24.930	11.980	14.440	19.740	114.000	28.740	57.000	5.699

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	0.185	1.873	1.772	-0.469	-0.861	-2.700	0.000	0.105
2	07:35:59	0.131	1.806	1.751	-0.458	-1.017	-2.807	0.000	0.096
3	07:36:42	0.212	1.780	1.894	-0.558	-1.295	-3.130	0.000	0.112
x		0.176	1.820	1.806	-0.495	-1.058	-2.879	0.000	0.104
σ		0.041	0.048	0.077	0.055	0.220	0.224	0.000	0.008
%RSD		23.560	2.646	4.261	11.120	20.800	7.769	0.000	7.620

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	80.488%	0.131	0.096	94.163%	-0.003	-0.005	-0.066	-0.044
2	07:35:59	82.865%	0.125	0.089	95.814%	-0.007	-0.002	-0.053	-0.032
3	07:36:42	83.822%	0.122	0.123	96.723%	-0.005	-0.000	-0.096	-0.063
x		82.392%	0.126	0.102	95.567%	-0.005	-0.002	-0.072	-0.046
σ		1.717%	0.005	0.018	1.298%	0.002	0.002	0.022	0.016
%RSD		2.083	3.585	17.400	1.358	48.690	103.000	30.540	33.540

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	88.229%	0.055	-0.012	0.003	0.064	0.064	88.672%	89.776%
2	07:35:59	89.053%	0.082	-0.005	-0.006	0.066	0.070	90.398%	91.805%
3	07:36:42	90.582%	0.076	0.004	0.005	0.077	0.099	91.277%	92.393%
x		89.288%	0.071	-0.004	0.001	0.069	0.078	90.116%	91.325%
σ		1.194%	0.014	0.008	0.006	0.007	0.019	1.326%	1.373%
%RSD		1.337	20.260	193.400	965.800	9.865	24.200	1.471	1.503

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:16	0.015	0.011	0.033	0.039	0.037	93.207%
2	07:35:59	0.009	0.007	0.027	0.039	0.038	94.986%
3	07:36:42	0.014	0.013	0.037	0.047	0.041	94.937%
x		0.013	0.011	0.032	0.042	0.039	94.377%
σ		0.003	0.003	0.005	0.005	0.002	1.013%
%RSD		24.000	25.690	16.860	12.130	5.859	1.073

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	50.455%	4.566	29.190	28.760	0.000	330.400	18960.000	18940.000
2	07:44:13	51.788%	4.815	30.380	29.420	0.000	328.400	18740.000	18640.000
3	07:44:56	52.502%	4.359	27.500	29.110	0.000	322.700	18430.000	18480.000
x		51.582%	4.580	29.020	29.100	0.000	327.200	18710.000	18690.000
σ		1.039%	0.228	1.448	0.328	0.000	4.001	267.800	234.400
%RSD		2.013	4.982	4.990	1.126	0.000	1.223	1.431	1.254

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	85530.000	13440.000	0.000	9374.000	3852.000	3530.000	59.433%	806.500
2	07:44:13	84490.000	13180.000	0.000	9363.000	4118.000	3541.000	60.393%	801.600
3	07:44:56	83600.000	12970.000	0.000	9304.000	3962.000	3559.000	60.549%	797.100
x		84540.000	13200.000	0.000	9347.000	3978.000	3544.000	60.125%	801.700
σ		965.500	234.100	0.000	37.800	133.800	14.750	0.604%	4.722
%RSD		1.142	1.774	0.000	0.405	3.364	0.416	1.005	0.589

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	141.600	121.500	5898.000	248800.000	249300.000	77.130	170.100	114.900
2	07:44:13	141.700	120.500	5870.000	245600.000	247400.000	77.520	168.500	114.000
3	07:44:56	141.800	120.700	5875.000	247800.000	248500.000	77.550	169.300	114.300
x		141.700	120.900	5881.000	247400.000	248400.000	77.400	169.300	114.400
σ		0.104	0.517	14.990	1658.000	938.700	0.236	0.793	0.422
%RSD		0.073	0.428	0.255	0.670	0.378	0.305	0.468	0.369

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	114.000	409.200	413.100	158.000	1.329	1.833	0.000	1081.000
2	07:44:13	113.200	409.400	417.500	158.000	1.314	1.696	0.000	1073.000
3	07:44:56	113.800	410.300	416.100	158.600	1.640	1.744	0.000	1078.000
x		113.700	409.600	415.600	158.200	1.428	1.757	0.000	1077.000
σ		0.430	0.595	2.247	0.356	0.184	0.069	0.000	3.736
%RSD		0.378	0.145	0.541	0.225	12.860	3.940	0.000	0.347

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	0.000	41.870	41.450	62.530%	0.157	0.099	0.869	0.722
2	07:44:13	0.000	41.050	41.860	63.810%	0.145	0.122	0.789	0.746
3	07:44:56	0.000	41.890	42.340	63.669%	0.146	0.116	1.001	0.811
x		0.000	41.600	41.880	63.336%	0.149	0.113	0.886	0.759
σ		0.000	0.483	0.443	0.701%	0.006	0.012	0.107	0.046
%RSD		0.000	1.161	1.057	1.108	4.234	10.620	12.100	6.032

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	61.502%	2.833	0.296	0.295	484.400	484.100	72.597%	73.111%
2	07:44:13	63.301%	2.795	0.331	0.315	484.500	482.400	75.687%	75.406%
3	07:44:56	63.470%	2.903	0.318	0.318	488.600	483.100	75.680%	76.564%
x		62.758%	2.844	0.315	0.309	485.800	483.200	74.654%	75.027%
σ		1.091%	0.055	0.018	0.013	2.415	0.840	1.782%	1.757%
%RSD		1.738	1.924	5.605	4.052	0.497	0.174	2.387	2.342

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:43:30	0.992	0.997	79.670	78.430	78.800	78.412%
2	07:44:13	1.028	1.015	81.030	79.170	80.330	80.060%
3	07:44:56	1.035	1.041	81.140	80.280	80.740	80.222%
x		1.018	1.018	80.610	79.290	79.960	79.564%
σ		0.023	0.022	0.820	0.931	1.021	1.001%
%RSD		2.251	2.144	1.017	1.174	1.276	1.259

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	42.387%	3.315	170.800	176.200	0.000	25790.000	65240.000	65010.000
2	07:52:25	43.317%	3.139	175.500	178.800	0.000	25400.000	64060.000	63900.000
3	07:53:08	42.453%	3.212	181.200	179.700	0.000	25570.000	64490.000	64330.000
x		42.719%	3.222	175.800	178.200	0.000	25590.000	64600.000	64410.000
σ		0.519%	0.089	5.212	1.821	0.000	192.800	598.500	559.200
%RSD		1.214	2.752	2.964	1.022	0.000	0.753	0.927	0.868

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	66990.000	13840.000	0.000	18900.000	135900.000	141100.000	47.763%	1311.000
2	07:52:25	65730.000	13570.000	0.000	18700.000	136700.000	139800.000	48.108%	1299.000
3	07:53:08	66060.000	13520.000	0.000	18730.000	136000.000	139300.000	47.635%	1306.000
x		66260.000	13650.000	0.000	18770.000	136200.000	140100.000	47.835%	1305.000
σ		655.500	168.700	0.000	106.600	407.700	964.800	0.245%	6.003
%RSD		0.989	1.236	0.000	0.568	0.299	0.689	0.512	0.460

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	261.200	110.900	1597000.000	125800.000	128000.000	2878.000	582.700	2013.000
2	07:52:25	257.700	110.500	1583000.000	125400.000	126200.000	2828.000	580.000	2003.000
3	07:53:08	258.200	110.900	1590000.000	125500.000	126400.000	2820.000	583.300	2009.000
x		259.000	110.800	1590000.000	125600.000	126800.000	2842.000	582.000	2008.000
σ		1.913	0.201	7190.000	200.100	978.000	31.280	1.739	4.930
%RSD		0.739	0.181	0.452	0.159	0.771	1.101	0.299	0.246

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	2032.000	571.100	578.100	639.400	3.002	5.075	0.000	22580.000
2	07:52:25	2015.000	572.100	577.200	643.300	3.333	4.510	0.000	22560.000
3	07:53:08	2026.000	575.600	588.900	643.600	3.008	3.898	0.000	22490.000
x		2024.000	572.900	581.400	642.100	3.114	4.494	0.000	22540.000
σ		8.514	2.378	6.537	2.351	0.189	0.588	0.000	45.890
%RSD		0.421	0.415	1.124	0.366	6.082	13.090	0.000	0.204

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	0.000	626.000	627.100	45.370%	0.286	0.226	2.205	2.097
2	07:52:25	0.000	627.400	630.100	45.980%	0.250	0.240	2.575	2.304
3	07:53:08	0.000	631.200	631.200	46.153%	0.259	0.213	2.232	2.071
x		0.000	628.200	629.500	45.834%	0.265	0.226	2.337	2.157
σ		0.000	2.715	2.142	0.411%	0.019	0.014	0.206	0.128
%RSD		0.000	0.432	0.340	0.897	7.085	5.983	8.832	5.915

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	53.451%	3.243	2.868	2.809	15750.000	15810.000	62.681%	63.953%
2	07:52:25	54.489%	3.181	2.842	2.792	15640.000	15630.000	64.001%	65.726%
3	07:53:08	54.628%	3.222	2.848	2.749	15480.000	15490.000	64.722%	65.677%
x		54.189%	3.215	2.853	2.783	15620.000	15640.000	63.801%	65.119%
σ		0.643%	0.031	0.014	0.031	136.400	160.400	1.035%	1.010%
%RSD		1.187	0.971	0.475	1.122	0.873	1.025	1.623	1.551

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:42	26.950	27.090	587.400	594.500	638.700	67.334%
2	07:52:25	27.950	28.070	604.100	613.000	651.800	67.547%
3	07:53:08	27.870	28.080	607.000	617.800	653.700	67.661%
x		27.590	27.750	599.500	608.400	648.100	67.514%
σ		0.556	0.568	10.600	12.280	8.168	0.166%
%RSD		2.014	2.047	1.769	2.018	1.260	0.246

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	45.156%	4.101	25.190	25.350	0.000	350.300	23070.000	23260.000
2	08:00:38	46.214%	3.798	26.610	25.430	0.000	354.700	23230.000	23110.000
3	08:01:21	46.070%	4.065	29.210	27.650	0.000	365.800	23830.000	23810.000
x		45.813%	3.988	27.000	26.140	0.000	356.900	23380.000	23390.000
σ		0.573%	0.166	2.037	1.308	0.000	7.967	397.500	364.900
%RSD		1.252	4.158	7.542	5.002	0.000	2.232	1.700	1.560

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	120500.000	12620.000	0.000	7461.000	12490.000	10470.000	51.911%	1393.000
2	08:00:38	119500.000	12480.000	0.000	7498.000	12340.000	10600.000	52.876%	1399.000
3	08:01:21	123400.000	12850.000	0.000	7764.000	12600.000	10840.000	52.856%	1447.000
x		121100.000	12650.000	0.000	7574.000	12470.000	10630.000	52.548%	1413.000
σ		2057.000	182.300	0.000	165.200	129.600	186.400	0.552%	29.240
%RSD		1.698	1.441	0.000	2.181	1.039	1.753	1.050	2.069

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	212.300	136.600	2610.000	213600.000	214200.000	46.400	128.600	119.600
2	08:00:38	210.600	134.500	2526.000	208600.000	208200.000	45.250	123.900	114.900
3	08:01:21	216.600	138.400	2605.000	215000.000	214500.000	46.080	127.200	119.300
x		213.100	136.500	2581.000	212400.000	212300.000	45.910	126.600	117.900
σ		3.085	1.950	47.150	3331.000	3515.000	0.594	2.418	2.624
%RSD		1.447	1.429	1.827	1.568	1.656	1.293	1.910	2.224

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	119.300	347.800	357.700	93.310	4.539	5.573	0.000	7224.000
2	08:00:38	115.200	331.300	337.000	88.220	3.873	4.191	0.000	6547.000
3	08:01:21	118.300	345.800	351.500	89.880	4.328	4.546	0.000	6794.000
x		117.600	341.600	348.700	90.470	4.247	4.770	0.000	6855.000
σ		2.156	9.016	10.650	2.595	0.341	0.718	0.000	342.700
%RSD		1.834	2.639	3.053	2.869	8.023	15.040	0.000	4.999

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	0.000	230.200	234.300	49.211%	0.256	0.190	0.893	0.613
2	08:00:38	0.000	208.000	208.200	57.838%	0.228	0.175	0.726	0.598
3	08:01:21	0.000	216.100	218.100	57.220%	0.219	0.159	0.650	0.536
x		0.000	218.100	220.200	54.757%	0.234	0.175	0.756	0.582
σ		0.000	11.270	13.190	4.812%	0.019	0.015	0.124	0.040
%RSD		0.000	5.165	5.991	8.788	8.289	8.779	16.410	6.939

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	55.717%	2.799	0.314	0.359	574.000	573.500	64.563%	65.223%
2	08:00:38	58.076%	2.745	0.307	0.312	570.900	573.100	66.861%	67.292%
3	08:01:21	57.683%	2.966	0.308	0.343	588.000	586.700	66.989%	67.387%
x		57.159%	2.837	0.310	0.338	577.700	577.800	66.138%	66.634%
σ		1.264%	0.115	0.004	0.024	9.126	7.772	1.365%	1.223%
%RSD		2.211	4.058	1.180	7.076	1.580	1.345	2.064	1.836

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:55	1.260	1.255	85.730	83.590	84.290	72.306%
2	08:00:38	1.308	1.270	89.110	85.240	86.350	73.308%
3	08:01:21	1.345	1.344	92.210	89.130	90.450	72.427%
x		1.304	1.290	89.020	85.980	87.030	72.680%
σ		0.043	0.047	3.244	2.846	3.133	0.547%
%RSD		3.268	3.679	3.644	3.310	3.600	0.753

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:08	46.908%	4.770	51.640	51.220	0.000	2968.000	21770.000	21770.000
2	08:08:51	47.582%	4.764	53.540	51.460	0.000	2983.000	21850.000	21770.000
3	08:09:34	47.505%	4.938	52.520	51.470	0.000	2978.000	21780.000	21840.000
x		47.332%	4.824	52.570	51.380	0.000	2976.000	21800.000	21790.000
σ		0.369%	0.099	0.951	0.140	0.000	7.432	43.950	38.140
%RSD		0.780	2.046	1.810	0.273	0.000	0.250	0.202	0.175
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:08	97100.000	12210.000	0.000	13640.000	3923.000	3674.000	54.165%	928.200
2	08:08:51	97240.000	12200.000	0.000	13660.000	3981.000	3687.000	54.837%	930.600
3	08:09:34	97010.000	12180.000	0.000	13690.000	4079.000	3693.000	55.132%	932.300
x		97120.000	12200.000	0.000	13660.000	3994.000	3685.000	54.711%	930.400
σ		117.200	18.880	0.000	21.710	79.080	9.641	0.496%	2.057
%RSD		0.121	0.155	0.000	0.159	1.980	0.262	0.906	0.221
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:08	152.600	161.500	3234.000	200200.000	201000.000	71.480	160.800	127.800
2	08:08:51	151.900	162.500	3245.000	199900.000	200500.000	71.600	162.300	126.800
3	08:09:34	149.600	159.000	3159.000	195500.000	194200.000	69.170	155.600	122.600
x		151.400	161.000	3212.000	198600.000	198600.000	70.750	159.500	125.700
σ		1.576	1.814	46.850	2650.000	3789.000	1.372	3.508	2.768
%RSD		1.041	1.127	1.458	1.335	1.908	1.939	2.199	2.201
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:08	127.000	365.100	372.800	221.400	2.157	2.377	0.000	239.000
2	08:08:51	127.300	367.900	378.100	223.200	2.250	2.461	0.000	239.600
3	08:09:34	121.600	352.700	356.100	207.600	1.748	2.182	0.000	218.400
x		125.300	361.900	369.000	217.400	2.051	2.340	0.000	232.300
σ		3.223	8.125	11.510	8.566	0.267	0.143	0.000	12.080
%RSD		2.573	2.245	3.119	3.941	13.020	6.128	0.000	5.199
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:08	0.000	211.900	214.200	50.407%	0.165	0.130	0.882	0.614
2	08:08:51	0.000	214.800	214.800	51.467%	0.201	0.148	0.768	0.636
3	08:09:34	0.000	192.200	193.100	59.153%	0.207	0.137	0.845	0.651
x		0.000	206.300	207.400	53.676%	0.191	0.138	0.831	0.634
σ		0.000	12.300	12.390	4.773%	0.023	0.009	0.058	0.019
%RSD		0.000	5.964	5.977	8.892	11.890	6.544	7.017	2.923
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:08	57.673%	2.224	0.275	0.267	547.400	540.500	68.433%	68.471%
2	08:08:51	59.091%	2.169	0.267	0.266	545.100	540.700	70.149%	71.020%
3	08:09:34	59.470%	2.149	0.270	0.261	545.200	544.300	71.090%	71.779%
x		58.745%	2.181	0.270	0.265	545.900	541.800	69.891%	70.423%
σ		0.947%	0.039	0.004	0.003	1.319	2.152	1.347%	1.733%
%RSD		1.612	1.774	1.525	1.308	0.242	0.397	1.928	2.461
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	08:08:08	0.986	1.006	91.000	88.610	89.370	74.267%		
2	08:08:51	1.018	1.012	93.400	91.850	92.360	74.624%		
3	08:09:34	1.025	1.032	93.370	91.870	92.220	75.033%		
x		1.010	1.017	92.590	90.780	91.320	74.641%		
σ		0.021	0.014	1.374	1.879	1.684	0.384%		
%RSD		2.090	1.369	1.484	2.070	1.844	0.514		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	48.173%	3.082	27.880	26.820	0.000	2230.000	14960.000	15070.000
2	08:17:04	49.018%	3.261	27.390	27.690	0.000	2234.000	15020.000	15100.000
3	08:17:47	48.569%	3.291	27.690	28.610	0.000	2291.000	15390.000	15460.000
x		48.587%	3.212	27.650	27.710	0.000	2251.000	15120.000	15210.000
σ		0.423%	0.113	0.248	0.893	0.000	33.900	234.900	215.700
%RSD		0.870	3.524	0.897	3.222	0.000	1.506	1.553	1.418

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	58940.000	10190.000	0.000	8123.000	3899.000	3509.000	54.809%	533.900
2	08:17:04	58870.000	10170.000	0.000	8109.000	3953.000	3505.000	55.393%	531.400
3	08:17:47	60210.000	10370.000	0.000	8321.000	3863.000	3574.000	55.093%	549.800
x		59340.000	10240.000	0.000	8184.000	3905.000	3529.000	55.098%	538.400
σ		754.200	109.400	0.000	118.700	45.440	38.640	0.292%	9.984
%RSD		1.271	1.068	0.000	1.450	1.163	1.095	0.530	1.855

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	96.850	95.000	12260.000	148900.000	148800.000	64.500	155.300	122.500
2	08:17:04	95.190	94.630	12010.000	145900.000	145600.000	63.290	150.000	118.100
3	08:17:47	98.000	96.350	12320.000	148800.000	148700.000	64.810	153.000	120.400
x		96.680	95.330	12200.000	147900.000	147700.000	64.200	152.800	120.300
σ		1.414	0.905	163.300	1703.000	1842.000	0.802	2.662	2.216
%RSD		1.462	0.949	1.339	1.152	1.247	1.250	1.742	1.842

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	121.800	308.400	320.600	140.500	1.147	1.864	0.000	1622.000
2	08:17:04	114.800	293.200	301.600	129.700	1.157	1.084	0.000	1477.000
3	08:17:47	119.800	303.000	307.600	132.900	0.799	1.333	0.000	1516.000
x		118.800	301.500	310.000	134.300	1.034	1.427	0.000	1538.000
σ		3.631	7.687	9.722	5.538	0.204	0.398	0.000	74.930
%RSD		3.056	2.550	3.137	4.122	19.700	27.890	0.000	4.871

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	0.000	16.040	15.740	51.784%	0.111	0.089	0.755	0.558
2	08:17:04	0.000	14.050	14.400	60.578%	0.123	0.063	0.635	0.519
3	08:17:47	0.000	14.650	14.550	59.918%	0.092	0.079	0.727	0.553
x		0.000	14.910	14.900	57.426%	0.109	0.077	0.706	0.543
σ		0.000	1.021	0.736	4.898%	0.015	0.013	0.063	0.021
%RSD		0.000	6.849	4.937	8.529	14.120	16.610	8.883	3.930

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	58.537%	2.821	0.322	0.305	368.100	369.000	69.704%	69.775%
2	08:17:04	60.792%	2.723	0.315	0.316	368.100	363.700	71.930%	72.461%
3	08:17:47	60.539%	2.893	0.302	0.342	373.000	370.700	71.994%	71.504%
x		59.956%	2.813	0.313	0.321	369.700	367.800	71.210%	71.247%
σ		1.236%	0.085	0.010	0.019	2.818	3.662	1.304%	1.361%
%RSD		2.061	3.038	3.096	5.911	0.762	0.996	1.831	1.911

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:21	0.833	0.818	353.800	361.800	359.100	76.286%
2	08:17:04	0.832	0.818	356.800	362.900	363.200	77.534%
3	08:17:47	0.840	0.887	369.100	376.700	374.200	76.539%
x		0.835	0.841	359.900	367.200	365.500	76.786%
σ		0.004	0.040	8.106	8.306	7.799	0.660%
%RSD		0.502	4.767	2.253	2.262	2.134	0.859

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:34	45.541%	6.079	137.800	133.700	0.000	8193.000	26740.000	26560.000
2	08:25:17	45.566%	6.032	142.100	134.800	0.000	8220.000	26660.000	26500.000
3	08:26:00	46.217%	5.936	136.400	134.400	0.000	8172.000	26560.000	26370.000
x		45.775%	6.016	138.700	134.300	0.000	8195.000	26650.000	26480.000
σ		0.384%	0.073	2.959	0.582	0.000	24.150	92.360	97.940
%RSD		0.838	1.211	2.133	0.434	0.000	0.295	0.346	0.370
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:34	132500.000	16290.000	0.000	25150.000	1253.000	1092.000	53.947%	1318.000
2	08:25:17	131200.000	16200.000	0.000	25250.000	1216.000	1102.000	54.824%	1332.000
3	08:26:00	131100.000	16100.000	0.000	25330.000	1137.000	1082.000	54.516%	1316.000
x		131600.000	16200.000	0.000	25250.000	1202.000	1092.000	54.429%	1322.000
σ		764.700	95.900	0.000	90.880	59.180	10.460	0.445%	8.632
%RSD		0.581	0.592	0.000	0.360	4.922	0.958	0.817	0.653
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:34	201.200	156.100	2935.000	252300.000	252200.000	81.090	178.300	153.900
2	08:25:17	206.100	158.800	2996.000	258400.000	259100.000	83.900	181.700	158.800
3	08:26:00	203.100	156.500	2946.000	252700.000	252300.000	81.890	178.900	154.900
x		203.400	157.200	2959.000	254400.000	254500.000	82.290	179.600	155.900
σ		2.495	1.474	32.480	3395.000	3969.000	1.447	1.770	2.589
%RSD		1.226	0.938	1.098	1.334	1.559	1.759	0.986	1.661
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:34	152.100	417.200	423.700	170.300	2.440	1.935	0.000	346.800
2	08:25:17	158.000	440.000	448.600	182.600	3.005	3.423	0.000	387.100
3	08:26:00	153.200	424.100	433.700	172.600	2.163	2.728	0.000	353.000
x		154.400	427.100	435.300	175.200	2.536	2.695	0.000	362.300
σ		3.138	11.690	12.510	6.537	0.429	0.744	0.000	21.680
%RSD		2.032	2.736	2.873	3.732	16.920	27.610	0.000	5.984
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:34	0.000	909.300	912.800	57.547%	0.215	0.161	0.946	0.799
2	08:25:17	0.000	1038.000	1047.000	50.799%	0.239	0.176	0.826	0.586
3	08:26:00	0.000	922.600	930.600	58.200%	0.193	0.160	0.938	0.683
x		0.000	956.500	963.600	55.515%	0.216	0.166	0.903	0.689
σ		0.000	70.520	73.140	4.098%	0.023	0.009	0.067	0.106
%RSD		0.000	7.373	7.590	7.381	10.720	5.349	7.434	15.410
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:34	56.880%	1.806	0.287	0.327	678.100	672.800	66.932%	67.588%
2	08:25:17	58.509%	1.907	0.305	0.314	675.400	673.000	69.416%	69.655%
3	08:26:00	58.596%	1.834	0.287	0.323	674.800	670.500	69.997%	70.164%
x		57.995%	1.849	0.293	0.321	676.100	672.100	68.782%	69.136%
σ		0.967%	0.052	0.010	0.007	1.737	1.414	1.628%	1.364%
%RSD		1.667	2.821	3.573	2.163	0.257	0.210	2.367	1.974
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	08:24:34	1.186	1.119	105.000	102.500	103.700	73.226%		
2	08:25:17	1.133	1.137	108.500	104.900	106.200	74.036%		
3	08:26:00	1.129	1.175	108.100	106.100	106.300	74.814%		
x		1.149	1.144	107.200	104.500	105.400	74.025%		
σ		0.032	0.029	1.887	1.819	1.502	0.794%		
%RSD		2.760	2.497	1.760	1.740	1.425	1.073		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	47.219%	4.287	15.460	16.210	0.000	363.100	15740.000	15830.000
2	08:33:31	48.140%	4.389	16.160	16.780	0.000	365.900	15730.000	15840.000
3	08:34:14	47.800%	4.345	17.630	16.520	0.000	368.900	15770.000	15830.000
x		47.720%	4.340	16.420	16.500	0.000	366.000	15750.000	15830.000
σ		0.466%	0.051	1.104	0.287	0.000	2.912	21.740	9.705
%RSD		0.976	1.180	6.724	1.742	0.000	0.796	0.138	0.061

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	70160.000	12440.000	0.000	5334.000	7854.000	7146.000	52.389%	776.500
2	08:33:31	69520.000	12280.000	0.000	5342.000	7808.000	7171.000	53.209%	776.600
3	08:34:14	70060.000	12240.000	0.000	5368.000	8003.000	7166.000	53.565%	777.100
x		69910.000	12320.000	0.000	5348.000	7888.000	7161.000	53.054%	776.700
σ		341.900	105.800	0.000	17.630	101.700	13.510	0.603%	0.364
%RSD		0.489	0.859	0.000	0.330	1.290	0.189	1.137	0.047

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	121.900	270.600	6371.000	129100.000	128300.000	60.130	114.800	57.730
2	08:33:31	120.800	271.700	6386.000	129300.000	128600.000	60.700	114.100	58.130
3	08:34:14	119.800	266.200	6230.000	125300.000	124400.000	58.440	109.600	55.850
x		120.800	269.500	6329.000	127900.000	127100.000	59.750	112.800	57.240
σ		1.064	2.901	85.820	2246.000	2309.000	1.174	2.797	1.218
%RSD		0.881	1.077	1.356	1.756	1.817	1.965	2.479	2.127

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	58.890	213.800	218.900	63.560	2.420	4.065	0.000	70.740
2	08:33:31	58.400	215.100	219.200	65.280	2.373	2.616	0.000	72.020
3	08:34:14	55.210	204.700	206.700	59.050	2.193	2.105	0.000	64.800
x		57.500	211.200	214.900	62.630	2.329	2.929	0.000	69.190
σ		1.995	5.658	7.117	3.217	0.120	1.016	0.000	3.854
%RSD		3.470	2.679	3.312	5.136	5.150	34.700	0.000	5.570

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	0.000	8.677	8.704	49.956%	0.270	0.262	0.880	0.625
2	08:33:31	0.000	8.986	8.737	50.961%	0.306	0.269	0.878	0.698
3	08:34:14	0.000	7.691	7.452	59.246%	0.231	0.225	0.771	0.646
x		0.000	8.452	8.298	53.388%	0.269	0.252	0.843	0.656
σ		0.000	0.676	0.733	5.098%	0.038	0.024	0.062	0.038
%RSD		0.000	8.001	8.830	9.550	14.010	9.407	7.399	5.729

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	56.854%	1.790	0.238	0.252	559.200	558.700	66.279%	66.709%
2	08:33:31	57.942%	1.861	0.249	0.265	567.300	565.300	68.435%	69.005%
3	08:34:14	59.133%	1.845	0.234	0.235	563.700	558.400	69.830%	70.134%
x		57.976%	1.832	0.240	0.251	563.400	560.800	68.182%	68.616%
σ		1.140%	0.037	0.007	0.015	4.048	3.899	1.789%	1.746%
%RSD		1.967	2.019	3.015	6.028	0.719	0.695	2.624	2.544

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:48	0.920	0.901	83.470	81.880	82.220	73.408%
2	08:33:31	0.928	0.908	84.890	83.120	83.920	75.083%
3	08:34:14	0.872	0.911	85.970	82.910	84.030	75.845%
x		0.907	0.907	84.780	82.640	83.390	74.779%
σ		0.030	0.005	1.250	0.666	1.011	1.247%
%RSD		3.341	0.572	1.474	0.806	1.212	1.668

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:02	45.006%	5.595	63.810	62.310	0.000	2465.000	24850.000	24890.000
2	08:41:45	46.055%	5.637	64.050	62.180	0.000	2464.000	24840.000	24800.000
3	08:42:28	45.488%	5.614	66.270	65.520	0.000	2501.000	25280.000	25130.000
x		45.517%	5.615	64.710	63.340	0.000	2477.000	24990.000	24940.000
σ		0.525%	0.021	1.358	1.894	0.000	21.280	255.000	172.100
%RSD		1.154	0.372	2.099	2.990	0.000	0.859	1.020	0.690
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:02	114300.000	15480.000	0.000	23170.000	2116.000	1770.000	54.154%	1213.000
2	08:41:45	113500.000	15290.000	0.000	23110.000	2111.000	1769.000	54.443%	1196.000
3	08:42:28	115600.000	15470.000	0.000	23440.000	2075.000	1797.000	53.954%	1223.000
x		114500.000	15410.000	0.000	23240.000	2101.000	1778.000	54.183%	1211.000
σ		1050.000	102.500	0.000	176.900	22.240	15.810	0.246%	13.490
%RSD		0.918	0.665	0.000	0.761	1.058	0.889	0.454	1.115
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:02	174.100	142.800	2109.000	243700.000	243600.000	71.380	184.800	190.500
2	08:41:45	172.000	139.200	2075.000	237800.000	238300.000	69.410	179.400	184.200
3	08:42:28	174.000	143.000	2111.000	241100.000	241700.000	70.210	181.000	185.400
x		173.400	141.700	2098.000	240800.000	241200.000	70.330	181.700	186.700
σ		1.172	2.103	20.620	2956.000	2650.000	0.993	2.797	3.385
%RSD		0.676	1.485	0.983	1.228	1.099	1.411	1.539	1.813
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:02	193.600	485.600	490.500	917.400	2.559	3.912	0.000	1265.000
2	08:41:45	182.400	460.900	468.800	849.800	1.744	2.575	0.000	1146.000
3	08:42:28	184.800	470.900	481.000	865.400	2.128	2.797	0.000	1166.000
x		187.000	472.400	480.100	877.500	2.144	3.095	0.000	1192.000
σ		5.913	12.390	10.850	35.360	0.408	0.716	0.000	63.930
%RSD		3.163	2.623	2.259	4.030	19.020	23.140	0.000	5.361
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:02	0.000	260.900	262.200	49.573%	0.181	0.142	1.357	0.961
2	08:41:45	0.000	229.900	231.400	57.893%	0.184	0.102	1.119	0.873
3	08:42:28	0.000	235.900	236.400	57.531%	0.169	0.126	1.214	0.960
x		0.000	242.300	243.300	54.999%	0.178	0.123	1.230	0.931
σ		0.000	16.420	16.520	4.702%	0.008	0.020	0.120	0.050
%RSD		0.000	6.779	6.788	8.550	4.385	16.430	9.750	5.383
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:02	56.524%	1.987	0.394	0.384	610.100	603.700	69.552%	69.885%
2	08:41:45	57.996%	1.984	0.363	0.396	609.200	607.300	71.729%	71.961%
3	08:42:28	57.626%	1.994	0.392	0.370	621.700	617.500	72.066%	71.755%
x		57.382%	1.988	0.383	0.383	613.700	609.500	71.116%	71.201%
σ		0.765%	0.006	0.017	0.013	6.979	7.171	1.365%	1.144%
%RSD		1.334	0.279	4.567	3.442	1.137	1.177	1.919	1.607
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	08:41:02	0.996	1.046	106.900	104.600	105.600	72.311%		
2	08:41:45	1.007	1.013	108.500	106.800	107.600	73.463%		
3	08:42:28	1.010	1.022	111.600	110.000	110.700	72.904%		
x		1.004	1.027	109.000	107.100	107.900	72.893%		
σ		0.007	0.017	2.380	2.694	2.569	0.576%		
%RSD		0.721	1.670	2.183	2.514	2.380	0.790		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:16	44.798%	5.209	32.560	29.820	0.000	574.000	26450.000	26430.000
2	08:49:59	46.242%	4.842	28.960	30.430	0.000	574.900	26200.000	26180.000
3	08:50:42	46.040%	5.026	30.630	29.720	0.000	582.300	26320.000	26370.000
x		45.693%	5.026	30.720	29.990	0.000	577.100	26320.000	26330.000
σ		0.782%	0.183	1.801	0.388	0.000	4.552	127.600	134.000
%RSD		1.712	3.647	5.861	1.294	0.000	0.789	0.485	0.509
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:16	115300.000	13180.000	0.000	10760.000	7191.000	6886.000	52.506%	1031.000
2	08:49:59	114600.000	12880.000	0.000	10710.000	7434.000	6939.000	52.987%	1036.000
3	08:50:42	114300.000	13000.000	0.000	10900.000	7789.000	6968.000	53.086%	1038.000
x		114700.000	13020.000	0.000	10790.000	7471.000	6931.000	52.860%	1035.000
σ		524.200	154.700	0.000	97.920	300.800	41.480	0.311%	3.698
%RSD		0.457	1.189	0.000	0.908	4.026	0.598	0.587	0.357
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:16	171.400	142.200	2560.000	212800.000	212200.000	66.420	172.900	127.900
2	08:49:59	172.300	142.000	2554.000	212600.000	211500.000	67.070	171.400	127.700
3	08:50:42	175.600	145.800	2651.000	219400.000	219600.000	69.240	180.000	135.400
x		173.100	143.300	2588.000	214900.000	214400.000	67.580	174.800	130.300
σ		2.191	2.147	54.590	3900.000	4489.000	1.478	4.562	4.391
%RSD		1.266	1.498	2.109	1.814	2.093	2.187	2.611	3.369
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:16	126.300	397.100	407.600	95.710	1.852	2.090	0.000	80.940
2	08:49:59	127.300	400.500	406.100	95.660	1.750	2.351	0.000	81.670
3	08:50:42	133.600	423.700	435.300	103.000	2.255	3.454	0.000	91.450
x		129.100	407.100	416.300	98.130	1.952	2.632	0.000	84.680
σ		3.942	14.450	16.430	4.235	0.267	0.724	0.000	5.870
%RSD		3.054	3.549	3.947	4.316	13.670	27.520	0.000	6.932
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:16	0.000	8.248	7.975	56.360%	0.203	0.154	0.873	0.694
2	08:49:59	0.000	8.359	8.161	57.585%	0.238	0.172	0.869	0.675
3	08:50:42	0.000	9.220	9.156	50.023%	0.245	0.174	0.873	0.638
x		0.000	8.609	8.431	54.656%	0.229	0.167	0.871	0.669
σ		0.000	0.532	0.635	4.059%	0.022	0.011	0.002	0.028
%RSD		0.000	6.180	7.531	7.426	9.702	6.610	0.274	4.230
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:16	55.394%	2.259	0.243	0.272	570.300	565.500	66.629%	66.726%
2	08:49:59	56.729%	2.185	0.270	0.244	571.800	569.500	68.109%	68.562%
3	08:50:42	57.253%	2.243	0.251	0.246	573.500	573.500	68.745%	69.041%
x		56.459%	2.229	0.255	0.254	571.900	569.500	67.827%	68.110%
σ		0.958%	0.039	0.014	0.016	1.610	4.001	1.086%	1.222%
%RSD		1.698	1.750	5.405	6.150	0.282	0.703	1.601	1.794
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	08:49:16	1.253	1.260	89.960	87.860	88.530	70.953%		
2	08:49:59	1.278	1.265	90.270	88.210	89.240	72.633%		
3	08:50:42	1.296	1.300	91.110	89.580	90.350	72.909%		
x		1.276	1.275	90.450	88.550	89.370	72.165%		
σ		0.022	0.022	0.596	0.911	0.919	1.058%		
%RSD		1.687	1.702	0.659	1.028	1.029	1.467		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	50.608%	-0.042	-0.147	-0.391	0.000	10.860	6.058	6.024
2	08:58:14	52.224%	-0.026	-0.821	-0.351	0.000	8.375	6.940	7.044
3	08:58:57	52.183%	-0.010	-0.624	-0.408	0.000	9.455	7.476	7.428
x		51.671%	-0.026	-0.531	-0.383	0.000	9.565	6.825	6.832
σ		0.922%	0.016	0.346	0.029	0.000	1.248	0.716	0.726
%RSD		1.784	61.140	65.240	7.565	0.000	13.050	10.490	10.620

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	9.480	-145.600	0.000	39.730	16.490	21.090	54.870%	0.490
2	08:58:14	13.600	-150.200	0.000	42.590	13.380	25.390	55.591%	0.453
3	08:58:57	14.140	-156.800	0.000	38.160	17.470	15.210	55.927%	0.288
x		12.410	-150.900	0.000	40.160	15.780	20.570	55.463%	0.410
σ		2.548	5.650	0.000	2.245	2.139	5.111	0.540%	0.107
%RSD		20.540	3.745	0.000	5.590	13.550	24.850	0.974	26.170

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	0.097	0.128	0.433	46.770	16.310	-0.012	0.093	1.205
2	08:58:14	0.121	0.090	0.578	54.260	26.310	-0.005	0.037	1.170
3	08:58:57	0.105	0.141	0.644	54.650	28.260	-0.010	0.101	1.230
x		0.108	0.120	0.551	51.890	23.620	-0.009	0.077	1.202
σ		0.012	0.026	0.108	4.438	6.413	0.004	0.035	0.030
%RSD		11.290	22.120	19.510	8.551	27.150	39.720	45.260	2.510

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	1.211	1.449	1.546	0.166	-0.072	-0.508	0.000	0.058
2	08:58:14	1.218	1.498	1.513	0.264	0.034	-0.172	0.000	0.061
3	08:58:57	1.330	1.380	1.404	0.205	-0.176	-0.286	0.000	0.074
x		1.253	1.442	1.487	0.212	-0.071	-0.322	0.000	0.065
σ		0.067	0.059	0.074	0.049	0.105	0.171	0.000	0.009
%RSD		5.326	4.089	5.005	23.250	147.000	53.080	0.000	13.380

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	57.867%	0.016	0.042	63.962%	-0.004	-0.002	-0.009	0.017
2	08:58:14	58.974%	0.011	0.058	63.990%	-0.007	-0.009	-0.041	-0.023
3	08:58:57	58.919%	0.018	0.023	64.281%	-0.004	-0.005	-0.032	-0.017
x		58.587%	0.015	0.041	64.078%	-0.005	-0.005	-0.028	-0.008
σ		0.624%	0.003	0.018	0.176%	0.002	0.004	0.016	0.021
%RSD		1.065	23.140	42.760	0.275	31.380	68.150	59.380	284.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	60.366%	0.898	-0.024	-0.017	0.128	0.143	65.403%	66.298%
2	08:58:14	61.193%	0.925	-0.009	-0.023	0.155	0.169	66.789%	67.560%
3	08:58:57	61.597%	0.720	-0.008	-0.020	0.158	0.168	67.144%	68.121%
x		61.052%	0.848	-0.014	-0.020	0.147	0.160	66.446%	67.326%
σ		0.628%	0.112	0.009	0.003	0.017	0.015	0.920%	0.934%
%RSD		1.028	13.180	65.590	17.230	11.270	9.290	1.384	1.387

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:31	-0.011	-0.010	0.061	0.057	0.058	79.981%
2	08:58:14	-0.010	-0.010	0.067	0.074	0.065	79.787%
3	08:58:57	-0.007	-0.011	0.051	0.063	0.061	80.030%
x		-0.010	-0.010	0.060	0.065	0.062	79.933%
σ		0.002	0.001	0.008	0.009	0.004	0.128%
%RSD		20.150	7.719	13.550	13.910	5.779	0.161

CCV 781130 4/11/2013 9:05:02 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	49.461%	111.100	107.300	107.000	0.000	53000.000	53010.000	53380.000
2	09:06:28	50.233%	108.800	108.600	106.000	0.000	52510.000	52580.000	52760.000
3	09:07:10	50.674%	106.100	108.200	107.700	0.000	51660.000	51760.000	51910.000
x		50.123%	108.665%	108.011%	106.892%	0.000	104.777%	104.906%	105.372%
σ		0.614%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.225	2.282	0.634	0.781	0.000	1.291	1.212	1.401

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	524.000	5702.000	0.000	54120.000	50860.000	53030.000	52.308%	106.300
2	09:06:28	521.500	5564.000	0.000	54020.000	50770.000	53070.000	52.391%	103.000
3	09:07:10	515.200	5482.000	0.000	52970.000	50820.000	52570.000	52.417%	104.900
x		104.048%	111.654%	0.000	107.408%	101.637%	105.780%	52.372%	104.748%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.057%	n/a
%RSD		0.877	1.988	0.000	1.184	0.090	0.529	0.109	1.625

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	103.900	102.700	490.700	27580.000	24590.000	104.000	104.300	105.300
2	09:06:28	104.200	103.000	488.700	27470.000	24670.000	103.300	103.700	103.500
3	09:07:10	102.200	101.700	486.900	27250.000	24450.000	102.500	102.700	104.300
x		103.470%	102.453%	97.759%	109.732%	98.286%	103.260%	103.560%	104.373%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.058	0.653	0.391	0.612	0.455	0.709	0.773	0.822

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	104.400	99.590	101.900	99.920	99.190	100.700	0.000	103.300
2	09:06:28	102.700	99.860	101.000	98.870	101.600	99.410	0.000	102.800
3	09:07:10	102.800	99.650	99.870	98.810	101.500	102.000	0.000	103.000
x		103.297%	99.701%	100.909%	99.198%	100.740%	100.692%	0.000	103.021%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.924	0.144	1.003	0.633	1.336	1.284	0.000	0.236

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	55.076%	100.700	99.940	58.357%	97.650	99.070	98.870	101.400
2	09:06:28	55.575%	109.800	112.000	50.696%	108.500	106.400	104.400	102.500
3	09:07:10	55.111%	103.600	102.700	57.905%	97.320	98.590	99.330	100.200
x		55.254%	104.708%	104.901%	55.653%	101.170%	101.363%	100.879%	101.366%
σ		0.279%	n/a	n/a	4.298%	n/a	n/a	n/a	n/a
%RSD		0.504	4.467	6.020	7.724	6.305	4.333	3.062	1.159

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	57.014%	101.000	100.900	100.700	103.700	103.700	62.890%	63.599%
2	09:06:28	57.929%	101.500	100.100	100.100	103.000	102.700	63.937%	64.873%
3	09:07:10	57.462%	101.300	99.590	99.650	101.800	100.800	63.899%	64.792%
x		57.468%	101.242%	100.213%	100.164%	102.840%	102.414%	63.575%	64.421%
σ		0.457%	n/a	n/a	n/a	n/a	n/a	0.594%	0.713%
%RSD		0.796	0.259	0.675	0.525	0.981	1.421	0.934	1.107

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:05:44	95.530	95.210	95.000	93.980	93.900	72.536%
2	09:06:28	96.160	95.810	96.030	95.030	95.180	72.711%
3	09:07:10	95.760	95.600	95.650	94.670	94.850	71.940%
x		95.817%	95.540%	95.560%	94.560%	94.642%	72.396%
σ		n/a	n/a	n/a	n/a	n/a	0.404%
%RSD		0.333	0.315	0.548	0.566	0.704	0.558

CCB8 4/11/2013 9:13:16 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:59	73.813%	-0.009	-0.438	-0.296	0.000	-6.490	6.541	6.812
2	09:14:42	75.527%	-0.039	-0.412	-0.369	0.000	-6.917	6.498	6.098
3	09:15:25	76.252%	-0.044	-0.479	-0.370	0.000	-5.357	8.174	8.823
x		75.197%	-0.031	-0.443	-0.345	0.000	-6.255	7.071	7.244
σ		1.252%	0.019	0.034	0.042	0.000	0.806	0.955	1.413
%RSD		1.665	61.740	7.633	12.280	0.000	12.890	13.510	19.500
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:59	3.524	-384.400	0.000	-15.830	12.060	-14.710	73.489%	-0.071
2	09:14:42	3.552	-384.600	0.000	-18.630	9.619	-20.630	75.069%	0.060
3	09:15:25	3.995	-378.600	0.000	-17.750	19.680	-19.230	76.083%	-0.007
x		3.690	-382.500	0.000	-17.400	13.780	-18.190	74.880%	-0.006
σ		0.264	3.418	0.000	1.434	5.249	3.094	1.307%	0.066
%RSD		7.163	0.894	0.000	8.239	38.080	17.010	1.746	1149.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:59	0.033	0.031	0.765	3.916	1.984	0.002	0.107	0.174
2	09:14:42	0.039	0.021	0.785	3.124	3.080	0.009	0.017	0.177
3	09:15:25	0.037	0.034	0.883	4.219	4.714	0.013	0.092	0.166
x		0.036	0.029	0.811	3.753	3.259	0.008	0.072	0.172
σ		0.003	0.007	0.063	0.565	1.373	0.006	0.049	0.006
%RSD		8.360	24.590	7.822	15.060	42.140	72.230	67.400	3.302
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:59	0.202	1.857	1.778	-0.363	-0.957	-2.073	0.000	0.125
2	09:14:42	0.231	2.013	1.836	-0.556	-1.244	-2.762	0.000	0.100
3	09:15:25	0.190	1.772	2.060	-0.409	-0.928	-2.023	0.000	0.119
x		0.208	1.881	1.891	-0.443	-1.043	-2.286	0.000	0.115
σ		0.021	0.122	0.149	0.101	0.175	0.413	0.000	0.013
%RSD		10.180	6.499	7.887	22.820	16.760	18.070	0.000	11.190
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:59	69.165%	0.059	0.039	79.505%	-0.002	0.002	-0.030	-0.022
2	09:14:42	71.249%	0.026	0.067	80.854%	-0.002	-0.003	-0.073	-0.053
3	09:15:25	72.381%	0.031	0.044	80.996%	0.004	0.011	-0.054	-0.025
x		70.932%	0.039	0.050	80.452%	0.000	0.003	-0.052	-0.033
σ		1.631%	0.018	0.015	0.823%	0.003	0.007	0.021	0.017
%RSD		2.299	46.080	29.890	1.023	4249.000	226.200	40.580	51.060
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:59	71.516%	0.087	-0.004	-0.003	0.073	0.099	73.348%	74.197%
2	09:14:42	73.534%	0.068	-0.005	-0.004	0.074	0.096	75.385%	76.443%
3	09:15:25	73.924%	0.060	0.002	0.009	0.106	0.089	76.377%	77.079%
x		72.991%	0.072	-0.002	0.001	0.084	0.095	75.037%	75.906%
σ		1.292%	0.014	0.004	0.007	0.018	0.005	1.544%	1.514%
%RSD		1.770	19.010	183.600	1184.000	21.860	5.421	2.058	1.994
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	09:13:59	0.022	0.012	0.042	0.055	0.045	86.113%		
2	09:14:42	0.013	0.015	0.041	0.053	0.041	88.283%		
3	09:15:25	0.018	0.012	0.054	0.049	0.049	88.109%		
x		0.017	0.013	0.046	0.053	0.045	87.502%		
σ		0.004	0.002	0.008	0.003	0.004	1.206%		
%RSD		24.730	14.720	16.600	5.626	8.365	1.378		

LCS 180-67996/2-A 4/11/2013 9:21:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:16	47.401%	47.950	911.600	909.400	0.000	45950.000	46150.000	46420.000
2	09:22:59	48.073%	48.220	938.000	942.900	0.000	46590.000	46580.000	46820.000
3	09:23:42	47.658%	47.220	931.800	933.200	0.000	45920.000	46120.000	46290.000
x		47.711%	47.800	927.100	928.500	0.000	46150.000	46280.000	46510.000
σ		0.339%	0.519	13.790	17.220	0.000	380.000	256.700	274.200
%RSD		0.711	1.086	1.488	1.855	0.000	0.823	0.555	0.590
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:16	1788.000	8178.000	0.000	47250.000	45560.000	41690.000	49.981%	924.300
2	09:22:59	1796.000	8126.000	0.000	47680.000	46220.000	42420.000	50.148%	927.400
3	09:23:42	1780.000	7989.000	0.000	46760.000	45410.000	41830.000	50.500%	912.600
x		1788.000	8098.000	0.000	47230.000	45730.000	41980.000	50.210%	921.400
σ		8.078	97.360	0.000	462.300	427.600	389.700	0.265%	7.819
%RSD		0.452	1.202	0.000	0.979	0.935	0.928	0.527	0.849
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:16	467.600	182.200	422.700	873.500	963.400	453.700	459.500	233.100
2	09:22:59	471.300	184.200	431.000	877.300	958.400	458.800	460.500	234.300
3	09:23:42	461.900	179.500	425.000	864.700	946.100	450.100	453.300	230.200
x		467.000	182.000	426.300	871.800	956.000	454.200	457.800	232.500
σ		4.726	2.372	4.258	6.454	8.863	4.384	3.888	2.068
%RSD		1.012	1.304	0.999	0.740	0.927	0.965	0.849	0.889
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:16	229.700	429.400	429.200	33.080	8.358	7.827	0.000	1014.000
2	09:22:59	229.200	433.100	435.900	33.410	8.596	8.162	0.000	1031.000
3	09:23:42	227.100	424.200	428.100	32.840	8.231	8.601	0.000	1012.000
x		228.700	428.900	431.100	33.110	8.395	8.197	0.000	1019.000
σ		1.379	4.509	4.210	0.289	0.185	0.389	0.000	10.430
%RSD		0.603	1.051	0.977	0.874	2.206	4.740	0.000	1.024
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:16	52.421%	983.900	1003.000	47.694%	45.820	45.140	46.040	33.210
2	09:22:59	52.792%	992.200	1017.000	48.291%	45.710	46.010	46.820	33.300
3	09:23:42	53.137%	982.400	1005.000	48.561%	45.520	45.330	46.120	33.630
x		52.783%	986.200	1008.000	48.182%	45.680	45.490	46.330	33.380
σ		0.358%	5.290	7.570	0.443%	0.152	0.461	0.426	0.221
%RSD		0.678	0.536	0.751	0.920	0.332	1.012	0.920	0.663
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:16	52.832%	2136.000	445.600	443.200	1821.000	1818.000	59.949%	60.765%
2	09:22:59	54.348%	2127.000	447.300	447.200	1814.000	1818.000	61.259%	62.263%
3	09:23:42	54.253%	2119.000	444.200	447.200	1819.000	1814.000	62.025%	63.179%
x		53.811%	2127.000	445.700	445.900	1818.000	1817.000	61.077%	62.069%
σ		0.849%	8.247	1.601	2.313	4.071	2.720	1.050%	1.218%
%RSD		1.578	0.388	0.359	0.519	0.224	0.150	1.719	1.963
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	09:22:16	41.670	41.240	16.100	17.400	16.550	69.738%		
2	09:22:59	42.970	42.930	16.510	18.420	17.240	69.544%		
3	09:23:42	42.790	42.700	16.560	17.920	17.130	69.730%		
x		42.480	42.290	16.390	17.910	16.970	69.671%		
σ		0.705	0.915	0.252	0.511	0.370	0.110%		
%RSD		1.659	2.164	1.536	2.853	2.182	0.157		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:30	43.649%	6.820	75.330	77.360	0.000	11320.000	31620.000	31680.000
2	09:31:13	43.973%	7.009	78.780	79.170	0.000	11430.000	31680.000	31680.000
3	09:31:56	44.453%	6.847	78.820	77.350	0.000	11490.000	31860.000	31790.000
x		44.025%	6.892	77.640	77.960	0.000	11420.000	31720.000	31720.000
σ		0.404%	0.102	2.002	1.049	0.000	87.030	126.100	62.690
%RSD		0.919	1.480	2.578	1.345	0.000	0.762	0.398	0.198
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:30	117300.000	4928.000	0.000	17650.000	4681.000	3822.000	50.246%	953.200
2	09:31:13	117900.000	4903.000	0.000	17640.000	4355.000	3764.000	51.654%	947.500
3	09:31:56	117300.000	4888.000	0.000	17500.000	4469.000	3745.000	52.240%	938.000
x		117500.000	4906.000	0.000	17600.000	4501.000	3777.000	51.380%	946.200
σ		349.900	19.980	0.000	83.720	165.800	40.310	1.025%	7.661
%RSD		0.298	0.407	0.000	0.476	3.682	1.067	1.995	0.810
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:30	169.300	155.200	16420.000	255100.000	255500.000	112.000	265.600	207.600
2	09:31:13	169.100	154.800	16820.000	260500.000	262200.000	115.800	275.000	216.500
3	09:31:56	169.400	156.700	16800.000	261200.000	260200.000	115.600	274.100	215.000
x		169.300	155.600	16680.000	258900.000	259300.000	114.500	271.600	213.000
σ		0.111	1.005	226.100	3343.000	3469.000	2.136	5.159	4.746
%RSD		0.066	0.646	1.355	1.291	1.338	1.866	1.900	2.228
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:30	204.800	560.200	568.800	211.000	1.268	1.206	0.000	1940.000
2	09:31:13	215.900	588.800	604.500	228.700	1.510	3.259	0.000	2156.000
3	09:31:56	216.300	594.000	597.100	227.400	1.537	2.286	0.000	2157.000
x		212.300	581.000	590.100	222.400	1.439	2.250	0.000	2084.000
σ		6.502	18.190	18.830	9.828	0.148	1.027	0.000	124.600
%RSD		3.062	3.131	3.191	4.420	10.300	45.640	0.000	5.977
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:30	0.000	248.800	250.800	53.457%	0.235	0.149	1.142	0.937
2	09:31:13	0.000	285.200	288.900	47.954%	0.250	0.166	1.409	1.104
3	09:31:56	0.000	284.600	289.600	48.388%	0.245	0.169	1.401	1.048
x		0.000	272.900	276.400	49.933%	0.243	0.162	1.317	1.030
σ		0.000	20.840	22.240	3.059%	0.008	0.010	0.152	0.085
%RSD		0.000	7.639	8.045	6.127	3.204	6.494	11.540	8.252
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:30	52.616%	2.370	0.261	0.264	909.900	906.200	65.785%	65.609%
2	09:31:13	54.572%	1.968	0.270	0.244	913.900	908.200	68.236%	68.000%
3	09:31:56	55.882%	1.703	0.264	0.224	904.400	906.000	69.637%	69.117%
x		54.357%	2.014	0.265	0.244	909.400	906.800	67.886%	67.576%
σ		1.644%	0.336	0.005	0.020	4.808	1.198	1.950%	1.792%
%RSD		3.024	16.660	1.770	8.111	0.529	0.132	2.872	2.652
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	09:30:30	1.224	1.173	490.300	494.800	542.600	67.930%		
2	09:31:13	1.172	1.208	495.200	503.400	546.700	70.202%		
3	09:31:56	1.190	1.182	499.700	509.600	551.300	70.996%		
x		1.195	1.188	495.100	502.600	546.800	69.710%		
σ		0.026	0.018	4.672	7.447	4.340	1.591%		
%RSD		2.216	1.493	0.944	1.482	0.794	2.283		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	46.073%	1.236	17.340	16.820	0.000	2333.000	5794.000	5854.000
2	09:39:25	47.316%	1.347	17.840	16.370	0.000	2280.000	5694.000	5704.000
3	09:40:08	47.405%	1.469	16.110	16.530	0.000	2281.000	5717.000	5736.000
x		46.932%	1.351	17.100	16.570	0.000	2298.000	5735.000	5765.000
σ		0.745%	0.117	0.887	0.229	0.000	30.240	52.580	79.200
%RSD		1.587	8.641	5.186	1.382	0.000	1.316	0.917	1.374

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	24120.000	693.500	0.000	3763.000	915.100	799.300	50.084%	197.900
2	09:39:25	23580.000	662.900	0.000	3723.000	933.400	796.600	50.295%	199.200
3	09:40:08	23480.000	656.400	0.000	3758.000	877.200	807.800	50.397%	200.000
x		23730.000	670.900	0.000	3748.000	908.600	801.200	50.259%	199.100
σ		341.600	19.810	0.000	21.980	28.690	5.829	0.160%	1.076
%RSD		1.440	2.953	0.000	0.586	3.158	0.728	0.318	0.540

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	34.950	32.550	3430.000	53720.000	53140.000	23.210	55.400	43.600
2	09:39:25	34.980	32.090	3421.000	53600.000	52850.000	23.250	55.500	43.900
3	09:40:08	34.900	31.960	3506.000	54960.000	54080.000	24.020	57.730	45.150
x		34.940	32.200	3452.000	54090.000	53360.000	23.490	56.210	44.220
σ		0.041	0.310	46.880	752.400	643.200	0.454	1.318	0.824
%RSD		0.117	0.963	1.358	1.391	1.206	1.934	2.345	1.863

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	43.180	118.400	120.600	43.740	0.013	-0.560	0.000	332.600
2	09:39:25	42.540	116.700	118.200	43.390	-0.363	-0.586	0.000	334.300
3	09:40:08	45.530	124.400	128.700	47.080	0.182	0.992	0.000	373.000
x		43.750	119.800	122.500	44.740	-0.056	-0.051	0.000	346.600
σ		1.572	4.068	5.499	2.034	0.279	0.904	0.000	22.850
%RSD		3.593	3.395	4.489	4.548	498.400	1766.000	0.000	6.592

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	0.000	48.280	47.340	56.738%	0.039	0.029	0.275	0.246
2	09:39:25	0.000	48.910	48.410	56.905%	0.045	0.028	0.245	0.248
3	09:40:08	0.000	56.300	56.080	49.142%	0.042	0.033	0.331	0.190
x		0.000	51.160	50.610	54.261%	0.042	0.030	0.283	0.228
σ		0.000	4.458	4.768	4.435%	0.003	0.003	0.044	0.033
%RSD		0.000	8.712	9.420	8.173	6.205	9.326	15.570	14.620

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	54.167%	0.442	0.039	0.045	190.800	190.700	61.233%	61.958%
2	09:39:25	55.415%	0.449	0.048	0.075	188.400	188.400	62.823%	63.782%
3	09:40:08	55.593%	0.385	0.045	0.057	189.000	189.400	63.360%	63.939%
x		55.058%	0.425	0.044	0.059	189.400	189.500	62.472%	63.226%
σ		0.777%	0.035	0.005	0.015	1.278	1.152	1.106%	1.101%
%RSD		1.411	8.162	10.570	25.860	0.675	0.608	1.771	1.742

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:38:42	0.226	0.228	96.120	96.850	96.730	71.989%
2	09:39:25	0.251	0.232	98.360	99.890	99.320	71.754%
3	09:40:08	0.236	0.231	98.230	99.370	99.560	72.535%
x		0.237	0.231	97.570	98.710	98.540	72.093%
σ		0.013	0.002	1.259	1.625	1.569	0.401%
%RSD		5.384	0.893	1.290	1.646	1.592	0.556

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	43.223%	6.977	74.890	74.240	0.000	11460.000	31590.000	31710.000
2	09:47:39	44.479%	7.036	76.130	74.330	0.000	11390.000	31360.000	31420.000
3	09:48:22	44.835%	6.994	77.950	76.310	0.000	11560.000	31720.000	31650.000
x		44.179%	7.002	76.320	74.960	0.000	11470.000	31560.000	31590.000
σ		0.847%	0.030	1.539	1.171	0.000	84.000	180.400	151.900
%RSD		1.917	0.430	2.016	1.562	0.000	0.733	0.572	0.481

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	118500.000	5047.000	0.000	17790.000	11060.000	9728.000	50.673%	976.100
2	09:47:39	117200.000	4952.000	0.000	17730.000	10760.000	9756.000	51.919%	980.400
3	09:48:22	118500.000	5009.000	0.000	17970.000	11280.000	9896.000	51.749%	983.100
x		118100.000	5003.000	0.000	17830.000	11030.000	9794.000	51.447%	979.900
σ		775.900	47.790	0.000	124.300	257.300	89.970	0.676%	3.529
%RSD		0.657	0.955	0.000	0.698	2.332	0.919	1.313	0.360

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	169.600	154.800	15760.000	259300.000	260700.000	109.700	262.500	206.000
2	09:47:39	170.700	157.800	16190.000	266800.000	266900.000	113.400	272.300	216.400
3	09:48:22	172.100	158.900	16280.000	269100.000	271100.000	115.100	275.100	218.800
x		170.800	157.200	16080.000	265100.000	266300.000	112.700	270.000	213.700
σ		1.263	2.141	277.600	5146.000	5244.000	2.735	6.609	6.761
%RSD		0.739	1.362	1.726	1.941	1.970	2.427	2.448	3.164

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	204.400	553.000	558.500	209.600	0.889	0.893	0.000	1727.000
2	09:47:39	216.200	580.900	597.800	226.700	1.589	3.387	0.000	1933.000
3	09:48:22	215.500	589.400	603.300	229.000	1.832	2.953	0.000	1939.000
x		212.000	574.500	586.500	221.800	1.437	2.411	0.000	1867.000
σ		6.617	19.030	24.430	10.620	0.489	1.332	0.000	120.700
%RSD		3.121	3.312	4.166	4.790	34.060	55.270	0.000	6.469

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	0.000	272.700	274.100	53.865%	0.232	0.141	1.304	1.105
2	09:47:39	0.000	313.200	315.700	47.657%	0.233	0.159	1.339	1.019
3	09:48:22	0.000	316.600	319.300	48.049%	0.262	0.184	1.338	0.938
x		0.000	300.800	303.000	49.857%	0.242	0.161	1.327	1.020
σ		0.000	24.430	25.130	3.477%	0.017	0.021	0.020	0.084
%RSD		0.000	8.120	8.294	6.973	7.095	13.270	1.515	8.191

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	52.960%	1.138	0.240	0.230	878.400	876.900	65.923%	66.391%
2	09:47:39	54.648%	1.211	0.230	0.217	886.700	876.500	68.231%	68.613%
3	09:48:22	55.041%	1.102	0.222	0.233	893.000	892.000	68.222%	68.464%
x		54.216%	1.151	0.231	0.227	886.000	881.800	67.459%	67.823%
σ		1.106%	0.056	0.009	0.008	7.312	8.847	1.330%	1.242%
%RSD		2.039	4.827	3.992	3.692	0.825	1.003	1.972	1.832

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:46:56	1.159	1.158	426.000	433.000	432.400	69.233%
2	09:47:39	1.181	1.187	437.100	443.000	442.100	70.116%
3	09:48:22	1.207	1.203	445.000	453.700	489.500	69.634%
x		1.182	1.183	436.100	443.200	454.700	69.661%
σ		0.024	0.023	9.533	10.320	30.590	0.442%
%RSD		2.058	1.947	2.186	2.328	6.728	0.635

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	29.250%	61.800	1125.000	1115.000	0.000	58150.000	77580.000	74770.000
2	12:00:38	30.029%	61.900	1151.000	1132.000	0.000	58330.000	77140.000	74370.000
3	12:01:22	30.135%	63.180	1158.000	1136.000	0.000	57170.000	75950.000	72950.000
x		29.805%	62.290	1145.000	1128.000	0.000	57880.000	76890.000	74030.000
σ		0.483%	0.768	17.140	11.080	0.000	625.700	839.700	953.900
%RSD		1.621	1.233	1.498	0.983	0.000	1.081	1.092	1.289

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	157000.000	12410.000	0.000	53020.000	45850.000	43060.000	25.514%	1978.000
2	12:00:38	155800.000	12300.000	0.000	52860.000	45910.000	43280.000	26.097%	2007.000
3	12:01:22	152500.000	12130.000	0.000	51940.000	45120.000	43150.000	26.569%	1989.000
x		155100.000	12280.000	0.000	52610.000	45630.000	43160.000	26.060%	1991.000
σ		2322.000	143.000	0.000	580.200	435.900	109.200	0.528%	14.920
%RSD		1.497	1.164	0.000	1.103	0.955	0.253	2.027	0.749

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	772.400	410.800	18810.000	296600.000	301700.000	619.200	782.400	473.600
2	12:00:38	783.800	416.900	18650.000	294600.000	296500.000	626.600	796.600	480.900
3	12:01:22	775.900	410.200	18260.000	289500.000	291200.000	620.100	783.700	475.500
x		777.400	412.600	18570.000	293600.000	296500.000	622.000	787.600	476.700
σ		5.817	3.693	284.000	3672.000	5277.000	4.063	7.826	3.773
%RSD		0.748	0.895	1.529	1.251	1.780	0.653	0.994	0.791

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	481.600	1094.000	1109.000	296.200	12.780	16.220	0.000	3334.000
2	12:00:38	487.300	1110.000	1129.000	296.600	12.380	14.450	0.000	3246.000
3	12:01:22	483.500	1098.000	1123.000	299.100	12.270	15.030	0.000	3188.000
x		484.100	1101.000	1120.000	297.300	12.480	15.230	0.000	3256.000
σ		2.918	8.654	10.450	1.571	0.269	0.898	0.000	73.530
%RSD		0.603	0.786	0.933	0.528	2.154	5.898	0.000	2.259

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	0.000	1448.000	1448.000	22.366%	46.800	46.870	48.870	45.640
2	12:00:38	0.000	1448.000	1453.000	24.250%	47.980	46.340	49.350	46.520
3	12:01:22	0.000	1433.000	1436.000	25.067%	47.950	47.120	48.800	46.640
x		0.000	1443.000	1446.000	23.894%	47.580	46.780	49.010	46.270
σ		0.000	8.984	8.374	1.385%	0.674	0.400	0.295	0.550
%RSD		0.000	0.623	0.579	5.797	1.417	0.855	0.603	1.188

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	24.965%	574.100	132.300	130.900	2915.000	2894.000	28.740%	27.906%
2	12:00:38	27.216%	577.500	132.500	132.000	2938.000	2923.000	32.276%	31.040%
3	12:01:22	28.089%	578.300	131.500	131.200	2917.000	2901.000	34.317%	33.443%
x		26.756%	576.600	132.100	131.400	2923.000	2906.000	31.778%	30.796%
σ		1.612%	2.225	0.499	0.610	12.370	15.060	2.822%	2.777%
%RSD		6.024	0.386	0.377	0.465	0.423	0.518	8.879	9.016

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:54	51.280	50.410	602.900	612.400	611.100	18.841%
2	12:00:38	53.260	51.650	615.700	624.500	625.100	21.084%
3	12:01:22	52.620	51.490	609.000	620.300	619.000	22.978%
x		52.380	51.180	609.200	619.100	618.400	20.967%
σ		1.010	0.677	6.365	6.156	7.005	2.071%
%RSD		1.928	1.323	1.045	0.994	1.133	9.878

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	29.191%	63.200	1177.000	1158.000	0.000	61910.000	76240.000	73240.000
2	12:10:24	29.861%	65.090	1182.000	1177.000	0.000	60900.000	75180.000	72240.000
3	12:11:07	30.000%	65.060	1200.000	1181.000	0.000	61150.000	75160.000	71970.000
x		29.684%	64.450	1186.000	1172.000	0.000	61320.000	75530.000	72480.000
σ		0.433%	1.079	12.420	12.300	0.000	523.900	617.800	669.800
%RSD		1.457	1.675	1.047	1.049	0.000	0.854	0.818	0.924

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	98150.000	12400.000	0.000	45560.000	49600.000	47170.000	24.233%	2040.000
2	12:10:24	96820.000	12170.000	0.000	45310.000	48980.000	46940.000	24.773%	2019.000
3	12:11:07	96820.000	12120.000	0.000	45200.000	49700.000	47170.000	25.020%	2023.000
x		97270.000	12230.000	0.000	45360.000	49420.000	47090.000	24.675%	2027.000
σ		769.500	150.100	0.000	183.300	389.400	134.000	0.403%	11.210
%RSD		0.791	1.228	0.000	0.404	0.788	0.285	1.631	0.553

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	723.700	375.600	17350.000	263300.000	265200.000	666.400	824.300	489.700
2	12:10:24	724.600	376.100	17080.000	259100.000	260100.000	654.500	816.300	486.900
3	12:11:07	721.900	373.900	17090.000	259000.000	260800.000	658.600	818.800	488.000
x		723.400	375.200	17170.000	260500.000	262000.000	659.900	819.800	488.200
σ		1.366	1.160	154.700	2414.000	2764.000	6.050	4.116	1.444
%RSD		0.189	0.309	0.901	0.927	1.055	0.917	0.502	0.296

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	492.000	1123.000	1140.000	295.500	13.350	15.050	0.000	3531.000
2	12:10:24	487.000	1118.000	1144.000	292.600	13.480	14.700	0.000	3492.000
3	12:11:07	485.500	1123.000	1143.000	293.500	12.840	15.810	0.000	3478.000
x		488.200	1121.000	1143.000	293.800	13.220	15.190	0.000	3500.000
σ		3.409	2.707	1.911	1.464	0.337	0.566	0.000	27.750
%RSD		0.698	0.241	0.167	0.498	2.547	3.724	0.000	0.793

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	0.000	1570.000	1554.000	24.158%	52.970	52.760	53.280	45.000
2	12:10:24	0.000	1557.000	1568.000	24.931%	53.020	52.520	51.730	45.550
3	12:11:07	0.000	1565.000	1564.000	25.269%	52.930	52.310	52.550	44.850
x		0.000	1564.000	1562.000	24.786%	52.970	52.530	52.520	45.140
σ		0.000	6.503	7.262	0.570%	0.043	0.222	0.778	0.365
%RSD		0.000	0.416	0.465	2.298	0.082	0.423	1.481	0.809

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	26.702%	2130.000	503.300	500.100	2925.000	2900.000	33.117%	32.446%
2	12:10:24	27.904%	2119.000	506.400	502.500	2914.000	2888.000	34.715%	34.066%
3	12:11:07	28.673%	2104.000	505.900	499.500	2916.000	2859.000	35.460%	34.844%
x		27.760%	2117.000	505.200	500.700	2918.000	2882.000	34.430%	33.786%
σ		0.994%	13.190	1.662	1.568	6.164	20.910	1.197%	1.223%
%RSD		3.580	0.623	0.329	0.313	0.211	0.726	3.477	3.620

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:09:41	56.910	55.700	589.200	599.000	597.200	22.470%
2	12:10:24	56.950	55.530	589.800	601.200	598.300	23.916%
3	12:11:07	56.940	55.390	587.900	597.800	598.200	24.583%
x		56.930	55.540	589.000	599.400	597.900	23.656%
σ		0.021	0.154	0.969	1.739	0.597	1.080%
%RSD		0.037	0.277	0.165	0.290	0.100	4.566

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:17:59	29.523%	6.053	135.800	137.200	0.000	2007.000	10660.000	10230.000
2	12:18:42	30.265%	6.198	144.900	136.100	0.000	1986.000	10540.000	10120.000
3	12:19:26	29.949%	6.451	142.700	137.200	0.000	2045.000	10830.000	10400.000
x		29.912%	6.234	141.100	136.800	0.000	2013.000	10670.000	10250.000
σ		0.372%	0.201	4.750	0.636	0.000	29.960	150.100	139.000
%RSD		1.245	3.225	3.367	0.465	0.000	1.489	1.406	1.356
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:17:59	72420.000	3368.000	0.000	10760.000	7516.000	6030.000	23.148%	957.300
2	12:18:42	71610.000	3334.000	0.000	10810.000	7418.000	6017.000	23.451%	947.000
3	12:19:26	72610.000	3438.000	0.000	10880.000	7764.000	6169.000	23.273%	978.500
x		72220.000	3380.000	0.000	10820.000	7566.000	6072.000	23.291%	960.900
σ		529.300	53.050	0.000	61.030	178.600	84.270	0.152%	16.090
%RSD		0.733	1.570	0.000	0.564	2.360	1.388	0.654	1.675
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:17:59	187.000	92.370	24110.000	181500.000	182200.000	191.400	94.710	58.980
2	12:18:42	187.000	92.980	23860.000	178600.000	180400.000	192.900	93.500	59.340
3	12:19:26	191.500	94.620	24470.000	183300.000	184500.000	196.600	97.310	60.160
x		188.500	93.320	24150.000	181100.000	182400.000	193.700	95.170	59.490
σ		2.607	1.163	307.700	2400.000	2065.000	2.665	1.946	0.606
%RSD		1.383	1.247	1.274	1.325	1.132	1.376	2.044	1.018
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:17:59	59.360	374.800	382.700	1570.000	4.836	7.045	0.000	9165.000
2	12:18:42	59.830	378.500	385.500	1570.000	5.648	7.046	0.000	9053.000
3	12:19:26	60.100	379.400	392.900	1610.000	4.380	7.250	0.000	9299.000
x		59.760	377.600	387.000	1583.000	4.954	7.114	0.000	9172.000
σ		0.371	2.442	5.293	22.690	0.642	0.118	0.000	123.100
%RSD		0.622	0.647	1.368	1.433	12.960	1.661	0.000	1.342
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:17:59	0.000	1894.000	1886.000	24.623%	0.361	0.325	2.405	2.109
2	12:18:42	0.000	1890.000	1887.000	25.342%	0.338	0.334	2.318	1.744
3	12:19:26	0.000	1937.000	1931.000	25.249%	0.382	0.332	2.184	1.689
x		0.000	1907.000	1901.000	25.071%	0.360	0.331	2.302	1.847
σ		0.000	26.300	25.880	0.391%	0.022	0.005	0.111	0.229
%RSD		0.000	1.379	1.361	1.559	6.025	1.481	4.828	12.370
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:17:59	27.499%	4.147	2.437	2.406	970.200	961.100	31.656%	31.685%
2	12:18:42	28.755%	3.576	1.952	1.978	956.600	954.600	33.190%	32.592%
3	12:19:26	28.335%	3.218	1.477	1.594	984.400	982.800	32.927%	33.034%
x		28.196%	3.647	1.955	1.992	970.400	966.200	32.591%	32.437%
σ		0.639%	0.469	0.480	0.406	13.890	14.740	0.820%	0.688%
%RSD		2.266	12.850	24.550	20.370	1.431	1.526	2.516	2.120
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:17:59	1.407	1.341	212.400	209.500	211.200	23.956%		
2	12:18:42	1.464	1.393	216.800	214.400	215.800	24.505%		
3	12:19:26	1.368	1.373	218.200	219.100	218.600	24.744%		
x		1.413	1.369	215.800	214.300	215.200	24.402%		
σ		0.048	0.026	3.040	4.821	3.760	0.404%		
%RSD		3.420	1.930	1.409	2.249	1.747	1.656		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	30.926%	3.329	122.400	121.300	0.000	5974.000	17600.000	16840.000
2	12:29:13	30.841%	3.642	125.600	121.300	0.000	5885.000	17310.000	16630.000
3	12:29:56	31.257%	3.726	131.000	122.400	0.000	5849.000	17260.000	16630.000
x		31.008%	3.565	126.400	121.700	0.000	5902.000	17390.000	16700.000
σ		0.220%	0.209	4.344	0.629	0.000	64.190	183.700	120.000
%RSD		0.708	5.872	3.437	0.517	0.000	1.087	1.057	0.719

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	87240.000	3248.000	0.000	16630.000	2253.000	2017.000	23.480%	942.300
2	12:29:13	86370.000	3234.000	0.000	16390.000	2213.000	1962.000	23.849%	951.500
3	12:29:56	86030.000	3237.000	0.000	16250.000	2029.000	2005.000	23.677%	935.000
x		86550.000	3240.000	0.000	16430.000	2165.000	1995.000	23.669%	942.900
σ		625.900	7.340	0.000	190.600	119.500	29.100	0.185%	8.294
%RSD		0.723	0.227	0.000	1.161	5.521	1.459	0.780	0.880

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	190.800	129.700	4110.000	198200.000	199300.000	61.220	120.300	102.700
2	12:29:13	188.000	128.200	4025.000	194800.000	195600.000	59.690	118.900	103.500
3	12:29:56	190.800	128.100	4065.000	195200.000	196000.000	61.390	120.600	101.300
x		189.900	128.700	4067.000	196100.000	197000.000	60.770	119.900	102.500
σ		1.646	0.908	42.610	1826.000	2072.000	0.938	0.926	1.077
%RSD		0.867	0.706	1.048	0.931	1.052	1.543	0.772	1.050

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	102.700	305.600	314.100	79.170	3.549	5.202	0.000	147.500
2	12:29:13	100.800	307.900	319.300	76.750	4.138	4.417	0.000	147.400
3	12:29:56	103.000	306.300	314.600	78.320	3.110	4.267	0.000	147.700
x		102.200	306.600	316.000	78.080	3.599	4.629	0.000	147.500
σ		1.227	1.202	2.901	1.227	0.516	0.502	0.000	0.162
%RSD		1.201	0.392	0.918	1.571	14.330	10.860	0.000	0.110

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	0.000	2894.000	2896.000	24.850%	0.272	0.198	1.470	1.053
2	12:29:13	0.000	2889.000	2891.000	25.228%	0.299	0.211	1.364	0.924
3	12:29:56	0.000	2889.000	2888.000	25.451%	0.275	0.197	1.337	0.988
x		0.000	2891.000	2891.000	25.176%	0.282	0.202	1.391	0.989
σ		0.000	2.883	4.248	0.304%	0.015	0.008	0.070	0.064
%RSD		0.000	0.100	0.147	1.208	5.289	3.943	5.047	6.511

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	28.182%	2.437	0.651	0.670	500.000	492.800	32.412%	32.020%
2	12:29:13	28.613%	2.217	0.566	0.563	502.000	493.400	33.005%	32.654%
3	12:29:56	28.824%	2.035	0.539	0.538	494.400	492.700	33.434%	33.095%
x		28.539%	2.230	0.586	0.590	498.800	493.000	32.950%	32.590%
σ		0.327%	0.202	0.058	0.070	3.956	0.370	0.513%	0.540%
%RSD		1.146	9.039	9.958	11.850	0.793	0.075	1.558	1.658

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:30	1.095	1.012	110.400	108.900	109.100	24.003%
2	12:29:13	1.058	1.074	110.900	108.600	109.400	24.579%
3	12:29:56	1.088	1.082	111.400	107.800	109.600	24.907%
x		1.080	1.056	110.900	108.400	109.400	24.497%
σ		0.020	0.038	0.511	0.529	0.214	0.457%
%RSD		1.838	3.596	0.461	0.488	0.196	1.867

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	30.739%	7.784	40.690	41.040	0.000	649.800	32910.000	31610.000
2	12:38:54	31.095%	7.382	41.730	42.890	0.000	648.000	32640.000	31520.000
3	12:39:37	30.768%	8.015	39.650	43.910	0.000	661.800	33210.000	31900.000
x		30.867%	7.727	40.690	42.610	0.000	653.200	32920.000	31680.000
σ		0.197%	0.321	1.039	1.454	0.000	7.513	286.100	197.100
%RSD		0.640	4.148	2.554	3.412	0.000	1.150	0.869	0.622

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	104400.000	3620.000	0.000	7728.000	8531.000	7860.000	24.264%	1087.000
2	12:38:54	104200.000	3638.000	0.000	7747.000	8303.000	7855.000	24.742%	1077.000
3	12:39:37	104900.000	3656.000	0.000	7848.000	8343.000	8070.000	24.795%	1089.000
x		104500.000	3638.000	0.000	7775.000	8392.000	7928.000	24.600%	1084.000
σ		319.600	17.880	0.000	64.540	121.700	122.600	0.292%	6.673
%RSD		0.306	0.491	0.000	0.830	1.450	1.547	1.189	0.616

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	196.900	176.900	11360.000	286200.000	289200.000	125.200	293.600	240.000
2	12:38:54	199.500	175.500	11270.000	283700.000	285500.000	122.800	293.000	240.600
3	12:39:37	201.700	177.500	11380.000	285300.000	287500.000	123.800	296.100	243.400
x		199.400	176.600	11340.000	285100.000	287400.000	123.900	294.200	241.400
σ		2.430	1.021	61.150	1230.000	1873.000	1.212	1.671	1.808
%RSD		1.218	0.578	0.539	0.432	0.652	0.978	0.568	0.749

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	243.000	626.800	632.900	224.800	2.890	6.311	0.000	1181.000
2	12:38:54	241.100	626.600	650.400	225.900	3.037	5.042	0.000	1179.000
3	12:39:37	243.500	633.000	641.500	226.800	2.763	5.762	0.000	1198.000
x		242.500	628.800	641.600	225.900	2.897	5.705	0.000	1186.000
σ		1.255	3.653	8.789	1.034	0.137	0.636	0.000	10.330
%RSD		0.518	0.581	1.370	0.458	4.721	11.150	0.000	0.871

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	0.000	30.620	29.900	25.279%	0.230	0.193	1.693	1.413
2	12:38:54	0.000	30.090	29.980	26.015%	0.271	0.180	1.572	1.194
3	12:39:37	0.000	29.270	30.220	26.095%	0.242	0.142	1.519	1.233
x		0.000	29.990	30.030	25.796%	0.248	0.172	1.595	1.280
σ		0.000	0.681	0.165	0.449%	0.021	0.026	0.089	0.117
%RSD		0.000	2.271	0.548	1.742	8.599	15.390	5.578	9.105

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	27.941%	1.632	0.401	0.414	853.800	840.900	35.000%	34.554%
2	12:38:54	29.258%	1.625	0.433	0.440	855.100	842.600	36.482%	35.946%
3	12:39:37	29.510%	1.503	0.384	0.409	851.000	849.800	37.246%	36.572%
x		28.903%	1.587	0.406	0.421	853.300	844.400	36.243%	35.691%
σ		0.842%	0.072	0.025	0.017	2.063	4.732	1.142%	1.033%
%RSD		2.915	4.553	6.072	4.036	0.242	0.560	3.151	2.895

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:38:11	1.853	1.827	369.600	376.900	374.100	24.276%
2	12:38:54	1.972	1.906	374.100	379.300	378.400	25.120%
3	12:39:37	1.934	1.851	378.900	384.000	383.000	25.407%
x		1.920	1.861	374.200	380.100	378.500	24.934%
σ		0.061	0.040	4.656	3.634	4.495	0.588%
%RSD		3.182	2.171	1.244	0.956	1.188	2.357

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	32.073%	2.420	19.840	18.150	0.000	262.800	8600.000	8257.000
2	12:47:09	32.518%	2.161	21.090	19.850	0.000	272.400	8781.000	8451.000
3	12:47:53	33.663%	2.115	19.160	18.460	0.000	267.800	8559.000	8289.000
x		32.752%	2.232	20.030	18.820	0.000	267.700	8647.000	8332.000
σ		0.820%	0.164	0.979	0.904	0.000	4.810	118.200	104.100
%RSD		2.504	7.363	4.886	4.803	0.000	1.797	1.366	1.249

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	26960.000	3232.000	0.000	2653.000	3509.000	3216.000	24.294%	298.200
2	12:47:09	27460.000	3354.000	0.000	2134.000	3553.000	3329.000	24.304%	300.600
3	12:47:53	26660.000	3279.000	0.000	2365.000	3401.000	3183.000	24.718%	296.800
x		27030.000	3288.000	0.000	2384.000	3488.000	3243.000	24.438%	298.500
σ		406.400	61.400	0.000	260.200	78.330	76.560	0.242%	1.926
%RSD		1.504	1.867	0.000	10.920	2.246	2.361	0.990	0.645

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	64.570	64.440	3506.000	140700.000	141100.000	61.770	148.600	76.780
2	12:47:09	66.450	65.440	3554.000	142000.000	142100.000	62.540	151.800	79.540
3	12:47:53	64.590	63.860	3507.000	140500.000	140700.000	62.080	148.100	77.110
x		65.210	64.580	3522.000	141100.000	141300.000	62.130	149.500	77.810
σ		1.080	0.796	27.360	848.900	727.600	0.388	1.999	1.507
%RSD		1.657	1.232	0.777	0.602	0.515	0.624	1.337	1.937

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	78.340	238.500	244.700	188.300	1.666	2.499	0.000	34.890
2	12:47:09	78.710	247.500	257.000	196.600	1.416	2.489	0.000	35.880
3	12:47:53	78.090	247.300	251.900	194.300	1.638	3.227	0.000	35.680
x		78.380	244.400	251.200	193.000	1.573	2.738	0.000	35.480
σ		0.310	5.130	6.171	4.297	0.137	0.423	0.000	0.524
%RSD		0.396	2.099	2.457	2.226	8.723	15.450	0.000	1.478

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	0.000	5.095	5.285	26.114%	0.084	0.054	0.762	0.523
2	12:47:09	0.000	5.198	5.326	26.675%	0.112	0.054	0.502	0.353
3	12:47:53	0.000	5.347	4.964	26.968%	0.096	0.039	0.636	0.495
x		0.000	5.213	5.192	26.586%	0.097	0.049	0.633	0.457
σ		0.000	0.127	0.198	0.434%	0.014	0.009	0.130	0.091
%RSD		0.000	2.439	3.818	1.632	14.410	17.630	20.560	19.950

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	28.857%	1.962	0.420	0.426	197.100	195.000	33.885%	33.364%
2	12:47:09	29.649%	2.238	0.488	0.457	201.400	197.500	35.136%	34.733%
3	12:47:53	30.424%	2.233	0.489	0.520	196.900	192.900	35.116%	34.969%
x		29.643%	2.144	0.466	0.467	198.400	195.100	34.713%	34.355%
σ		0.784%	0.158	0.039	0.048	2.542	2.307	0.717%	0.867%
%RSD		2.644	7.374	8.447	10.240	1.281	1.183	2.065	2.522

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:46:26	0.927	0.932	68.240	68.760	68.250	25.603%
2	12:47:09	0.965	0.920	71.090	70.010	70.120	25.892%
3	12:47:53	0.887	0.923	70.140	68.780	68.990	26.145%
x		0.926	0.925	69.820	69.180	69.120	25.880%
σ		0.039	0.006	1.451	0.714	0.942	0.271%
%RSD		4.202	0.666	2.078	1.033	1.362	1.049

CCV 781130 4/11/2013 12:53:58 PM QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:54:41	33.255%	117.100	118.500	114.100	0.000	52200.000	49210.000	47280.000
2	12:55:24	34.222%	117.900	118.400	114.500	0.000	50800.000	48220.000	46540.000
3	12:56:07	33.822%	114.800	116.700	112.000	0.000	50670.000	48020.000	46010.000
x		33.766%	116.634%	117.866%	113.556%	0.000	102.443%	96.967%	93.227%
σ		0.486%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.438	1.395	0.867	1.202	0.000	1.656	1.313	1.371
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:54:41	479.900	4068.000	0.000	37290.000	49230.000	46650.000	24.636%	113.100
2	12:55:24	479.900	3990.000	0.000	37030.000	48610.000	47030.000	24.790%	110.300
3	12:56:07	482.300	3958.000	0.000	36410.000	47720.000	46130.000	24.694%	109.200
x		96.138%	80.106%	0.000	73.823%	97.041%	93.208%	24.707%	110.881%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.078%	n/a
%RSD		0.282	1.411	0.000	1.224	1.565	0.967	0.315	1.810
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:54:41	113.300	111.700	528.100	28490.000	26530.000	111.100	110.100	110.000
2	12:55:24	112.900	111.700	526.900	28240.000	26650.000	112.000	111.000	110.400
3	12:56:07	110.800	109.800	525.800	28000.000	26390.000	111.600	109.200	108.900
x		112.348%	111.056%	105.386%	112.976%	106.094%	111.560%	110.116%	109.756%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.238	0.954	0.213	0.853	0.505	0.399	0.831	0.674
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:54:41	109.900	105.700	104.100	106.400	106.000	105.000	0.000	105.000
2	12:55:24	109.400	105.100	108.100	107.100	106.700	104.100	0.000	105.000
3	12:56:07	108.500	103.900	104.600	104.600	107.400	102.000	0.000	104.600
x		109.242%	104.910%	105.573%	106.053%	106.681%	103.717%	0.000	104.841%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.649	0.856	2.054	1.211	0.674	1.472	0.000	0.217
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:54:41	30.614%	110.600	114.100	26.594%	107.600	106.900	104.300	102.200
2	12:55:24	30.852%	115.100	117.200	26.773%	108.800	107.500	106.700	103.200
3	12:56:07	30.894%	114.600	115.400	26.944%	106.800	107.400	105.300	103.100
x		30.787%	113.442%	115.574%	26.770%	107.752%	107.282%	105.452%	102.819%
σ		0.151%	n/a	n/a	0.175%	n/a	n/a	n/a	n/a
%RSD		0.490	2.181	1.341	0.655	0.920	0.322	1.137	0.563
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:54:41	29.681%	105.100	104.200	104.400	109.900	108.000	32.688%	32.731%
2	12:55:24	29.985%	105.100	104.500	104.000	110.800	108.300	33.464%	33.515%
3	12:56:07	29.734%	104.400	102.700	103.600	107.900	108.200	33.567%	33.445%
x		29.800%	104.866%	103.821%	103.995%	109.519%	108.169%	33.240%	33.230%
σ		0.162%	n/a	n/a	n/a	n/a	n/a	0.481%	0.434%
%RSD		0.545	0.410	0.905	0.417	1.321	0.149	1.446	1.305
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:54:41	112.500	111.100	112.300	111.800	112.100	26.013%		
2	12:55:24	114.100	111.900	113.300	113.300	112.900	26.660%		
3	12:56:07	113.000	111.500	112.500	111.800	112.100	26.490%		
x		113.238%	111.521%	112.698%	112.304%	112.357%	26.388%		
σ		n/a	n/a	n/a	n/a	n/a	0.335%		
%RSD		0.728	0.348	0.490	0.743	0.386	1.270		

CCB9 4/11/2013 1:02:15 PM QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	33.760%	-0.002	1.691	1.439	0.000	52.150	10.680	10.670
2	13:03:41	35.284%	-0.005	2.035	1.480	0.000	49.430	11.050	10.880
3	13:04:24	35.898%	0.019	0.955	1.498	0.000	54.110	13.130	13.850
x		34.981%	0.004	1.560	1.472	0.000	51.890	11.620	11.800
σ		1.101%	0.013	0.552	0.031	0.000	2.351	1.318	1.774
%RSD		3.146	323.600	35.360	2.077	0.000	4.530	11.350	15.030

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	5.299	-437.400	0.000	-15.650	22.800	-47.390	24.986%	0.005
2	13:03:41	4.982	-432.900	0.000	-14.310	18.970	-40.230	25.756%	0.255
3	13:04:24	6.202	-404.400	0.000	-9.348	21.270	-35.220	26.441%	0.061
x		5.494	-424.900	0.000	-13.100	21.010	-40.950	25.728%	0.107
σ		0.633	17.930	0.000	3.321	1.928	6.117	0.728%	0.131
%RSD		11.520	4.219	0.000	25.340	9.174	14.940	2.829	123.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	0.016	-0.136	1.295	17.230	11.820	0.039	0.432	0.322
2	13:03:41	0.006	-0.100	1.293	17.460	13.620	0.044	0.421	0.248
3	13:04:24	-0.019	-0.070	1.528	19.880	19.690	0.034	0.189	0.359
x		0.001	-0.102	1.372	18.190	15.040	0.039	0.347	0.310
σ		0.018	0.033	0.135	1.468	4.125	0.005	0.137	0.057
%RSD		1938.000	32.160	9.825	8.073	27.420	13.530	39.410	18.280

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	0.385	2.808	2.630	0.461	0.687	1.403	0.000	0.153
2	13:03:41	0.346	2.611	2.903	0.337	0.596	0.870	0.000	0.160
3	13:04:24	0.369	2.543	2.588	0.283	1.134	0.487	0.000	0.190
x		0.367	2.654	2.707	0.360	0.806	0.920	0.000	0.168
σ		0.020	0.137	0.171	0.091	0.288	0.460	0.000	0.020
%RSD		5.416	5.179	6.325	25.390	35.750	49.980	0.000	11.790

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	31.026%	0.212	0.254	27.550%	0.016	0.006	0.087	0.055
2	13:03:41	32.153%	0.298	0.312	28.658%	0.020	0.009	0.097	0.059
3	13:04:24	32.647%	0.236	0.268	29.028%	0.005	0.010	0.068	0.056
x		31.942%	0.249	0.278	28.412%	0.014	0.008	0.084	0.057
σ		0.831%	0.044	0.030	0.769%	0.008	0.002	0.015	0.002
%RSD		2.601	17.860	10.880	2.707	56.040	21.770	17.560	3.558

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	30.296%	0.156	0.036	0.015	0.145	0.055	32.785%	32.565%
2	13:03:41	31.178%	0.172	0.043	0.008	0.066	0.138	33.932%	34.032%
3	13:04:24	31.882%	0.157	0.025	0.054	0.137	0.181	34.403%	34.269%
x		31.119%	0.162	0.034	0.026	0.116	0.124	33.707%	33.622%
σ		0.795%	0.009	0.009	0.025	0.043	0.064	0.833%	0.923%
%RSD		2.553	5.420	25.350	97.540	37.450	51.680	2.470	2.745

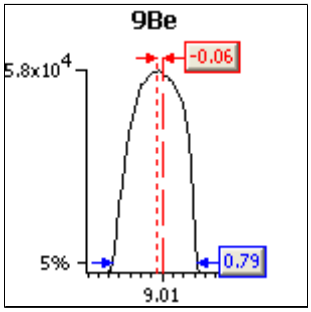
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:58	0.032	0.028	0.074	0.078	0.068	25.913%
2	13:03:41	0.022	0.019	0.068	0.078	0.064	27.434%
3	13:04:24	0.030	0.033	0.057	0.069	0.080	27.978%
x		0.028	0.026	0.066	0.075	0.071	27.108%
σ		0.006	0.007	0.008	0.005	0.008	1.071%
%RSD		19.550	25.590	12.390	6.973	11.520	3.950

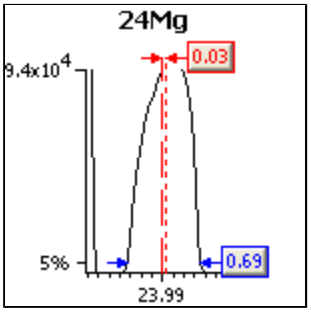
Performance Report

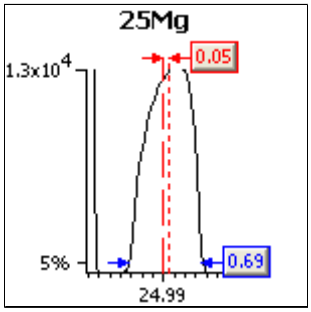
Sample details
Sample name : ITUNE
Acquired at : 4/10/2013 2:10:10 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

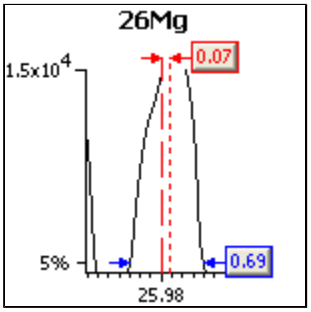
Mass Calibration verification

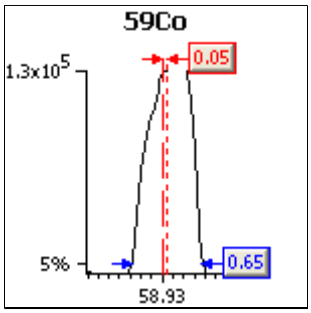
Acquisition parameters
Sweeps : 25
Dwell : 2.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum

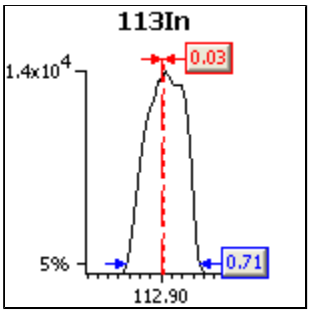


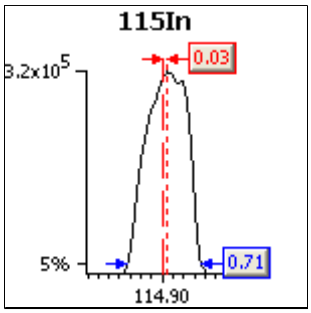


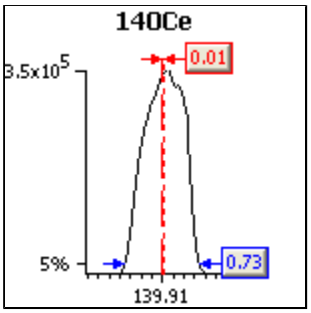


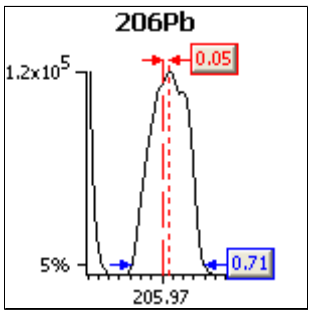


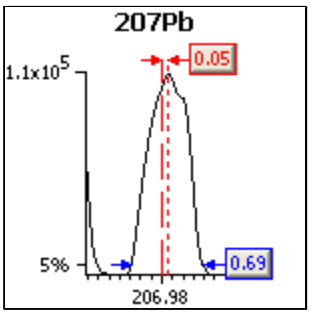


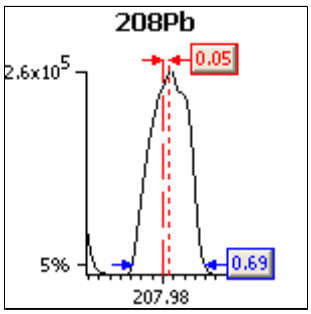












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.45	0.10	0.79	-0.06
24Mg	0.90	0.45	0.10	0.69	0.03
25Mg	0.90	0.45	0.10	0.69	0.05
26Mg	0.90	0.45	0.10	0.69	0.07
59Co	0.90	0.45	0.10	0.65	0.05
113In	0.90	0.45	0.10	0.71	0.03
115In	0.90	0.45	0.10	0.71	0.03
140Ce	0.90	0.45	0.10	0.73	0.01
206Pb	0.90	0.45	0.10	0.71	0.05
207Pb	0.90	0.45	0.10	0.69	0.05
208Pb	0.90	0.45	0.10	0.69	0.05

Sample details
Sample name : ITUNE
Acquired at : 4/10/2013 2:10:10 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

Tune conditions

Major	
Extraction	-251
Lens 1	1.2
Focus	23.9
D1	-42.4
Pole Bias	3.0
Hexapole Bias	-3.0
Nebuliser	0.84
Sampling Depth	150

Minor	
Lens 2	-29.0
Lens 3	-198.4
Forward power	1302
Horizontal	86
Vertical	282
D2	-160
DA	-80.0
Cool	18.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
He/H2	0.00
He/NH3	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>5000	-
1	2:10:58 PM	1	58896	102409	13495	15260	206894	126850	3
2	2:12:23 PM	1	59596	106703	13944	15864	213336	128296	4
3	2:13:48 PM	1	60496	101598	13321	15190	204657	128982	7
4	2:15:14 PM	1	59984	100440	13135	14952	202925	128418	5
5	2:16:39 PM	1	60526	98292	12826	14862	197318	128184	3
x		1	59900	101888	13344	15226	205026	128146	4
σ		0.22	681.05	3105.25	416.81	392.84	5841.98	786.99	1.74
%RSD		26.146	1.137	3.048	3.124	2.580	2.849	0.614	40.745

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	2:10:58 PM	28	1	13333	311511	2644	344640	3138	115105
2	2:12:23 PM	38	0	13314	311658	2821	346427	3210	114832
3	2:13:48 PM	27	0	13342	312085	2467	346650	3222	113433
4	2:15:14 PM	28	0	13187	312350	2463	342459	3237	112918
5	2:16:39 PM	30	1	13263	310903	2424	345282	3227	112425
x		30	0	13288	311701	2564	345091	3207	113743
σ		4.42	0.17	64.01	557.53	167.21	1686.97	39.65	1178.39
%RSD		14.648	44.628	0.482	0.179	6.522	0.489	1.237	1.036

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	2:10:58 PM	103769	247094	0
2	2:12:23 PM	104042	247168	0
3	2:13:48 PM	102621	244648	0
4	2:15:14 PM	102326	242495	0
5	2:16:39 PM	102526	242855	0
x		103057	244852	0
σ		788.16	2234.91	0.04
%RSD		0.765	0.913	22.822

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0500
1	2:10:58 PM	0
2	2:12:23 PM	0

3	2:13:48 PM	0
4	2:15:14 PM	0
5	2:16:39 PM	0
x		0.0093
σ		0.00
%RSD		1.3637

Result : The performance report passed.

Dilution Corrected Concentrations

STD1 787361 INT STD 4/12/2013 1:23:19 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	99.378%	-0.004	0.029	0.045	0.000	-2.285	0.274	0.064
2	13:24:45	100.563%	0.022	-0.052	-0.053	0.000	1.107	-0.425	0.167
3	13:25:28	100.058%	-0.018	0.022	0.008	0.000	1.179	0.151	-0.231
x		100.000%	-0.000	0.000	-0.000	0.000	0.000	-0.000	-0.000
σ		0.595%	0.021	0.045	0.049	0.000	1.980	0.373	0.206
%RSD		0.595	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	-0.091	-0.602	0.000	-2.185	6.239	2.865	98.834%	-0.017
2	13:24:45	0.046	0.298	0.000	0.310	-6.997	3.115	100.327%	-0.017
3	13:25:28	0.045	0.304	0.000	1.875	0.757	-5.980	100.839%	0.034
x		0.000	0.000	0.000	0.000	-0.000	0.000	100.000%	-0.000
σ		0.079	0.521	0.000	2.048	6.650	5.180	1.042%	0.029
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	1.042	0.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	-0.005	-0.016	0.021	0.658	0.730	-0.008	0.021	-0.023
2	13:24:45	0.031	0.017	-0.032	-0.327	0.236	-0.005	0.010	-0.011
3	13:25:28	-0.026	-0.001	0.012	-0.331	-0.966	0.012	-0.031	0.034
x		-0.000	-0.000	0.000	-0.000	0.000	-0.000	0.000	0.000
σ		0.029	0.017	0.028	0.570	0.872	0.011	0.027	0.030
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	0.014	0.050	0.002	-0.035	-0.301	-0.153	0.000	0.001
2	13:24:45	0.003	-0.078	0.018	0.044	0.509	0.260	0.000	-0.001
3	13:25:28	-0.017	0.028	-0.020	-0.009	-0.208	-0.106	0.000	0.000
x		0.000	0.000	0.000	-0.000	-0.000	0.000	0.000	-0.000
σ		0.016	0.069	0.019	0.040	0.444	0.226	0.000	0.001
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	98.771%	-0.041	-0.002	98.142%	0.005	-0.006	0.025	0.008
2	13:24:45	100.707%	0.013	-0.001	100.858%	-0.003	-0.002	-0.055	-0.031
3	13:25:28	100.523%	0.028	0.002	100.999%	-0.003	0.008	0.030	0.023
x		100.000%	0.000	-0.000	100.000%	-0.000	0.000	0.000	0.000
σ		1.069%	0.037	0.002	1.610%	0.005	0.007	0.048	0.028
%RSD		1.069	0.000	0.000	1.610	0.000	0.000	0.000	0.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	98.121%	0.005	-0.001	0.002	0.004	-0.004	97.840%	97.869%
2	13:24:45	99.995%	-0.008	0.009	0.013	0.003	0.019	99.872%	100.477%
3	13:25:28	101.885%	0.004	-0.008	-0.016	-0.007	-0.015	102.288%	101.654%
x		100.000%	0.000	-0.000	-0.000	0.000	-0.000	100.000%	100.000%
σ		1.882%	0.007	0.009	0.015	0.006	0.017	2.227%	1.937%
%RSD		1.882	0.000	0.000	0.000	0.000	0.000	2.227	1.937

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:02	-0.004	-0.001	-0.003	0.000	-0.003	102.366%
2	13:24:45	0.008	-0.001	0.007	0.006	0.004	103.525%
3	13:25:28	-0.004	0.002	-0.004	-0.006	-0.001	94.109%
x		-0.000	-0.000	0.000	-0.000	-0.000	100.000%
σ		0.007	0.002	0.006	0.006	0.004	5.135%
%RSD		0.000	0.000	0.000	0.000	0.000	5.135

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	90.039%	202.900	0.989	1.191	0.000	100700.000	100900.000	101200.000
2	13:35:05	90.880%	199.700	1.676	0.979	0.000	100300.000	99770.000	99780.000
3	13:35:48	90.359%	197.400	0.978	0.903	0.000	99090.000	99340.000	99050.000
x		90.426%	200.000	1.214	1.025	0.000	100000.000	100000.000	100000.000
σ		0.424%	2.809	0.400	0.149	0.000	814.200	802.000	1072.000
%RSD		0.469	1.405	32.960	14.560	0.000	0.814	0.802	1.072

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	1009.000	7.106	0.000	100800.000	100700.000	100900.000	88.692%	0.015
2	13:35:05	998.400	14.700	0.000	101000.000	101200.000	100500.000	89.424%	0.188
3	13:35:48	992.900	21.920	0.000	98250.000	98070.000	98680.000	90.836%	0.156
x		1000.000	14.580	0.000	100000.000	100000.000	100000.000	89.651%	0.120
σ		7.971	7.409	0.000	1517.000	1693.000	1160.000	1.090%	0.092
%RSD		0.797	50.830	0.000	1.517	1.693	1.160	1.215	76.690

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	202.000	200.900	1003.000	50730.000	50060.000	201.300	203.200	200.900
2	13:35:05	201.600	202.400	1007.000	50090.000	50390.000	201.800	200.300	202.200
3	13:35:48	196.400	196.700	989.700	49180.000	49540.000	197.000	196.500	196.900
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		3.156	2.930	9.057	777.800	428.800	2.635	3.393	2.783
%RSD		1.578	1.465	0.906	1.556	0.858	1.317	1.696	1.391

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	201.600	202.200	198.700	199.900	201.000	197.500	0.000	201.500
2	13:35:05	201.500	200.600	202.100	202.500	198.200	200.600	0.000	201.200
3	13:35:48	196.900	197.200	199.200	197.600	200.800	201.900	0.000	197.400
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		2.724	2.514	1.813	2.456	1.569	2.224	0.000	2.281
%RSD		1.362	1.257	0.907	1.228	0.785	1.112	0.000	1.141

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	89.275%	0.185	0.187	87.961%	200.700	200.100	200.000	200.300
2	13:35:05	91.609%	0.139	0.168	89.327%	201.800	201.400	199.700	199.000
3	13:35:48	92.813%	0.096	0.153	91.006%	197.600	198.600	200.300	200.700
x		91.232%	0.140	0.169	89.431%	200.000	200.000	200.000	200.000
σ		1.799%	0.044	0.017	1.525%	2.175	1.410	0.286	0.919
%RSD		1.972	31.510	9.828	1.705	1.087	0.705	0.143	0.459

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	89.121%	0.082	0.090	0.086	201.300	201.700	91.816%	91.942%
2	13:35:05	92.367%	0.043	0.094	0.081	199.400	199.100	94.239%	94.404%
3	13:35:48	92.649%	0.057	0.115	0.075	199.200	199.200	96.952%	96.302%
x		91.379%	0.061	0.100	0.081	200.000	200.000	94.336%	94.216%
σ		1.960%	0.020	0.013	0.005	1.170	1.431	2.569%	2.186%
%RSD		2.145	32.170	13.300	6.548	0.585	0.716	2.724	2.320

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:22	198.200	197.200	198.600	198.800	198.800	85.802%
2	13:35:05	202.200	202.100	201.200	201.300	201.500	86.559%
3	13:35:48	199.700	200.700	200.200	199.900	199.800	87.753%
x		200.000	200.000	200.000	200.000	200.000	86.705%
σ		2.022	2.560	1.338	1.286	1.374	0.984%
%RSD		1.011	1.280	0.669	0.643	0.687	1.134

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	88.758%	0.062	190.100	194.000	0.000	6.192	2.708	3.325
2	13:39:52	90.831%	0.045	197.400	198.800	0.000	6.880	1.890	1.558
3	13:40:35	88.842%	0.016	212.500	207.200	0.000	12.630	1.373	1.271
x		89.477%	0.041	200.000	200.000	0.000	8.568	1.990	2.051
σ		1.173%	0.023	11.460	6.684	0.000	3.538	0.673	1.112
%RSD		1.312	56.910	5.728	3.342	0.000	41.290	33.820	54.230

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	5.186	9852.000	0.000	0.021	-0.908	65.690	90.164%	196.300
2	13:39:52	5.142	9808.000	0.000	-9.170	-3.869	62.080	91.122%	195.200
3	13:40:35	5.014	10340.000	0.000	-3.913	2.079	64.460	89.422%	208.500
x		5.114	10000.000	0.000	-4.354	-0.899	64.080	90.236%	200.000
σ		0.090	295.300	0.000	4.611	2.974	1.839	0.852%	7.421
%RSD		1.751	2.953	0.000	105.900	330.600	2.871	0.945	3.711

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	-0.039	-0.089	-0.087	19.010	10.150	-0.011	0.093	-0.024
2	13:39:52	-0.063	-0.073	-0.135	16.350	2.511	-0.002	-0.041	-0.038
3	13:40:35	-0.087	-0.106	-0.079	16.850	3.998	-0.007	-0.003	-0.088
x		-0.063	-0.090	-0.100	17.400	5.552	-0.007	0.016	-0.050
σ		0.024	0.017	0.030	1.416	4.049	0.004	0.069	0.034
%RSD		37.680	18.630	30.000	8.137	72.920	64.170	424.700	67.150

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	-0.034	-1.060	-0.855	0.376	0.393	0.847	0.000	-0.014
2	13:39:52	0.053	-0.958	-0.852	0.049	0.004	-0.230	0.000	-0.014
3	13:40:35	0.028	-1.009	-1.009	0.251	0.374	0.453	0.000	-0.020
x		0.016	-1.009	-0.905	0.225	0.257	0.357	0.000	-0.016
σ		0.045	0.051	0.090	0.165	0.219	0.545	0.000	0.004
%RSD		280.900	5.103	9.913	73.200	85.240	152.800	0.000	24.920

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	91.699%	191.600	192.000	92.282%	0.066	0.107	0.025	-0.356
2	13:39:52	93.191%	197.000	197.100	93.431%	0.062	0.096	0.065	-0.570
3	13:40:35	91.014%	211.300	210.900	91.944%	0.071	0.059	0.031	-0.391
x		91.968%	200.000	200.000	92.552%	0.066	0.088	0.040	-0.439
σ		1.113%	10.180	9.773	0.780%	0.005	0.025	0.022	0.115
%RSD		1.211	5.088	4.886	0.842	6.803	28.350	53.750	26.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	92.106%	195.900	196.700	196.800	0.006	0.176	92.663%	93.569%
2	13:39:52	94.261%	198.300	196.900	197.600	0.026	0.160	94.411%	95.925%
3	13:40:35	93.514%	205.800	206.500	205.600	-0.005	0.161	93.701%	93.253%
x		93.294%	200.000	200.000	200.000	0.009	0.166	93.591%	94.249%
σ		1.094%	5.145	5.591	4.845	0.016	0.009	0.879%	1.460%
%RSD		1.173	2.572	2.796	2.422	180.800	5.391	0.940	1.549

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:09	-0.005	-0.003	-0.001	-0.016	-0.005	87.899%
2	13:39:52	-0.013	-0.004	-0.011	-0.008	-0.010	90.430%
3	13:40:35	-0.004	-0.009	-0.006	-0.012	-0.005	88.347%
x		-0.007	-0.006	-0.006	-0.012	-0.007	88.892%
σ		0.005	0.003	0.005	0.004	0.003	1.351%
%RSD		66.900	54.320	80.320	32.430	49.430	1.520

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:57	89.311%	80.680	82.880	81.890	0.000	40780.000	40310.000	40420.000
2	13:44:40	89.544%	79.360	82.010	83.090	0.000	41120.000	40490.000	40330.000
3	13:45:23	90.634%	79.370	75.710	81.580	0.000	39880.000	39340.000	38950.000
x		89.830%	99.753%	100.253%	102.734%	0.000	101.480%	100.116%	99.755%
σ		0.706%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.786	0.955	4.877	0.972	0.000	1.570	1.550	2.059
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:57	413.900	4272.000	0.000	41500.000	40280.000	39740.000	88.106%	80.930
2	13:44:40	416.400	4308.000	0.000	41090.000	41330.000	39780.000	88.540%	79.230
3	13:45:23	401.400	4180.000	0.000	39830.000	39140.000	38250.000	90.998%	76.730
x		102.644%	106.331%	0.000	102.016%	100.626%	98.143%	89.215%	98.706%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.559%	n/a
%RSD		1.967	1.558	0.000	2.134	2.721	2.225	1.748	2.679
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:57	83.060	83.120	409.200	20630.000	20350.000	82.870	81.830	83.000
2	13:44:40	83.250	84.520	416.400	20670.000	20570.000	83.150	82.640	83.220
3	13:45:23	79.910	80.310	397.900	19630.000	19630.000	80.040	77.900	79.970
x		102.591%	103.312%	101.956%	101.550%	100.923%	102.522%	100.984%	102.581%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.286	2.596	2.290	2.914	2.438	2.098	3.140	2.216
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:57	83.420	81.980	83.510	80.590	79.780	81.260	0.000	81.130
2	13:44:40	83.400	82.340	83.040	79.710	79.800	81.000	0.000	81.220
3	13:45:23	79.160	80.820	79.390	77.070	76.450	80.120	0.000	78.490
x		102.494%	102.140%	102.473%	98.902%	98.346%	100.988%	0.000	100.347%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.993	0.975	2.745	2.319	2.452	0.739	0.000	1.932
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:57	89.082%	83.400	83.680	88.166%	81.850	82.810	83.480	81.950
2	13:44:40	90.094%	83.700	83.540	89.037%	82.340	83.310	84.220	81.250
3	13:45:23	93.149%	80.690	80.040	92.248%	79.470	79.620	79.510	78.100
x		90.775%	103.246%	103.027%	89.817%	101.526%	102.386%	103.002%	100.541%
σ		2.117%	n/a	n/a	2.150%	n/a	n/a	n/a	n/a
%RSD		2.332	2.011	2.504	2.394	1.891	2.444	3.077	2.552
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:57	89.223%	82.010	80.830	81.170	81.560	82.490	91.340%	91.820%
2	13:44:40	91.759%	82.130	80.540	80.380	81.560	81.460	93.658%	94.292%
3	13:45:23	94.056%	77.540	77.910	76.900	79.670	79.380	95.727%	96.864%
x		91.679%	100.700%	99.702%	99.354%	101.162%	101.389%	93.575%	94.325%
σ		2.417%	n/a	n/a	n/a	n/a	n/a	2.194%	2.522%
%RSD		2.637	3.246	2.017	2.864	1.346	1.952	2.345	2.674
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:43:57	85.180	84.550	80.880	83.860	82.130	84.051%		
2	13:44:40	85.110	84.680	81.870	85.900	83.550	85.827%		
3	13:45:23	82.100	82.010	77.610	82.020	79.780	89.148%		
x		105.161%	104.683%	100.152%	104.906%	102.272%	86.342%		
σ		n/a	n/a	n/a	n/a	n/a	2.587%		
%RSD		2.091	1.797	2.783	2.314	2.323	2.996		

ICB 4/12/2013 1:51:28 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:11	96.187%	0.097	0.871	0.591	0.000	-10.660	0.147	-0.400
2	13:52:54	96.358%	0.011	0.425	0.802	0.000	0.367	-0.311	0.011
3	13:53:37	95.839%	0.040	0.136	0.535	0.000	2.721	-0.452	-0.352
x		96.128%	0.049	0.477	0.643	0.000	-2.524	-0.205	-0.247
σ		0.265%	0.043	0.371	0.141	0.000	7.144	0.313	0.225
%RSD		0.276	88.060	77.640	21.890	0.000	283.000	152.600	91.010
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:11	-0.065	-97.420	0.000	-8.780	-1.381	-18.820	95.230%	0.039
2	13:52:54	-0.242	-106.600	0.000	-6.908	-6.870	-22.540	95.659%	0.120
3	13:53:37	0.005	-103.200	0.000	-4.817	-1.356	-18.010	94.947%	0.066
x		-0.101	-102.400	0.000	-6.835	-3.203	-19.790	95.279%	0.075
σ		0.128	4.660	0.000	1.983	3.176	2.418	0.359%	0.041
%RSD		126.700	4.551	0.000	29.000	99.180	12.220	0.376	54.900
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:11	0.511	0.169	-0.074	-3.490	-1.535	-0.022	-0.051	-0.060
2	13:52:54	0.367	0.232	-0.068	-4.975	-4.699	-0.026	-0.000	-0.040
3	13:53:37	0.835	0.177	-0.037	-6.021	-4.749	-0.022	0.036	-0.052
x		0.571	0.193	-0.060	-4.829	-3.661	-0.024	-0.005	-0.050
σ		0.239	0.034	0.020	1.272	1.841	0.002	0.044	0.010
%RSD		41.910	17.840	33.280	26.350	50.300	8.865	832.300	19.990
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:11	-0.006	-1.000	-0.777	-0.403	-0.076	-0.883	0.000	-0.013
2	13:52:54	0.008	-1.059	-0.779	0.045	-0.323	0.106	0.000	-0.009
3	13:53:37	0.025	-0.832	-0.744	-0.159	-0.130	-0.964	0.000	-0.009
x		0.009	-0.963	-0.767	-0.172	-0.176	-0.581	0.000	-0.011
σ		0.015	0.118	0.020	0.224	0.130	0.596	0.000	0.002
%RSD		169.000	12.250	2.577	130.300	73.900	102.600	0.000	19.790
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:11	87.815%	0.319	0.324	88.775%	0.013	-0.002	-0.056	-0.030
2	13:52:54	88.659%	0.397	0.290	89.047%	0.014	0.004	0.002	-0.000
3	13:53:37	87.587%	0.186	0.327	89.082%	0.000	0.002	-0.070	-0.050
x		88.020%	0.301	0.314	88.968%	0.009	0.001	-0.041	-0.026
σ		0.565%	0.107	0.020	0.168%	0.008	0.003	0.038	0.025
%RSD		0.642	35.470	6.495	0.189	85.880	296.300	92.700	93.990
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:11	87.751%	0.082	0.008	-0.021	0.019	-0.014	88.193%	89.562%
2	13:52:54	89.700%	0.081	0.001	0.015	-0.027	-0.002	90.421%	90.890%
3	13:53:37	89.857%	0.053	-0.003	0.025	-0.016	0.004	90.711%	91.551%
x		89.103%	0.072	0.002	0.007	-0.008	-0.004	89.775%	90.668%
σ		1.173%	0.016	0.006	0.024	0.024	0.010	1.378%	1.013%
%RSD		1.317	22.540	303.400	368.400	300.600	234.300	1.534	1.117
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:52:11	0.003	0.011	0.056	0.056	0.062	87.386%		
2	13:52:54	-0.000	0.003	0.048	0.054	0.050	84.243%		
3	13:53:37	-0.011	-0.003	0.058	0.051	0.053	85.517%		
x		-0.003	0.003	0.054	0.054	0.055	85.715%		
σ		0.007	0.007	0.005	0.003	0.006	1.581%		
%RSD		245.000	214.300	8.916	4.851	11.280	1.845		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:25	90.436%	1.179	4.832	4.739	0.000	105.800	102.100	97.250
2	14:01:08	93.993%	0.960	4.631	5.205	0.000	104.000	101.200	100.800
3	14:01:51	94.679%	1.315	5.575	5.323	0.000	103.800	101.200	99.250
x		93.036%	115.170%	100.257%	101.783%	0.000	104.505%	101.485%	99.105%
σ		2.278%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.448	15.560	9.921	6.067	0.000	1.039	0.520	1.801
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:25	31.060	491.200	0.000	107.100	98.210	81.370	89.509%	5.186
2	14:01:08	31.380	484.600	0.000	102.800	73.470	97.240	90.948%	4.789
3	14:01:51	31.030	496.600	0.000	103.600	102.100	94.840	90.934%	4.902
x		103.850%	98.163%	0.000	104.493%	91.252%	91.149%	90.464%	99.180%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.827%	n/a
%RSD		0.634	1.225	0.000	2.207	17.010	9.387	0.914	4.127
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:25	1.038	2.297	5.572	53.100	52.360	0.495	1.188	2.072
2	14:01:08	0.951	2.069	5.331	51.560	53.600	0.500	1.065	2.016
3	14:01:51	1.177	2.227	5.366	52.250	50.740	0.532	1.107	2.009
x		105.555%	109.883%	1084.620%	104.610%	104.467%	101.749%	111.986%	101.631%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		10.790	5.303	2.406	1.477	2.745	4.018	5.562	1.687
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:25	2.301	3.848	3.819	0.867	4.816	5.378	0.000	5.044
2	14:01:08	2.124	4.309	3.935	0.831	4.669	5.659	0.000	5.111
3	14:01:51	2.060	4.085	3.827	1.441	4.731	5.349	0.000	5.199
x		108.075%	81.611%	77.207%	104.620%	94.776%	109.245%	0.000	102.366%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		5.787	5.652	1.685	32.730	1.556	3.137	0.000	1.519
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:25	88.138%	5.109	4.881	93.204%	1.021	1.150	1.200	1.164
2	14:01:08	90.294%	5.151	4.919	94.494%	1.039	0.951	1.102	1.017
3	14:01:51	90.645%	5.194	5.143	94.761%	1.022	1.065	1.029	1.019
x		89.692%	103.035%	99.624%	94.153%	102.707%	105.500%	111.039%	106.655%
σ		1.357%	n/a	n/a	0.833%	n/a	n/a	n/a	n/a
%RSD		1.513	0.825	2.842	0.884	1.013	9.469	7.770	7.883
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:25	92.634%	5.139	2.098	1.974	9.799	9.989	92.343%	91.683%
2	14:01:08	94.345%	5.502	1.933	2.125	10.140	10.500	94.248%	93.682%
3	14:01:51	94.947%	5.178	1.932	1.949	10.400	10.510	94.748%	95.803%
x		93.975%	105.459%	99.387%	100.788%	101.113%	103.328%	93.780%	93.723%
σ		1.200%	n/a	n/a	n/a	n/a	n/a	1.269%	2.060%
%RSD		1.277	3.776	4.812	4.743	2.960	2.880	1.353	2.198
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:00:25	0.929	0.932	0.905	1.011	0.938	95.744%		
2	14:01:08	1.073	1.031	1.030	1.113	1.077	88.513%		
3	14:01:51	0.960	1.009	1.031	1.098	1.050	89.358%		
x		98.726%	99.073%	98.876%	107.408%	102.161%	91.205%		
σ		n/a	n/a	n/a	n/a	n/a	3.953%		
%RSD		7.645	5.266	7.330	5.101	7.238	4.335		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	79.914%	-0.011	3.711	3.628	0.000	42.280	18.340	20.430
2	14:10:47	84.040%	0.069	2.903	4.055	0.000	38.740	18.530	19.760
3	14:11:30	82.503%	0.037	3.661	4.140	0.000	45.080	18.420	20.310
x		82.153%	0.032	3.425	3.941	0.000	42.030	18.430	20.170
σ		2.085%	0.040	0.453	0.274	0.000	3.178	0.095	0.355
%RSD		2.538	127.400	13.210	6.954	0.000	7.560	0.516	1.761

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	517000.000	74.760	0.000	21.930	235.400	43.910	78.753%	1.139
2	14:10:47	497500.000	62.570	0.000	25.080	198.900	34.300	81.196%	0.879
3	14:11:30	512600.000	73.630	0.000	30.520	207.800	38.070	80.296%	0.793
x		509000.000	70.320	0.000	25.840	214.100	38.760	80.082%	0.937
σ		10240.000	6.738	0.000	4.347	19.020	4.840	1.236%	0.180
%RSD		2.012	9.582	0.000	16.820	8.885	12.490	1.543	19.190

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	-160.400	21150.000	21480.000	520400.000	531400.000	9.260	10180.000	20310.000
2	14:10:47	-216.400	20460.000	20740.000	502000.000	515300.000	9.041	10030.000	19600.000
3	14:11:30	-312.100	20970.000	21330.000	516200.000	527400.000	9.525	10280.000	20020.000
x		-229.600	20860.000	21180.000	512900.000	524700.000	9.275	10160.000	19980.000
σ		76.750	354.600	395.000	9645.000	8366.000	0.242	126.900	357.100
%RSD		33.420	1.700	1.865	1.881	1.594	2.612	1.249	1.788

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	21200.000	21410.000	21510.000	0.303	0.065	0.396	0.000	0.288
2	14:10:47	20290.000	20770.000	20920.000	0.530	0.214	1.319	0.000	0.263
3	14:11:30	20760.000	21290.000	21520.000	0.270	0.325	-0.343	0.000	0.264
x		20750.000	21160.000	21320.000	0.368	0.201	0.457	0.000	0.272
σ		457.600	338.400	346.400	0.141	0.130	0.833	0.000	0.014
%RSD		2.205	1.599	1.625	38.440	64.850	182.100	0.000	5.190

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	78.259%	2.020	1.902	79.368%	0.284	0.284	-0.062	-0.059
2	14:10:47	82.050%	2.044	1.842	82.847%	0.264	0.256	0.136	0.122
3	14:11:30	81.768%	2.069	2.026	82.586%	0.256	0.289	0.015	-0.000
x		80.692%	2.044	1.923	81.600%	0.268	0.277	0.030	0.021
σ		2.112%	0.025	0.094	1.938%	0.014	0.018	0.100	0.092
%RSD		2.617	1.209	4.882	2.375	5.321	6.549	337.200	443.600

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	83.503%	0.258	0.887	0.923	16220.000	15860.000	83.081%	83.532%
2	14:10:47	87.529%	0.229	0.860	0.831	15460.000	15130.000	88.301%	88.283%
3	14:11:30	87.562%	0.283	0.850	0.886	15970.000	15750.000	87.161%	87.323%
x		86.198%	0.257	0.866	0.880	15880.000	15580.000	86.181%	86.379%
σ		2.333%	0.027	0.019	0.047	388.700	393.500	2.744%	2.513%
%RSD		2.707	10.400	2.216	5.296	2.447	2.526	3.185	2.909

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:10:04	0.049	0.053	19270.000	20890.000	20080.000	86.646%
2	14:10:47	0.048	0.065	18780.000	20270.000	19490.000	89.755%
3	14:11:30	0.045	0.052	19980.000	21600.000	20810.000	86.563%
x		0.047	0.056	19340.000	20920.000	20130.000	87.655%
σ		0.002	0.007	600.700	665.500	660.200	1.820%
%RSD		4.511	12.900	3.105	3.181	3.280	2.076

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:22	93.340%	-0.016	2.342	2.049	0.000	498500.000	984000.000	976100.000
2	14:19:05	93.897%	0.084	2.689	1.946	0.000	519000.000	1020000.000	1020000.000
3	14:19:48	96.291%	0.011	1.582	2.046	0.000	522800.000	1030000.000	1032000.000
x		94.509%	0.026	2.204	2.014	0.000	513400.000	1011000.000	1009000.000
σ		1.568%	0.052	0.567	0.059	0.000	13040.000	24250.000	29370.000
%RSD		1.659	198.400	25.700	2.920	0.000	2.539	2.397	2.910
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:22	36.310	226.900	0.000	491300.000	974600.000	977500.000	101.021%	0.545
2	14:19:05	35.970	280.700	0.000	510400.000	1018000.000	1003000.000	104.579%	0.328
3	14:19:48	35.630	295.200	0.000	521200.000	1032000.000	1021000.000	106.471%	0.637
x		35.970	267.600	0.000	507600.000	1008000.000	1001000.000	104.024%	0.503
σ		0.336	35.980	0.000	15180.000	29920.000	21870.000	2.767%	0.159
%RSD		0.934	13.450	0.000	2.990	2.968	2.185	2.660	31.560
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:22	-0.097	1.665	1.916	61.900	2773.000	0.805	-5.708	2.929
2	14:19:05	0.031	1.641	1.885	62.050	2854.000	0.777	-6.179	2.949
3	14:19:48	0.012	1.778	1.760	63.080	2969.000	0.847	-6.345	2.993
x		-0.018	1.695	1.854	62.340	2865.000	0.810	-6.078	2.957
σ		0.069	0.073	0.082	0.642	98.570	0.035	0.330	0.033
%RSD		382.800	4.318	4.450	1.029	3.440	4.366	5.435	1.115
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:22	3.014	3.579	2.428	0.546	0.274	2.783	0.000	39.420
2	14:19:05	2.768	2.855	2.815	0.359	1.116	1.666	0.000	41.660
3	14:19:48	2.859	3.005	2.464	0.309	0.998	1.212	0.000	41.550
x		2.880	3.146	2.569	0.405	0.796	1.887	0.000	40.870
σ		0.125	0.382	0.214	0.125	0.456	0.808	0.000	1.262
%RSD		4.323	12.150	8.317	30.900	57.320	42.840	0.000	3.088
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:22	101.932%	0.371	0.243	93.192%	0.088	0.067	-0.021	-0.021
2	14:19:05	105.997%	0.408	0.364	96.919%	0.071	0.066	-0.024	-0.039
3	14:19:48	106.705%	0.438	0.362	98.377%	0.082	0.081	0.038	0.040
x		104.878%	0.406	0.323	96.163%	0.080	0.071	-0.002	-0.007
σ		2.576%	0.033	0.069	2.674%	0.009	0.008	0.035	0.042
%RSD		2.456	8.207	21.500	2.780	10.710	11.900	1568.000	621.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:22	97.903%	0.439	0.360	0.344	2.367	2.306	103.406%	104.083%
2	14:19:05	101.402%	0.487	0.375	0.330	2.742	2.404	108.196%	107.875%
3	14:19:48	103.393%	0.406	0.364	0.403	2.543	2.444	107.245%	108.403%
x		100.899%	0.444	0.366	0.359	2.551	2.385	106.282%	106.787%
σ		2.779%	0.041	0.007	0.039	0.188	0.071	2.536%	2.357%
%RSD		2.754	9.227	2.037	10.850	7.354	2.995	2.386	2.207
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:18:22	0.079	0.080	2.087	2.230	2.119	89.614%		
2	14:19:05	0.077	0.077	2.053	2.113	2.053	92.937%		
3	14:19:48	0.076	0.083	2.013	2.064	2.049	92.405%		
x		0.077	0.080	2.051	2.136	2.074	91.652%		
σ		0.002	0.003	0.037	0.085	0.039	1.785%		
%RSD		2.132	3.303	1.797	3.997	1.902	1.948		

ICSA 787358 4/12/2013 2:25:55 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	85.101%	0.003	1.667	0.846	0.000	103500.000	102400.000	102300.000
2	14:27:21	84.756%	0.019	0.757	1.248	0.000	104600.000	103700.000	103400.000
3	14:28:04	85.071%	0.067	0.669	0.812	0.000	103800.000	102500.000	102000.000
x		84.976%	0.029	1.031	0.968	0.000	103900.000	102900.000	102500.000
σ		0.191%	0.033	0.552	0.242	0.000	596.500	714.300	735.900
%RSD		0.225	113.600	53.570	25.030	0.000	0.574	0.694	0.718

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	104600.000	-34.320	0.000	102600.000	102700.000	100900.000	88.064%	2183.000
2	14:27:21	105400.000	-35.020	0.000	103600.000	105400.000	102700.000	88.093%	2204.000
3	14:28:04	103900.000	-38.570	0.000	102900.000	104000.000	101900.000	88.044%	2172.000
x		104600.000	-35.970	0.000	103000.000	104000.000	101800.000	88.067%	2187.000
σ		725.200	2.277	0.000	526.500	1376.000	918.400	0.025%	16.310
%RSD		0.693	6.331	0.000	0.511	1.323	0.902	0.028	0.746

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	-0.683	0.032	0.066	102700.000	104300.000	0.106	-0.094	1.162
2	14:27:21	-0.154	0.099	0.052	102400.000	104600.000	0.060	-0.012	1.047
3	14:28:04	-0.415	0.089	0.078	102700.000	104800.000	0.086	-0.021	1.223
x		-0.417	0.073	0.065	102600.000	104600.000	0.084	-0.042	1.144
σ		0.265	0.036	0.013	164.000	238.600	0.023	0.045	0.089
%RSD		63.430	49.200	20.250	0.160	0.228	27.220	107.600	7.818

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	1.603	1.747	0.404	0.373	0.867	0.692	0.000	4.513
2	14:27:21	1.522	2.069	1.028	0.195	1.395	-0.466	0.000	4.607
3	14:28:04	1.621	1.883	0.593	0.276	1.612	0.793	0.000	4.669
x		1.582	1.899	0.675	0.281	1.291	0.340	0.000	4.596
σ		0.053	0.162	0.320	0.089	0.383	0.699	0.000	0.078
%RSD		3.331	8.516	47.350	31.750	29.690	205.800	0.000	1.703

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	91.371%	2066.000	2072.000	88.729%	0.038	0.036	0.081	0.113
2	14:27:21	92.764%	2113.000	2107.000	90.793%	0.023	0.041	0.349	0.253
3	14:28:04	92.776%	2115.000	2116.000	90.803%	0.036	0.039	0.360	0.164
x		92.304%	2098.000	2099.000	90.108%	0.032	0.039	0.263	0.177
σ		0.807%	27.790	23.090	1.195%	0.008	0.002	0.158	0.070
%RSD		0.875	1.324	1.100	1.326	25.810	5.999	60.120	39.850

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	93.415%	0.048	0.274	0.285	0.185	0.244	95.506%	95.528%
2	14:27:21	96.037%	0.064	0.252	0.267	0.231	0.225	97.790%	98.730%
3	14:28:04	96.278%	0.057	0.276	0.198	0.199	0.201	98.600%	99.692%
x		95.244%	0.056	0.268	0.250	0.205	0.223	97.299%	97.984%
σ		1.588%	0.008	0.013	0.046	0.024	0.022	1.604%	2.180%
%RSD		1.667	14.410	4.979	18.510	11.540	9.680	1.649	2.225

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:38	0.001	-0.001	0.183	0.178	0.167	90.104%
2	14:27:21	-0.001	-0.003	0.153	0.164	0.173	91.087%
3	14:28:04	-0.009	-0.002	0.179	0.162	0.184	91.738%
x		-0.003	-0.002	0.172	0.168	0.175	90.976%
σ		0.005	0.001	0.016	0.009	0.008	0.823%
%RSD		169.600	54.990	9.607	5.172	4.824	0.904

ICSAB 787359 4/12/2013 2:34:11 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	81.512%	20.700	52.000	52.270	0.000	108300.000	107400.000	106800.000
2	14:35:38	82.495%	19.630	47.200	54.480	0.000	106800.000	105300.000	104400.000
3	14:36:21	82.756%	21.180	47.570	53.410	0.000	107500.000	105700.000	105400.000
x		82.254%	102.498%	97.847%	106.772%	0.000	107.555%	106.108%	105.549%
σ		0.656%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.798	3.867	5.451	2.076	0.000	0.667	1.032	1.185

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	109000.000	453.400	0.000	106100.000	107100.000	106700.000	83.992%	2252.000
2	14:35:38	106700.000	442.900	0.000	104500.000	106000.000	104000.000	85.724%	2236.000
3	14:36:21	107100.000	451.300	0.000	105700.000	108700.000	105600.000	84.425%	2255.000
x		107.605%	89.837%	0.000	105.427%	107.304%	105.411%	84.714%	112.387%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.901%	n/a
%RSD		1.113	1.227	0.000	0.746	1.265	1.269	1.064	0.457

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	20.660	21.530	22.310	106700.000	108500.000	21.550	20.980	22.810
2	14:35:38	21.070	21.060	22.160	105300.000	107600.000	21.300	21.500	22.690
3	14:36:21	21.890	21.620	22.430	106100.000	108200.000	21.610	20.370	23.050
x		106.048%	107.024%	96.951%	106.041%	108.101%	107.430%	104.758%	114.245%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.949	1.396	0.587	0.655	0.466	0.763	2.683	0.800

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	22.290	24.880	24.050	23.170	55.860	55.550	0.000	26.000
2	14:35:38	22.290	24.800	23.810	22.260	55.230	54.480	0.000	25.900
3	14:36:21	22.780	24.580	24.960	22.970	57.060	55.000	0.000	26.460
x		112.276%	99.011%	97.092%	113.986%	112.103%	110.022%	0.000	130.603%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.271	0.627	2.500	2.106	1.663	0.964	0.000	1.152

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	88.501%	2168.000	2178.000	85.947%	21.180	21.470	22.490	21.660
2	14:35:38	90.122%	2154.000	2171.000	88.357%	20.990	20.880	21.700	20.960
3	14:36:21	90.155%	2186.000	2195.000	87.346%	21.220	21.430	22.380	21.330
x		89.593%	108.458%	109.058%	87.217%	105.654%	106.305%	110.960%	106.577%
σ		0.946%	n/a	n/a	1.210%	n/a	n/a	n/a	n/a
%RSD		1.055	0.736	0.549	1.388	0.586	1.551	1.928	1.641

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	90.056%	106.600	21.640	21.650	22.130	21.720	91.990%	92.665%
2	14:35:38	93.601%	105.100	21.400	21.300	20.680	21.880	96.105%	95.746%
3	14:36:21	92.034%	107.500	21.590	21.530	21.100	21.740	95.462%	96.124%
x		91.897%	106.422%	107.723%	107.472%	106.504%	108.915%	94.519%	94.845%
σ		1.776%	n/a	n/a	n/a	n/a	n/a	2.214%	1.897%
%RSD		1.933	1.132	0.593	0.812	3.494	0.405	2.342	2.000

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:54	20.910	20.670	21.380	21.450	21.430	87.817%
2	14:35:38	21.230	20.980	21.550	21.430	21.810	89.869%
3	14:36:21	21.930	21.870	22.160	22.310	22.290	87.978%
x		106.786%	105.881%	108.475%	108.659%	109.227%	88.555%
σ		n/a	n/a	n/a	n/a	n/a	1.141%
%RSD		2.453	2.946	1.897	2.320	1.976	1.289

CCV 781130 4/12/2013 2:42:26 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	89.840%	106.200	102.100	100.600	0.000	52090.000	52670.000	52470.000
2	14:43:52	90.708%	104.200	107.100	104.300	0.000	52410.000	52960.000	52850.000
3	14:44:35	90.558%	104.300	101.200	102.600	0.000	51340.000	51390.000	51350.000
x		90.369%	104.879%	103.444%	102.502%	0.000	103.898%	104.679%	104.447%
σ		0.464%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.513	1.056	3.057	1.820	0.000	1.058	1.594	1.491

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	530.700	5099.000	0.000	52280.000	52170.000	50560.000	92.167%	104.300
2	14:43:52	540.500	5126.000	0.000	52940.000	52520.000	51360.000	92.279%	105.800
3	14:44:35	529.900	5020.000	0.000	51580.000	51750.000	50380.000	93.752%	103.900
x		106.735%	101.633%	0.000	104.534%	104.291%	101.529%	92.733%	104.656%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.885%	n/a
%RSD		1.106	1.086	0.000	1.292	0.742	1.024	0.954	0.942

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	103.500	104.900	522.600	26290.000	26150.000	105.400	107.200	106.100
2	14:43:52	105.400	105.200	533.600	26530.000	26560.000	106.800	107.300	106.500
3	14:44:35	103.800	103.300	519.300	25710.000	25950.000	104.600	102.900	104.100
x		104.204%	104.443%	105.031%	104.700%	104.883%	105.616%	105.796%	105.578%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.977	0.961	1.420	1.613	1.193	1.066	2.371	1.210

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	105.900	105.200	106.400	102.600	102.600	102.800	0.000	103.900
2	14:43:52	108.900	105.000	108.800	103.600	105.500	101.900	0.000	105.900
3	14:44:35	104.500	103.700	103.700	102.300	102.900	103.400	0.000	104.200
x		106.429%	104.632%	106.283%	102.822%	103.677%	102.703%	0.000	104.681%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.102	0.816	2.420	0.646	1.503	0.759	0.000	1.039

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	93.538%	107.200	107.200	91.833%	106.800	105.700	103.900	103.200
2	14:43:52	94.727%	108.300	109.700	92.934%	107.300	106.800	106.800	106.400
3	14:44:35	95.364%	109.000	106.700	94.273%	104.600	105.200	102.400	102.400
x		94.543%	108.160%	107.898%	93.013%	106.234%	105.869%	104.354%	104.022%
σ		0.927%	n/a	n/a	1.222%	n/a	n/a	n/a	n/a
%RSD		0.981	0.871	1.493	1.314	1.372	0.797	2.137	2.024

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	92.726%	101.700	101.700	102.300	105.100	104.400	93.870%	93.863%
2	14:43:52	93.875%	104.000	103.800	104.100	106.600	105.200	95.799%	96.891%
3	14:44:35	96.254%	102.000	101.700	101.300	103.300	103.600	98.161%	97.770%
x		94.285%	102.580%	102.408%	102.566%	104.997%	104.410%	95.943%	96.175%
σ		1.799%	n/a	n/a	n/a	n/a	n/a	2.149%	2.049%
%RSD		1.908	1.228	1.183	1.344	1.572	0.781	2.240	2.131

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:09	105.100	104.600	103.900	104.700	105.100	87.454%
2	14:43:52	105.800	106.500	105.600	106.700	106.100	89.286%
3	14:44:35	105.100	105.000	104.800	105.400	105.000	90.490%
x		105.348%	105.377%	104.766%	105.601%	105.374%	89.076%
σ		n/a	n/a	n/a	n/a	n/a	1.529%
%RSD		0.406	0.955	0.808	0.972	0.589	1.716

CCB1 4/12/2013 2:50:41 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	98.499%	0.010	0.834	0.308	0.000	-9.218	1.102	1.023
2	14:52:07	97.211%	0.025	0.489	0.684	0.000	-2.302	2.530	0.701
3	14:52:49	98.818%	-0.004	0.757	0.469	0.000	-6.301	0.851	1.105
x		98.176%	0.010	0.693	0.487	0.000	-5.940	1.494	0.943
σ		0.851%	0.014	0.181	0.189	0.000	3.472	0.905	0.214
%RSD		0.867	139.300	26.140	38.800	0.000	58.450	60.600	22.650

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	-0.036	-56.780	0.000	28.830	-1.476	-13.420	96.279%	0.172
2	14:52:07	-0.126	-50.920	0.000	35.590	1.308	-15.230	95.631%	0.173
3	14:52:49	-0.076	-59.520	0.000	34.170	-6.889	-21.440	96.236%	0.172
x		-0.079	-55.740	0.000	32.860	-2.352	-16.700	96.049%	0.172
σ		0.045	4.392	0.000	3.563	4.168	4.207	0.362%	0.001
%RSD		56.600	7.879	0.000	10.840	177.200	25.190	0.377	0.454

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	0.442	0.194	0.009	2.426	-1.189	-0.024	0.027	0.131
2	14:52:07	0.572	0.219	0.019	1.494	-0.114	-0.024	0.036	0.170
3	14:52:49	0.199	0.189	0.003	-0.001	0.735	-0.019	0.010	0.037
x		0.404	0.201	0.010	1.306	-0.190	-0.023	0.024	0.113
σ		0.190	0.016	0.008	1.224	0.964	0.003	0.013	0.068
%RSD		46.890	7.918	77.890	93.750	508.900	13.270	54.570	60.410

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	0.035	-0.886	-0.639	0.274	0.781	0.157	0.000	-0.016
2	14:52:07	0.086	-0.947	-0.806	0.064	0.917	0.894	0.000	-0.013
3	14:52:49	0.048	-0.995	-0.694	-0.145	-0.083	-1.018	0.000	-0.019
x		0.056	-0.943	-0.713	0.064	0.538	0.011	0.000	-0.016
σ		0.026	0.054	0.085	0.210	0.542	0.965	0.000	0.003
%RSD		46.550	5.757	11.880	326.100	100.700	8725.000	0.000	17.760

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	95.570%	1.179	1.116	95.750%	0.010	0.022	-0.037	-0.027
2	14:52:07	95.899%	1.255	1.245	96.066%	0.011	0.010	-0.103	-0.071
3	14:52:49	96.490%	1.037	1.010	97.314%	0.022	0.004	0.024	0.024
x		95.986%	1.157	1.124	96.376%	0.015	0.012	-0.039	-0.025
σ		0.466%	0.111	0.118	0.827%	0.007	0.009	0.064	0.047
%RSD		0.486	9.573	10.480	0.858	46.970	76.350	164.700	191.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	95.402%	0.194	-0.010	-0.008	-0.016	-0.009	94.885%	95.260%
2	14:52:07	96.506%	0.134	0.005	-0.016	-0.027	-0.015	96.256%	95.897%
3	14:52:49	95.741%	0.122	0.000	-0.009	0.005	0.015	95.648%	97.051%
x		95.883%	0.150	-0.001	-0.011	-0.013	-0.003	95.596%	96.070%
σ		0.565%	0.039	0.008	0.004	0.016	0.016	0.687%	0.908%
%RSD		0.590	25.900	552.800	40.520	124.700	506.900	0.718	0.945

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:24	0.007	0.008	0.075	0.069	0.067	98.106%
2	14:52:07	0.010	0.002	0.050	0.057	0.075	90.931%
3	14:52:49	0.022	-0.006	0.066	0.041	0.073	91.953%
x		0.013	0.001	0.064	0.056	0.072	93.664%
σ		0.008	0.007	0.013	0.014	0.004	3.881%
%RSD		59.750	523.900	19.750	24.990	5.449	4.144

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:38	93.150%	-0.002	0.159	0.047	0.000	4.641	2.964	1.914
2	15:00:21	93.833%	0.027	-0.376	0.167	0.000	6.446	1.631	2.632
3	15:01:04	93.891%	0.071	-0.225	0.121	0.000	9.814	2.505	1.959
x		93.624%	0.032	-0.147	0.112	0.000	6.967	2.366	2.168
σ		0.412%	0.036	0.276	0.060	0.000	2.626	0.677	0.402
%RSD		0.440	113.500	187.300	54.000	0.000	37.690	28.610	18.550
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:38	0.911	-24.800	0.000	29.360	12.080	-5.569	96.457%	0.091
2	15:00:21	1.029	-7.404	0.000	34.770	-6.884	-3.978	96.324%	-0.016
3	15:01:04	1.040	-17.500	0.000	37.670	9.512	-3.333	95.676%	0.065
x		0.994	-16.570	0.000	33.930	4.904	-4.293	96.153%	0.046
σ		0.071	8.736	0.000	4.217	10.290	1.151	0.418%	0.056
%RSD		7.188	52.730	0.000	12.430	209.800	26.800	0.435	120.100
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:38	0.359	0.231	0.233	3.959	1.123	-0.016	-0.019	0.057
2	15:00:21	0.184	0.187	0.255	2.925	3.553	-0.018	0.022	0.076
3	15:01:04	0.578	0.255	0.258	2.704	4.210	-0.026	0.007	0.042
x		0.374	0.224	0.249	3.196	2.962	-0.020	0.003	0.058
σ		0.197	0.034	0.014	0.670	1.627	0.005	0.021	0.017
%RSD		52.800	15.360	5.621	20.970	54.910	27.490	622.500	29.300
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:38	0.027	-0.884	-0.921	-0.290	0.253	-0.243	0.000	0.018
2	15:00:21	0.068	-0.826	-0.839	0.203	0.209	0.272	0.000	0.019
3	15:01:04	0.022	-0.888	-0.697	0.133	0.292	1.131	0.000	0.010
x		0.039	-0.866	-0.819	0.015	0.251	0.387	0.000	0.016
σ		0.025	0.035	0.113	0.267	0.042	0.695	0.000	0.005
%RSD		64.480	3.987	13.800	1746.000	16.540	179.600	0.000	30.090
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:38	102.223%	0.458	0.500	97.566%	0.009	0.010	0.074	0.047
2	15:00:21	103.006%	0.317	0.455	98.356%	-0.004	0.006	-0.071	-0.054
3	15:01:04	101.895%	0.457	0.488	98.193%	0.011	0.021	0.055	0.033
x		102.375%	0.411	0.481	98.038%	0.005	0.012	0.020	0.009
σ		0.571%	0.081	0.023	0.417%	0.008	0.008	0.079	0.055
%RSD		0.558	19.800	4.879	0.425	149.900	65.590	402.100	643.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:38	96.473%	0.040	-0.008	-0.019	-0.006	0.020	96.536%	95.869%
2	15:00:21	97.992%	0.077	-0.001	0.003	0.045	0.008	97.305%	97.672%
3	15:01:04	98.489%	0.032	0.003	-0.014	-0.006	0.043	98.175%	97.766%
x		97.651%	0.050	-0.002	-0.010	0.011	0.024	97.339%	97.102%
σ		1.050%	0.024	0.005	0.011	0.029	0.017	0.820%	1.069%
%RSD		1.075	48.370	249.300	110.500	272.500	73.770	0.843	1.101
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:59:38	-0.009	-0.006	0.051	0.075	0.068	100.831%		
2	15:00:21	-0.013	-0.008	0.075	0.064	0.071	92.030%		
3	15:01:04	-0.008	0.001	0.058	0.072	0.065	91.280%		
x		-0.010	-0.004	0.062	0.070	0.068	94.714%		
σ		0.003	0.005	0.013	0.006	0.003	5.311%		
%RSD		25.480	106.100	20.410	7.954	4.315	5.607		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	88.891%	46.310	974.700	985.300	0.000	49150.000	48210.000	47700.000
2	15:08:31	92.030%	48.190	1030.000	1044.000	0.000	50340.000	49600.000	48950.000
3	15:09:14	93.087%	46.980	1045.000	1067.000	0.000	50610.000	49880.000	49280.000
x		91.336%	47.160	1017.000	1032.000	0.000	50030.000	49230.000	48640.000
σ		2.182%	0.952	37.180	42.040	0.000	775.200	893.600	833.900
%RSD		2.390	2.020	3.656	4.073	0.000	1.549	1.815	1.714

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	1909.000	8751.000	0.000	49160.000	50620.000	49140.000	78.674%	974.500
2	15:08:31	1980.000	8914.000	0.000	50180.000	52310.000	50730.000	79.542%	1027.000
3	15:09:14	1967.000	8983.000	0.000	49790.000	51220.000	50390.000	81.207%	1019.000
x		1952.000	8883.000	0.000	49710.000	51380.000	50090.000	79.808%	1007.000
σ		37.570	119.200	0.000	515.800	855.100	838.600	1.287%	28.220
%RSD		1.925	1.342	0.000	1.038	1.664	1.674	1.613	2.803

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	508.400	202.700	506.400	995.800	1140.000	499.800	491.600	249.600
2	15:08:31	526.700	209.100	526.200	1033.000	1173.000	516.000	505.800	258.200
3	15:09:14	520.600	210.300	522.400	1023.000	1156.000	511.700	504.700	257.300
x		518.600	207.400	518.300	1017.000	1156.000	509.200	500.700	255.100
σ		9.338	4.103	10.500	19.200	16.890	8.410	7.882	4.764
%RSD		1.801	1.979	2.026	1.887	1.461	1.652	1.574	1.868

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	247.800	493.900	497.100	38.230	16.310	10.450	0.000	991.800
2	15:08:31	259.500	515.000	517.700	38.220	16.690	10.250	0.000	1024.000
3	15:09:14	258.800	508.500	512.400	39.690	16.170	9.997	0.000	1010.000
x		255.400	505.800	509.100	38.710	16.390	10.230	0.000	1009.000
σ		6.571	10.780	10.680	0.850	0.271	0.226	0.000	16.090
%RSD		2.573	2.131	2.098	2.196	1.652	2.210	0.000	1.595

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	81.648%	1013.000	1019.000	80.622%	51.220	51.380	50.860	45.430
2	15:08:31	82.582%	1058.000	1060.000	81.210%	53.680	53.010	53.700	48.240
3	15:09:14	85.030%	1044.000	1051.000	83.453%	52.650	52.330	52.680	47.450
x		83.087%	1038.000	1044.000	81.761%	52.520	52.240	52.420	47.040
σ		1.747%	22.850	21.380	1.494%	1.236	0.820	1.438	1.448
%RSD		2.102	2.200	2.048	1.827	2.354	1.569	2.743	3.078

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	81.807%	1980.000	495.900	496.000	1986.000	1986.000	87.294%	87.507%
2	15:08:31	83.795%	2043.000	514.500	512.100	2058.000	2051.000	87.895%	88.695%
3	15:09:14	86.869%	2018.000	502.000	500.600	2021.000	2013.000	90.902%	91.817%
x		84.157%	2014.000	504.100	502.900	2022.000	2017.000	88.697%	89.340%
σ		2.550%	31.470	9.474	8.285	35.650	32.570	1.933%	2.226%
%RSD		3.030	1.563	1.879	1.647	1.763	1.615	2.180	2.492

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:49	50.010	49.540	19.600	21.930	20.690	79.909%
2	15:08:31	51.830	52.190	20.620	22.650	21.490	81.207%
3	15:09:14	51.590	52.030	20.320	22.010	21.300	83.050%
x		51.140	51.250	20.180	22.190	21.160	81.389%
σ		0.986	1.488	0.525	0.395	0.422	1.578%
%RSD		1.927	2.903	2.601	1.780	1.996	1.939

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	83.750%	0.070	583.700	586.800	0.000	320200.000	29240.000	29180.000
2	15:16:42	87.936%	0.081	592.100	595.900	0.000	317900.000	28660.000	28950.000
3	15:17:26	89.908%	0.062	589.900	595.700	0.000	311800.000	28720.000	28650.000
x		87.198%	0.071	588.500	592.800	0.000	316600.000	28870.000	28920.000
σ		3.145%	0.009	4.364	5.217	0.000	4320.000	316.800	266.400
%RSD		3.607	12.830	0.742	0.880	0.000	1.364	1.097	0.921

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	4.869	7190.000	0.000	11910.000	191000.000	193000.000	72.439%	2.377
2	15:16:42	4.857	7097.000	0.000	11850.000	190300.000	192100.000	74.443%	2.206
3	15:17:26	4.667	6873.000	0.000	11490.000	188300.000	186800.000	75.868%	2.131
x		4.798	7053.000	0.000	11750.000	189900.000	190600.000	74.250%	2.238
σ		0.113	163.200	0.000	228.500	1379.000	3331.000	1.722%	0.126
%RSD		2.358	2.314	0.000	1.945	0.726	1.748	2.319	5.628

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	1.283	2.972	592.000	1280.000	1730.000	2.795	59.840	121.700
2	15:16:42	3.146	2.325	592.800	1292.000	1700.000	2.694	60.620	120.000
3	15:17:26	6.289	2.397	576.700	1256.000	1644.000	2.604	58.780	116.500
x		3.573	2.565	587.200	1276.000	1691.000	2.698	59.750	119.400
σ		2.530	0.354	9.065	18.410	43.760	0.095	0.925	2.657
%RSD		70.820	13.820	1.544	1.442	2.587	3.533	1.548	2.225

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	120.000	590.300	605.900	1.531	6.175	0.105	0.000	462.800
2	15:16:42	118.300	590.300	607.000	2.370	6.522	0.052	0.000	460.600
3	15:17:26	118.000	577.800	582.500	2.454	5.850	1.093	0.000	451.400
x		118.800	586.100	598.500	2.119	6.183	0.416	0.000	458.300
σ		1.043	7.247	13.810	0.510	0.336	0.586	0.000	6.050
%RSD		0.878	1.236	2.308	24.100	5.437	140.700	0.000	1.320

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	76.761%	4.216	3.986	74.187%	0.814	0.830	3.860	3.809
2	15:16:42	79.759%	4.127	4.167	77.002%	0.783	0.792	4.223	3.963
3	15:17:26	81.061%	3.858	3.960	78.076%	0.744	0.856	3.839	3.924
x		79.193%	4.067	4.037	76.422%	0.781	0.826	3.974	3.899
σ		2.205%	0.186	0.113	2.009%	0.035	0.032	0.216	0.080
%RSD		2.784	4.579	2.798	2.628	4.486	3.922	5.433	2.044

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	78.475%	16.330	3.915	4.011	416.400	415.500	81.945%	83.447%
2	15:16:42	81.504%	14.580	3.856	4.031	418.400	421.100	84.891%	86.633%
3	15:17:26	82.913%	12.160	4.016	3.902	409.600	405.500	88.553%	89.252%
x		80.964%	14.360	3.929	3.981	414.800	414.100	85.130%	86.444%
σ		2.267%	2.098	0.081	0.069	4.611	7.897	3.310%	2.907%
%RSD		2.801	14.610	2.070	1.743	1.112	1.907	3.889	3.363

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:59	0.088	0.111	1.890	1.914	1.941	74.637%
2	15:16:42	0.095	0.091	1.949	1.988	1.951	78.121%
3	15:17:26	0.042	0.071	1.884	1.911	1.874	80.692%
x		0.075	0.091	1.908	1.938	1.922	77.817%
σ		0.029	0.020	0.036	0.044	0.042	3.039%
%RSD		38.040	22.100	1.871	2.270	2.183	3.905

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	82.488%	0.038	564.100	564.300	0.000	304900.000	28380.000	28690.000
2	15:24:57	85.688%	0.068	569.200	580.200	0.000	304800.000	28280.000	28350.000
3	15:25:40	87.221%	0.066	572.500	586.300	0.000	303400.000	27730.000	28030.000
x		85.132%	0.057	568.600	577.000	0.000	304400.000	28130.000	28360.000
σ		2.415%	0.016	4.248	11.340	0.000	837.000	348.000	327.700
%RSD		2.836	28.620	0.747	1.966	0.000	0.275	1.237	1.156

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	4.665	6960.000	0.000	11360.000	183800.000	186800.000	70.215%	2.490
2	15:24:57	4.854	6896.000	0.000	11310.000	182300.000	185100.000	72.013%	1.495
3	15:25:40	4.282	6874.000	0.000	11290.000	186600.000	184800.000	72.376%	1.986
x		4.600	6910.000	0.000	11320.000	184200.000	185600.000	71.535%	1.990
σ		0.292	44.550	0.000	38.380	2147.000	1065.000	1.157%	0.497
%RSD		6.341	0.645	0.000	0.339	1.165	0.574	1.617	24.980

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	4.301	3.240	558.200	1217.000	1659.000	2.623	57.090	113.600
2	15:24:57	2.821	2.327	567.400	1233.000	1644.000	2.620	57.390	112.900
3	15:25:40	4.996	2.319	567.600	1225.000	1615.000	2.528	57.240	113.400
x		4.039	2.629	564.400	1225.000	1639.000	2.590	57.240	113.300
σ		1.111	0.529	5.396	8.074	22.120	0.054	0.148	0.385
%RSD		27.500	20.140	0.956	0.659	1.349	2.077	0.259	0.340

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	113.300	573.700	586.800	1.725	4.297	0.573	0.000	445.600
2	15:24:57	111.000	581.400	595.900	1.627	4.634	-0.209	0.000	449.000
3	15:25:40	111.600	576.000	589.800	1.482	5.081	0.207	0.000	449.100
x		112.000	577.000	590.800	1.611	4.671	0.190	0.000	447.900
σ		1.177	3.935	4.645	0.122	0.393	0.391	0.000	1.999
%RSD		1.051	0.682	0.786	7.590	8.423	205.400	0.000	0.446

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	74.503%	3.944	3.405	71.990%	0.759	0.803	3.949	3.703
2	15:24:57	76.965%	3.273	3.267	74.130%	0.797	0.756	3.643	3.751
3	15:25:40	77.685%	3.392	3.250	75.627%	0.717	0.811	3.838	4.026
x		76.384%	3.536	3.307	73.916%	0.758	0.790	3.810	3.827
σ		1.669%	0.358	0.085	1.828%	0.040	0.029	0.155	0.174
%RSD		2.185	10.120	2.566	2.474	5.308	3.713	4.068	4.555

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	76.129%	8.719	3.773	3.769	398.700	396.900	80.244%	80.990%
2	15:24:57	78.584%	8.269	3.832	3.829	403.000	402.200	84.067%	85.081%
3	15:25:40	79.768%	7.953	3.982	3.941	406.400	399.300	84.877%	86.026%
x		78.160%	8.314	3.863	3.846	402.700	399.500	83.063%	84.032%
σ		1.856%	0.385	0.108	0.087	3.850	2.649	2.474%	2.677%
%RSD		2.375	4.631	2.793	2.270	0.956	0.663	2.979	3.186

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:12	0.033	0.028	1.939	1.826	1.875	72.540%
2	15:24:57	0.028	0.027	1.909	1.807	1.879	77.090%
3	15:25:40	0.036	0.031	1.799	1.929	1.867	77.796%
x		0.033	0.029	1.882	1.854	1.874	75.809%
σ		0.004	0.002	0.074	0.065	0.006	2.853%
%RSD		12.300	7.879	3.935	3.530	0.318	3.763

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	83.746%	0.021	1109.000	1106.000	0.000	53400.000	34830.000	34880.000
2	15:33:09	86.944%	0.018	1158.000	1142.000	0.000	54340.000	35160.000	35110.000
3	15:33:52	88.367%	0.080	1165.000	1147.000	0.000	54090.000	35040.000	34990.000
x		86.352%	0.040	1144.000	1132.000	0.000	53950.000	35010.000	34990.000
σ		2.366%	0.035	31.040	22.330	0.000	486.000	166.100	118.300
%RSD		2.740	88.130	2.713	1.973	0.000	0.901	0.474	0.338

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	13.690	10490.000	0.000	18780.000	204600.000	208000.000	70.108%	4.883
2	15:33:09	14.050	10490.000	0.000	19150.000	208000.000	211200.000	72.414%	5.861
3	15:33:52	14.040	10350.000	0.000	18820.000	208200.000	209500.000	73.241%	5.129
x		13.930	10440.000	0.000	18920.000	207000.000	209600.000	71.921%	5.291
σ		0.206	80.500	0.000	202.500	2022.000	1616.000	1.624%	0.509
%RSD		1.480	0.771	0.000	1.071	0.977	0.771	2.258	9.615

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	4.604	3.370	3627.000	17250.000	17590.000	1.323	55.940	1.929
2	15:33:09	2.626	2.698	3632.000	17310.000	17670.000	1.458	55.870	2.168
3	15:33:52	4.465	2.513	3652.000	17330.000	17790.000	1.478	58.020	2.160
x		3.898	2.860	3637.000	17300.000	17680.000	1.420	56.610	2.085
σ		1.104	0.451	13.200	42.980	96.760	0.085	1.220	0.136
%RSD		28.320	15.770	0.363	0.249	0.547	5.964	2.156	6.513

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	1.354	4.134	3.426	6.910	4.282	0.132	0.000	851.100
2	15:33:09	1.494	3.888	3.305	6.782	5.980	0.164	0.000	855.300
3	15:33:52	1.629	4.012	4.284	6.780	7.161	0.371	0.000	865.600
x		1.492	4.011	3.672	6.824	5.808	0.222	0.000	857.300
σ		0.137	0.123	0.534	0.075	1.447	0.130	0.000	7.500
%RSD		9.211	3.075	14.540	1.092	24.920	58.420	0.000	0.875

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	74.275%	0.609	0.388	73.337%	0.017	0.006	-0.197	-0.116
2	15:33:09	77.979%	0.670	0.332	76.433%	0.011	0.024	-0.000	-0.052
3	15:33:52	77.953%	0.608	0.301	77.175%	0.015	0.002	-0.115	-0.025
x		76.736%	0.629	0.340	75.649%	0.014	0.011	-0.104	-0.064
σ		2.131%	0.036	0.044	2.036%	0.003	0.012	0.099	0.047
%RSD		2.777	5.657	13.010	2.691	23.070	110.500	95.160	72.420

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	76.020%	6.418	0.140	0.143	895.000	888.700	80.042%	80.985%
2	15:33:09	80.370%	6.458	0.098	0.101	903.100	902.500	84.069%	85.401%
3	15:33:52	81.431%	6.428	0.105	0.132	896.700	897.900	86.233%	87.069%
x		79.274%	6.435	0.114	0.125	898.300	896.400	83.448%	84.485%
σ		2.868%	0.021	0.022	0.022	4.254	7.019	3.142%	3.143%
%RSD		3.617	0.328	19.720	17.560	0.474	0.783	3.765	3.721

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:26	0.011	0.010	0.372	0.392	0.378	73.583%
2	15:33:09	0.001	0.007	0.406	0.363	0.372	78.364%
3	15:33:52	-0.006	0.003	0.395	0.361	0.379	80.784%
x		0.002	0.006	0.391	0.372	0.376	77.577%
σ		0.009	0.004	0.018	0.017	0.004	3.664%
%RSD		439.400	56.620	4.529	4.586	1.081	4.723

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	80.276%	-0.046	890.200	885.800	0.000	30030.000	28710.000	27860.000
2	15:41:22	83.787%	0.054	918.200	899.700	0.000	30010.000	28650.000	28530.000
3	15:42:05	83.440%	0.004	934.900	929.400	0.000	30460.000	29060.000	29040.000
x		82.501%	0.004	914.400	905.000	0.000	30170.000	28810.000	28480.000
σ		1.935%	0.050	22.600	22.260	0.000	251.900	222.500	589.400
%RSD		2.345	1164.000	2.471	2.460	0.000	0.835	0.772	2.070

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	14.400	6544.000	0.000	12910.000	284200.000	289600.000	66.891%	4.578
2	15:41:22	14.030	6488.000	0.000	12950.000	288200.000	287200.000	69.181%	3.941
3	15:42:05	14.790	6562.000	0.000	12880.000	288400.000	288600.000	69.448%	4.035
x		14.410	6531.000	0.000	12910.000	286900.000	288500.000	68.507%	4.185
σ		0.376	39.050	0.000	33.650	2399.000	1191.000	1.405%	0.344
%RSD		2.608	0.598	0.000	0.261	0.836	0.413	2.051	8.211

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	3.813	2.353	1121.000	2423.000	3077.000	4.067	15.590	33.810
2	15:41:22	3.541	1.692	1124.000	2431.000	3112.000	4.153	15.050	34.240
3	15:42:05	2.352	1.708	1143.000	2461.000	3075.000	4.280	15.680	35.120
x		3.235	1.918	1129.000	2438.000	3088.000	4.167	15.440	34.390
σ		0.777	0.377	12.200	20.310	20.750	0.107	0.339	0.668
%RSD		24.010	19.660	1.080	0.833	0.672	2.574	2.198	1.942

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	34.660	721.100	740.100	4.190	4.294	0.347	0.000	1056.000
2	15:41:22	34.400	737.900	752.500	3.756	4.688	1.789	0.000	1075.000
3	15:42:05	34.710	749.100	767.100	3.760	4.730	0.189	0.000	1084.000
x		34.590	736.000	753.200	3.902	4.570	0.775	0.000	1071.000
σ		0.167	14.090	13.510	0.250	0.240	0.882	0.000	14.250
%RSD		0.483	1.914	1.793	6.394	5.263	113.800	0.000	1.330

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	71.918%	1.240	1.013	70.233%	0.183	0.159	2.673	2.698
2	15:41:22	74.178%	1.154	1.070	72.802%	0.168	0.196	2.347	2.452
3	15:42:05	75.426%	1.192	1.072	75.299%	0.176	0.185	2.647	2.602
x		73.841%	1.195	1.052	72.778%	0.176	0.180	2.556	2.584
σ		1.778%	0.043	0.033	2.533%	0.008	0.019	0.181	0.124
%RSD		2.408	3.581	3.157	3.480	4.521	10.650	7.085	4.794

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	73.075%	5.213	0.587	0.575	321.200	319.000	78.515%	79.518%
2	15:41:22	77.248%	5.508	0.551	0.527	324.900	320.600	82.245%	83.070%
3	15:42:05	78.475%	5.337	0.581	0.614	320.200	320.300	84.448%	84.212%
x		76.266%	5.353	0.573	0.572	322.100	320.000	81.736%	82.267%
σ		2.831%	0.148	0.019	0.044	2.468	0.848	2.999%	2.448%
%RSD		3.712	2.767	3.343	7.651	0.766	0.265	3.669	2.976

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:39	0.100	0.096	5.024	5.205	5.168	72.947%
2	15:41:22	0.140	0.089	5.221	5.475	5.323	75.227%
3	15:42:05	0.090	0.110	5.492	5.108	5.284	76.782%
x		0.110	0.098	5.245	5.263	5.258	74.985%
σ		0.026	0.011	0.235	0.190	0.081	1.929%
%RSD		24.050	11.000	4.477	3.616	1.537	2.572

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	83.854%	-0.012	326.200	320.300	0.000	48170.000	50030.000	49500.000
2	15:49:36	88.701%	0.048	317.700	323.700	0.000	47240.000	48690.000	48030.000
3	15:50:19	89.943%	0.109	336.500	333.000	0.000	48670.000	50140.000	49710.000
x		87.499%	0.048	326.800	325.700	0.000	48030.000	49620.000	49080.000
σ		3.217%	0.061	9.417	6.578	0.000	722.100	811.200	914.200
%RSD		3.677	125.700	2.882	2.020	0.000	1.504	1.635	1.863

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	6.368	4693.000	0.000	13950.000	132100.000	132600.000	69.893%	0.953
2	15:49:36	6.031	4538.000	0.000	13470.000	128800.000	128500.000	73.729%	1.180
3	15:50:19	6.506	4677.000	0.000	13990.000	133800.000	134600.000	73.211%	1.189
x		6.302	4636.000	0.000	13800.000	131600.000	131900.000	72.278%	1.107
σ		0.244	85.670	0.000	288.400	2529.000	3077.000	2.081%	0.134
%RSD		3.878	1.848	0.000	2.090	1.922	2.333	2.880	12.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	1.918	4.194	15.370	193.600	461.800	0.306	5.345	1.454
2	15:49:36	1.909	3.496	15.350	191.700	447.100	0.281	4.475	1.676
3	15:50:19	3.186	3.602	15.590	198.700	467.600	0.247	4.431	1.709
x		2.338	3.764	15.440	194.700	458.800	0.278	4.750	1.613
σ		0.735	0.376	0.132	3.644	10.610	0.029	0.515	0.139
%RSD		31.420	9.981	0.857	1.872	2.313	10.520	10.850	8.608

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	1.707	2.731	3.361	1.939	2.004	0.155	0.000	655.700
2	15:49:36	1.767	2.956	2.845	1.990	1.429	1.092	0.000	644.200
3	15:50:19	1.878	2.724	3.281	1.300	1.980	0.437	0.000	674.800
x		1.784	2.804	3.162	1.743	1.804	0.561	0.000	658.200
σ		0.087	0.132	0.278	0.384	0.325	0.481	0.000	15.440
%RSD		4.851	4.704	8.776	22.040	18.010	85.620	0.000	2.345

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	74.395%	0.630	0.549	73.211%	-0.007	-0.004	-0.125	-0.119
2	15:49:36	78.700%	0.637	0.500	77.090%	0.006	0.002	-0.074	-0.075
3	15:50:19	78.412%	0.571	0.579	77.576%	0.008	0.014	-0.168	-0.112
x		77.169%	0.613	0.543	75.959%	0.002	0.004	-0.123	-0.102
σ		2.407%	0.036	0.040	2.392%	0.008	0.009	0.047	0.024
%RSD		3.119	5.910	7.289	3.149	368.000	238.700	38.330	23.040

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	76.707%	4.219	0.042	0.074	165.500	164.900	82.450%	82.626%
2	15:49:36	81.260%	4.232	0.048	0.075	163.200	163.800	87.413%	87.325%
3	15:50:19	81.209%	4.637	0.084	0.067	173.200	170.200	87.569%	88.009%
x		79.726%	4.363	0.058	0.072	167.300	166.300	85.811%	85.986%
σ		2.614%	0.237	0.023	0.005	5.214	3.379	2.911%	2.931%
%RSD		3.279	5.441	39.630	6.306	3.117	2.032	3.393	3.408

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:48:53	-0.003	-0.006	0.080	0.093	0.081	75.810%
2	15:49:36	-0.012	-0.009	0.066	0.094	0.079	79.463%
3	15:50:19	-0.003	-0.008	0.096	0.070	0.072	78.959%
x		-0.006	-0.008	0.081	0.086	0.077	78.078%
σ		0.005	0.002	0.015	0.014	0.005	1.980%
%RSD		86.770	22.370	18.210	15.860	6.276	2.536

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	84.048%	0.020	326.700	323.600	0.000	13530.000	29130.000	30240.000
2	15:57:49	87.632%	0.034	333.600	335.600	0.000	13620.000	30110.000	30340.000
3	15:58:32	89.938%	0.063	328.200	322.500	0.000	13150.000	27740.000	29240.000
x		87.206%	0.039	329.500	327.200	0.000	13430.000	28990.000	29940.000
σ		2.968%	0.022	3.619	7.247	0.000	248.600	1189.000	606.900
%RSD		3.404	55.330	1.098	2.215	0.000	1.851	4.103	2.027

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	7.579	4051.000	0.000	5240.000	109600.000	107500.000	70.622%	1.417
2	15:57:49	7.370	4085.000	0.000	5310.000	111900.000	109700.000	71.949%	0.959
3	15:58:32	7.165	3903.000	0.000	5070.000	107000.000	103500.000	73.735%	0.970
x		7.371	4013.000	0.000	5207.000	109500.000	106900.000	72.102%	1.115
σ		0.207	96.590	0.000	123.300	2459.000	3136.000	1.562%	0.261
%RSD		2.804	2.407	0.000	2.367	2.246	2.933	2.167	23.420

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	3.598	3.477	35.500	387.400	609.100	0.088	1.105	0.677
2	15:57:49	3.957	3.110	35.630	391.300	621.800	0.142	0.997	0.776
3	15:58:32	3.420	2.872	34.160	377.900	581.700	0.154	0.784	0.738
x		3.659	3.153	35.090	385.600	604.200	0.128	0.962	0.730
σ		0.274	0.305	0.814	6.898	20.500	0.035	0.163	0.050
%RSD		7.481	9.675	2.321	1.789	3.393	27.200	16.980	6.836

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	0.633	1.642	2.405	-0.240	0.564	-0.786	0.000	340.800
2	15:57:49	0.656	1.630	1.750	0.229	0.514	-0.147	0.000	343.400
3	15:58:32	0.751	1.267	1.437	-0.149	0.696	-0.631	0.000	334.300
x		0.680	1.513	1.864	-0.053	0.592	-0.521	0.000	339.500
σ		0.063	0.213	0.494	0.249	0.094	0.333	0.000	4.668
%RSD		9.229	14.070	26.510	466.800	15.910	63.880	0.000	1.375

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	75.120%	1.502	1.639	74.507%	-0.005	-0.009	0.032	-0.013
2	15:57:49	78.211%	1.745	1.594	77.082%	-0.001	0.002	-0.009	-0.016
3	15:58:32	80.009%	1.478	1.569	79.656%	-0.013	0.004	-0.074	-0.061
x		77.780%	1.575	1.601	77.082%	-0.006	-0.001	-0.017	-0.030
σ		2.473%	0.148	0.035	2.574%	0.006	0.007	0.053	0.027
%RSD		3.179	9.389	2.217	3.340	95.570	580.400	314.000	89.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	77.532%	3.318	0.057	0.058	145.400	145.000	82.794%	83.275%
2	15:57:49	80.951%	3.569	0.030	0.065	143.900	146.200	85.948%	86.761%
3	15:58:32	83.689%	3.424	0.021	0.041	140.400	138.700	89.779%	90.085%
x		80.724%	3.437	0.036	0.054	143.200	143.300	86.174%	86.707%
σ		3.085%	0.126	0.019	0.012	2.590	4.031	3.498%	3.405%
%RSD		3.822	3.668	51.580	22.000	1.808	2.813	4.059	3.927

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:06	-0.014	-0.010	1.320	1.480	1.396	75.647%
2	15:57:49	-0.010	-0.012	1.489	1.348	1.403	79.918%
3	15:58:32	-0.013	-0.008	1.352	1.335	1.345	82.609%
x		-0.013	-0.010	1.387	1.388	1.381	79.391%
σ		0.002	0.002	0.090	0.080	0.032	3.511%
%RSD		15.760	20.610	6.473	5.759	2.302	4.422

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	87.014%	-0.030	433.000	425.300	0.000	38350.000	47220.000	46880.000
2	16:06:03	92.071%	0.030	412.000	407.900	0.000	36230.000	44600.000	44070.000
3	16:06:46	91.374%	-0.015	438.300	435.900	0.000	37740.000	46210.000	45940.000
x		90.153%	-0.005	427.800	423.000	0.000	37440.000	46010.000	45630.000
σ		2.741%	0.031	13.870	14.140	0.000	1089.000	1322.000	1431.000
%RSD		3.040	636.700	3.243	3.342	0.000	2.908	2.874	3.137

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	37.810	3434.000	0.000	8917.000	105700.000	101400.000	70.674%	0.978
2	16:06:03	38.610	3202.000	0.000	8414.000	100200.000	95960.000	75.268%	1.121
3	16:06:46	41.520	3348.000	0.000	8740.000	105400.000	100700.000	74.559%	1.166
x		39.310	3328.000	0.000	8690.000	103700.000	99360.000	73.500%	1.088
σ		1.952	117.700	0.000	255.300	3106.000	2959.000	2.473%	0.098
%RSD		4.967	3.536	0.000	2.938	2.994	2.978	3.365	9.025

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	4.620	23.510	31.850	710.600	930.100	1.926	20.910	1.787
2	16:06:03	5.903	21.690	30.310	665.900	888.900	1.657	19.700	1.726
3	16:06:46	0.462	22.840	31.940	696.700	893.700	1.719	20.260	1.868
x		3.662	22.680	31.360	691.100	904.200	1.767	20.290	1.794
σ		2.845	0.922	0.918	22.890	22.520	0.141	0.602	0.071
%RSD		77.690	4.067	2.926	3.312	2.490	7.985	2.969	3.970

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	1.656	9.787	8.691	1.182	0.404	0.190	0.000	482.200
2	16:06:03	1.710	9.714	10.020	0.276	-0.086	0.149	0.000	458.100
3	16:06:46	1.656	9.659	10.140	2.219	0.579	-0.210	0.000	475.000
x		1.674	9.720	9.617	1.226	0.299	0.043	0.000	471.800
σ		0.031	0.065	0.804	0.972	0.345	0.220	0.000	12.370
%RSD		1.861	0.665	8.359	79.290	115.400	515.700	0.000	2.622

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	75.386%	0.980	1.000	74.611%	0.023	0.000	-0.002	-0.032
2	16:06:03	80.272%	0.956	0.943	79.796%	-0.006	0.015	-0.092	-0.001
3	16:06:46	80.503%	0.932	0.946	79.236%	0.009	0.011	-0.115	-0.056
x		78.720%	0.956	0.963	77.881%	0.009	0.009	-0.070	-0.030
σ		2.890%	0.024	0.032	2.846%	0.015	0.008	0.059	0.028
%RSD		3.671	2.471	3.313	3.654	167.500	87.040	85.080	93.430

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	78.145%	3.608	0.229	0.251	157.600	158.800	82.275%	82.833%
2	16:06:03	83.480%	3.808	0.251	0.236	154.500	151.100	89.325%	89.252%
3	16:06:46	83.506%	3.696	0.235	0.283	157.700	157.100	89.456%	89.421%
x		81.710%	3.704	0.238	0.257	156.600	155.700	87.019%	87.169%
σ		3.088%	0.101	0.011	0.024	1.807	4.050	4.109%	3.756%
%RSD		3.779	2.712	4.683	9.400	1.154	2.601	4.722	4.309

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-0.013	-0.014	0.253	0.258	0.252	75.513%
2	16:06:03	-0.016	-0.009	0.221	0.200	0.226	82.275%
3	16:06:46	-0.011	-0.009	0.253	0.228	0.240	81.096%
x		-0.013	-0.011	0.242	0.229	0.239	79.628%
σ		0.003	0.003	0.018	0.029	0.013	3.612%
%RSD		21.140	23.900	7.525	12.620	5.477	4.536

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	88.128%	0.033	808.400	827.800	0.000	35760.000	179300.000	178000.000
2	16:14:17	96.600%	0.055	815.000	800.100	0.000	34250.000	172500.000	171300.000
3	16:15:00	98.024%	0.054	828.200	820.100	0.000	34910.000	174300.000	171800.000
x		94.251%	0.048	817.200	816.000	0.000	34970.000	175400.000	173700.000
σ		5.350%	0.012	10.070	14.290	0.000	755.800	3540.000	3700.000
%RSD		5.676	26.080	1.232	1.752	0.000	2.161	2.019	2.130

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	11.000	6597.000	0.000	9265.000	135100.000	135300.000	72.926%	1.229
2	16:14:17	10.240	6370.000	0.000	9008.000	132300.000	132800.000	76.893%	1.164
3	16:15:00	9.824	6400.000	0.000	9037.000	133100.000	133100.000	78.547%	1.040
x		10.350	6456.000	0.000	9104.000	133500.000	133700.000	76.122%	1.144
σ		0.597	123.000	0.000	140.600	1430.000	1375.000	2.889%	0.096
%RSD		5.770	1.905	0.000	1.545	1.071	1.029	3.795	8.411

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	2.508	7.000	151.600	615.600	896.300	2.364	35.900	4.371
2	16:14:17	3.809	7.201	150.500	607.000	872.500	2.279	34.730	4.542
3	16:15:00	0.787	6.986	151.100	609.100	864.300	2.339	33.960	4.216
x		2.368	7.062	151.000	610.600	877.700	2.327	34.860	4.376
σ		1.516	0.121	0.568	4.445	16.650	0.044	0.979	0.163
%RSD		64.000	1.710	0.376	0.728	1.897	1.877	2.808	3.728

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	4.449	156.400	160.500	3.451	1.978	2.353	0.000	306.300
2	16:14:17	4.200	154.200	159.200	2.626	2.714	1.924	0.000	307.200
3	16:15:00	4.497	158.100	157.800	4.193	2.421	1.626	0.000	307.000
x		4.382	156.200	159.200	3.423	2.371	1.968	0.000	306.800
σ		0.159	1.943	1.341	0.784	0.370	0.365	0.000	0.451
%RSD		3.637	1.243	0.843	22.910	15.620	18.560	0.000	0.147

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	77.478%	159.900	162.300	75.714%	0.098	0.144	0.013	-0.083
2	16:14:17	80.946%	158.800	163.500	79.933%	0.078	0.098	0.022	0.061
3	16:15:00	83.419%	159.300	162.700	81.950%	0.132	0.072	-0.113	-0.024
x		80.615%	159.300	162.800	79.199%	0.103	0.105	-0.026	-0.015
σ		2.984%	0.544	0.608	3.182%	0.027	0.036	0.076	0.072
%RSD		3.702	0.341	0.374	4.018	26.420	34.610	291.100	467.400

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	78.359%	3.424	22.830	22.850	82.020	82.600	83.735%	83.290%
2	16:14:17	83.597%	3.544	22.870	22.480	82.640	82.750	88.926%	89.820%
3	16:15:00	85.825%	3.547	22.850	22.530	86.680	82.770	91.372%	92.461%
x		82.594%	3.505	22.850	22.620	83.780	82.710	88.011%	88.524%
σ		3.833%	0.070	0.017	0.202	2.530	0.091	3.900%	4.721%
%RSD		4.641	2.002	0.076	0.893	3.020	0.110	4.431	5.333

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:34	-0.004	-0.008	0.244	0.208	0.229	75.425%
2	16:14:17	-0.012	-0.010	0.194	0.255	0.228	80.949%
3	16:15:00	-0.005	-0.007	0.187	0.204	0.222	82.840%
x		-0.007	-0.008	0.208	0.222	0.226	79.738%
σ		0.004	0.002	0.031	0.028	0.004	3.853%
%RSD		59.410	20.990	15.100	12.690	1.767	4.832

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:48	75.727%	96.370	109.900	106.600	0.000	49710.000	49830.000	49880.000
2	16:22:31	76.522%	96.350	108.300	109.400	0.000	50020.000	50360.000	50400.000
3	16:23:14	76.651%	97.640	107.100	108.700	0.000	50190.000	50120.000	50050.000
x		76.300%	96.789%	108.460%	108.249%	0.000	99.952%	100.201%	100.215%
σ		0.500%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.656	0.765	1.317	1.330	0.000	0.484	0.530	0.525
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:48	504.500	4758.000	0.000	50640.000	51120.000	49890.000	68.887%	101.500
2	16:22:31	512.100	4774.000	0.000	51210.000	52110.000	50320.000	69.078%	102.900
3	16:23:14	509.200	4761.000	0.000	51170.000	51550.000	50800.000	69.812%	103.500
x		101.713%	95.293%	0.000	102.015%	103.192%	100.673%	69.259%	102.624%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.489%	n/a
%RSD		0.753	0.174	0.000	0.622	0.963	0.908	0.706	0.966
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:48	103.200	104.000	513.900	26080.000	25820.000	104.800	103.900	104.900
2	16:22:31	106.500	106.000	525.700	26460.000	26230.000	106.800	104.200	105.900
3	16:23:14	103.900	104.200	524.200	26230.000	26390.000	106.100	106.600	107.200
x		104.520%	104.732%	104.256%	105.026%	104.587%	105.884%	104.885%	105.964%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.648	1.082	1.231	0.733	1.138	0.939	1.404	1.095
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:48	107.100	101.200	101.500	100.500	100.400	101.400	0.000	102.300
2	16:22:31	107.900	102.900	104.800	102.700	103.300	103.700	0.000	101.700
3	16:23:14	106.400	104.900	104.300	101.700	100.700	103.200	0.000	103.900
x		107.145%	102.998%	103.550%	101.617%	101.444%	102.750%	0.000	102.655%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.672	1.767	1.702	1.050	1.572	1.198	0.000	1.114
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:48	71.041%	100.900	100.000	72.244%	101.200	102.700	102.000	101.900
2	16:22:31	72.898%	105.200	102.900	73.572%	103.000	103.600	103.100	103.200
3	16:23:14	73.473%	104.800	104.300	74.594%	104.800	103.500	104.800	104.200
x		72.471%	103.668%	102.411%	73.470%	102.985%	103.275%	103.318%	103.075%
σ		1.271%	n/a	n/a	1.178%	n/a	n/a	n/a	n/a
%RSD		1.754	2.279	2.126	1.604	1.732	0.503	1.370	1.099
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:48	72.354%	100.100	99.730	99.890	99.720	100.500	74.226%	73.973%
2	16:22:31	74.644%	100.600	100.100	100.500	101.300	101.700	76.104%	76.395%
3	16:23:14	74.309%	101.100	102.500	102.400	105.500	102.100	76.692%	77.849%
x		73.769%	100.602%	100.789%	100.936%	102.186%	101.442%	75.674%	76.072%
σ		1.237%	n/a	n/a	n/a	n/a	n/a	1.288%	1.958%
%RSD		1.677	0.513	1.515	1.279	2.928	0.792	1.702	2.574
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:21:48	102.900	102.300	102.700	103.000	102.500	71.432%		
2	16:22:31	104.000	103.500	103.800	104.300	104.000	72.824%		
3	16:23:14	104.200	104.500	105.600	105.700	105.700	73.810%		
x		103.697%	103.445%	104.025%	104.349%	104.061%	72.688%		
σ		n/a	n/a	n/a	n/a	n/a	1.195%		
%RSD		0.695	1.087	1.436	1.297	1.509	1.644		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:04	115.027%	0.003	3.863	2.959	0.000	49.440	0.384	0.327
2	16:30:47	116.419%	-0.021	1.906	3.453	0.000	46.690	-0.523	0.142
3	16:31:30	116.725%	-0.009	2.399	2.980	0.000	45.340	0.050	0.334
x		116.057%	-0.009	2.723	3.131	0.000	47.160	-0.029	0.268
σ		0.905%	0.012	1.018	0.279	0.000	2.092	0.459	0.109
%RSD		0.780	136.800	37.390	8.913	0.000	4.436	1557.000	40.760
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:04	-0.264	-243.400	0.000	-78.130	-9.597	-33.260	82.266%	0.020
2	16:30:47	-0.364	-240.300	0.000	-78.050	-0.232	-40.090	82.330%	0.083
3	16:31:30	-0.397	-246.600	0.000	-81.970	-6.536	-46.200	84.011%	0.080
x		-0.342	-243.400	0.000	-79.380	-5.455	-39.850	82.869%	0.061
σ		0.069	3.165	0.000	2.239	4.775	6.471	0.989%	0.036
%RSD		20.200	1.300	0.000	2.821	87.540	16.240	1.194	58.310
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:04	0.560	0.154	0.192	-8.105	-1.293	-0.026	0.192	0.058
2	16:30:47	0.753	0.143	0.177	-9.147	-1.872	-0.028	0.015	-0.027
3	16:31:30	0.897	0.208	0.160	-9.827	-5.722	-0.022	0.175	0.008
x		0.737	0.168	0.176	-9.026	-2.963	-0.025	0.127	0.013
σ		0.169	0.035	0.016	0.867	2.407	0.003	0.098	0.043
%RSD		22.990	20.750	9.016	9.609	81.260	12.140	76.560	330.400
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:04	0.028	-0.918	-0.821	-0.407	-1.264	-1.501	0.000	-0.014
2	16:30:47	0.002	-0.930	-1.004	-0.311	-1.565	-0.779	0.000	-0.003
3	16:31:30	-0.001	-1.093	-0.856	-0.075	-1.369	-1.959	0.000	-0.017
x		0.010	-0.980	-0.893	-0.264	-1.399	-1.413	0.000	-0.011
σ		0.016	0.098	0.097	0.171	0.152	0.595	0.000	0.008
%RSD		164.300	9.990	10.910	64.730	10.880	42.110	0.000	68.090
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:04	81.258%	0.344	0.288	83.360%	-0.007	0.006	-0.025	-0.024
2	16:30:47	81.649%	0.306	0.352	83.114%	-0.007	-0.006	-0.090	-0.056
3	16:31:30	82.779%	0.251	0.341	84.830%	0.001	-0.004	-0.092	-0.058
x		81.895%	0.301	0.327	83.768%	-0.004	-0.001	-0.069	-0.046
σ		0.790%	0.047	0.034	0.928%	0.005	0.006	0.038	0.019
%RSD		0.964	15.660	10.450	1.108	116.200	452.800	55.510	42.030
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:04	82.230%	0.097	-0.004	-0.016	-0.015	0.006	85.511%	85.663%
2	16:30:47	83.415%	0.061	-0.025	0.000	-0.003	-0.001	85.859%	85.764%
3	16:31:30	85.209%	0.084	-0.016	-0.034	-0.015	-0.001	85.393%	87.395%
x		83.618%	0.081	-0.015	-0.017	-0.011	0.001	85.588%	86.274%
σ		1.500%	0.018	0.010	0.017	0.007	0.004	0.242%	0.972%
%RSD		1.794	22.190	68.450	102.300	62.310	272.800	0.283	1.127
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:30:04	-0.007	-0.004	0.079	0.098	0.091	83.168%		
2	16:30:47	-0.009	-0.009	0.101	0.065	0.096	82.905%		
3	16:31:30	-0.016	-0.010	0.070	0.099	0.086	85.323%		
x		-0.011	-0.008	0.083	0.087	0.091	83.799%		
σ		0.005	0.003	0.016	0.019	0.005	1.327%		
%RSD		45.320	42.950	18.980	22.210	5.416	1.583		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	78.245%	0.025	496.800	498.900	0.000	65850.000	31480.000	33570.000
2	16:35:38	83.452%	0.004	492.400	495.600	0.000	65850.000	33410.000	33390.000
3	16:36:21	84.936%	0.003	494.700	513.800	0.000	66840.000	34000.000	33760.000
x		82.211%	0.011	494.600	502.800	0.000	66180.000	32970.000	33570.000
σ		3.514%	0.012	2.231	9.721	0.000	572.100	1320.000	183.500
%RSD		4.274	112.400	0.451	1.933	0.000	0.865	4.004	0.547

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	6.638	6843.000	0.000	5652.000	105000.000	103100.000	68.348%	1.390
2	16:35:38	6.741	6813.000	0.000	5610.000	105800.000	103800.000	71.105%	1.479
3	16:36:21	7.422	6819.000	0.000	5655.000	106500.000	105000.000	72.218%	1.670
x		6.934	6825.000	0.000	5639.000	105800.000	104000.000	70.557%	1.513
σ		0.426	15.770	0.000	25.020	722.800	966.100	1.993%	0.143
%RSD		6.149	0.231	0.000	0.444	0.683	0.929	2.824	9.434

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	5.204	15.040	666.500	2622.000	2859.000	0.590	7.275	1.552
2	16:35:38	3.653	14.260	665.600	2544.000	2834.000	0.568	7.063	1.733
3	16:36:21	2.864	14.070	672.100	2613.000	2826.000	0.528	7.278	1.613
x		3.907	14.450	668.100	2593.000	2840.000	0.562	7.205	1.633
σ		1.190	0.513	3.551	42.570	16.960	0.031	0.124	0.092
%RSD		30.460	3.551	0.532	1.642	0.597	5.579	1.714	5.640

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	1.404	4.186	5.135	2.174	-0.177	-0.725	0.000	379.000
2	16:35:38	1.732	4.740	4.843	-0.179	0.553	0.627	0.000	383.600
3	16:36:21	1.569	4.647	5.298	-0.101	-0.021	-1.069	0.000	387.200
x		1.568	4.524	5.092	0.631	0.119	-0.389	0.000	383.300
σ		0.164	0.297	0.231	1.336	0.385	0.896	0.000	4.136
%RSD		10.480	6.564	4.530	211.700	324.200	230.400	0.000	1.079

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	72.415%	11.760	11.780	71.888%	0.018	-0.007	-0.105	-0.024
2	16:35:38	75.529%	12.100	11.680	75.318%	0.009	0.007	-0.054	-0.028
3	16:36:21	77.180%	12.010	12.250	76.822%	-0.003	0.014	-0.086	-0.059
x		75.041%	11.960	11.910	74.676%	0.008	0.005	-0.082	-0.037
σ		2.420%	0.176	0.306	2.529%	0.011	0.011	0.026	0.019
%RSD		3.224	1.476	2.569	3.386	135.100	210.200	31.280	51.460

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	75.228%	3.019	0.075	0.086	409.500	401.700	79.436%	80.187%
2	16:35:38	78.836%	3.050	0.058	0.085	408.800	406.600	84.090%	84.944%
3	16:36:21	80.087%	3.008	0.063	0.060	418.200	410.700	85.677%	86.541%
x		78.050%	3.026	0.066	0.077	412.100	406.300	83.068%	83.890%
σ		2.523%	0.022	0.009	0.015	5.219	4.499	3.243%	3.305%
%RSD		3.233	0.737	13.530	19.240	1.266	1.107	3.905	3.940

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:55	-0.005	-0.011	0.359	0.345	0.328	74.771%
2	16:35:38	-0.007	-0.010	0.361	0.305	0.341	77.043%
3	16:36:21	-0.010	-0.009	0.325	0.310	0.344	78.610%
x		-0.007	-0.010	0.348	0.320	0.338	76.808%
σ		0.003	0.001	0.021	0.022	0.009	1.930%
%RSD		33.800	6.314	5.931	6.727	2.558	2.513

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:08	79.722%	0.007	677.900	673.300	0.000	29960.000	46600.000	46310.000
2	16:43:51	82.216%	0.073	712.900	707.000	0.000	31140.000	47980.000	47590.000
3	16:44:34	84.826%	0.004	708.600	703.000	0.000	30530.000	47480.000	46920.000
x		82.254%	0.028	699.800	694.400	0.000	30540.000	47350.000	46940.000
σ		2.552%	0.039	19.110	18.400	0.000	593.500	699.600	638.200
%RSD		3.103	141.300	2.730	2.650	0.000	1.943	1.477	1.359
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:08	5.140	8763.000	0.000	16010.000	171100.000	176000.000	68.650%	1.422
2	16:43:51	5.561	8835.000	0.000	16680.000	179500.000	184100.000	68.419%	1.689
3	16:44:34	5.565	8853.000	0.000	16530.000	178200.000	181500.000	69.569%	1.289
x		5.422	8817.000	0.000	16410.000	176300.000	180500.000	68.879%	1.467
σ		0.244	47.570	0.000	353.200	4513.000	4140.000	0.608%	0.204
%RSD		4.503	0.539	0.000	2.153	2.560	2.293	0.883	13.880
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:08	2.667	5.384	11.380	66.860	421.600	0.260	6.866	3.262
2	16:43:51	4.403	4.858	11.890	70.620	410.300	0.250	7.083	3.647
3	16:44:34	4.028	4.714	11.690	68.770	383.600	0.308	6.783	3.354
x		3.700	4.985	11.650	68.750	405.200	0.273	6.911	3.421
σ		0.913	0.352	0.258	1.885	19.490	0.031	0.155	0.201
%RSD		24.690	7.069	2.214	2.742	4.810	11.260	2.240	5.868
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:08	3.635	105.500	105.200	-0.902	3.016	4.563	0.000	330.700
2	16:43:51	3.646	109.300	111.700	0.878	3.665	4.179	0.000	344.200
3	16:44:34	3.539	105.500	108.200	1.354	3.456	3.623	0.000	337.500
x		3.606	106.800	108.400	0.443	3.379	4.122	0.000	337.400
σ		0.059	2.214	3.235	1.189	0.331	0.472	0.000	6.707
%RSD		1.633	2.074	2.986	268.200	9.808	11.460	0.000	1.988
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:08	72.064%	17.530	17.750	71.329%	0.018	0.017	0.846	1.180
2	16:43:51	73.162%	18.560	18.490	72.606%	0.008	0.013	1.188	1.162
3	16:44:34	75.492%	18.260	18.240	74.176%	-0.010	0.010	1.388	1.192
x		73.573%	18.120	18.160	72.703%	0.005	0.013	1.141	1.178
σ		1.751%	0.531	0.373	1.426%	0.014	0.003	0.274	0.015
%RSD		2.379	2.932	2.054	1.961	261.900	24.500	24.020	1.275
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:08	73.841%	2.903	4.319	4.086	68.810	68.640	79.576%	80.256%
2	16:43:51	76.639%	2.992	4.526	4.483	71.940	72.330	81.539%	82.102%
3	16:44:34	78.160%	3.095	4.517	4.366	70.220	70.600	84.971%	85.048%
x		76.213%	2.997	4.454	4.312	70.320	70.530	82.029%	82.468%
σ		2.191%	0.096	0.117	0.204	1.565	1.846	2.731%	2.417%
%RSD		2.874	3.198	2.636	4.736	2.225	2.617	3.329	2.931
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:43:08	0.057	0.065	0.247	0.242	0.241	74.400%		
2	16:43:51	0.049	0.058	0.262	0.263	0.255	74.865%		
3	16:44:34	0.060	0.056	0.246	0.249	0.255	76.858%		
x		0.055	0.060	0.252	0.251	0.250	75.374%		
σ		0.006	0.005	0.009	0.010	0.008	1.306%		
%RSD		10.230	8.171	3.568	4.139	3.042	1.733		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:20	76.035%	-0.009	401.200	400.700	0.000	54640.000	29680.000	28830.000
2	16:52:03	81.009%	0.006	390.100	379.600	0.000	51550.000	27910.000	27240.000
3	16:52:45	81.334%	-0.046	388.800	390.100	0.000	52590.000	28550.000	27810.000
x		79.459%	-0.016	393.400	390.100	0.000	52930.000	28710.000	27960.000
σ		2.970%	0.026	6.815	10.540	0.000	1575.000	895.800	807.900
%RSD		3.738	162.500	1.732	2.702	0.000	2.976	3.120	2.890
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:20	8.588	8012.000	0.000	7996.000	374800.000	380900.000	64.659%	1.909
2	16:52:03	7.099	7669.000	0.000	7483.000	357100.000	358300.000	68.296%	1.390
3	16:52:45	7.471	7883.000	0.000	7684.000	364600.000	366500.000	67.753%	1.589
x		7.719	7855.000	0.000	7721.000	365500.000	368600.000	66.903%	1.629
σ		0.775	173.300	0.000	258.500	8848.000	11410.000	1.962%	0.262
%RSD		10.040	2.206	0.000	3.348	2.421	3.096	2.933	16.070
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:20	3.919	13.410	123.000	412.700	1169.000	0.978	17.480	44.820
2	16:52:03	1.948	12.250	118.800	388.500	1059.000	0.949	16.320	43.410
3	16:52:45	4.458	12.030	120.100	394.000	1047.000	1.008	17.430	43.370
x		3.442	12.560	120.600	398.400	1092.000	0.979	17.080	43.870
σ		1.321	0.742	2.184	12.680	67.160	0.030	0.653	0.827
%RSD		38.390	5.909	1.810	3.184	6.150	3.019	3.826	1.886
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:20	44.780	243.800	247.400	-0.653	0.042	-0.636	0.000	1156.000
2	16:52:03	43.280	234.900	233.300	2.543	0.158	0.871	0.000	1110.000
3	16:52:45	45.450	241.600	244.700	1.132	0.104	0.787	0.000	1122.000
x		44.500	240.100	241.800	1.007	0.101	0.340	0.000	1129.000
σ		1.111	4.622	7.499	1.602	0.058	0.847	0.000	23.690
%RSD		2.497	1.925	3.101	159.000	57.450	248.900	0.000	2.098
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:20	69.860%	5.041	5.032	68.299%	0.207	0.184	0.944	0.894
2	16:52:03	74.095%	4.578	4.857	72.485%	0.183	0.179	1.010	1.047
3	16:52:45	75.665%	4.771	4.679	73.640%	0.194	0.235	0.890	0.933
x		73.207%	4.797	4.856	71.475%	0.195	0.200	0.948	0.958
σ		3.003%	0.232	0.177	2.811%	0.012	0.031	0.060	0.079
%RSD		4.102	4.843	3.638	3.932	6.017	15.440	6.317	8.289
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:20	71.796%	2.836	1.657	1.743	42.630	43.060	77.679%	78.851%
2	16:52:03	76.539%	3.193	1.615	1.627	41.590	41.130	82.488%	84.032%
3	16:52:45	78.265%	3.109	1.622	1.598	41.180	41.560	84.613%	85.875%
x		75.533%	3.046	1.631	1.656	41.800	41.910	81.593%	82.919%
σ		3.350%	0.186	0.023	0.077	0.745	1.012	3.552%	3.642%
%RSD		4.435	6.119	1.382	4.635	1.783	2.414	4.354	4.392
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:51:20	0.002	0.007	4.024	4.299	4.111	70.240%		
2	16:52:03	0.012	0.009	3.849	3.719	3.779	80.179%		
3	16:52:45	0.004	0.007	4.012	4.222	4.149	76.819%		
x		0.006	0.008	3.961	4.080	4.013	75.746%		
σ		0.005	0.001	0.098	0.315	0.204	5.055%		
%RSD		84.380	17.200	2.473	7.723	5.072	6.674		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	73.974%	-0.008	77.610	77.800	0.000	10800.000	5885.000	5879.000
2	17:00:16	73.681%	-0.008	79.600	78.960	0.000	10890.000	5962.000	5958.000
3	17:00:59	75.661%	0.027	81.470	78.480	0.000	10550.000	5751.000	5713.000
x		74.439%	0.004	79.560	78.410	0.000	10750.000	5866.000	5850.000
σ		1.069%	0.021	1.933	0.584	0.000	175.800	106.700	125.000
%RSD		1.436	558.500	2.429	0.745	0.000	1.635	1.819	2.137

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	3.861	1539.000	0.000	1484.000	72460.000	71020.000	66.865%	0.420
2	17:00:16	3.340	1540.000	0.000	1502.000	71820.000	71190.000	66.462%	0.539
3	17:00:59	3.847	1453.000	0.000	1438.000	70660.000	69240.000	67.592%	0.186
x		3.683	1511.000	0.000	1475.000	71650.000	70490.000	66.973%	0.381
σ		0.297	49.900	0.000	33.020	912.800	1083.000	0.573%	0.179
%RSD		8.064	3.302	0.000	2.239	1.274	1.537	0.855	47.060

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	1.625	3.073	24.070	87.240	240.000	0.186	3.667	9.100
2	17:00:16	0.428	3.092	24.200	86.890	248.300	0.182	4.096	9.095
3	17:00:59	1.153	2.710	23.330	83.040	235.300	0.181	4.078	9.339
x		1.069	2.959	23.870	85.720	241.200	0.183	3.947	9.178
σ		0.603	0.215	0.467	2.327	6.587	0.003	0.243	0.140
%RSD		56.400	7.271	1.957	2.714	2.731	1.430	6.147	1.522

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	9.086	48.530	48.440	0.524	-1.129	-0.348	0.000	223.400
2	17:00:16	9.352	47.880	48.960	0.398	-0.930	-0.960	0.000	225.400
3	17:00:59	9.136	47.480	47.440	0.380	-0.551	-0.362	0.000	222.100
x		9.191	47.960	48.280	0.434	-0.870	-0.556	0.000	223.600
σ		0.142	0.535	0.772	0.079	0.294	0.349	0.000	1.682
%RSD		1.542	1.115	1.599	18.110	33.760	62.770	0.000	0.752

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	70.616%	0.937	0.894	70.976%	0.029	0.023	0.087	0.146
2	17:00:16	70.705%	1.056	0.873	71.414%	0.043	0.043	0.122	0.216
3	17:00:59	71.525%	0.760	0.792	71.751%	0.036	0.042	0.067	0.117
x		70.949%	0.917	0.853	71.380%	0.036	0.036	0.092	0.160
σ		0.501%	0.149	0.054	0.389%	0.007	0.012	0.028	0.051
%RSD		0.706	16.210	6.324	0.545	20.170	32.140	30.200	31.660

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	72.076%	0.154	0.300	0.282	8.302	7.954	76.333%	77.087%
2	17:00:16	73.264%	0.135	0.358	0.340	8.583	8.153	77.208%	77.619%
3	17:00:59	74.020%	0.144	0.301	0.301	8.270	8.204	78.588%	78.746%
x		73.120%	0.144	0.320	0.308	8.385	8.104	77.376%	77.817%
σ		0.980%	0.009	0.033	0.030	0.172	0.132	1.137%	0.847%
%RSD		1.341	6.551	10.310	9.662	2.053	1.633	1.469	1.088

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:59:32	-0.012	-0.012	0.848	0.822	0.818	72.397%
2	17:00:16	-0.008	-0.011	0.827	0.867	0.801	73.465%
3	17:00:59	-0.014	-0.009	0.697	0.781	0.757	74.154%
x		-0.011	-0.011	0.791	0.823	0.792	73.339%
σ		0.003	0.001	0.082	0.043	0.032	0.886%
%RSD		27.660	13.180	10.320	5.260	3.990	1.208

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	73.839%	47.330	1463.000	1455.000	0.000	103700.000	78360.000	77320.000
2	17:08:28	77.268%	48.290	1486.000	1448.000	0.000	101900.000	76700.000	75960.000
3	17:09:10	81.102%	48.040	1478.000	1449.000	0.000	101300.000	76180.000	75550.000
x		77.403%	47.890	1475.000	1451.000	0.000	102300.000	77080.000	76280.000
σ		3.633%	0.497	11.840	3.774	0.000	1251.000	1138.000	928.200
%RSD		4.694	1.037	0.803	0.260	0.000	1.223	1.476	1.217

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	1954.000	16440.000	0.000	56570.000	411200.000	411100.000	64.676%	1007.000
2	17:08:28	1938.000	16240.000	0.000	56380.000	413100.000	410600.000	66.514%	1006.000
3	17:09:10	1922.000	16090.000	0.000	55770.000	406100.000	407700.000	68.099%	1014.000
x		1938.000	16260.000	0.000	56240.000	410100.000	409800.000	66.430%	1009.000
σ		15.830	178.000	0.000	420.000	3584.000	1850.000	1.713%	4.192
%RSD		0.817	1.095	0.000	0.747	0.874	0.452	2.578	0.415

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	517.100	215.900	640.300	1395.000	2246.000	500.100	498.200	287.700
2	17:08:28	515.600	215.900	637.400	1390.000	2232.000	498.400	497.800	283.900
3	17:09:10	517.500	213.200	640.700	1406.000	2216.000	499.100	499.300	285.800
x		516.700	215.000	639.500	1397.000	2231.000	499.200	498.400	285.800
σ		0.987	1.591	1.788	7.873	15.090	0.833	0.787	1.925
%RSD		0.191	0.740	0.280	0.564	0.676	0.167	0.158	0.673

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	285.600	706.000	719.100	41.030	9.799	10.140	0.000	2214.000
2	17:08:28	284.400	710.000	720.000	39.610	9.906	9.843	0.000	2166.000
3	17:09:10	284.500	711.200	719.200	39.020	9.407	9.497	0.000	2154.000
x		284.800	709.100	719.400	39.890	9.704	9.826	0.000	2178.000
σ		0.670	2.695	0.481	1.037	0.263	0.321	0.000	32.100
%RSD		0.235	0.380	0.067	2.599	2.707	3.266	0.000	1.474

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	69.037%	1044.000	1056.000	67.152%	52.130	51.740	53.890	47.530
2	17:08:28	72.400%	1049.000	1061.000	69.616%	51.620	51.420	53.480	49.190
3	17:09:10	74.760%	1053.000	1064.000	71.802%	51.630	51.170	53.170	47.520
x		72.066%	1049.000	1060.000	69.524%	51.790	51.440	53.510	48.080
σ		2.876%	4.651	4.304	2.326%	0.294	0.282	0.362	0.961
%RSD		3.991	0.444	0.406	3.346	0.567	0.548	0.676	1.999

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	70.664%	2027.000	513.100	509.000	2052.000	2048.000	78.837%	79.171%
2	17:08:28	74.191%	2021.000	513.600	508.700	2063.000	2041.000	81.860%	82.839%
3	17:09:10	77.060%	2001.000	502.600	504.700	2041.000	2018.000	84.331%	86.038%
x		73.971%	2016.000	509.800	507.500	2052.000	2036.000	81.676%	82.682%
σ		3.204%	13.660	6.246	2.379	10.670	15.850	2.751%	3.436%
%RSD		4.331	0.678	1.225	0.469	0.520	0.779	3.369	4.156

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:45	52.650	52.460	24.250	26.780	25.680	70.005%
2	17:08:28	52.380	52.140	24.600	26.300	25.330	74.149%
3	17:09:10	52.350	51.960	24.240	26.810	25.480	76.274%
x		52.460	52.180	24.360	26.630	25.500	73.476%
σ		0.166	0.252	0.203	0.284	0.177	3.188%
%RSD		0.316	0.483	0.834	1.066	0.694	4.339

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:15:57	76.638%	46.150	1406.000	1398.000	0.000	99540.000	75440.000	75010.000
2	17:16:40	76.934%	48.320	1489.000	1475.000	0.000	103200.000	77840.000	76890.000
3	17:17:23	78.665%	49.200	1558.000	1522.000	0.000	106000.000	80030.000	79240.000
x		77.413%	47.890	1484.000	1465.000	0.000	102900.000	77770.000	77050.000
σ		1.095%	1.569	76.000	62.850	0.000	3260.000	2295.000	2121.000
%RSD		1.414	3.277	5.120	4.289	0.000	3.167	2.951	2.753
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:15:57	1854.000	15880.000	0.000	55120.000	400600.000	400500.000	66.057%	980.700
2	17:16:40	1935.000	16260.000	0.000	56270.000	412700.000	409400.000	67.290%	998.100
3	17:17:23	2000.000	16860.000	0.000	58330.000	425900.000	424500.000	67.265%	1056.000
x		1930.000	16330.000	0.000	56580.000	413100.000	411500.000	66.871%	1012.000
σ		73.060	496.200	0.000	1627.000	12630.000	12110.000	0.705%	39.350
%RSD		3.785	3.038	0.000	2.875	3.058	2.944	1.054	3.890
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:15:57	496.000	208.200	608.500	1282.000	2094.000	485.600	484.900	277.000
2	17:16:40	511.600	211.200	625.600	1323.000	2117.000	496.100	492.500	283.200
3	17:17:23	534.500	222.200	659.600	1387.000	2206.000	515.900	522.800	294.600
x		514.000	213.900	631.200	1331.000	2139.000	499.200	500.100	284.900
σ		19.380	7.374	26.060	52.690	59.250	15.360	20.030	8.949
%RSD		3.771	3.448	4.129	3.960	2.770	3.077	4.006	3.141
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:15:57	279.700	690.300	699.400	38.620	8.885	10.970	0.000	2114.000
2	17:16:40	282.000	717.300	719.400	37.810	9.961	9.834	0.000	2175.000
3	17:17:23	296.600	752.600	756.800	40.700	9.584	10.100	0.000	2291.000
x		286.100	720.100	725.200	39.040	9.477	10.300	0.000	2193.000
σ		9.174	31.250	29.180	1.494	0.546	0.594	0.000	89.950
%RSD		3.207	4.340	4.024	3.826	5.763	5.764	0.000	4.101
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:15:57	71.229%	1008.000	1023.000	68.950%	50.320	50.310	51.740	45.730
2	17:16:40	72.936%	1050.000	1059.000	70.917%	52.130	51.510	53.730	47.900
3	17:17:23	72.738%	1107.000	1125.000	70.064%	53.880	54.880	56.470	50.320
x		72.301%	1055.000	1069.000	69.977%	52.110	52.240	53.980	47.980
σ		0.934%	50.080	51.680	0.987%	1.776	2.371	2.375	2.297
%RSD		1.291	4.748	4.834	1.410	3.408	4.540	4.400	4.787
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:15:57	73.222%	1960.000	494.400	491.000	1974.000	1972.000	80.425%	81.157%
2	17:16:40	75.979%	2004.000	504.600	504.900	2042.000	2016.000	83.103%	83.769%
3	17:17:23	75.425%	2125.000	535.200	531.000	2143.000	2144.000	83.124%	83.115%
x		74.875%	2030.000	511.400	509.000	2053.000	2044.000	82.217%	82.681%
σ		1.459%	85.370	21.230	20.300	85.070	89.610	1.552%	1.359%
%RSD		1.948	4.205	4.152	3.988	4.144	4.384	1.888	1.644
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:15:57	49.640	49.310	23.120	25.370	24.130	73.299%		
2	17:16:40	51.430	51.880	23.970	25.980	25.020	75.556%		
3	17:17:23	54.680	55.050	25.190	27.780	26.390	74.738%		
x		51.920	52.080	24.090	26.380	25.180	74.531%		
σ		2.551	2.876	1.040	1.254	1.136	1.143%		
%RSD		4.913	5.522	4.318	4.754	4.513	1.533		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	75.615%	48.370	1450.000	1447.000	0.000	102700.000	78340.000	77570.000
2	17:24:53	78.002%	48.220	1492.000	1479.000	0.000	102500.000	78840.000	77630.000
3	17:25:36	80.257%	46.550	1420.000	1430.000	0.000	98700.000	75030.000	73950.000
x		77.958%	47.710	1454.000	1452.000	0.000	101300.000	77400.000	76380.000
σ		2.321%	1.011	35.730	24.780	0.000	2236.000	2072.000	2108.000
%RSD		2.978	2.119	2.457	1.707	0.000	2.208	2.676	2.760

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	1967.000	16340.000	0.000	57500.000	400600.000	404500.000	65.226%	993.600
2	17:24:53	1963.000	16190.000	0.000	57660.000	405900.000	401600.000	66.865%	989.700
3	17:25:36	1884.000	15430.000	0.000	55040.000	389100.000	387000.000	69.245%	960.200
x		1938.000	15990.000	0.000	56730.000	398500.000	397700.000	67.112%	981.200
σ		46.640	490.000	0.000	1471.000	8601.000	9364.000	2.021%	18.240
%RSD		2.406	3.065	0.000	2.593	2.158	2.355	3.011	1.859

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	521.400	217.200	636.300	1383.000	2200.000	501.200	504.800	283.600
2	17:24:53	526.000	219.500	638.300	1384.000	2201.000	503.700	505.000	288.000
3	17:25:36	500.300	210.200	613.600	1339.000	2085.000	485.900	482.500	273.300
x		515.900	215.700	629.400	1369.000	2162.000	496.900	497.400	281.600
σ		13.680	4.851	13.720	25.820	67.120	9.632	12.950	7.532
%RSD		2.651	2.249	2.179	1.886	3.104	1.938	2.604	2.675

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	286.000	722.600	729.000	40.220	10.110	10.910	0.000	2180.000
2	17:24:53	288.300	723.000	735.100	39.760	9.290	10.960	0.000	2149.000
3	17:25:36	280.600	699.900	708.700	38.790	8.630	10.370	0.000	2064.000
x		285.000	715.200	724.200	39.590	9.345	10.750	0.000	2131.000
σ		3.932	13.200	13.820	0.729	0.743	0.326	0.000	59.900
%RSD		1.380	1.846	1.909	1.840	7.950	3.030	0.000	2.810

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	70.217%	1041.000	1055.000	67.986%	52.360	52.440	53.970	48.800
2	17:24:53	72.990%	1040.000	1056.000	70.577%	52.850	52.610	53.230	46.950
3	17:25:36	74.814%	1008.000	1023.000	72.378%	51.520	51.210	51.920	46.180
x		72.674%	1030.000	1044.000	70.314%	52.240	52.090	53.040	47.310
σ		2.315%	18.670	18.980	2.208%	0.671	0.764	1.040	1.344
%RSD		3.185	1.813	1.817	3.140	1.284	1.466	1.961	2.840

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	72.137%	1999.000	499.500	499.000	2052.000	2032.000	78.740%	79.070%
2	17:24:53	74.963%	2019.000	505.900	501.400	2073.000	2045.000	82.633%	83.123%
3	17:25:36	77.570%	1940.000	488.100	485.200	1992.000	1993.000	85.831%	85.955%
x		74.890%	1986.000	497.900	495.200	2039.000	2023.000	82.401%	82.716%
σ		2.717%	41.190	8.991	8.765	41.740	27.190	3.551%	3.460%
%RSD		3.628	2.074	1.806	1.770	2.047	1.344	4.310	4.183

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:10	53.590	53.620	24.520	26.970	25.700	70.467%
2	17:24:53	53.700	53.350	24.510	26.480	25.640	73.833%
3	17:25:36	51.040	50.750	23.400	25.090	24.480	77.729%
x		52.780	52.570	24.140	26.180	25.270	74.010%
σ		1.504	1.589	0.639	0.975	0.689	3.634%
%RSD		2.849	3.022	2.648	3.722	2.726	4.910

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	69.465%	0.724	21.340	20.260	0.000	195.500	2791.000	2795.000
2	17:33:07	70.877%	0.689	16.070	18.700	0.000	198.100	2788.000	2782.000
3	17:33:50	71.548%	0.433	14.020	17.220	0.000	197.800	2786.000	2787.000
x		70.630%	0.615	17.140	18.730	0.000	197.100	2788.000	2788.000
σ		1.063%	0.159	3.775	1.521	0.000	1.397	2.718	6.627
%RSD		1.506	25.790	22.020	8.122	0.000	0.709	0.097	0.238

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	14490.000	525.100	0.000	689.300	735.500	697.100	67.127%	119.500
2	17:33:07	14390.000	529.600	0.000	685.400	593.300	667.900	68.255%	124.500
3	17:33:50	14400.000	533.300	0.000	694.800	763.200	684.600	69.099%	121.100
x		14430.000	529.300	0.000	689.800	697.300	683.200	68.160%	121.700
σ		54.480	4.068	0.000	4.706	91.140	14.620	0.989%	2.518
%RSD		0.378	0.768	0.000	0.682	13.070	2.139	1.451	2.069

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	28.580	54.650	5175.000	24920.000	24220.000	12.610	54.700	15.080
2	17:33:07	28.460	54.810	5154.000	24840.000	24350.000	12.760	54.410	15.280
3	17:33:50	28.690	55.240	5131.000	24690.000	24260.000	12.810	54.630	14.540
x		28.580	54.900	5153.000	24810.000	24280.000	12.730	54.580	14.960
σ		0.110	0.308	22.330	116.000	66.970	0.107	0.151	0.382
%RSD		0.386	0.561	0.433	0.468	0.276	0.840	0.277	2.552

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	15.040	62.570	62.910	20.530	-0.744	0.978	0.000	42.170
2	17:33:07	15.190	64.540	64.550	20.600	-0.456	-1.315	0.000	42.500
3	17:33:50	15.290	63.340	62.100	21.260	-0.150	-0.022	0.000	42.250
x		15.170	63.480	63.190	20.800	-0.450	-0.120	0.000	42.300
σ		0.128	0.990	1.247	0.405	0.297	1.149	0.000	0.172
%RSD		0.847	1.559	1.974	1.948	66.010	957.800	0.000	0.406

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	72.789%	7.762	7.829	70.452%	0.113	0.102	0.111	0.123
2	17:33:07	74.757%	7.900	7.995	73.116%	0.131	0.096	0.257	0.179
3	17:33:50	75.323%	7.787	7.709	73.786%	0.105	0.107	0.171	0.135
x		74.290%	7.816	7.844	72.451%	0.116	0.102	0.180	0.146
σ		1.330%	0.074	0.144	1.764%	0.013	0.006	0.074	0.029
%RSD		1.790	0.943	1.836	2.435	11.320	5.687	40.950	20.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	71.598%	0.476	0.317	0.210	626.100	627.100	74.051%	74.256%
2	17:33:07	73.716%	0.400	0.276	0.260	636.600	627.100	76.703%	76.495%
3	17:33:50	74.487%	0.395	0.250	0.209	641.600	636.500	77.744%	78.502%
x		73.267%	0.424	0.281	0.227	634.800	630.300	76.166%	76.418%
σ		1.496%	0.045	0.034	0.029	7.910	5.428	1.905%	2.124%
%RSD		2.042	10.710	11.930	12.680	1.246	0.861	2.501	2.779

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:24	0.732	0.677	21.840	21.050	21.280	71.888%
2	17:33:07	0.735	0.682	21.660	21.220	21.350	73.684%
3	17:33:50	0.686	0.702	21.640	21.440	21.400	74.481%
x		0.718	0.687	21.710	21.240	21.340	73.351%
σ		0.028	0.013	0.110	0.196	0.062	1.328%
%RSD		3.841	1.927	0.508	0.922	0.292	1.810

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	70.195%	0.733	10.300	11.570	0.000	196.900	7418.000	7415.000
2	17:41:21	71.502%	0.585	11.690	10.850	0.000	206.700	7262.000	7366.000
3	17:42:04	71.992%	0.468	10.730	10.440	0.000	208.400	7284.000	7323.000
x		71.230%	0.595	10.910	10.950	0.000	204.000	7321.000	7368.000
σ		0.929%	0.133	0.709	0.570	0.000	6.240	84.640	45.880
%RSD		1.304	22.370	6.499	5.208	0.000	3.059	1.156	0.623

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	12950.000	545.700	0.000	648.800	1627.000	1465.000	70.142%	105.500
2	17:41:21	12670.000	537.100	0.000	646.100	1464.000	1461.000	71.546%	104.700
3	17:42:04	12610.000	537.300	0.000	647.900	1667.000	1477.000	71.080%	100.200
x		12740.000	540.000	0.000	647.600	1586.000	1468.000	70.923%	103.500
σ		177.000	4.943	0.000	1.395	107.600	8.438	0.715%	2.844
%RSD		1.389	0.915	0.000	0.215	6.787	0.575	1.009	2.748

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	23.020	63.600	4408.000	24300.000	23450.000	10.290	122.700	10.980
2	17:41:21	22.910	63.010	4331.000	23870.000	23380.000	10.440	122.700	11.030
3	17:42:04	24.160	63.810	4311.000	23780.000	23400.000	10.190	120.600	10.920
x		23.360	63.470	4350.000	23980.000	23410.000	10.310	122.000	10.980
σ		0.692	0.412	50.920	275.300	37.700	0.124	1.173	0.056
%RSD		2.962	0.649	1.171	1.148	0.161	1.205	0.962	0.509

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	11.200	47.760	46.990	12.370	-0.314	-0.322	0.000	12.850
2	17:41:21	11.120	48.870	49.410	12.430	-0.411	0.163	0.000	12.800
3	17:42:04	10.870	46.660	47.620	12.040	-1.160	-0.295	0.000	12.640
x		11.070	47.770	48.010	12.280	-0.629	-0.151	0.000	12.760
σ		0.174	1.105	1.255	0.211	0.463	0.272	0.000	0.112
%RSD		1.570	2.313	2.613	1.719	73.630	180.200	0.000	0.877

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	75.052%	1.801	1.855	72.854%	0.021	0.035	0.119	0.100
2	17:41:21	77.012%	1.884	1.878	74.403%	0.024	0.028	0.132	0.175
3	17:42:04	79.268%	1.826	1.893	76.168%	0.059	0.023	0.259	0.229
x		77.111%	1.837	1.876	74.475%	0.035	0.029	0.170	0.168
σ		2.110%	0.043	0.019	1.658%	0.021	0.006	0.077	0.065
%RSD		2.736	2.332	1.023	2.226	61.370	21.100	45.400	38.450

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	72.224%	0.237	0.058	0.105	87.280	84.800	75.205%	75.860%
2	17:41:21	74.796%	0.302	0.096	0.105	83.750	83.050	78.767%	78.672%
3	17:42:04	75.067%	0.246	0.132	0.083	82.060	82.210	79.257%	79.264%
x		74.029%	0.261	0.095	0.098	84.360	83.350	77.743%	77.932%
σ		1.569%	0.035	0.037	0.013	2.663	1.318	2.212%	1.819%
%RSD		2.119	13.460	39.120	13.020	3.157	1.581	2.845	2.334

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:38	0.204	0.186	15.530	14.760	15.100	73.463%
2	17:41:21	0.212	0.182	15.150	14.740	15.070	75.060%
3	17:42:04	0.170	0.189	15.280	14.370	14.940	76.145%
x		0.195	0.186	15.320	14.630	15.030	74.889%
σ		0.022	0.004	0.193	0.222	0.086	1.349%
%RSD		11.480	1.980	1.258	1.520	0.572	1.802

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	69.410%	0.584	10.720	9.282	0.000	267.600	3033.000	3024.000
2	17:49:36	73.649%	0.736	8.174	8.398	0.000	261.800	2887.000	2887.000
3	17:50:19	71.374%	0.663	8.925	8.731	0.000	267.900	2966.000	2987.000
x		71.478%	0.661	9.274	8.804	0.000	265.800	2962.000	2966.000
σ		2.121%	0.076	1.310	0.446	0.000	3.427	73.390	71.290
%RSD		2.967	11.490	14.130	5.068	0.000	1.290	2.478	2.404

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	14750.000	917.700	0.000	992.600	4540.000	4397.000	70.077%	139.200
2	17:49:36	14190.000	850.700	0.000	961.800	4633.000	4369.000	71.092%	139.200
3	17:50:19	14480.000	880.700	0.000	980.900	4499.000	4389.000	71.303%	140.300
x		14470.000	883.000	0.000	978.400	4557.000	4385.000	70.824%	139.600
σ		280.000	33.570	0.000	15.550	68.650	14.490	0.655%	0.640
%RSD		1.934	3.802	0.000	1.589	1.506	0.331	0.925	0.458

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	29.440	34.240	14710.000	23910.000	23270.000	9.344	38.300	15.210
2	17:49:36	27.720	34.140	14430.000	23460.000	23050.000	9.227	36.390	15.060
3	17:50:19	28.050	34.270	14550.000	23780.000	23300.000	9.375	39.200	15.230
x		28.400	34.210	14560.000	23720.000	23210.000	9.315	37.960	15.170
σ		0.914	0.065	143.700	233.300	135.600	0.078	1.432	0.092
%RSD		3.220	0.191	0.987	0.984	0.584	0.837	3.773	0.604

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	15.260	118.000	118.400	13.530	-0.709	-0.394	0.000	54.790
2	17:49:36	15.580	117.700	117.500	12.660	-0.650	-0.648	0.000	54.230
3	17:50:19	16.290	117.600	118.900	13.390	-0.312	-0.795	0.000	54.340
x		15.710	117.800	118.300	13.190	-0.557	-0.613	0.000	54.450
σ		0.525	0.228	0.728	0.465	0.214	0.203	0.000	0.295
%RSD		3.340	0.193	0.616	3.522	38.470	33.120	0.000	0.542

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	75.832%	1.320	1.498	73.223%	0.273	0.330	0.445	0.332
2	17:49:36	77.237%	1.539	1.386	74.287%	0.258	0.313	0.318	0.283
3	17:50:19	77.813%	1.474	1.433	74.803%	0.288	0.282	0.353	0.401
x		76.961%	1.444	1.439	74.104%	0.273	0.309	0.372	0.339
σ		1.019%	0.112	0.056	0.806%	0.015	0.024	0.066	0.059
%RSD		1.324	7.780	3.891	1.088	5.503	7.911	17.650	17.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	73.543%	0.317	0.099	0.055	345.000	338.600	75.873%	76.473%
2	17:49:36	75.672%	0.287	0.063	0.064	337.200	337.600	78.207%	78.443%
3	17:50:19	75.550%	0.251	0.082	0.067	345.200	341.100	78.639%	78.936%
x		74.922%	0.285	0.081	0.062	342.400	339.100	77.573%	77.950%
σ		1.195%	0.033	0.018	0.006	4.565	1.766	1.488%	1.303%
%RSD		1.596	11.500	22.050	10.510	1.333	0.521	1.918	1.672

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:53	0.575	0.602	30.240	30.290	30.280	73.789%
2	17:49:36	0.653	0.622	30.230	29.990	29.990	75.513%
3	17:50:19	0.613	0.578	30.540	30.910	30.750	75.440%
x		0.614	0.601	30.340	30.400	30.340	74.914%
σ		0.039	0.022	0.175	0.469	0.384	0.975%
%RSD		6.367	3.698	0.577	1.542	1.265	1.301

CCV 781130 4/12/2013 5:56:24 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:07	70.045%	103.000	100.000	102.700	0.000	50440.000	50870.000	51330.000
2	17:57:50	69.132%	104.400	115.100	107.300	0.000	51470.000	51630.000	51480.000
3	17:58:32	70.368%	103.500	107.000	103.400	0.000	51540.000	51910.000	51950.000
x		69.848%	103.636%	107.382%	104.488%	0.000	102.308%	102.944%	103.169%
σ		0.641%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.918	0.676	7.034	2.361	0.000	1.205	1.043	0.625
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:07	514.200	4878.000	0.000	51250.000	50220.000	49150.000	68.948%	101.200
2	17:57:50	519.900	4912.000	0.000	51550.000	51800.000	49870.000	68.836%	100.100
3	17:58:32	524.400	4944.000	0.000	51300.000	51750.000	50370.000	69.816%	98.420
x		103.901%	98.224%	0.000	102.733%	102.510%	99.597%	69.200%	99.910%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.537%	n/a
%RSD		0.989	0.674	0.000	0.312	1.757	1.233	0.776	1.419
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:07	102.700	102.600	509.100	25950.000	25540.000	103.900	104.400	104.100
2	17:57:50	102.300	103.300	516.400	25960.000	25830.000	104.000	102.100	104.000
3	17:58:32	103.400	103.600	519.800	26230.000	26000.000	103.300	103.600	103.500
x		102.805%	103.151%	103.013%	104.199%	103.153%	103.746%	103.360%	103.865%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.535	0.462	1.062	0.613	0.887	0.375	1.104	0.303
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:07	105.100	101.900	99.670	99.670	95.270	99.370	0.000	101.000
2	17:57:50	104.800	102.600	101.300	98.590	99.700	102.300	0.000	102.600
3	17:58:32	105.200	104.600	102.700	101.800	102.400	105.100	0.000	104.000
x		105.039%	103.050%	101.197%	100.027%	99.134%	102.251%	0.000	102.531%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.175	1.336	1.478	1.640	3.645	2.798	0.000	1.510
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:07	70.117%	99.880	98.990	70.052%	101.900	102.400	101.300	99.330
2	17:57:50	71.363%	103.200	102.000	72.077%	102.100	101.000	103.100	102.700
3	17:58:32	71.710%	105.600	104.300	72.603%	104.000	102.800	103.300	103.300
x		71.063%	102.904%	101.753%	71.577%	102.676%	102.073%	102.568%	101.764%
σ		0.838%	n/a	n/a	1.347%	n/a	n/a	n/a	n/a
%RSD		1.179	2.790	2.607	1.882	1.140	0.908	1.081	2.091
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:07	71.430%	98.920	99.820	100.100	102.800	101.400	73.796%	75.191%
2	17:57:50	73.069%	99.460	99.880	100.400	102.400	102.200	77.215%	77.599%
3	17:58:32	73.935%	101.600	101.800	101.700	102.300	102.900	77.673%	78.496%
x		72.811%	99.987%	100.498%	100.705%	102.513%	102.165%	76.228%	77.095%
σ		1.272%	n/a	n/a	n/a	n/a	n/a	2.118%	1.709%
%RSD		1.747	1.407	1.114	0.858	0.266	0.724	2.779	2.217
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:57:07	101.800	102.200	102.800	102.500	103.000	69.970%		
2	17:57:50	102.300	102.500	101.900	102.800	102.700	72.241%		
3	17:58:32	104.700	104.600	105.100	104.700	105.200	72.082%		
x		102.949%	103.102%	103.224%	103.353%	103.614%	71.431%		
σ		n/a	n/a	n/a	n/a	n/a	1.268%		
%RSD		1.521	1.267	1.597	1.154	1.323	1.775		

CCB3 4/12/2013 6:04:40 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	111.565%	0.030	2.069	2.153	0.000	66.620	-0.310	-0.174
2	18:06:06	114.407%	-0.009	2.521	1.918	0.000	67.870	-0.376	-0.408
3	18:06:49	111.822%	-0.033	2.529	1.990	0.000	76.110	-0.602	-0.074
x		112.598%	-0.004	2.373	2.020	0.000	70.200	-0.429	-0.219
σ		1.572%	0.032	0.264	0.121	0.000	5.155	0.153	0.172
%RSD		1.396	809.400	11.120	5.971	0.000	7.344	35.690	78.460

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	-0.687	-254.300	0.000	-93.200	-6.517	-41.170	83.643%	-0.012
2	18:06:06	-0.635	-256.000	0.000	-97.630	-3.447	-45.130	83.687%	0.019
3	18:06:49	-0.443	-246.800	0.000	-96.310	-3.350	-42.920	82.417%	0.083
x		-0.588	-252.400	0.000	-95.710	-4.438	-43.070	83.249%	0.030
σ		0.129	4.881	0.000	2.271	1.801	1.982	0.721%	0.048
%RSD		21.930	1.934	0.000	2.372	40.580	4.600	0.866	161.700

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	0.368	0.159	0.120	-7.628	-5.799	-0.022	-0.015	-0.057
2	18:06:06	0.532	0.155	0.124	-8.929	-5.568	-0.024	0.061	0.025
3	18:06:49	0.348	0.106	0.142	-9.286	-2.798	-0.018	0.084	0.009
x		0.416	0.140	0.129	-8.614	-4.722	-0.021	0.043	-0.007
σ		0.101	0.030	0.012	0.873	1.670	0.003	0.052	0.043
%RSD		24.200	21.250	9.281	10.130	35.370	14.910	120.500	589.500

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	-0.065	-1.076	-1.021	-0.703	-1.670	-2.149	0.000	-0.016
2	18:06:06	-0.025	-1.019	-0.909	-0.290	-1.491	-1.824	0.000	-0.015
3	18:06:49	0.028	-0.981	-0.886	-0.452	-0.865	-1.619	0.000	-0.004
x		-0.021	-1.026	-0.939	-0.482	-1.342	-1.864	0.000	-0.011
σ		0.046	0.048	0.072	0.208	0.423	0.267	0.000	0.007
%RSD		223.500	4.681	7.677	43.150	31.510	14.330	0.000	57.470

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	80.993%	0.225	0.249	88.740%	-0.005	-0.004	-0.037	-0.024
2	18:06:06	82.189%	0.219	0.162	90.433%	-0.014	-0.002	-0.082	-0.060
3	18:06:49	81.443%	0.138	0.215	89.240%	-0.014	0.004	-0.077	-0.041
x		81.542%	0.194	0.208	89.471%	-0.011	-0.001	-0.065	-0.042
σ		0.604%	0.048	0.044	0.870%	0.005	0.004	0.025	0.018
%RSD		0.741	24.980	21.180	0.972	44.440	676.000	38.070	43.790

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	82.959%	0.085	-0.016	-0.002	0.009	-0.014	84.970%	84.601%
2	18:06:06	84.950%	0.094	-0.005	-0.017	-0.015	-0.008	85.991%	86.656%
3	18:06:49	85.957%	0.060	-0.010	-0.023	-0.015	-0.008	86.030%	85.828%
x		84.622%	0.080	-0.010	-0.014	-0.007	-0.010	85.664%	85.695%
σ		1.526%	0.018	0.005	0.011	0.014	0.004	0.601%	1.034%
%RSD		1.803	22.040	49.790	75.320	197.700	38.110	0.702	1.207

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:05:23	0.012	-0.002	0.170	0.145	0.146	82.567%
2	18:06:06	-0.008	-0.002	0.114	0.127	0.104	82.963%
3	18:06:49	-0.008	-0.000	0.103	0.119	0.101	82.559%
x		-0.001	-0.001	0.129	0.130	0.117	82.696%
σ		0.012	0.001	0.036	0.013	0.025	0.231%
%RSD		903.500	83.920	28.090	10.150	21.570	0.279

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:40	74.676%	0.119	3.448	3.608	0.000	182.200	597.400	605.100
2	18:14:23	73.073%	0.029	3.530	3.190	0.000	191.700	607.300	603.500
3	18:15:06	75.628%	0.099	3.398	3.520	0.000	192.700	573.700	598.400
x		74.459%	0.082	3.459	3.439	0.000	188.800	592.800	602.300
σ		1.291%	0.047	0.067	0.220	0.000	5.808	17.260	3.515
%RSD		1.734	57.320	1.932	6.405	0.000	3.076	2.912	0.584
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:40	2822.000	143.100	0.000	138.900	870.200	844.000	75.368%	28.920
2	18:14:23	2820.000	156.300	0.000	137.800	951.200	850.800	75.641%	27.390
3	18:15:06	2785.000	137.100	0.000	133.100	960.600	849.500	75.576%	28.130
x		2809.000	145.500	0.000	136.600	927.300	848.100	75.528%	28.150
σ		20.870	9.803	0.000	3.114	49.670	3.615	0.143%	0.762
%RSD		0.743	6.739	0.000	2.279	5.356	0.426	0.189	2.708
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:40	5.652	6.884	2959.000	4818.000	4682.000	1.977	8.043	3.199
2	18:14:23	5.705	7.120	2965.000	4837.000	4683.000	1.747	7.653	3.439
3	18:15:06	5.960	6.925	2910.000	4756.000	4670.000	1.850	7.986	3.566
x		5.772	6.976	2945.000	4804.000	4679.000	1.858	7.894	3.401
σ		0.165	0.126	29.930	41.980	7.104	0.115	0.211	0.187
%RSD		2.853	1.808	1.016	0.874	0.152	6.206	2.674	5.492
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:40	3.768	22.680	24.080	2.864	-0.619	0.508	0.000	11.290
2	18:14:23	3.323	23.830	24.620	2.726	-0.324	-0.308	0.000	11.200
3	18:15:06	3.142	23.820	23.710	2.904	-0.469	-0.431	0.000	11.060
x		3.411	23.440	24.140	2.831	-0.471	-0.077	0.000	11.180
σ		0.322	0.656	0.458	0.093	0.147	0.510	0.000	0.120
%RSD		9.445	2.798	1.897	3.288	31.290	664.700	0.000	1.071
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:40	76.129%	0.506	0.436	76.695%	0.080	0.037	0.155	0.127
2	18:14:23	77.650%	0.455	0.407	77.899%	0.050	0.058	0.107	0.072
3	18:15:06	77.853%	0.478	0.507	78.705%	0.058	0.073	0.051	0.043
x		77.211%	0.480	0.450	77.766%	0.063	0.056	0.104	0.081
σ		0.942%	0.025	0.051	1.012%	0.015	0.018	0.052	0.042
%RSD		1.220	5.252	11.390	1.301	24.550	32.070	50.050	52.600
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:40	75.507%	0.100	-0.018	0.018	70.660	70.130	76.434%	77.344%
2	18:14:23	77.470%	0.088	0.008	0.001	68.900	68.390	79.062%	79.390%
3	18:15:06	79.254%	0.087	0.007	0.006	66.670	67.630	80.689%	80.404%
x		77.410%	0.091	-0.001	0.008	68.740	68.710	78.728%	79.046%
σ		1.874%	0.007	0.014	0.009	2.000	1.284	2.147%	1.559%
%RSD		2.421	7.861	1535.000	104.400	2.909	1.868	2.727	1.972
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:13:40	0.114	0.116	6.073	6.192	6.128	74.804%		
2	18:14:23	0.087	0.107	6.170	6.064	6.189	76.219%		
3	18:15:06	0.121	0.107	6.064	6.110	6.145	76.613%		
x		0.107	0.110	6.102	6.122	6.154	75.878%		
σ		0.018	0.005	0.059	0.065	0.032	0.951%		
%RSD		16.680	4.656	0.962	1.056	0.517	1.254		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:55	67.838%	6.118	98.940	101.000	0.000	5393.000	8226.000	8322.000
2	18:22:38	70.358%	5.327	102.400	101.000	0.000	5293.000	8184.000	8164.000
3	18:23:21	70.088%	5.269	102.700	103.300	0.000	5339.000	8189.000	8297.000
x		69.428%	5.571	101.400	101.800	0.000	5342.000	8200.000	8261.000
σ		1.384%	0.474	2.097	1.332	0.000	49.970	22.800	84.740
%RSD		1.993	8.514	2.069	1.309	0.000	0.936	0.278	1.026
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:55	21200.000	1558.000	0.000	7056.000	10220.000	10100.000	70.897%	291.200
2	18:22:38	20550.000	1501.000	0.000	7022.000	10360.000	9945.000	71.622%	293.700
3	18:23:21	20780.000	1500.000	0.000	7025.000	10070.000	10010.000	71.528%	293.800
x		20840.000	1520.000	0.000	7034.000	10220.000	10020.000	71.349%	292.900
σ		328.700	33.050	0.000	18.800	147.800	77.810	0.394%	1.493
%RSD		1.577	2.175	0.000	0.267	1.446	0.777	0.552	0.510
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:55	85.800	59.740	20270.000	23830.000	23280.000	58.260	88.200	42.770
2	18:22:38	86.180	60.110	20250.000	23770.000	23400.000	57.990	88.150	42.090
3	18:23:21	86.780	60.680	20250.000	23890.000	23500.000	58.480	87.350	41.760
x		86.250	60.180	20260.000	23830.000	23390.000	58.240	87.900	42.210
σ		0.493	0.471	9.579	56.270	109.100	0.248	0.478	0.514
%RSD		0.572	0.782	0.047	0.236	0.466	0.426	0.543	1.217
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:55	43.050	177.200	182.200	18.650	0.408	0.745	0.000	176.200
2	18:22:38	42.560	181.400	180.300	18.740	0.215	0.370	0.000	177.400
3	18:23:21	42.890	182.200	178.700	19.350	0.568	1.902	0.000	178.200
x		42.840	180.200	180.400	18.910	0.397	1.005	0.000	177.300
σ		0.252	2.682	1.754	0.382	0.177	0.798	0.000	1.010
%RSD		0.588	1.488	0.973	2.022	44.590	79.420	0.000	0.570
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:55	76.350%	88.010	86.540	71.926%	5.435	5.273	5.634	5.503
2	18:22:38	77.170%	87.390	89.160	73.268%	5.421	5.228	5.161	4.878
3	18:23:21	77.524%	90.440	90.350	73.611%	5.472	5.275	5.845	5.187
x		77.015%	88.610	88.680	72.935%	5.443	5.259	5.547	5.189
σ		0.602%	1.616	1.951	0.890%	0.027	0.026	0.350	0.312
%RSD		0.782	1.823	2.200	1.221	0.487	0.500	6.314	6.019
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:55	73.113%	68.920	13.930	13.880	677.000	666.500	75.263%	76.094%
2	18:22:38	74.285%	70.260	14.070	13.770	677.800	664.000	77.459%	78.079%
3	18:23:21	75.279%	69.030	14.240	14.050	666.400	668.300	79.131%	78.814%
x		74.226%	69.400	14.080	13.900	673.700	666.300	77.285%	77.662%
σ		1.084%	0.743	0.154	0.138	6.367	2.200	1.940%	1.407%
%RSD		1.461	1.070	1.095	0.994	0.945	0.330	2.510	1.811
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:21:55	5.193	5.298	29.040	29.580	29.430	73.074%		
2	18:22:38	5.348	5.319	29.580	30.380	29.900	73.525%		
3	18:23:21	5.411	5.354	29.760	30.570	29.940	74.277%		
x		5.317	5.324	29.460	30.180	29.760	73.625%		
σ		0.112	0.028	0.380	0.525	0.286	0.608%		
%RSD		2.111	0.527	1.288	1.738	0.963	0.826		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:11	68.924%	6.244	98.820	102.100	0.000	5365.000	8245.000	8345.000
2	18:30:54	69.199%	6.178	100.900	104.700	0.000	5363.000	8348.000	8399.000
3	18:31:37	70.796%	6.099	100.800	104.800	0.000	5328.000	8312.000	8348.000
x		69.640%	6.174	100.200	103.900	0.000	5352.000	8302.000	8364.000
σ		1.011%	0.073	1.195	1.517	0.000	20.990	52.390	30.380
%RSD		1.452	1.176	1.193	1.460	0.000	0.392	0.631	0.363
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:11	21420.000	1507.000	0.000	6822.000	10430.000	10090.000	71.163%	295.600
2	18:30:54	21470.000	1494.000	0.000	6835.000	10310.000	10170.000	71.719%	287.900
3	18:31:37	21310.000	1487.000	0.000	6796.000	10680.000	10030.000	72.758%	292.900
x		21400.000	1496.000	0.000	6818.000	10470.000	10100.000	71.880%	292.200
σ		81.980	10.280	0.000	19.600	189.700	74.110	0.809%	3.896
%RSD		0.383	0.687	0.000	0.287	1.811	0.734	1.126	1.334
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:11	87.150	59.480	19770.000	25030.000	24560.000	59.280	90.830	40.680
2	18:30:54	87.340	59.440	19650.000	25010.000	24720.000	59.880	90.170	40.320
3	18:31:37	87.460	59.910	19520.000	24880.000	24530.000	59.000	89.570	40.990
x		87.320	59.610	19640.000	24970.000	24600.000	59.390	90.190	40.660
σ		0.154	0.260	125.100	78.030	102.300	0.448	0.631	0.337
%RSD		0.176	0.437	0.637	0.312	0.416	0.754	0.699	0.829
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:11	40.470	180.800	178.900	18.420	0.747	0.708	0.000	152.100
2	18:30:54	40.680	182.800	183.800	17.700	0.556	0.444	0.000	154.400
3	18:31:37	41.420	182.200	183.200	17.720	0.435	0.473	0.000	155.200
x		40.860	181.900	182.000	17.950	0.580	0.542	0.000	153.900
σ		0.499	1.061	2.663	0.409	0.157	0.145	0.000	1.591
%RSD		1.222	0.583	1.463	2.281	27.070	26.690	0.000	1.034
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:11	77.892%	86.210	86.620	72.714%	5.346	5.419	5.599	4.791
2	18:30:54	79.386%	89.190	88.580	74.334%	5.424	5.491	5.978	5.347
3	18:31:37	79.399%	90.290	90.870	75.027%	5.505	5.321	5.682	5.329
x		78.892%	88.560	88.690	74.025%	5.425	5.410	5.753	5.155
σ		0.866%	2.110	2.130	1.187%	0.079	0.085	0.200	0.316
%RSD		1.098	2.383	2.401	1.604	1.464	1.579	3.468	6.128
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:11	74.161%	65.800	13.090	12.750	1024.000	1017.000	77.270%	78.412%
2	18:30:54	75.581%	67.640	12.990	13.400	1039.000	1027.000	79.702%	79.763%
3	18:31:37	77.521%	66.880	12.750	12.840	1014.000	1012.000	81.011%	81.205%
x		75.755%	66.770	12.940	13.000	1025.000	1018.000	79.328%	79.793%
σ		1.687%	0.922	0.175	0.352	12.300	7.681	1.899%	1.397%
%RSD		2.227	1.381	1.350	2.707	1.200	0.754	2.393	1.750
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:30:11	5.349	5.329	25.530	25.510	25.480	74.515%		
2	18:30:54	5.423	5.428	25.920	25.660	25.950	75.025%		
3	18:31:37	5.340	5.422	26.170	26.470	26.110	75.437%		
x		5.371	5.393	25.880	25.880	25.850	74.992%		
σ		0.046	0.055	0.322	0.517	0.325	0.462%		
%RSD		0.849	1.027	1.243	1.999	1.258	0.616		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	70.552%	6.283	115.400	111.100	0.000	5789.000	8253.000	8253.000
2	18:39:09	69.145%	6.344	119.100	116.700	0.000	5959.000	8442.000	8519.000
3	18:39:52	70.067%	6.531	114.100	115.100	0.000	5885.000	8381.000	8379.000
x		69.921%	6.386	116.200	114.300	0.000	5878.000	8359.000	8384.000
σ		0.715%	0.129	2.615	2.878	0.000	85.680	96.100	133.100
%RSD		1.023	2.022	2.250	2.518	0.000	1.458	1.150	1.587

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	14560.000	1942.000	0.000	6544.000	9755.000	9573.000	71.333%	243.600
2	18:39:09	14720.000	1979.000	0.000	6670.000	9926.000	9756.000	71.143%	246.200
3	18:39:52	14670.000	1978.000	0.000	6612.000	10200.000	9744.000	72.324%	244.800
x		14650.000	1966.000	0.000	6609.000	9961.000	9691.000	71.600%	244.900
σ		81.210	20.840	0.000	63.220	226.000	102.300	0.635%	1.327
%RSD		0.554	1.060	0.000	0.957	2.269	1.056	0.886	0.542

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	83.060	55.540	14390.000	23370.000	22720.000	64.400	92.490	42.400
2	18:39:09	82.670	55.830	14480.000	23640.000	23110.000	65.290	92.870	41.860
3	18:39:52	82.580	55.580	14390.000	23420.000	23030.000	65.120	93.030	41.760
x		82.770	55.650	14420.000	23470.000	22950.000	64.940	92.800	42.010
σ		0.254	0.155	51.710	142.100	207.100	0.473	0.275	0.344
%RSD		0.306	0.279	0.358	0.605	0.902	0.728	0.296	0.818

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	43.110	170.400	170.300	16.850	1.026	0.995	0.000	158.800
2	18:39:09	42.510	172.000	170.200	16.980	0.766	1.212	0.000	157.500
3	18:39:52	42.690	171.400	171.600	17.590	0.263	1.213	0.000	156.800
x		42.770	171.300	170.700	17.140	0.685	1.140	0.000	157.700
σ		0.308	0.781	0.800	0.394	0.388	0.126	0.000	1.012
%RSD		0.721	0.456	0.469	2.300	56.650	11.010	0.000	0.642

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	75.932%	105.200	105.300	72.982%	6.155	6.061	6.261	5.299
2	18:39:09	77.819%	107.500	107.400	74.146%	5.829	6.135	5.706	5.410
3	18:39:52	79.065%	109.000	107.200	75.117%	5.879	6.121	6.157	5.091
x		77.605%	107.200	106.600	74.081%	5.954	6.105	6.042	5.266
σ		1.578%	1.915	1.147	1.069%	0.176	0.039	0.295	0.162
%RSD		2.033	1.786	1.076	1.443	2.948	0.642	4.884	3.077

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	74.403%	209.500	47.330	48.280	556.400	548.200	77.102%	77.874%
2	18:39:09	76.235%	212.300	49.840	50.010	569.700	563.700	78.960%	80.229%
3	18:39:52	77.946%	212.400	49.870	49.450	558.300	558.600	81.013%	80.870%
x		76.195%	211.400	49.010	49.250	561.500	556.800	79.025%	79.657%
σ		1.772%	1.662	1.457	0.883	7.163	7.912	1.957%	1.577%
%RSD		2.325	0.786	2.973	1.793	1.276	1.421	2.476	1.980

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:26	6.016	5.949	32.230	31.810	31.930	73.437%
2	18:39:09	6.081	6.199	32.100	32.250	32.400	74.878%
3	18:39:52	6.270	6.176	32.230	32.510	32.240	75.906%
x		6.122	6.108	32.190	32.190	32.190	74.740%
σ		0.132	0.138	0.073	0.358	0.238	1.240%
%RSD		2.161	2.258	0.226	1.111	0.740	1.659

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:39	73.750%	0.084	2.937	3.023	0.000	192.400	201.100	203.200
2	18:47:22	74.421%	0.102	2.712	2.931	0.000	196.000	204.500	208.100
3	18:48:05	74.772%	0.156	3.835	3.147	0.000	196.800	203.400	200.200
x		74.315%	0.114	3.161	3.034	0.000	195.100	203.000	203.800
σ		0.519%	0.037	0.594	0.108	0.000	2.327	1.743	4.004
%RSD		0.699	32.680	18.800	3.562	0.000	1.193	0.859	1.964
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:39	1300.000	-46.660	0.000	17.740	156.800	132.300	72.042%	10.690
2	18:47:22	1309.000	-41.610	0.000	20.370	162.900	127.900	72.512%	10.820
3	18:48:05	1304.000	-46.400	0.000	13.780	164.500	129.000	73.355%	9.928
x		1304.000	-44.890	0.000	17.300	161.400	129.700	72.636%	10.480
σ		4.260	2.844	0.000	3.313	4.068	2.325	0.665%	0.483
%RSD		0.327	6.337	0.000	19.160	2.520	1.792	0.916	4.608
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:39	3.696	1.713	2840.000	2738.000	2601.000	1.264	4.042	1.791
2	18:47:22	3.319	1.802	2852.000	2725.000	2588.000	1.195	3.818	2.080
3	18:48:05	3.606	1.762	2835.000	2705.000	2606.000	1.218	3.776	1.878
x		3.540	1.759	2842.000	2723.000	2598.000	1.226	3.878	1.916
σ		0.197	0.045	8.405	16.820	9.681	0.035	0.143	0.148
%RSD		5.563	2.550	0.296	0.618	0.373	2.883	3.691	7.747
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:39	2.122	17.380	17.660	1.851	-0.677	0.307	0.000	4.131
2	18:47:22	2.061	18.060	17.830	1.389	-0.687	-0.851	0.000	3.962
3	18:48:05	2.047	17.910	18.960	1.751	-0.454	-0.089	0.000	4.092
x		2.077	17.780	18.150	1.664	-0.606	-0.211	0.000	4.062
σ		0.040	0.355	0.704	0.243	0.132	0.588	0.000	0.089
%RSD		1.906	1.999	3.881	14.620	21.740	278.600	0.000	2.184
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:39	76.595%	0.551	0.516	78.244%	0.036	0.021	0.021	0.054
2	18:47:22	78.478%	0.406	0.466	80.335%	0.056	0.027	-0.042	-0.004
3	18:48:05	79.145%	0.492	0.415	80.885%	0.031	0.015	0.046	0.094
x		78.073%	0.483	0.466	79.821%	0.041	0.021	0.008	0.048
σ		1.322%	0.073	0.050	1.393%	0.013	0.006	0.045	0.049
%RSD		1.694	15.120	10.820	1.746	32.150	27.540	546.000	102.500
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:39	77.940%	0.652	0.410	0.353	118.000	115.400	78.511%	79.324%
2	18:47:22	81.388%	0.493	0.268	0.302	118.800	114.700	80.885%	81.196%
3	18:48:05	81.483%	0.438	0.285	0.295	115.900	118.200	81.759%	82.645%
x		80.270%	0.528	0.321	0.317	117.600	116.100	80.385%	81.055%
σ		2.019%	0.111	0.077	0.031	1.515	1.860	1.681%	1.665%
%RSD		2.515	21.030	24.060	9.932	1.289	1.602	2.091	2.054
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:46:39	0.032	0.029	5.534	5.507	5.524	64.562%		
2	18:47:22	0.044	0.029	5.685	5.678	5.512	65.937%		
3	18:48:05	0.038	0.026	5.508	5.787	5.531	67.521%		
x		0.038	0.028	5.576	5.657	5.522	66.007%		
σ		0.006	0.002	0.096	0.141	0.010	1.481%		
%RSD		15.710	6.995	1.715	2.489	0.175	2.243		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	73.395%	0.085	1.590	2.929	0.000	205.600	531.100	530.900
2	18:55:35	75.063%	0.209	3.048	2.845	0.000	198.900	536.100	532.700
3	18:56:18	75.629%	0.027	2.649	2.164	0.000	194.800	532.000	535.300
x		74.696%	0.107	2.429	2.646	0.000	199.800	533.100	533.000
σ		1.162%	0.093	0.754	0.419	0.000	5.442	2.678	2.228
%RSD		1.555	87.150	31.020	15.850	0.000	2.724	0.502	0.418

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	1258.000	-25.230	0.000	79.340	699.800	679.900	73.574%	13.370
2	18:55:35	1242.000	-38.630	0.000	72.650	698.700	674.300	75.550%	14.350
3	18:56:18	1258.000	-41.140	0.000	77.420	768.900	649.500	75.054%	14.100
x		1252.000	-35.000	0.000	76.470	722.400	667.900	74.726%	13.940
σ		9.491	8.555	0.000	3.448	40.200	16.180	1.028%	0.511
%RSD		0.758	24.440	0.000	4.508	5.565	2.422	1.375	3.666

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	3.090	4.511	5299.000	2402.000	2306.000	1.397	5.622	2.548
2	18:55:35	3.169	4.518	5247.000	2366.000	2298.000	1.347	5.781	2.546
3	18:56:18	3.167	4.443	5318.000	2279.000	2324.000	1.418	5.608	2.596
x		3.142	4.491	5288.000	2349.000	2309.000	1.388	5.671	2.563
σ		0.045	0.041	36.320	63.420	13.640	0.037	0.096	0.028
%RSD		1.437	0.923	0.687	2.700	0.591	2.642	1.696	1.103

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	2.760	77.430	80.010	5.596	-0.885	0.795	0.000	10.850
2	18:55:35	2.502	81.220	80.060	5.139	-0.597	0.490	0.000	10.700
3	18:56:18	2.860	79.510	83.000	5.691	0.054	-0.248	0.000	10.840
x		2.707	79.390	81.020	5.475	-0.476	0.346	0.000	10.800
σ		0.185	1.897	1.709	0.295	0.481	0.536	0.000	0.086
%RSD		6.825	2.390	2.109	5.389	101.000	155.200	0.000	0.801

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	78.774%	0.245	0.323	79.801%	0.505	0.470	0.197	0.203
2	18:55:35	80.036%	0.244	0.360	81.863%	0.579	0.527	0.121	0.183
3	18:56:18	80.925%	0.360	0.386	82.622%	0.584	0.541	0.132	0.154
x		79.912%	0.283	0.356	81.429%	0.556	0.513	0.150	0.180
σ		1.081%	0.066	0.032	1.459%	0.045	0.037	0.041	0.025
%RSD		1.352	23.490	8.922	1.792	8.005	7.294	27.490	13.700

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	79.302%	0.153	0.138	0.113	125.000	125.700	79.261%	80.951%
2	18:55:35	81.386%	0.160	0.090	0.105	129.400	128.200	81.912%	83.364%
3	18:56:18	82.460%	0.117	0.066	0.061	127.400	127.200	81.968%	83.661%
x		81.049%	0.143	0.098	0.093	127.200	127.000	81.047%	82.659%
σ		1.606%	0.023	0.037	0.028	2.190	1.244	1.547%	1.486%
%RSD		1.981	16.120	37.560	30.090	1.721	0.980	1.909	1.798

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:52	0.141	0.142	22.990	23.610	23.500	70.378%
2	18:55:35	0.125	0.144	23.890	24.500	23.970	72.812%
3	18:56:18	0.130	0.127	23.520	24.250	23.720	73.982%
x		0.132	0.138	23.470	24.120	23.730	72.391%
σ		0.008	0.009	0.454	0.463	0.234	1.839%
%RSD		6.085	6.695	1.935	1.921	0.987	2.540

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:03:05	71.811%	0.811	8.366	7.646	0.000	283.800	4232.000	4300.000
2	19:03:48	73.478%	1.108	8.452	7.839	0.000	287.500	4349.000	4318.000
3	19:04:31	74.679%	0.668	7.640	7.370	0.000	283.700	4178.000	4160.000
x		73.323%	0.862	8.153	7.618	0.000	285.000	4253.000	4259.000
σ		1.440%	0.224	0.446	0.236	0.000	2.177	87.510	86.490
%RSD		1.965	26.000	5.474	3.093	0.000	0.764	2.058	2.031
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:03:05	14600.000	664.400	0.000	754.500	15900.000	15120.000	72.110%	144.700
2	19:03:48	14450.000	648.300	0.000	762.700	15410.000	15190.000	73.464%	142.100
3	19:04:31	14110.000	627.200	0.000	738.300	15280.000	14770.000	74.411%	142.300
x		14380.000	646.600	0.000	751.800	15530.000	15030.000	73.328%	143.000
σ		251.300	18.680	0.000	12.450	329.100	227.900	1.156%	1.436
%RSD		1.747	2.888	0.000	1.656	2.119	1.517	1.577	1.004
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:03:05	24.190	81.120	3864.000	21610.000	20770.000	10.780	57.630	14.130
2	19:03:48	23.580	80.390	3880.000	21520.000	20870.000	10.550	57.890	14.550
3	19:04:31	23.810	79.310	3781.000	20950.000	20490.000	10.610	57.210	13.660
x		23.860	80.280	3842.000	21360.000	20710.000	10.640	57.580	14.110
σ		0.310	0.914	53.140	357.300	197.500	0.120	0.342	0.444
%RSD		1.301	1.139	1.383	1.672	0.954	1.122	0.593	3.148
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:03:05	13.820	51.750	53.210	15.320	-0.491	0.525	0.000	194.500
2	19:03:48	15.070	53.130	55.180	14.840	-0.375	-1.872	0.000	197.400
3	19:04:31	14.490	52.780	53.640	14.960	-0.300	-0.239	0.000	191.100
x		14.460	52.560	54.010	15.040	-0.389	-0.529	0.000	194.300
σ		0.629	0.717	1.034	0.251	0.096	1.224	0.000	3.179
%RSD		4.349	1.364	1.915	1.667	24.740	231.600	0.000	1.636
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:03:05	80.097%	2.565	2.638	76.140%	0.056	0.035	0.405	0.510
2	19:03:48	81.435%	2.705	2.664	77.601%	0.048	0.060	0.612	0.607
3	19:04:31	83.916%	2.642	2.771	79.444%	0.044	0.042	0.679	0.545
x		81.816%	2.637	2.691	77.728%	0.049	0.046	0.565	0.554
σ		1.938%	0.070	0.071	1.656%	0.006	0.013	0.143	0.049
%RSD		2.369	2.644	2.621	2.131	12.960	28.600	25.260	8.812
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:03:05	75.981%	0.340	0.089	0.067	184.500	179.500	77.365%	78.342%
2	19:03:48	77.882%	0.455	0.108	0.109	185.900	183.100	79.020%	79.460%
3	19:04:31	79.559%	0.269	0.067	0.091	181.400	179.600	79.592%	81.095%
x		77.807%	0.355	0.088	0.089	184.000	180.700	78.659%	79.632%
σ		1.790%	0.094	0.020	0.021	2.313	2.057	1.156%	1.385%
%RSD		2.301	26.560	22.870	23.840	1.257	1.138	1.470	1.739
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:03:05	0.200	0.178	43.530	43.660	43.730	71.855%		
2	19:03:48	0.173	0.164	43.970	45.070	44.640	73.415%		
3	19:04:31	0.163	0.165	44.070	44.730	44.430	74.198%		
x		0.178	0.169	43.860	44.490	44.270	73.156%		
σ		0.019	0.008	0.287	0.735	0.475	1.193%		
%RSD		10.610	4.695	0.655	1.651	1.073	1.630		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	75.098%	0.446	5.127	4.894	0.000	258.400	3296.000	3320.000
2	19:12:02	76.089%	0.745	5.800	4.400	0.000	259.900	3275.000	3287.000
3	19:12:45	76.558%	0.526	2.979	4.681	0.000	268.200	3270.000	3254.000
x		75.915%	0.572	4.635	4.659	0.000	262.200	3280.000	3287.000
σ		0.745%	0.155	1.474	0.248	0.000	5.280	13.900	33.020
%RSD		0.982	27.060	31.790	5.319	0.000	2.014	0.424	1.005

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	14110.000	582.900	0.000	776.600	1844.000	1748.000	75.462%	105.600
2	19:12:02	13820.000	542.300	0.000	770.300	1768.000	1754.000	76.035%	103.500
3	19:12:45	13720.000	550.400	0.000	764.900	1712.000	1724.000	75.901%	96.410
x		13880.000	558.500	0.000	770.600	1775.000	1742.000	75.799%	101.800
σ		198.400	21.470	0.000	5.816	66.390	15.810	0.300%	4.833
%RSD		1.429	3.844	0.000	0.755	3.741	0.908	0.395	4.745

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	28.680	104.100	3656.000	26950.000	26090.000	11.770	92.910	13.000
2	19:12:02	27.220	103.700	3641.000	26790.000	26120.000	11.610	91.130	13.060
3	19:12:45	26.610	103.400	3613.000	26590.000	25910.000	11.780	91.890	13.560
x		27.510	103.700	3636.000	26780.000	26040.000	11.720	91.980	13.200
σ		1.063	0.350	21.850	178.100	116.400	0.100	0.896	0.307
%RSD		3.865	0.337	0.601	0.665	0.447	0.855	0.974	2.328

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	12.800	47.420	48.650	11.110	-0.705	-0.356	0.000	20.750
2	19:12:02	13.910	47.830	50.150	10.950	-0.922	0.738	0.000	21.120
3	19:12:45	13.400	48.240	48.140	11.670	-0.043	0.197	0.000	21.070
x		13.370	47.830	48.980	11.240	-0.556	0.193	0.000	20.980
σ		0.553	0.410	1.046	0.378	0.458	0.547	0.000	0.200
%RSD		4.135	0.857	2.136	3.365	82.230	283.700	0.000	0.955

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	81.427%	1.017	1.047	78.850%	0.044	0.033	0.563	0.480
2	19:12:02	81.089%	1.256	1.126	79.676%	0.055	0.035	0.586	0.596
3	19:12:45	81.874%	1.213	1.163	80.249%	0.048	0.018	0.520	0.478
x		81.463%	1.162	1.112	79.592%	0.049	0.029	0.556	0.518
σ		0.394%	0.127	0.059	0.704%	0.006	0.009	0.033	0.068
%RSD		0.483	10.960	5.332	0.884	11.230	31.850	6.018	13.040

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	79.076%	0.209	0.056	0.042	170.500	170.500	79.594%	79.752%
2	19:12:02	79.132%	0.246	0.040	0.009	173.400	172.800	81.229%	81.498%
3	19:12:45	79.617%	0.206	0.027	0.017	173.400	171.800	81.555%	81.782%
x		79.275%	0.220	0.041	0.023	172.500	171.700	80.793%	81.011%
σ		0.297%	0.022	0.014	0.017	1.662	1.148	1.051%	1.099%
%RSD		0.375	10.130	35.210	75.400	0.964	0.668	1.301	1.357

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:11:19	0.212	0.198	16.760	16.460	16.710	76.937%
2	19:12:02	0.200	0.184	17.060	17.060	16.940	77.680%
3	19:12:45	0.171	0.171	17.130	16.430	16.710	78.436%
x		0.194	0.185	16.990	16.650	16.790	77.684%
σ		0.021	0.013	0.197	0.353	0.128	0.750%
%RSD		10.850	7.206	1.161	2.118	0.759	0.965

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	75.514%	0.117	1.990	1.929	0.000	181.000	335.200	331.900
2	19:20:16	77.849%	0.113	1.728	1.779	0.000	181.700	333.400	325.600
3	19:21:00	78.451%	0.129	1.437	1.516	0.000	187.900	320.000	320.000
x		77.272%	0.120	1.718	1.741	0.000	183.500	329.500	325.800
σ		1.551%	0.008	0.277	0.209	0.000	3.762	8.296	5.967
%RSD		2.008	6.981	16.120	12.010	0.000	2.050	2.517	1.831

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	1541.000	-6.269	0.000	155.200	466.100	324.600	76.288%	14.940
2	19:20:16	1521.000	-16.430	0.000	149.300	409.600	331.800	77.159%	13.970
3	19:21:00	1508.000	-6.299	0.000	150.400	389.200	334.700	77.824%	15.190
x		1523.000	-9.666	0.000	151.700	421.600	330.400	77.090%	14.700
σ		16.330	5.857	0.000	3.142	39.830	5.171	0.771%	0.646
%RSD		1.072	60.600	0.000	2.072	9.446	1.565	1.000	4.398

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	3.429	4.081	5970.000	2907.000	2793.000	2.770	7.872	3.054
2	19:20:16	3.221	4.170	5976.000	2921.000	2836.000	2.979	8.004	3.290
3	19:21:00	3.337	3.886	5867.000	2847.000	2746.000	2.868	7.766	3.006
x		3.329	4.046	5938.000	2892.000	2791.000	2.873	7.881	3.117
σ		0.104	0.145	61.130	38.850	44.890	0.104	0.119	0.152
%RSD		3.136	3.592	1.029	1.343	1.608	3.635	1.515	4.865

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	3.089	9.448	8.955	2.597	-0.438	-0.254	0.000	15.630
2	19:20:16	3.396	8.820	9.095	2.584	-1.020	0.516	0.000	15.700
3	19:21:00	3.211	9.199	8.743	2.645	-0.795	0.503	0.000	15.160
x		3.232	9.156	8.931	2.609	-0.751	0.255	0.000	15.500
σ		0.154	0.316	0.177	0.032	0.293	0.441	0.000	0.294
%RSD		4.775	3.455	1.985	1.230	39.070	172.900	0.000	1.900

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	79.270%	0.264	0.245	79.464%	0.001	-0.000	-0.028	0.001
2	19:20:16	79.969%	0.201	0.292	81.439%	-0.006	-0.003	0.109	0.077
3	19:21:00	82.402%	0.169	0.288	82.931%	0.002	0.001	0.027	0.028
x		80.547%	0.211	0.275	81.278%	-0.001	-0.001	0.036	0.035
σ		1.644%	0.048	0.026	1.739%	0.005	0.002	0.069	0.039
%RSD		2.041	22.890	9.598	2.140	397.400	261.600	190.500	110.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	79.123%	0.029	-0.002	-0.006	165.900	168.000	79.372%	79.521%
2	19:20:16	81.540%	0.062	0.010	0.016	169.600	166.000	80.829%	82.049%
3	19:21:00	82.618%	0.053	0.018	0.015	164.100	163.500	83.688%	83.546%
x		81.094%	0.048	0.009	0.008	166.500	165.800	81.296%	81.706%
σ		1.790%	0.017	0.010	0.012	2.784	2.260	2.195%	2.034%
%RSD		2.207	36.000	120.000	145.300	1.672	1.363	2.700	2.490

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:33	0.045	0.079	2.458	2.435	2.480	76.692%
2	19:20:16	0.058	0.074	2.464	2.490	2.489	78.688%
3	19:21:00	0.072	0.063	2.567	2.523	2.457	79.106%
x		0.058	0.072	2.496	2.483	2.475	78.162%
σ		0.014	0.008	0.062	0.044	0.016	1.290%
%RSD		23.140	11.130	2.466	1.787	0.665	1.650

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:48	79.366%	0.075	2.579	2.272	0.000	207.400	382.600	380.300
2	19:28:31	78.035%	0.077	2.627	2.368	0.000	210.100	398.500	395.100
3	19:29:14	80.572%	0.073	3.052	2.603	0.000	204.300	375.000	379.200
x		79.324%	0.075	2.753	2.414	0.000	207.200	385.300	384.900
σ		1.269%	0.002	0.260	0.170	0.000	2.878	11.990	8.865
%RSD		1.599	2.479	9.462	7.060	0.000	1.389	3.111	2.303
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:48	1045.000	-13.260	0.000	83.740	914.900	740.000	77.820%	13.150
2	19:28:31	1083.000	-6.040	0.000	89.430	885.100	762.800	78.786%	13.780
3	19:29:14	1051.000	-2.699	0.000	83.910	885.100	750.600	80.188%	12.710
x		1060.000	-7.332	0.000	85.690	895.000	751.100	78.931%	13.210
σ		20.710	5.396	0.000	3.240	17.240	11.390	1.191%	0.539
%RSD		1.954	73.600	0.000	3.781	1.926	1.517	1.508	4.081
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:48	2.592	5.097	4516.000	1671.000	1719.000	2.350	3.077	10.840
2	19:28:31	2.642	5.066	4578.000	1708.000	1754.000	2.414	3.195	10.960
3	19:29:14	1.998	5.023	4483.000	1676.000	1721.000	2.331	3.375	11.160
x		2.411	5.062	4525.000	1685.000	1732.000	2.365	3.215	10.990
σ		0.358	0.037	48.060	20.190	19.590	0.044	0.150	0.164
%RSD		14.850	0.735	1.062	1.198	1.131	1.846	4.666	1.493
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:48	10.780	9.445	8.957	26.590	-0.418	0.407	0.000	367.400
2	19:28:31	11.350	9.703	9.225	27.040	-0.876	1.189	0.000	375.500
3	19:29:14	10.900	10.360	9.553	27.180	-0.803	0.064	0.000	371.500
x		11.010	9.835	9.245	26.940	-0.699	0.553	0.000	371.500
σ		0.299	0.470	0.298	0.310	0.246	0.577	0.000	4.069
%RSD		2.713	4.780	3.226	1.151	35.160	104.300	0.000	1.095
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:48	80.843%	6.829	7.253	81.191%	-0.006	-0.010	0.029	0.042
2	19:28:31	81.299%	7.503	7.068	82.035%	-0.006	-0.001	-0.039	0.004
3	19:29:14	81.978%	7.820	7.710	82.682%	-0.015	-0.001	0.096	0.077
x		81.373%	7.384	7.344	81.969%	-0.009	-0.004	0.029	0.041
σ		0.571%	0.506	0.330	0.748%	0.005	0.005	0.068	0.037
%RSD		0.702	6.858	4.497	0.912	55.740	128.100	234.300	89.260
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:48	79.994%	0.003	0.011	-0.000	31.570	31.480	80.508%	81.664%
2	19:28:31	81.266%	0.015	-0.001	0.007	33.720	33.840	83.455%	83.458%
3	19:29:14	82.793%	0.036	0.005	0.001	32.770	32.470	82.824%	84.040%
x		81.351%	0.018	0.005	0.003	32.690	32.600	82.263%	83.054%
σ		1.402%	0.017	0.006	0.004	1.081	1.185	1.552%	1.239%
%RSD		1.723	91.450	129.000	159.300	3.308	3.634	1.886	1.491
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:27:48	0.030	0.028	88.810	91.110	90.980	77.958%		
2	19:28:31	0.016	0.040	90.070	91.780	91.910	80.139%		
3	19:29:14	0.018	0.025	89.970	93.000	92.250	80.260%		
x		0.021	0.031	89.620	91.970	91.710	79.452%		
σ		0.007	0.008	0.701	0.958	0.659	1.296%		
%RSD		34.190	25.790	0.782	1.041	0.719	1.631		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	75.434%	102.400	102.600	100.200	0.000	51640.000	52100.000	52510.000
2	19:36:45	76.691%	102.500	94.300	100.600	0.000	51390.000	51670.000	52030.000
3	19:37:28	77.765%	103.000	103.800	101.300	0.000	50680.000	51130.000	51350.000
x		76.630%	102.660%	100.216%	100.707%	0.000	102.478%	103.260%	103.928%
σ		1.167%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.523	0.298	5.149	0.536	0.000	0.977	0.942	1.115

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	527.700	5024.000	0.000	52910.000	51250.000	50740.000	73.440%	102.500
2	19:36:45	524.100	5008.000	0.000	52590.000	51990.000	50730.000	74.578%	102.500
3	19:37:28	521.100	4972.000	0.000	52220.000	52040.000	50090.000	75.133%	103.000
x		104.860%	100.028%	0.000	105.145%	103.520%	101.037%	74.384%	102.667%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.863%	n/a
%RSD		0.625	0.526	0.000	0.654	0.860	0.738	1.160	0.296

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	106.300	103.800	524.300	26720.000	25970.000	105.600	105.700	105.000
2	19:36:45	105.300	104.900	521.300	26420.000	25950.000	105.900	106.300	104.600
3	19:37:28	102.400	103.100	517.600	26220.000	26100.000	104.700	104.300	105.800
x		104.654%	103.934%	104.214%	105.821%	104.023%	105.385%	105.450%	105.139%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.922	0.878	0.648	0.957	0.332	0.599	0.962	0.602

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	108.300	103.400	104.200	101.000	100.000	100.800	0.000	102.700
2	19:36:45	107.000	104.800	100.500	101.900	103.200	104.500	0.000	103.100
3	19:37:28	106.500	101.600	99.750	103.200	98.850	99.300	0.000	101.900
x		107.262%	103.258%	101.475%	102.044%	100.694%	101.531%	0.000	102.598%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.872	1.575	2.334	1.059	2.242	2.606	0.000	0.597

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	74.531%	102.700	101.400	74.615%	104.300	102.400	101.300	101.400
2	19:36:45	76.060%	105.800	104.900	75.637%	104.400	103.200	100.700	100.700
3	19:37:28	77.946%	106.600	103.600	77.034%	103.900	102.300	101.200	100.200
x		76.179%	105.044%	103.313%	75.762%	104.211%	102.607%	101.097%	100.734%
σ		1.710%	n/a	n/a	1.214%	n/a	n/a	n/a	n/a
%RSD		2.245	1.976	1.693	1.602	0.272	0.479	0.315	0.601

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	75.676%	99.060	100.000	99.650	102.300	101.700	77.291%	78.301%
2	19:36:45	77.591%	99.730	100.500	99.910	104.100	101.700	79.507%	80.052%
3	19:37:28	78.974%	98.750	99.460	100.100	102.000	103.400	80.039%	81.020%
x		77.414%	99.180%	99.992%	99.886%	102.779%	102.240%	78.946%	79.791%
σ		1.656%	n/a	n/a	n/a	n/a	n/a	1.458%	1.378%
%RSD		2.139	0.507	0.509	0.223	1.120	0.954	1.846	1.727

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:02	102.800	103.100	104.000	103.500	103.600	73.010%
2	19:36:45	102.300	103.900	104.600	104.300	104.700	74.706%
3	19:37:28	104.700	104.800	103.700	104.600	104.200	74.821%
x		103.267%	103.930%	104.079%	104.139%	104.170%	74.179%
σ		n/a	n/a	n/a	n/a	n/a	1.014%
%RSD		1.215	0.835	0.444	0.593	0.504	1.367

CCB4 4/12/2013 7:43:36 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	110.686%	-0.033	0.695	1.011	0.000	60.670	1.847	2.203
2	19:45:02	111.540%	0.005	0.619	0.822	0.000	68.860	3.842	3.493
3	19:45:45	111.241%	-0.008	1.281	0.687	0.000	67.180	1.332	2.209
x		111.156%	-0.012	0.865	0.840	0.000	65.570	2.340	2.635
σ		0.433%	0.019	0.362	0.163	0.000	4.328	1.326	0.743
%RSD		0.390	160.000	41.870	19.380	0.000	6.601	56.640	28.200

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	0.169	-242.500	0.000	-90.520	-0.418	-37.900	84.236%	0.049
2	19:45:02	0.114	-244.100	0.000	-91.410	8.797	-39.550	84.038%	0.019
3	19:45:45	0.139	-244.600	0.000	-90.480	5.647	-34.020	84.533%	0.110
x		0.141	-243.700	0.000	-90.810	4.675	-37.160	84.269%	0.059
σ		0.027	1.134	0.000	0.527	4.684	2.839	0.249%	0.047
%RSD		19.520	0.465	0.000	0.580	100.200	7.641	0.296	78.550

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	0.390	0.176	0.228	-3.621	-0.363	-0.018	0.011	-0.064
2	19:45:02	0.492	0.102	0.246	-4.668	-0.706	-0.012	0.010	-0.033
3	19:45:45	0.816	0.126	0.160	-6.561	-1.625	-0.014	0.038	-0.092
x		0.566	0.135	0.211	-4.950	-0.898	-0.015	0.019	-0.063
σ		0.222	0.038	0.045	1.490	0.652	0.003	0.016	0.030
%RSD		39.310	27.990	21.490	30.100	72.670	20.660	81.250	46.910

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	-0.043	-0.924	-0.975	0.062	-0.986	-0.587	0.000	0.023
2	19:45:02	-0.068	-0.838	-0.864	0.031	-1.382	-1.257	0.000	0.037
3	19:45:45	-0.101	-0.910	-0.767	-0.061	-0.834	-0.323	0.000	0.011
x		-0.071	-0.891	-0.869	0.010	-1.067	-0.722	0.000	0.023
σ		0.029	0.047	0.104	0.064	0.283	0.482	0.000	0.013
%RSD		41.080	5.222	11.970	614.100	26.500	66.730	0.000	57.010

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	83.406%	0.137	0.189	92.321%	0.000	0.028	0.006	0.024
2	19:45:02	84.529%	0.158	0.208	92.559%	0.006	0.025	-0.070	-0.043
3	19:45:45	84.588%	0.204	0.151	93.026%	0.006	-0.003	-0.019	-0.004
x		84.175%	0.167	0.183	92.636%	0.004	0.017	-0.028	-0.008
σ		0.666%	0.034	0.029	0.359%	0.003	0.017	0.039	0.034
%RSD		0.791	20.540	15.720	0.387	84.450	100.300	139.300	451.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	84.212%	0.122	0.004	-0.000	-0.015	-0.014	86.816%	87.146%
2	19:45:02	86.001%	0.092	-0.008	-0.012	-0.027	0.012	87.205%	87.934%
3	19:45:45	86.459%	0.122	-0.015	-0.031	-0.015	0.050	89.631%	88.658%
x		85.558%	0.112	-0.006	-0.015	-0.019	0.016	87.884%	87.913%
σ		1.187%	0.017	0.009	0.016	0.007	0.032	1.525%	0.756%
%RSD		1.388	15.500	147.200	107.500	35.010	203.600	1.735	0.860

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:19	-0.003	0.008	0.114	0.072	0.093	83.311%
2	19:45:02	0.002	0.003	0.087	0.082	0.083	83.403%
3	19:45:45	-0.007	-0.003	0.058	0.077	0.076	84.901%
x		-0.002	0.003	0.086	0.077	0.084	83.871%
σ		0.005	0.006	0.028	0.005	0.009	0.892%
%RSD		192.400	209.000	31.890	7.002	10.360	1.064

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:36	72.713%	0.630	11.060	11.830	0.000	395.000	2920.000	2957.000
2	19:53:19	71.774%	0.676	12.590	11.920	0.000	416.300	2996.000	3026.000
3	19:54:02	73.015%	0.553	11.510	11.190	0.000	414.500	2964.000	2980.000
x		72.501%	0.620	11.720	11.650	0.000	408.600	2960.000	2988.000
σ		0.647%	0.062	0.787	0.400	0.000	11.810	37.880	35.030
%RSD		0.893	10.080	6.717	3.436	0.000	2.891	1.280	1.172
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:36	13330.000	595.400	0.000	1439.000	1719.000	1482.000	74.374%	116.600
2	19:53:19	13550.000	608.900	0.000	1475.000	1747.000	1496.000	73.795%	118.400
3	19:54:02	13430.000	595.700	0.000	1462.000	1673.000	1471.000	74.050%	114.500
x		13440.000	600.000	0.000	1459.000	1713.000	1483.000	74.073%	116.500
σ		106.900	7.725	0.000	17.990	37.520	12.560	0.291%	1.980
%RSD		0.796	1.288	0.000	1.233	2.191	0.847	0.392	1.699
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:36	25.840	30.220	6110.000	22250.000	21460.000	10.880	29.010	28.820
2	19:53:19	25.580	29.800	6154.000	22230.000	21710.000	10.450	29.440	28.600
3	19:54:02	24.770	30.050	6047.000	22020.000	21530.000	10.980	28.450	28.940
x		25.400	30.020	6104.000	22170.000	21570.000	10.770	28.970	28.790
σ		0.557	0.210	53.990	127.800	127.000	0.283	0.501	0.169
%RSD		2.194	0.701	0.884	0.577	0.589	2.630	1.730	0.588
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:36	28.980	64.780	64.440	191.100	-0.425	-0.064	0.000	828.900
2	19:53:19	28.900	66.320	67.260	191.700	0.022	1.022	0.000	841.100
3	19:54:02	28.250	66.110	66.240	189.300	-0.189	-1.267	0.000	837.300
x		28.710	65.740	65.980	190.700	-0.197	-0.103	0.000	835.800
σ		0.405	0.835	1.427	1.254	0.224	1.145	0.000	6.271
%RSD		1.410	1.271	2.162	0.657	113.400	1110.000	0.000	0.750
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:36	78.973%	38.440	38.990	75.544%	0.040	0.040	0.260	0.210
2	19:53:19	79.379%	39.920	39.500	76.726%	0.049	0.039	0.262	0.151
3	19:54:02	80.188%	39.870	39.560	77.096%	0.057	0.034	0.310	0.210
x		79.513%	39.410	39.350	76.456%	0.049	0.038	0.277	0.190
σ		0.618%	0.842	0.311	0.811%	0.009	0.003	0.028	0.034
%RSD		0.778	2.136	0.790	1.060	17.510	9.157	10.180	17.930
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:36	75.839%	0.243	0.033	0.033	111.200	112.300	77.737%	78.684%
2	19:53:19	76.741%	0.299	0.030	0.038	112.300	112.000	79.402%	79.787%
3	19:54:02	78.281%	0.215	0.052	-0.011	112.400	111.400	80.281%	80.514%
x		76.954%	0.252	0.039	0.020	112.000	111.900	79.140%	79.662%
σ		1.235%	0.043	0.012	0.027	0.685	0.427	1.292%	0.922%
%RSD		1.605	17.020	31.040	136.800	0.611	0.381	1.633	1.157
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:52:36	0.166	0.173	168.500	171.200	172.300	74.540%		
2	19:53:19	0.178	0.165	170.300	174.800	174.900	75.523%		
3	19:54:02	0.155	0.186	169.800	174.900	174.600	76.224%		
x		0.166	0.175	169.600	173.600	173.900	75.429%		
σ		0.012	0.011	0.923	2.137	1.448	0.846%		
%RSD		7.057	6.112	0.544	1.231	0.833	1.122		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	76.162%	0.044	2.059	1.732	0.000	243.800	407.500	401.700
2	20:01:35	76.933%	0.025	2.307	1.841	0.000	249.000	393.600	408.600
3	20:02:18	76.596%	0.008	0.559	1.982	0.000	252.600	402.700	401.400
x		76.564%	0.026	1.641	1.852	0.000	248.400	401.200	403.900
σ		0.387%	0.018	0.946	0.125	0.000	4.427	7.067	4.079
%RSD		0.505	70.070	57.620	6.759	0.000	1.782	1.761	1.010

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	1292.000	-38.580	0.000	117.500	599.700	539.600	77.140%	14.420
2	20:01:35	1297.000	-18.110	0.000	119.000	664.700	528.300	77.831%	14.870
3	20:02:18	1307.000	-26.280	0.000	113.900	646.300	544.200	78.471%	14.260
x		1299.000	-27.650	0.000	116.800	636.900	537.400	77.814%	14.520
σ		7.364	10.300	0.000	2.580	33.510	8.173	0.666%	0.318
%RSD		0.567	37.260	0.000	2.209	5.261	1.521	0.856	2.189

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	3.110	1.814	6140.000	2137.000	2209.000	8.776	3.320	13.400
2	20:01:35	3.030	1.719	6072.000	2141.000	2183.000	8.743	3.441	13.100
3	20:02:18	3.043	1.880	6117.000	2241.000	2217.000	8.760	4.016	13.340
x		3.061	1.804	6110.000	2173.000	2203.000	8.760	3.592	13.280
σ		0.043	0.081	34.290	58.520	17.750	0.017	0.372	0.157
%RSD		1.396	4.485	0.561	2.693	0.806	0.189	10.350	1.181

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	13.930	6.301	6.093	11.530	-0.648	0.165	0.000	167.800
2	20:01:35	13.550	6.315	5.760	10.510	-0.834	-0.239	0.000	166.100
3	20:02:18	13.210	6.028	6.501	11.280	-0.670	0.787	0.000	168.100
x		13.560	6.215	6.118	11.110	-0.717	0.238	0.000	167.300
σ		0.359	0.162	0.371	0.531	0.102	0.517	0.000	1.094
%RSD		2.647	2.600	6.065	4.783	14.150	217.200	0.000	0.654

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	78.382%	6.124	6.392	78.842%	-0.006	-0.005	0.041	0.043
2	20:01:35	80.507%	5.689	6.252	81.130%	-0.002	0.002	0.017	-0.002
3	20:02:18	80.679%	6.496	6.285	81.904%	0.002	-0.001	0.019	0.005
x		79.856%	6.103	6.310	80.625%	-0.002	-0.002	0.026	0.015
σ		1.280%	0.404	0.073	1.592%	0.004	0.003	0.013	0.024
%RSD		1.603	6.619	1.158	1.975	226.500	217.900	51.490	155.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	79.439%	0.063	-0.026	-0.024	54.760	55.510	79.599%	79.999%
2	20:01:35	81.016%	0.043	-0.003	-0.030	57.480	54.750	82.131%	83.540%
3	20:02:18	82.118%	0.041	-0.004	-0.025	55.710	55.540	83.227%	83.838%
x		80.858%	0.049	-0.011	-0.026	55.980	55.270	81.652%	82.459%
σ		1.346%	0.012	0.013	0.003	1.382	0.447	1.861%	2.136%
%RSD		1.665	25.000	115.400	13.190	2.469	0.808	2.279	2.590

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:52	0.098	0.110	13.440	13.820	13.830	76.588%
2	20:01:35	0.091	0.113	13.250	13.460	13.790	78.413%
3	20:02:18	0.083	0.110	13.760	14.320	13.910	79.415%
x		0.090	0.111	13.480	13.860	13.840	78.139%
σ		0.008	0.002	0.258	0.430	0.062	1.433%
%RSD		8.566	1.533	1.910	3.103	0.447	1.834

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	77.657%	0.007	1.184	2.010	0.000	191.600	360.700	371.800
2	20:09:51	78.640%	0.024	1.520	2.050	0.000	198.600	362.800	363.500
3	20:10:34	78.970%	0.093	2.860	2.020	0.000	193.100	360.700	358.600
x		78.422%	0.041	1.855	2.027	0.000	194.400	361.400	364.700
σ		0.683%	0.045	0.887	0.021	0.000	3.712	1.237	6.663
%RSD		0.871	109.600	47.800	1.018	0.000	1.909	0.342	1.827

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	1519.000	-27.260	0.000	202.400	425.000	293.900	77.443%	16.530
2	20:09:51	1518.000	-21.950	0.000	203.400	385.800	278.400	78.524%	15.800
3	20:10:34	1501.000	-27.660	0.000	196.600	328.100	280.700	78.814%	15.350
x		1512.000	-25.620	0.000	200.800	379.600	284.300	78.260%	15.890
σ		10.010	3.185	0.000	3.698	48.760	8.357	0.723%	0.599
%RSD		0.662	12.430	0.000	1.842	12.840	2.939	0.923	3.768

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	3.043	1.995	3485.000	2954.000	2814.000	3.276	3.779	4.713
2	20:09:51	3.166	1.914	3424.000	2905.000	2808.000	3.171	3.052	4.562
3	20:10:34	2.988	1.998	3380.000	2869.000	2762.000	3.153	2.858	4.804
x		3.066	1.969	3430.000	2909.000	2795.000	3.200	3.229	4.693
σ		0.091	0.048	52.720	42.450	28.290	0.066	0.486	0.123
%RSD		2.962	2.430	1.537	1.459	1.012	2.072	15.040	2.609

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	4.661	6.908	6.782	19.190	-0.474	-0.184	0.000	239.400
2	20:09:51	4.805	6.590	6.076	19.980	-0.568	-0.249	0.000	236.300
3	20:10:34	4.301	6.203	6.834	19.640	-0.398	0.527	0.000	234.400
x		4.589	6.567	6.564	19.610	-0.480	0.031	0.000	236.700
σ		0.260	0.353	0.423	0.395	0.085	0.430	0.000	2.503
%RSD		5.656	5.376	6.448	2.014	17.730	1377.000	0.000	1.057

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	78.289%	10.380	10.770	79.682%	-0.001	-0.005	0.134	0.089
2	20:09:51	80.206%	11.010	10.490	81.177%	-0.013	-0.005	-0.015	-0.006
3	20:10:34	81.353%	11.010	10.720	81.636%	-0.011	0.006	-0.015	-0.012
x		79.949%	10.800	10.660	80.832%	-0.008	-0.002	0.034	0.024
σ		1.548%	0.365	0.152	1.022%	0.006	0.006	0.086	0.057
%RSD		1.936	3.376	1.424	1.264	73.370	406.000	250.000	237.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	78.917%	0.043	-0.019	-0.018	26.710	25.030	80.568%	79.528%
2	20:09:51	81.040%	0.039	0.008	-0.018	26.160	25.890	82.468%	82.402%
3	20:10:34	82.608%	0.037	-0.024	-0.028	25.550	24.910	83.452%	83.421%
x		80.855%	0.040	-0.012	-0.021	26.140	25.270	82.163%	81.783%
σ		1.852%	0.003	0.017	0.005	0.579	0.532	1.466%	2.019%
%RSD		2.291	7.758	147.300	25.940	2.214	2.104	1.784	2.469

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:09:08	0.090	0.091	14.430	14.590	14.610	76.192%
2	20:09:51	0.083	0.080	14.130	14.590	14.550	77.944%
3	20:10:34	0.086	0.081	13.960	14.120	14.350	79.145%
x		0.086	0.084	14.170	14.430	14.500	77.760%
σ		0.003	0.006	0.234	0.271	0.138	1.485%
%RSD		4.047	7.066	1.649	1.879	0.952	1.910

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	76.130%	0.959	1.966	1.887	0.000	168.000	1457.000	1479.000
2	20:18:08	77.036%	0.823	2.582	2.068	0.000	174.000	1485.000	1484.000
3	20:18:53	76.350%	0.777	1.681	2.053	0.000	177.900	1479.000	1477.000
x		76.505%	0.853	2.076	2.003	0.000	173.300	1474.000	1480.000
σ		0.472%	0.094	0.460	0.101	0.000	4.975	15.000	3.803
%RSD		0.618	11.050	22.180	5.040	0.000	2.871	1.018	0.257

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	13040.000	454.800	0.000	530.400	980.700	797.600	77.260%	103.500
2	20:18:08	13050.000	448.000	0.000	530.400	905.200	817.300	77.318%	109.200
3	20:18:53	12950.000	435.300	0.000	533.900	833.600	826.400	77.096%	107.100
x		13010.000	446.000	0.000	531.600	906.500	813.800	77.225%	106.600
σ		56.630	9.933	0.000	1.992	73.590	14.750	0.115%	2.887
%RSD		0.435	2.227	0.000	0.375	8.118	1.813	0.149	2.708

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	32.190	14.690	4371.000	30170.000	29020.000	19.470	13.120	5.057
2	20:18:08	32.540	15.040	4360.000	30060.000	29300.000	19.080	12.760	5.157
3	20:18:53	32.800	15.120	4376.000	30070.000	29200.000	18.970	12.580	5.073
x		32.510	14.950	4369.000	30100.000	29170.000	19.170	12.820	5.096
σ		0.305	0.233	8.229	61.590	137.900	0.265	0.278	0.053
%RSD		0.940	1.559	0.188	0.205	0.473	1.385	2.165	1.046

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	5.223	41.340	43.170	13.190	0.212	-0.450	0.000	5.888
2	20:18:08	5.048	43.510	43.450	13.400	-0.342	0.016	0.000	5.981
3	20:18:53	4.799	44.320	44.120	13.670	0.216	1.063	0.000	5.917
x		5.023	43.060	43.580	13.420	0.029	0.210	0.000	5.929
σ		0.213	1.540	0.486	0.241	0.321	0.775	0.000	0.047
%RSD		4.235	3.576	1.116	1.796	1126.000	369.400	0.000	0.799

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	80.553%	1.695	1.527	78.406%	0.026	0.019	0.088	0.063
2	20:18:08	80.823%	1.445	1.422	79.459%	0.037	0.049	0.118	0.110
3	20:18:53	81.002%	1.415	1.448	79.759%	0.037	0.047	0.101	0.136
x		80.793%	1.518	1.466	79.208%	0.034	0.038	0.102	0.103
σ		0.226%	0.153	0.055	0.710%	0.006	0.017	0.015	0.037
%RSD		0.279	10.110	3.738	0.897	18.180	43.710	15.090	36.040

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	78.254%	0.226	0.003	0.004	124.600	125.600	79.714%	80.015%
2	20:18:08	79.606%	0.175	-0.007	-0.009	127.700	126.500	81.736%	80.965%
3	20:18:53	79.254%	0.197	0.009	0.003	126.100	124.700	81.731%	82.834%
x		79.038%	0.199	0.001	-0.001	126.100	125.600	81.060%	81.271%
σ		0.701%	0.025	0.008	0.007	1.524	0.888	1.166%	1.434%
%RSD		0.887	12.640	572.200	801.400	1.208	0.707	1.438	1.764

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:25	0.237	0.218	19.610	19.320	19.300	76.889%
2	20:18:08	0.232	0.223	19.460	19.430	19.380	77.742%
3	20:18:53	0.204	0.215	19.950	19.460	19.600	77.869%
x		0.224	0.218	19.670	19.400	19.430	77.500%
σ		0.017	0.004	0.250	0.074	0.157	0.533%
%RSD		7.789	1.914	1.271	0.381	0.807	0.688

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	75.369%	0.825	3.411	3.980	0.000	190.300	1647.000	1640.000
2	20:26:12	75.217%	0.936	4.841	4.152	0.000	193.700	1630.000	1657.000
3	20:26:55	75.587%	0.968	4.348	4.697	0.000	192.500	1615.000	1636.000
x		75.391%	0.909	4.200	4.276	0.000	192.200	1631.000	1645.000
σ		0.186%	0.075	0.726	0.374	0.000	1.741	15.780	11.220
%RSD		0.246	8.279	17.290	8.752	0.000	0.906	0.968	0.682

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	12440.000	1203.000	0.000	1045.000	1082.000	947.800	75.577%	122.600
2	20:26:12	12370.000	1200.000	0.000	1054.000	1044.000	950.500	74.750%	123.200
3	20:26:55	12270.000	1179.000	0.000	1053.000	1009.000	955.200	74.472%	124.700
x		12360.000	1194.000	0.000	1051.000	1045.000	951.200	74.933%	123.500
σ		82.520	13.050	0.000	5.111	36.170	3.699	0.575%	1.094
%RSD		0.668	1.093	0.000	0.486	3.462	0.389	0.767	0.886

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	27.150	13.570	3682.000	28880.000	27710.000	24.290	16.710	9.090
2	20:26:12	27.590	13.770	3704.000	28870.000	27870.000	24.570	16.890	9.059
3	20:26:55	26.920	13.280	3689.000	28750.000	28130.000	24.490	16.960	9.436
x		27.220	13.540	3692.000	28830.000	27900.000	24.450	16.860	9.195
σ		0.341	0.242	11.210	74.670	215.700	0.144	0.132	0.209
%RSD		1.253	1.784	0.304	0.259	0.773	0.591	0.781	2.276

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	9.396	54.810	54.500	240.000	-0.258	-1.110	0.000	122.500
2	20:26:12	9.342	55.330	55.610	238.500	-0.220	0.351	0.000	120.800
3	20:26:55	9.603	58.290	55.480	237.500	-0.590	-0.503	0.000	122.200
x		9.447	56.150	55.190	238.700	-0.356	-0.421	0.000	121.800
σ		0.138	1.880	0.607	1.258	0.204	0.734	0.000	0.895
%RSD		1.461	3.348	1.099	0.527	57.190	174.300	0.000	0.735

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	80.392%	139.500	139.900	77.459%	0.041	0.039	0.190	0.187
2	20:26:12	81.221%	140.200	142.600	77.527%	0.052	0.031	0.263	0.276
3	20:26:55	80.833%	142.500	143.400	76.970%	0.027	0.038	0.331	0.328
x		80.815%	140.800	142.000	77.319%	0.040	0.036	0.261	0.264
σ		0.415%	1.578	1.839	0.304%	0.013	0.004	0.070	0.071
%RSD		0.513	1.121	1.296	0.393	31.500	11.940	26.820	27.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	77.766%	0.301	0.031	0.013	159.000	160.800	80.434%	80.313%
2	20:26:12	78.614%	0.301	0.038	0.024	160.800	162.400	79.360%	80.701%
3	20:26:55	78.678%	0.377	0.045	0.033	159.400	162.500	80.868%	80.968%
x		78.353%	0.326	0.038	0.023	159.700	161.900	80.220%	80.661%
σ		0.509%	0.044	0.007	0.010	0.914	0.936	0.776%	0.329%
%RSD		0.649	13.370	17.470	43.230	0.572	0.578	0.968	0.408

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:29	0.170	0.165	26.540	26.290	26.320	76.364%
2	20:26:12	0.162	0.181	26.750	26.200	26.520	76.689%
3	20:26:55	0.182	0.177	26.640	25.870	26.540	76.665%
x		0.172	0.175	26.650	26.120	26.460	76.573%
σ		0.010	0.008	0.104	0.223	0.124	0.181%
%RSD		5.880	4.807	0.389	0.852	0.467	0.236

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	77.239%	-0.028	0.275	0.714	0.000	167.200	68.030	65.660
2	20:34:28	76.791%	0.008	0.743	0.511	0.000	180.100	64.410	62.380
3	20:35:11	77.445%	0.007	-0.188	0.348	0.000	175.700	65.180	66.610
x		77.158%	-0.004	0.277	0.524	0.000	174.300	65.870	64.880
σ		0.335%	0.020	0.465	0.183	0.000	6.537	1.906	2.220
%RSD		0.434	487.900	168.200	34.920	0.000	3.750	2.894	3.421

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	67.040	-121.500	0.000	-57.000	132.300	106.000	77.241%	1.462
2	20:34:28	68.490	-109.800	0.000	-55.250	196.500	114.800	77.266%	1.728
3	20:35:11	70.030	-104.400	0.000	-56.130	120.400	103.700	78.315%	1.769
x		68.520	-111.900	0.000	-56.130	149.700	108.200	77.608%	1.653
σ		1.493	8.734	0.000	0.874	40.910	5.873	0.613%	0.167
%RSD		2.180	7.805	0.000	1.557	27.330	5.430	0.790	10.090

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	0.277	0.187	1696.000	129.700	130.900	2.735	0.802	2.135
2	20:34:28	0.298	0.218	1932.000	133.700	131.800	2.664	0.571	2.296
3	20:35:11	0.165	0.156	1885.000	131.600	132.800	2.767	0.701	2.259
x		0.247	0.187	1837.000	131.700	131.800	2.722	0.691	2.230
σ		0.072	0.031	124.900	2.047	0.942	0.053	0.116	0.084
%RSD		29.140	16.580	6.799	1.554	0.715	1.947	16.820	3.780

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	2.272	-0.500	-0.702	0.941	-0.909	0.225	0.000	18.910
2	20:34:28	2.003	-0.474	-0.764	1.093	-0.331	0.312	0.000	19.650
3	20:35:11	2.273	-0.728	-0.559	0.541	-1.158	-0.731	0.000	19.440
x		2.183	-0.567	-0.675	0.858	-0.799	-0.064	0.000	19.330
σ		0.155	0.140	0.105	0.285	0.424	0.579	0.000	0.381
%RSD		7.122	24.670	15.600	33.220	53.100	897.900	0.000	1.971

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	77.940%	0.817	0.846	78.877%	-0.006	-0.005	-0.084	-0.053
2	20:34:28	78.909%	0.829	0.840	80.260%	-0.006	-0.003	-0.089	-0.060
3	20:35:11	80.815%	0.830	0.755	81.366%	-0.015	-0.012	-0.051	-0.036
x		79.221%	0.825	0.814	80.168%	-0.009	-0.007	-0.075	-0.050
σ		1.463%	0.007	0.051	1.247%	0.005	0.005	0.021	0.012
%RSD		1.847	0.906	6.265	1.555	59.110	72.780	28.060	24.410

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	78.819%	-0.002	-0.021	-0.026	14.770	15.600	80.556%	81.602%
2	20:34:28	80.685%	-0.031	-0.019	-0.018	16.220	15.450	81.857%	82.238%
3	20:35:11	82.079%	-0.033	-0.022	-0.027	15.370	15.300	83.186%	83.991%
x		80.528%	-0.022	-0.021	-0.024	15.460	15.450	81.866%	82.610%
σ		1.636%	0.017	0.001	0.005	0.728	0.152	1.315%	1.237%
%RSD		2.031	78.070	6.553	20.840	4.709	0.982	1.606	1.498

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:45	0.029	0.021	0.696	0.719	0.690	77.009%
2	20:34:28	-0.000	0.016	0.686	0.762	0.732	77.785%
3	20:35:11	0.016	0.025	0.679	0.778	0.709	79.178%
x		0.015	0.021	0.687	0.753	0.710	77.991%
σ		0.014	0.005	0.009	0.031	0.021	1.099%
%RSD		96.700	23.300	1.250	4.102	2.943	1.409

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:58	74.711%	0.448	11.440	11.600	0.000	339.000	1156.000	1164.000
2	20:42:42	74.986%	0.739	9.506	11.340	0.000	341.800	1145.000	1158.000
3	20:43:24	72.828%	0.592	14.090	11.610	0.000	357.800	1155.000	1155.000
x		74.175%	0.593	11.680	11.520	0.000	346.200	1152.000	1159.000
σ		1.175%	0.145	2.300	0.157	0.000	10.120	6.225	4.871
%RSD		1.584	24.480	19.690	1.359	0.000	2.922	0.540	0.420
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:58	8747.000	323.200	0.000	1552.000	978.600	731.400	74.725%	94.660
2	20:42:42	8619.000	300.100	0.000	1542.000	1064.000	727.700	74.324%	92.020
3	20:43:24	8686.000	314.500	0.000	1549.000	967.300	733.000	73.204%	90.430
x		8684.000	312.600	0.000	1548.000	1003.000	730.700	74.085%	92.370
σ		64.140	11.690	0.000	5.353	52.980	2.727	0.788%	2.140
%RSD		0.739	3.738	0.000	0.346	5.280	0.373	1.064	2.316
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:58	17.780	9.071	2420.000	17630.000	16950.000	18.090	9.110	5.529
2	20:42:42	17.520	9.051	2371.000	17340.000	16770.000	18.220	9.069	5.787
3	20:43:24	17.710	9.031	2389.000	17430.000	17060.000	17.910	8.442	5.492
x		17.670	9.051	2393.000	17470.000	16930.000	18.070	8.874	5.603
σ		0.136	0.020	24.660	150.000	144.600	0.158	0.375	0.161
%RSD		0.769	0.218	1.030	0.859	0.854	0.874	4.222	2.870
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:58	5.940	35.410	36.830	145.100	-0.776	0.177	0.000	708.500
2	20:42:42	5.923	35.490	36.590	146.000	-0.714	-0.041	0.000	703.000
3	20:43:24	5.418	36.280	36.970	144.300	-0.644	0.114	0.000	716.900
x		5.761	35.730	36.800	145.100	-0.711	0.083	0.000	709.500
σ		0.296	0.480	0.192	0.846	0.066	0.112	0.000	6.987
%RSD		5.147	1.345	0.523	0.583	9.285	134.600	0.000	0.985
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:58	78.323%	156.500	158.600	76.511%	0.013	0.034	0.147	0.116
2	20:42:42	78.580%	158.100	158.900	76.496%	0.032	0.034	0.254	0.164
3	20:43:24	78.167%	161.400	162.400	76.255%	0.027	0.015	0.252	0.209
x		78.357%	158.700	160.000	76.421%	0.024	0.028	0.218	0.163
σ		0.209%	2.528	2.118	0.144%	0.010	0.011	0.061	0.046
%RSD		0.266	1.593	1.324	0.188	39.620	40.610	28.040	28.410
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:58	77.141%	0.092	0.001	0.004	102.900	98.740	79.371%	78.547%
2	20:42:42	78.470%	0.131	-0.012	-0.003	99.460	99.080	80.265%	81.164%
3	20:43:24	78.161%	0.121	0.015	-0.020	98.970	100.500	80.258%	80.668%
x		77.924%	0.115	0.001	-0.006	100.400	99.440	79.965%	80.126%
σ		0.695%	0.020	0.013	0.013	2.115	0.937	0.515%	1.390%
%RSD		0.893	17.590	997.500	205.600	2.106	0.942	0.643	1.735
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:41:58	0.114	0.109	20.390	20.800	20.600	75.986%		
2	20:42:42	0.107	0.116	20.450	20.350	20.470	77.153%		
3	20:43:24	0.119	0.114	20.920	20.500	20.890	76.835%		
x		0.113	0.113	20.590	20.550	20.650	76.658%		
σ		0.006	0.004	0.287	0.230	0.216	0.603%		
%RSD		5.317	3.218	1.397	1.121	1.044	0.787		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	79.738%	1.132	4.229	4.980	0.000	245.900	100.700	102.200
2	20:50:57	79.756%	0.940	4.220	4.350	0.000	243.900	99.430	101.300
3	20:51:40	81.190%	0.924	5.115	5.060	0.000	243.500	100.600	101.500
x		80.228%	99.868%	90.427%	95.934%	0.000	244.427%	100.231%	101.663%
σ		0.833%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.039	11.590	11.360	8.108	0.000	0.522	0.692	0.463

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	31.970	385.200	0.000	41.270	108.600	77.670	70.179%	5.235
2	20:50:57	31.150	376.600	0.000	34.780	143.400	87.780	71.227%	5.807
3	20:51:40	31.260	374.300	0.000	33.570	91.980	80.650	71.487%	5.458
x		104.865%	75.738%	0.000	36.541%	114.683%	82.032%	70.964%	109.994%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.692%	n/a
%RSD		1.408	1.517	0.000	11.340	22.890	6.332	0.975	5.243

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	1.117	2.245	5.253	60.060	54.850	0.514	1.331	2.149
2	20:50:57	1.008	2.212	5.539	58.420	54.900	0.554	1.134	2.064
3	20:51:40	1.095	2.186	5.132	57.320	57.830	0.574	1.134	1.994
x		107.325%	110.734%	1061.658%	117.199%	111.722%	109.462%	119.990%	103.447%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		5.361	1.329	3.936	2.349	3.060	5.538	9.491	3.769

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	2.173	4.136	4.197	0.916	4.598	4.535	0.000	4.782
2	20:50:57	2.219	4.105	3.319	0.957	3.983	4.163	0.000	4.792
3	20:51:40	2.384	4.401	3.890	1.177	4.260	4.739	0.000	4.861
x		112.934%	84.282%	76.039%	101.694%	85.606%	89.582%	0.000	96.232%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.915	3.865	11.720	13.820	7.193	6.512	0.000	0.899

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	78.180%	4.948	4.926	77.159%	1.004	1.067	1.052	0.946
2	20:50:57	79.445%	5.160	5.119	78.589%	1.050	1.023	0.883	0.978
3	20:51:40	80.996%	5.147	5.047	79.272%	1.077	0.983	0.767	0.954
x		79.540%	101.697%	100.618%	78.340%	104.348%	102.429%	90.070%	95.928%
σ		1.410%	n/a	n/a	1.078%	n/a	n/a	n/a	n/a
%RSD		1.773	2.337	1.939	1.376	3.548	4.083	15.920	1.707

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	78.418%	4.873	1.850	1.933	10.050	9.820	78.797%	79.952%
2	20:50:57	79.482%	5.431	1.963	1.987	10.570	10.110	80.352%	81.373%
3	20:51:40	80.311%	5.400	1.978	1.929	9.640	9.945	82.369%	82.318%
x		79.404%	104.696%	96.508%	97.478%	100.869%	99.600%	80.506%	81.214%
σ		0.949%	n/a	n/a	n/a	n/a	n/a	1.791%	1.191%
%RSD		1.195	5.986	3.618	1.664	4.596	1.481	2.225	1.466

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:14	0.999	1.026	1.014	1.002	1.030	75.048%
2	20:50:57	1.042	0.983	1.075	1.017	1.014	77.000%
3	20:51:40	0.951	0.996	1.034	1.049	1.008	77.768%
x		99.727%	100.150%	104.091%	102.270%	101.729%	76.605%
σ		n/a	n/a	n/a	n/a	n/a	1.402%
%RSD		4.578	2.209	2.980	2.390	1.113	1.830

CRI 787357 4/12/2013 8:57:47 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:30	90.620%	0.827	4.130	4.661	0.000	192.500	89.210	92.150
2	20:59:13	91.687%	0.893	4.630	4.670	0.000	191.200	88.120	91.710
3	20:59:56	91.694%	0.802	5.180	4.353	0.000	197.300	91.760	91.280
x		91.333%	84.076%	92.932%	91.220%	0.000	193.687%	89.699%	91.712%
σ		0.618%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.677	5.613	11.300	3.958	0.000	1.668	2.080	0.475
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:30	29.340	286.000	0.000	19.460	65.640	66.150	75.653%	5.179
2	20:59:13	28.820	291.200	0.000	17.200	109.600	59.050	75.951%	5.359
3	20:59:56	28.530	296.200	0.000	17.210	186.800	66.070	76.401%	4.484
x		96.317%	58.222%	0.000	17.959%	120.674%	63.756%	76.002%	100.146%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.376%	n/a
%RSD		1.407	1.745	0.000	7.257	50.830	6.394	0.495	9.235
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:30	0.901	2.107	4.958	54.720	49.500	0.531	0.990	2.165
2	20:59:13	0.894	2.140	5.208	55.110	50.280	0.502	0.875	2.112
3	20:59:56	0.944	2.067	5.157	54.200	44.640	0.548	1.275	1.888
x		91.314%	105.224%	1021.547%	109.356%	96.278%	105.408%	104.677%	102.748%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.908	1.740	2.582	0.842	6.346	4.329	19.650	7.164
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:30	1.983	4.150	4.416	1.104	3.997	5.341	0.000	4.913
2	20:59:13	1.926	3.827	4.006	1.087	4.839	5.286	0.000	5.083
3	20:59:56	1.951	3.715	4.142	1.234	4.770	7.410	0.000	4.956
x		97.669%	77.946%	83.764%	114.189%	90.700%	120.246%	0.000	99.680%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.477	5.793	4.985	7.043	10.300	20.140	0.000	1.778
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:30	76.915%	5.058	4.680	77.266%	1.088	0.978	1.041	0.955
2	20:59:13	78.286%	4.843	4.892	77.721%	0.979	1.057	0.937	0.954
3	20:59:56	78.534%	5.069	5.229	79.118%	1.026	0.967	1.088	1.162
x		77.911%	99.804%	98.677%	78.035%	103.091%	100.061%	102.191%	102.361%
σ		0.872%	n/a	n/a	0.965%	n/a	n/a	n/a	n/a
%RSD		1.119	2.556	5.603	1.237	5.279	4.879	7.545	11.730
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:30	77.060%	5.115	1.881	2.016	11.620	10.210	78.797%	78.450%
2	20:59:13	78.595%	5.002	1.942	2.061	9.954	9.608	80.572%	80.405%
3	20:59:56	80.393%	5.256	2.021	2.007	10.130	9.786	82.027%	81.773%
x		78.683%	102.486%	97.394%	101.411%	105.700%	98.668%	80.465%	80.209%
σ		1.668%	n/a	n/a	n/a	n/a	n/a	1.618%	1.670%
%RSD		2.120	2.492	3.589	1.430	8.676	3.112	2.010	2.082
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:58:30	1.002	1.026	1.026	1.043	1.032	74.756%		
2	20:59:13	1.004	1.003	1.021	1.005	1.020	76.786%		
3	20:59:56	0.986	1.041	1.017	0.964	0.976	77.870%		
x		99.705%	102.332%	102.119%	100.399%	100.935%	76.471%		
σ		n/a	n/a	n/a	n/a	n/a	1.581%		
%RSD		0.961	1.865	0.418	3.912	2.914	2.067		

CCV 781130 4/12/2013 9:06:03 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	76.348%	103.500	96.290	95.540	0.000	51340.000	52190.000	52720.000
2	21:07:28	76.455%	104.000	99.850	103.000	0.000	51340.000	51460.000	51940.000
3	21:08:12	76.697%	104.600	103.800	101.000	0.000	51830.000	52140.000	52410.000
x		76.500%	104.041%	99.977%	99.853%	0.000	103.006%	103.858%	104.716%
σ		0.179%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.234	0.542	3.750	3.876	0.000	0.552	0.778	0.753

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	526.300	5003.000	0.000	53320.000	51770.000	50310.000	73.023%	98.820
2	21:07:28	526.400	4944.000	0.000	52140.000	51700.000	49970.000	74.748%	102.300
3	21:08:12	531.000	5011.000	0.000	53070.000	52300.000	50980.000	74.413%	103.800
x		105.578%	99.714%	0.000	105.687%	103.847%	100.841%	74.061%	101.658%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.915%	n/a
%RSD		0.506	0.733	0.000	1.172	0.637	1.023	1.235	2.522

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	104.400	104.600	525.200	27100.000	26360.000	105.500	106.300	106.000
2	21:07:28	104.600	104.200	519.200	26440.000	25970.000	105.100	105.200	106.100
3	21:08:12	105.300	106.600	530.100	26950.000	26660.000	108.000	106.400	107.400
x		104.724%	105.114%	104.971%	107.317%	105.327%	106.207%	105.971%	106.506%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.447	1.215	1.042	1.303	1.328	1.471	0.634	0.743

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	106.400	104.500	103.800	102.000	102.700	101.600	0.000	105.300
2	21:07:28	105.900	102.200	103.300	104.600	102.500	103.200	0.000	104.700
3	21:08:12	109.200	104.500	105.200	107.700	103.800	107.600	0.000	106.400
x		107.161%	103.725%	104.102%	104.761%	103.011%	104.160%	0.000	105.481%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.658	1.312	0.934	2.745	0.687	2.988	0.000	0.826

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	73.364%	103.800	104.700	71.568%	105.800	105.500	104.900	105.000
2	21:07:28	74.650%	105.700	107.400	73.974%	105.600	104.600	102.600	104.400
3	21:08:12	74.847%	108.100	107.700	73.904%	105.900	107.100	105.800	104.900
x		74.287%	105.877%	106.611%	73.149%	105.771%	105.754%	104.453%	104.798%
σ		0.805%	n/a	n/a	1.369%	n/a	n/a	n/a	n/a
%RSD		1.084	2.034	1.545	1.872	0.115	1.206	1.569	0.315

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	72.644%	102.800	103.800	102.900	106.200	107.400	74.677%	75.862%
2	21:07:28	75.716%	102.300	103.000	102.900	105.900	104.800	78.008%	78.899%
3	21:08:12	76.146%	103.600	104.100	103.900	107.700	106.600	77.911%	79.202%
x		74.835%	102.859%	103.657%	103.231%	106.611%	106.249%	76.866%	77.988%
σ		1.910%	n/a	n/a	n/a	n/a	n/a	1.896%	1.847%
%RSD		2.552	0.635	0.558	0.590	0.883	1.244	2.466	2.368

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:06:46	105.300	105.900	105.000	104.300	105.300	70.718%
2	21:07:28	106.400	106.200	106.200	106.600	106.700	72.604%
3	21:08:12	105.700	106.000	106.100	106.700	106.500	73.337%
x		105.833%	106.036%	105.781%	105.867%	106.151%	72.219%
σ		n/a	n/a	n/a	n/a	n/a	1.351%
%RSD		0.514	0.159	0.617	1.307	0.727	1.871

CCB5 4/12/2013 9:15:46 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	117.483%	0.002	0.053	0.271	0.000	44.370	2.219	2.460
2	21:17:12	115.898%	-0.009	0.065	0.285	0.000	58.640	6.668	8.004
3	21:17:55	120.807%	0.013	0.153	0.333	0.000	55.080	9.294	9.665
x		118.063%	0.002	0.091	0.296	0.000	52.700	6.060	6.709
σ		2.505%	0.011	0.054	0.033	0.000	7.426	3.576	3.773
%RSD		2.122	516.000	59.940	11.070	0.000	14.090	59.010	56.230

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	-1.085	-221.200	0.000	-73.390	-3.423	-38.470	83.261%	-0.012
2	21:17:12	-0.864	-206.200	0.000	-68.920	9.194	-10.330	82.066%	0.020
3	21:17:55	-0.619	-217.700	0.000	-71.200	20.680	-27.990	84.869%	0.018
x		-0.856	-215.000	0.000	-71.170	8.817	-25.590	83.399%	0.009
σ		0.233	7.844	0.000	2.235	12.060	14.220	1.406%	0.018
%RSD		27.260	3.648	0.000	3.140	136.700	55.550	1.686	207.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	0.079	0.147	0.057	-1.594	1.989	-0.008	0.029	-0.088
2	21:17:12	-0.003	0.087	0.136	1.136	2.841	0.004	0.118	-0.063
3	21:17:55	0.016	0.140	0.191	1.878	5.536	0.025	-0.023	-0.070
x		0.031	0.125	0.128	0.473	3.455	0.007	0.041	-0.074
σ		0.043	0.033	0.067	1.828	1.851	0.016	0.071	0.013
%RSD		138.300	26.310	52.420	386.400	53.580	235.100	171.700	17.530

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	-0.085	-1.040	-1.081	-0.251	-1.315	-1.274	0.000	0.007
2	21:17:12	-0.027	-1.106	-1.020	0.007	-0.640	-0.296	0.000	0.022
3	21:17:55	-0.033	-1.172	-0.958	-0.148	-1.055	-1.077	0.000	0.030
x		-0.048	-1.106	-1.020	-0.131	-1.003	-0.882	0.000	0.020
σ		0.032	0.066	0.061	0.130	0.340	0.517	0.000	0.012
%RSD		66.000	5.973	6.014	99.080	33.930	58.640	0.000	57.770

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	85.853%	0.154	0.224	89.091%	0.010	-0.007	0.004	0.003
2	21:17:12	86.054%	0.195	0.252	88.950%	-0.002	0.023	-0.039	-0.036
3	21:17:55	89.179%	0.173	0.137	92.572%	0.015	0.019	0.076	0.039
x		87.029%	0.174	0.204	90.205%	0.008	0.012	0.014	0.002
σ		1.865%	0.020	0.060	2.052%	0.009	0.016	0.058	0.037
%RSD		2.143	11.740	29.270	2.274	109.900	136.100	420.600	1770.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	88.808%	0.003	-0.026	-0.021	0.018	0.011	90.184%	89.310%
2	21:17:12	88.510%	-0.012	-0.001	-0.024	0.007	0.043	89.975%	90.976%
3	21:17:55	92.235%	0.023	-0.008	-0.007	0.027	0.016	92.381%	93.585%
x		89.851%	0.004	-0.012	-0.017	0.017	0.023	90.847%	91.290%
σ		2.070%	0.018	0.013	0.009	0.010	0.017	1.333%	2.155%
%RSD		2.304	402.400	111.000	52.360	58.920	73.860	1.467	2.361

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:29	0.018	0.031	0.002	-0.013	-0.003	84.503%
2	21:17:12	0.027	0.027	0.022	0.007	0.014	84.873%
3	21:17:55	0.018	0.020	0.019	0.013	0.017	87.030%
x		0.021	0.026	0.015	0.002	0.009	85.469%
σ		0.005	0.005	0.011	0.013	0.011	1.365%
%RSD		24.530	19.980	76.450	587.400	117.100	1.597

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	66.421%	5.232	35.470	34.090	0.000	571.600	13670.000	13820.000
2	21:25:28	68.210%	4.551	34.770	32.770	0.000	550.800	12960.000	13120.000
3	21:26:12	69.045%	4.402	34.700	33.330	0.000	552.500	13360.000	13400.000
x		67.892%	4.728	34.980	33.400	0.000	558.300	13330.000	13450.000
σ		1.341%	0.443	0.424	0.662	0.000	11.540	355.100	348.900
%RSD		1.975	9.365	1.213	1.981	0.000	2.066	2.664	2.595

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	92150.000	15470.000	0.000	9303.000	5530.000	5163.000	71.707%	1125.000
2	21:25:28	86540.000	14390.000	0.000	8686.000	5270.000	4886.000	74.807%	1059.000
3	21:26:12	88320.000	14620.000	0.000	8846.000	5285.000	4999.000	74.581%	1083.000
x		89000.000	14830.000	0.000	8945.000	5362.000	5016.000	73.698%	1089.000
σ		2865.000	566.500	0.000	320.500	146.000	139.300	1.728%	33.360
%RSD		3.219	3.821	0.000	3.582	2.722	2.777	2.345	3.064

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	171.500	99.960	4443.000	138500.000	141600.000	89.270	109.600	87.190
2	21:25:28	163.000	95.000	4136.000	129600.000	131800.000	83.760	104.000	82.550
3	21:26:12	166.300	97.900	4279.000	132900.000	134400.000	85.670	106.300	83.990
x		167.000	97.620	4286.000	133700.000	135900.000	86.230	106.600	84.580
σ		4.301	2.495	153.900	4505.000	5101.000	2.797	2.820	2.377
%RSD		2.576	2.556	3.590	3.370	3.752	3.243	2.644	2.810

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	87.700	456.200	457.400	1375.000	3.236	4.372	0.000	677.700
2	21:25:28	81.370	424.800	430.100	1304.000	2.910	4.340	0.000	643.000
3	21:26:12	83.720	439.100	444.500	1332.000	2.904	2.993	0.000	662.500
x		84.260	440.000	444.000	1337.000	3.017	3.902	0.000	661.000
σ		3.200	15.720	13.640	36.010	0.190	0.787	0.000	17.400
%RSD		3.798	3.573	3.072	2.693	6.284	20.180	0.000	2.632

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	0.000	726.800	718.700	70.796%	0.424	0.386	2.733	2.335
2	21:25:28	0.000	686.200	681.200	75.396%	0.391	0.362	2.570	2.317
3	21:26:12	0.000	701.700	703.000	74.839%	0.366	0.389	2.079	2.058
x		0.000	704.900	701.000	73.677%	0.394	0.379	2.460	2.237
σ		0.000	20.500	18.800	2.510%	0.029	0.015	0.341	0.155
%RSD		0.000	2.908	2.682	3.407	7.448	3.886	13.840	6.923

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	71.483%	2.826	0.309	0.347	752.000	745.300	78.919%	77.904%
2	21:25:28	76.762%	2.556	0.402	0.335	711.900	703.400	83.962%	83.356%
3	21:26:12	77.407%	2.726	0.357	0.318	728.600	718.700	83.446%	84.026%
x		75.217%	2.703	0.356	0.333	730.800	722.500	82.109%	81.762%
σ		3.250%	0.137	0.047	0.015	20.130	21.170	2.775%	3.358%
%RSD		4.321	5.056	13.080	4.362	2.754	2.930	3.380	4.107

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:46	1.365	1.317	188.000	185.600	186.600	71.572%
2	21:25:28	1.285	1.250	181.400	179.000	180.100	75.175%
3	21:26:12	1.305	1.343	189.100	184.700	186.400	74.849%
x		1.318	1.304	186.100	183.100	184.400	73.866%
σ		0.042	0.048	4.177	3.558	3.693	1.993%
%RSD		3.148	3.677	2.244	1.943	2.003	2.698

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	67.392%	3.840	56.700	56.260	0.000	565.500	14850.000	14890.000
2	21:33:41	69.622%	3.684	57.330	57.420	0.000	554.400	14540.000	14570.000
3	21:34:24	69.475%	3.690	55.890	56.070	0.000	562.300	14850.000	14790.000
x		68.830%	3.738	56.640	56.580	0.000	560.800	14750.000	14750.000
σ		1.247%	0.089	0.722	0.733	0.000	5.699	176.100	163.800
%RSD		1.812	2.373	1.275	1.295	0.000	1.016	1.194	1.111

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	75110.000	13590.000	0.000	10410.000	11840.000	10580.000	74.189%	922.900
2	21:33:41	73060.000	13200.000	0.000	10200.000	11140.000	10380.000	74.669%	903.400
3	21:34:24	73840.000	13320.000	0.000	10360.000	11480.000	10450.000	75.067%	917.100
x		74000.000	13370.000	0.000	10320.000	11490.000	10470.000	74.642%	914.500
σ		1034.000	199.000	0.000	106.200	348.600	97.030	0.440%	10.020
%RSD		1.397	1.488	0.000	1.028	3.034	0.927	0.590	1.095

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	162.600	156.500	2587.000	113400.000	114400.000	47.480	163.300	131.100
2	21:33:41	161.600	155.600	2535.000	111600.000	113200.000	46.990	160.000	129.700
3	21:34:24	165.300	157.300	2578.000	112500.000	114100.000	47.320	158.800	130.200
x		163.200	156.500	2567.000	112500.000	113900.000	47.260	160.700	130.300
σ		1.939	0.857	27.830	913.900	630.500	0.251	2.318	0.725
%RSD		1.188	0.547	1.084	0.812	0.554	0.530	1.442	0.557

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	130.400	440.500	451.400	992.000	2.871	5.106	0.000	2797.000
2	21:33:41	130.400	442.200	447.400	983.000	3.966	6.806	0.000	2762.000
3	21:34:24	130.500	446.600	453.500	984.100	2.696	4.676	0.000	2784.000
x		130.400	443.100	450.800	986.400	3.178	5.530	0.000	2781.000
σ		0.061	3.137	3.094	4.933	0.688	1.126	0.000	17.280
%RSD		0.047	0.708	0.686	0.500	21.660	20.360	0.000	0.622

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	0.000	656.600	652.900	73.373%	0.557	0.460	2.254	2.114
2	21:33:41	0.000	651.800	642.000	75.551%	0.489	0.466	1.880	1.928
3	21:34:24	0.000	653.400	652.400	75.911%	0.471	0.431	1.954	2.162
x		0.000	653.900	649.100	74.945%	0.506	0.452	2.029	2.068
σ		0.000	2.459	6.130	1.373%	0.045	0.019	0.198	0.123
%RSD		0.000	0.376	0.944	1.833	8.947	4.163	9.748	5.966

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	74.357%	3.492	0.728	0.728	414.700	410.100	80.951%	80.296%
2	21:33:41	77.321%	3.166	0.730	0.716	403.400	402.500	83.633%	83.441%
3	21:34:24	78.101%	3.131	0.731	0.770	409.700	405.800	85.253%	84.984%
x		76.593%	3.263	0.730	0.738	409.300	406.100	83.279%	82.907%
σ		1.976%	0.199	0.001	0.028	5.648	3.785	2.173%	2.389%
%RSD		2.579	6.102	0.187	3.816	1.380	0.932	2.609	2.882

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:58	1.148	1.172	273.600	276.300	276.000	73.080%
2	21:33:41	1.087	1.134	268.000	271.800	271.500	75.851%
3	21:34:24	1.074	1.123	270.300	273.300	274.300	76.805%
x		1.103	1.143	270.600	273.800	273.900	75.245%
σ		0.039	0.025	2.823	2.255	2.234	1.935%
%RSD		3.544	2.223	1.043	0.824	0.816	2.571

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:10	69.999%	1.627	57.210	58.500	0.000	398.600	6435.000	6449.000
2	21:41:53	72.045%	1.070	61.340	58.890	0.000	390.500	6309.000	6282.000
3	21:42:36	71.389%	1.425	66.820	58.690	0.000	412.200	6489.000	6537.000
x		71.144%	1.374	61.790	58.690	0.000	400.500	6411.000	6422.000
σ		1.045%	0.282	4.818	0.192	0.000	10.950	92.720	129.500
%RSD		1.468	20.500	7.798	0.328	0.000	2.735	1.446	2.017
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:10	26310.000	10450.000	0.000	5389.000	27940.000	26850.000	73.810%	499.000
2	21:41:53	25550.000	10000.000	0.000	5207.000	26890.000	26270.000	74.892%	475.900
3	21:42:36	26500.000	10350.000	0.000	5445.000	28800.000	27320.000	73.674%	498.100
x		26120.000	10270.000	0.000	5347.000	27880.000	26810.000	74.125%	491.000
σ		502.200	236.800	0.000	124.100	956.000	524.400	0.667%	13.100
%RSD		1.923	2.307	0.000	2.322	3.429	1.956	0.900	2.668
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:10	86.270	86.680	1876.000	98680.000	97170.000	27.670	106.200	84.160
2	21:41:53	83.520	83.900	1756.000	96720.000	97400.000	27.810	106.700	82.350
3	21:42:36	87.320	88.720	1990.000	99900.000	99550.000	28.440	109.800	85.540
x		85.700	86.430	1874.000	98430.000	98040.000	27.970	107.600	84.020
σ		1.962	2.419	116.900	1603.000	1315.000	0.411	1.955	1.601
%RSD		2.289	2.798	6.239	1.629	1.342	1.468	1.817	1.905
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:10	83.890	265.100	266.700	1554.000	5.220	5.045	0.000	2400.000
2	21:41:53	82.980	260.700	261.200	1527.000	4.566	4.945	0.000	2329.000
3	21:42:36	87.360	270.800	279.100	1604.000	5.108	5.908	0.000	2439.000
x		84.740	265.500	269.000	1562.000	4.965	5.300	0.000	2389.000
σ		2.312	5.043	9.160	39.070	0.350	0.529	0.000	55.650
%RSD		2.728	1.899	3.405	2.502	7.041	9.988	0.000	2.329
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:10	0.000	637.400	634.800	74.415%	0.387	0.329	2.209	1.522
2	21:41:53	0.000	627.500	623.300	77.115%	0.465	0.363	1.513	1.623
3	21:42:36	0.000	653.000	650.700	75.676%	0.401	0.398	2.135	1.602
x		0.000	639.300	636.300	75.735%	0.417	0.363	1.952	1.582
σ		0.000	12.830	13.760	1.351%	0.042	0.034	0.382	0.053
%RSD		0.000	2.007	2.162	1.784	10.060	9.437	19.570	3.370
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:10	76.004%	4.507	1.896	1.803	183.200	183.600	80.524%	80.308%
2	21:41:53	79.665%	4.585	1.753	1.652	179.400	179.200	84.076%	84.079%
3	21:42:36	78.788%	4.894	1.838	1.924	185.900	186.500	83.838%	84.021%
x		78.152%	4.662	1.829	1.793	182.800	183.100	82.813%	82.803%
σ		1.912%	0.204	0.072	0.137	3.278	3.701	1.986%	2.161%
%RSD		2.446	4.385	3.955	7.625	1.793	2.021	2.398	2.610
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:41:10	1.526	1.634	283.800	282.400	283.100	74.546%		
2	21:41:53	1.587	1.535	276.300	275.800	276.900	77.473%		
3	21:42:36	1.602	1.610	285.900	286.300	286.000	77.386%		
x		1.572	1.593	282.000	281.500	282.000	76.468%		
σ		0.040	0.052	5.046	5.282	4.699	1.666%		
%RSD		2.558	3.244	1.789	1.876	1.666	2.178		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	67.258%	9.835	40.150	42.960	0.000	525.200	16510.000	16610.000
2	21:50:06	67.867%	10.270	45.000	41.280	0.000	538.700	16870.000	16930.000
3	21:50:49	68.868%	10.230	41.330	41.590	0.000	529.700	16670.000	16670.000
x		67.998%	10.110	42.160	41.950	0.000	531.200	16680.000	16740.000
σ		0.813%	0.241	2.525	0.895	0.000	6.874	182.700	169.300
%RSD		1.196	2.386	5.988	2.134	0.000	1.294	1.095	1.011

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	124300.000	13690.000	0.000	11310.000	10040.000	9398.000	74.577%	1212.000
2	21:50:06	125200.000	13820.000	0.000	11460.000	10240.000	9636.000	74.755%	1243.000
3	21:50:49	123400.000	13460.000	0.000	11230.000	9552.000	9432.000	76.513%	1210.000
x		124300.000	13660.000	0.000	11330.000	9942.000	9488.000	75.282%	1222.000
σ		909.300	179.400	0.000	118.200	352.800	128.700	1.070%	18.970
%RSD		0.731	1.313	0.000	1.043	3.549	1.357	1.421	1.553

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	265.300	133.900	36430.000	282800.000	286100.000	242.700	165.900	91.470
2	21:50:06	272.900	136.300	36870.000	285400.000	291500.000	249.800	168.700	94.000
3	21:50:49	268.100	134.700	36040.000	280100.000	285300.000	243.900	163.700	92.390
x		268.800	135.000	36450.000	282800.000	287700.000	245.500	166.100	92.620
σ		3.798	1.269	412.700	2665.000	3393.000	3.805	2.510	1.279
%RSD		1.413	0.941	1.132	0.943	1.180	1.550	1.511	1.380

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	92.380	553.700	563.200	2400.000	6.434	6.643	0.000	1304.000
2	21:50:06	96.010	566.600	573.300	2446.000	6.027	7.703	0.000	1330.000
3	21:50:49	93.140	563.000	570.500	2442.000	6.185	8.743	0.000	1324.000
x		93.840	561.100	569.000	2429.000	6.215	7.696	0.000	1319.000
σ		1.915	6.664	5.237	25.220	0.205	1.050	0.000	13.940
%RSD		2.040	1.188	0.920	1.038	3.302	13.640	0.000	1.057

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	0.000	1519.000	1529.000	72.970%	0.504	0.403	3.118	2.974
2	21:50:06	0.000	1559.000	1558.000	74.582%	0.476	0.423	3.536	2.949
3	21:50:49	0.000	1555.000	1555.000	75.617%	0.434	0.329	3.460	3.317
x		0.000	1544.000	1548.000	74.389%	0.471	0.385	3.371	3.080
σ		0.000	22.430	16.090	1.334%	0.035	0.050	0.222	0.206
%RSD		0.000	1.452	1.040	1.793	7.414	13.000	6.596	6.674

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	76.048%	3.224	0.465	0.398	1563.000	1539.000	84.897%	83.832%
2	21:50:06	77.746%	3.204	0.435	0.344	1604.000	1577.000	86.982%	86.446%
3	21:50:49	78.460%	3.226	0.460	0.436	1585.000	1562.000	89.038%	87.503%
x		77.418%	3.218	0.454	0.393	1584.000	1559.000	86.972%	85.927%
σ		1.239%	0.012	0.016	0.046	20.160	19.070	2.071%	1.890%
%RSD		1.600	0.387	3.552	11.800	1.273	1.223	2.381	2.199

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:23	1.953	1.889	273.600	268.400	270.900	74.145%
2	21:50:06	1.906	1.957	280.400	275.700	278.100	75.968%
3	21:50:49	1.934	1.895	278.900	273.700	276.000	77.328%
x		1.931	1.914	277.600	272.600	275.000	75.814%
σ		0.024	0.038	3.591	3.762	3.680	1.597%
%RSD		1.235	1.965	1.293	1.380	1.338	2.106

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	68.879%	5.837	59.650	56.000	0.000	1381.000	23680.000	23730.000
2	21:58:19	70.063%	6.066	60.330	56.130	0.000	1386.000	24090.000	24060.000
3	21:59:02	70.393%	5.592	58.010	58.980	0.000	1383.000	23880.000	23850.000
x		69.778%	5.832	59.330	57.040	0.000	1383.000	23880.000	23880.000
σ		0.796%	0.237	1.192	1.687	0.000	2.608	206.100	166.900
%RSD		1.141	4.064	2.008	2.958	0.000	0.189	0.863	0.699

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	108600.000	19120.000	0.000	12890.000	8700.000	8615.000	77.226%	1052.000
2	21:58:19	108800.000	19160.000	0.000	12940.000	9040.000	8802.000	78.626%	1061.000
3	21:59:02	107900.000	18850.000	0.000	12760.000	8871.000	8737.000	79.503%	1050.000
x		108400.000	19040.000	0.000	12870.000	8870.000	8718.000	78.452%	1054.000
σ		455.800	164.000	0.000	93.280	169.900	95.190	1.149%	6.148
%RSD		0.420	0.861	0.000	0.725	1.916	1.092	1.464	0.583

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	174.600	142.900	6564.000	265300.000	270300.000	136.100	237.700	172.200
2	21:58:19	179.200	145.900	6577.000	264000.000	268800.000	137.200	235.300	174.000
3	21:59:02	174.600	143.300	6483.000	261500.000	265800.000	136.400	238.000	172.900
x		176.100	144.000	6541.000	263600.000	268300.000	136.600	237.000	173.000
σ		2.629	1.624	51.040	1947.000	2265.000	0.570	1.514	0.917
%RSD		1.493	1.127	0.780	0.739	0.844	0.417	0.639	0.530

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	173.800	534.800	544.300	210.100	1.659	2.607	0.000	260.400
2	21:58:19	176.800	544.100	538.900	208.400	2.005	4.089	0.000	264.200
3	21:59:02	173.700	532.600	546.000	206.700	1.726	3.220	0.000	263.000
x		174.800	537.200	543.100	208.400	1.797	3.305	0.000	262.500
σ		1.780	6.115	3.682	1.695	0.183	0.744	0.000	1.955
%RSD		1.018	1.138	0.678	0.813	10.200	22.520	0.000	0.745

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	0.000	355.800	357.100	74.498%	0.183	0.166	1.585	1.414
2	21:58:19	0.000	359.700	360.700	76.375%	0.225	0.147	1.459	1.203
3	21:59:02	0.000	356.400	355.400	77.249%	0.210	0.173	1.718	1.302
x		0.000	357.300	357.700	76.041%	0.206	0.162	1.587	1.306
σ		0.000	2.097	2.695	1.405%	0.021	0.013	0.130	0.106
%RSD		0.000	0.587	0.753	1.848	10.340	8.227	8.183	8.083

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	77.557%	2.747	0.471	0.542	594.800	584.900	87.807%	87.627%
2	21:58:19	78.841%	2.895	0.463	0.495	602.500	595.000	92.063%	90.763%
3	21:59:02	80.427%	2.929	0.447	0.491	595.700	586.800	92.874%	91.160%
x		78.942%	2.857	0.460	0.509	597.700	588.900	90.914%	89.850%
σ		1.438%	0.097	0.012	0.029	4.200	5.365	2.722%	1.936%
%RSD		1.821	3.386	2.669	5.614	0.703	0.911	2.994	2.154

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:36	1.558	1.592	123.800	123.000	123.500	75.058%
2	21:58:19	1.652	1.603	127.500	124.300	126.200	76.870%
3	21:59:02	1.536	1.591	124.600	121.700	123.800	78.803%
x		1.582	1.595	125.300	123.000	124.500	76.911%
σ		0.061	0.007	1.926	1.295	1.488	1.873%
%RSD		3.878	0.433	1.537	1.053	1.195	2.435

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	70.605%	2.339	22.820	21.150	0.000	381.800	8815.000	8920.000
2	22:06:33	73.077%	2.449	20.620	20.940	0.000	376.100	8834.000	8819.000
3	22:07:16	73.959%	2.474	19.310	21.100	0.000	364.600	8448.000	8485.000
x		72.547%	2.421	20.920	21.060	0.000	374.200	8699.000	8741.000
σ		1.738%	0.072	1.772	0.112	0.000	8.781	217.300	228.000
%RSD		2.396	2.957	8.470	0.531	0.000	2.347	2.498	2.608

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	37720.000	10770.000	0.000	6989.000	2630.000	2486.000	76.864%	342.800
2	22:06:33	37040.000	10520.000	0.000	6942.000	2636.000	2510.000	77.465%	341.800
3	22:07:16	35490.000	10070.000	0.000	6652.000	2379.000	2416.000	78.811%	331.400
x		36750.000	10450.000	0.000	6861.000	2548.000	2471.000	77.713%	338.700
σ		1141.000	355.800	0.000	182.600	146.700	49.140	0.997%	6.299
%RSD		3.104	3.405	0.000	2.661	5.757	1.989	1.283	1.860

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	74.900	72.010	4228.000	136200.000	138500.000	68.040	141.100	75.280
2	22:06:33	74.090	72.620	4232.000	136800.000	138800.000	69.810	138.600	75.650
3	22:07:16	71.350	68.740	4069.000	130900.000	132700.000	66.340	136.100	72.540
x		73.440	71.120	4176.000	134600.000	136700.000	68.070	138.600	74.490
σ		1.856	2.082	92.850	3233.000	3464.000	1.732	2.497	1.694
%RSD		2.528	2.928	2.223	2.401	2.535	2.545	1.802	2.274

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	75.790	659.100	669.700	156.100	0.035	2.722	0.000	104.800
2	22:06:33	77.250	665.400	670.800	154.700	0.776	1.464	0.000	106.200
3	22:07:16	72.950	639.900	650.100	150.700	-0.158	0.746	0.000	102.100
x		75.330	654.800	663.500	153.800	0.218	1.644	0.000	104.400
σ		2.183	13.280	11.670	2.763	0.493	1.000	0.000	2.093
%RSD		2.898	2.027	1.758	1.796	226.500	60.830	0.000	2.005

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	0.000	5.746	5.939	76.322%	0.107	0.075	1.088	1.120
2	22:06:33	0.000	5.529	5.756	77.954%	0.129	0.123	1.389	1.215
3	22:07:16	0.000	5.116	5.370	80.125%	0.124	0.084	1.126	1.044
x		0.000	5.464	5.688	78.134%	0.120	0.094	1.201	1.126
σ		0.000	0.320	0.291	1.908%	0.012	0.025	0.164	0.086
%RSD		0.000	5.862	5.113	2.442	9.619	26.760	13.660	7.628

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	77.956%	4.376	0.338	0.370	205.400	203.400	86.235%	85.178%
2	22:06:33	80.547%	4.596	0.358	0.291	207.200	202.200	88.443%	87.928%
3	22:07:16	83.429%	4.248	0.312	0.372	195.300	193.900	90.491%	90.105%
x		80.644%	4.407	0.336	0.344	202.600	199.800	88.390%	87.737%
σ		2.738%	0.176	0.023	0.046	6.435	5.188	2.128%	2.469%
%RSD		3.395	3.992	6.912	13.370	3.176	2.596	2.408	2.814

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:05:50	0.660	0.591	55.610	55.660	55.840	76.086%
2	22:06:33	0.645	0.602	56.390	55.360	56.130	78.263%
3	22:07:16	0.570	0.588	53.770	52.850	53.520	80.859%
x		0.625	0.593	55.260	54.620	55.160	78.403%
σ		0.048	0.007	1.347	1.542	1.435	2.390%
%RSD		7.696	1.256	2.438	2.823	2.601	3.048

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	67.517%	5.320	37.230	41.130	0.000	550.800	27480.000	27350.000
2	22:14:47	69.114%	5.630	42.460	42.560	0.000	547.500	26740.000	26730.000
3	22:15:30	69.365%	5.513	43.220	39.000	0.000	548.800	26790.000	27030.000
x		68.665%	5.488	40.970	40.900	0.000	549.000	27000.000	27040.000
σ		1.002%	0.156	3.262	1.790	0.000	1.687	411.400	307.600
%RSD		1.460	2.847	7.963	4.376	0.000	0.307	1.524	1.138

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	112100.000	17950.000	0.000	11970.000	12560.000	12480.000	78.492%	1010.000
2	22:14:47	109400.000	17350.000	0.000	11660.000	12740.000	12080.000	79.705%	992.500
3	22:15:30	110100.000	17500.000	0.000	11840.000	12860.000	12240.000	79.787%	1003.000
x		110500.000	17600.000	0.000	11830.000	12720.000	12270.000	79.328%	1002.000
σ		1390.000	313.400	0.000	153.700	152.500	200.300	0.725%	8.758
%RSD		1.258	1.781	0.000	1.300	1.199	1.633	0.914	0.874

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	170.900	150.400	3555.000	260900.000	266100.000	92.490	244.100	219.900
2	22:14:47	170.100	148.700	3497.000	255300.000	260800.000	90.690	236.700	218.500
3	22:15:30	171.800	149.300	3534.000	256200.000	261500.000	91.760	239.700	218.200
x		170.900	149.500	3528.000	257500.000	262800.000	91.650	240.200	218.900
σ		0.869	0.828	29.280	3038.000	2882.000	0.905	3.705	0.952
%RSD		0.509	0.554	0.830	1.180	1.096	0.988	1.543	0.435

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	223.600	605.300	617.600	157.600	1.149	2.015	0.000	82.340
2	22:14:47	219.600	605.000	609.700	155.000	1.817	2.379	0.000	82.710
3	22:15:30	223.100	614.100	625.600	157.200	1.451	3.819	0.000	83.130
x		222.100	608.100	617.600	156.600	1.472	2.738	0.000	82.720
σ		2.179	5.199	7.970	1.427	0.335	0.954	0.000	0.395
%RSD		0.981	0.855	1.290	0.911	22.740	34.840	0.000	0.478

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	0.000	8.253	8.646	75.049%	0.244	0.172	1.763	1.315
2	22:14:47	0.000	7.959	7.946	77.156%	0.245	0.178	1.539	1.237
3	22:15:30	0.000	7.913	8.357	77.657%	0.260	0.175	1.645	1.252
x		0.000	8.042	8.316	76.621%	0.250	0.175	1.649	1.268
σ		0.000	0.185	0.352	1.384%	0.009	0.003	0.112	0.041
%RSD		0.000	2.294	4.233	1.807	3.501	1.752	6.774	3.269

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	77.525%	2.458	0.449	0.429	596.300	583.600	89.352%	87.656%
2	22:14:47	80.191%	2.344	0.358	0.327	586.400	578.000	92.089%	91.200%
3	22:15:30	80.593%	2.506	0.484	0.350	594.100	586.800	93.074%	91.914%
x		79.436%	2.436	0.430	0.369	592.300	582.800	91.505%	90.256%
σ		1.667%	0.083	0.065	0.053	5.195	4.449	1.929%	2.281%
%RSD		2.099	3.421	15.170	14.400	0.877	0.763	2.108	2.527

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:14:04	1.613	1.565	136.200	136.300	136.100	75.366%
2	22:14:47	1.565	1.553	133.600	132.500	133.600	78.616%
3	22:15:30	1.675	1.630	137.300	136.000	136.800	78.884%
x		1.618	1.583	135.700	134.900	135.500	77.622%
σ		0.055	0.041	1.867	2.125	1.690	1.959%
%RSD		3.391	2.603	1.376	1.575	1.247	2.523

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	69.934%	2.966	145.200	139.600	0.000	3165.000	11760.000	11830.000
2	22:23:01	68.221%	2.953	156.300	146.300	0.000	3229.000	12010.000	12040.000
3	22:23:44	71.667%	2.949	148.300	141.300	0.000	3048.000	11490.000	11490.000
x		69.941%	2.956	149.900	142.400	0.000	3147.000	11760.000	11780.000
σ		1.723%	0.009	5.736	3.477	0.000	91.680	260.700	276.000
%RSD		2.463	0.299	3.826	2.442	0.000	2.913	2.217	2.342

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	65020.000	12670.000	0.000	22200.000	678.300	646.300	75.405%	662.900
2	22:23:01	65950.000	12850.000	0.000	22140.000	665.200	625.400	76.663%	664.400
3	22:23:44	62990.000	12100.000	0.000	21320.000	665.600	633.800	77.622%	644.900
x		64660.000	12540.000	0.000	21880.000	669.700	635.200	76.563%	657.400
σ		1513.000	391.800	0.000	490.700	7.475	10.550	1.112%	10.880
%RSD		2.340	3.125	0.000	2.242	1.116	1.660	1.453	1.654

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	116.900	98.060	4403.000	202900.000	206500.000	98.370	160.100	97.480
2	22:23:01	114.700	98.750	4434.000	202600.000	205700.000	99.420	159.700	98.580
3	22:23:44	112.700	96.280	4266.000	194300.000	199000.000	96.530	156.100	94.350
x		114.800	97.690	4368.000	200000.000	203700.000	98.110	158.600	96.800
σ		2.116	1.276	89.290	4872.000	4154.000	1.464	2.201	2.199
%RSD		1.843	1.306	2.044	2.436	2.039	1.493	1.387	2.272

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	99.740	273.300	275.700	272.800	1.545	1.766	0.000	85.660
2	22:23:01	99.940	270.900	279.900	275.800	1.436	2.794	0.000	86.310
3	22:23:44	94.070	265.300	267.600	262.700	1.013	2.296	0.000	83.060
x		97.920	269.800	274.400	270.400	1.331	2.285	0.000	85.010
σ		3.330	4.132	6.236	6.828	0.281	0.514	0.000	1.718
%RSD		3.401	1.532	2.273	2.525	21.100	22.500	0.000	2.021

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	0.000	1751.000	1734.000	74.225%	0.193	0.113	1.266	1.059
2	22:23:01	0.000	1772.000	1768.000	75.887%	0.177	0.075	1.073	0.957
3	22:23:44	0.000	1704.000	1694.000	77.939%	0.163	0.078	1.025	0.966
x		0.000	1742.000	1732.000	76.017%	0.178	0.089	1.121	0.994
σ		0.000	34.670	37.070	1.861%	0.015	0.021	0.128	0.057
%RSD		0.000	1.990	2.141	2.448	8.218	23.810	11.390	5.697

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	75.947%	3.849	0.578	0.574	314.800	310.100	83.212%	83.593%
2	22:23:01	78.752%	3.872	0.661	0.643	313.100	311.300	85.863%	87.137%
3	22:23:44	80.476%	3.838	0.603	0.510	300.400	296.700	90.155%	90.068%
x		78.392%	3.853	0.614	0.576	309.400	306.100	86.410%	86.933%
σ		2.286%	0.017	0.043	0.066	7.870	8.101	3.504%	3.242%
%RSD		2.916	0.452	6.942	11.500	2.543	2.647	4.055	3.730

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:18	1.201	1.216	87.890	86.070	87.220	74.656%
2	22:23:01	1.286	1.280	89.850	89.030	89.280	76.529%
3	22:23:44	1.172	1.245	85.970	85.600	85.900	79.010%
x		1.220	1.247	87.900	86.900	87.470	76.732%
σ		0.059	0.032	1.939	1.860	1.703	2.184%
%RSD		4.877	2.600	2.205	2.140	1.947	2.846

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	70.068%	4.492	27.540	30.470	0.000	1361.000	17580.000	17650.000
2	22:31:15	70.239%	4.360	31.030	33.120	0.000	1380.000	17760.000	17800.000
3	22:31:58	70.967%	4.218	31.300	30.290	0.000	1340.000	17330.000	17340.000
x		70.425%	4.357	29.960	31.290	0.000	1361.000	17560.000	17600.000
σ		0.477%	0.137	2.098	1.584	0.000	19.770	216.200	235.800
%RSD		0.677	3.138	7.004	5.063	0.000	1.453	1.231	1.340

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	78720.000	14990.000	0.000	9260.000	3861.000	3556.000	75.768%	788.600
2	22:31:15	78980.000	14860.000	0.000	9184.000	3641.000	3622.000	77.171%	788.700
3	22:31:58	76190.000	14220.000	0.000	8904.000	3621.000	3419.000	78.107%	763.400
x		77960.000	14690.000	0.000	9116.000	3707.000	3532.000	77.015%	780.200
σ		1545.000	411.400	0.000	187.900	133.100	103.300	1.177%	14.600
%RSD		1.982	2.801	0.000	2.062	3.590	2.924	1.528	1.871

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	135.900	116.000	3522.000	187000.000	190500.000	95.430	175.400	117.100
2	22:31:15	135.500	115.300	3519.000	185400.000	189200.000	94.900	173.000	116.300
3	22:31:58	130.200	111.700	3399.000	180800.000	184700.000	92.250	167.400	113.700
x		133.800	114.300	3480.000	184400.000	188100.000	94.190	171.900	115.700
σ		3.183	2.299	70.020	3207.000	3055.000	1.706	4.056	1.773
%RSD		2.378	2.011	2.012	1.739	1.624	1.811	2.359	1.533

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	117.600	965.000	968.600	192.200	1.502	3.493	0.000	48.320
2	22:31:15	116.500	964.000	979.900	190.900	1.706	3.128	0.000	49.300
3	22:31:58	114.700	939.500	956.200	185.800	1.614	3.559	0.000	47.970
x		116.300	956.200	968.300	189.600	1.607	3.394	0.000	48.530
σ		1.424	14.450	11.860	3.417	0.102	0.232	0.000	0.688
%RSD		1.225	1.511	1.225	1.802	6.349	6.838	0.000	1.418

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	0.000	11.510	11.850	74.684%	0.163	0.100	2.027	1.677
2	22:31:15	0.000	11.680	11.260	76.063%	0.146	0.080	2.270	1.775
3	22:31:58	0.000	10.850	11.080	78.132%	0.156	0.084	1.788	1.703
x		0.000	11.350	11.400	76.293%	0.155	0.088	2.028	1.718
σ		0.000	0.442	0.404	1.735%	0.008	0.010	0.241	0.051
%RSD		0.000	3.893	3.541	2.274	5.185	11.880	11.900	2.958

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	76.338%	3.354	0.339	0.414	363.600	360.000	85.464%	84.804%
2	22:31:15	78.970%	3.485	0.388	0.329	367.200	358.700	88.798%	88.157%
3	22:31:58	80.834%	3.273	0.315	0.357	355.500	348.500	90.141%	90.672%
x		78.714%	3.371	0.347	0.367	362.100	355.700	88.134%	87.877%
σ		2.259%	0.107	0.037	0.044	6.005	6.266	2.408%	2.944%
%RSD		2.870	3.175	10.720	11.900	1.658	1.761	2.732	3.350

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:30:32	1.154	1.198	80.180	78.080	78.850	74.501%
2	22:31:15	1.159	1.178	79.610	77.050	78.720	76.756%
3	22:31:58	1.203	1.119	76.020	75.490	76.020	79.721%
x		1.172	1.165	78.600	76.870	77.860	76.992%
σ		0.027	0.041	2.256	1.305	1.594	2.618%
%RSD		2.287	3.527	2.870	1.698	2.047	3.400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	69.533%	4.427	21.760	21.470	0.000	500.300	12000.000	12040.000
2	22:39:26	71.304%	3.383	23.280	21.860	0.000	494.200	11800.000	11950.000
3	22:40:09	73.822%	3.158	20.950	21.780	0.000	469.400	11250.000	11340.000
x		71.553%	3.656	22.000	21.710	0.000	488.000	11690.000	11780.000
σ		2.155%	0.677	1.185	0.206	0.000	16.410	389.400	379.600
%RSD		3.012	18.520	5.385	0.947	0.000	3.362	3.332	3.223

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	78120.000	14730.000	0.000	6805.000	5786.000	5572.000	75.629%	770.400
2	22:39:26	76080.000	14270.000	0.000	6625.000	5644.000	5528.000	77.380%	762.700
3	22:40:09	72470.000	13510.000	0.000	6339.000	5677.000	5385.000	79.532%	735.600
x		75560.000	14170.000	0.000	6589.000	5702.000	5495.000	77.514%	756.200
σ		2863.000	615.700	0.000	235.200	74.410	97.870	1.955%	18.310
%RSD		3.790	4.344	0.000	3.569	1.305	1.781	2.522	2.421

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	139.100	96.940	14640.000	171500.000	173800.000	232.000	271.300	93.710
2	22:39:26	136.800	97.160	14390.000	167500.000	171000.000	225.700	265.700	92.640
3	22:40:09	134.100	92.560	13900.000	161300.000	164900.000	218.400	253.600	88.800
x		136.700	95.560	14310.000	166700.000	169900.000	225.300	263.500	91.720
σ		2.507	2.594	377.700	5136.000	4588.000	6.810	9.035	2.584
%RSD		1.834	2.714	2.639	3.080	2.700	3.022	3.429	2.817

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	95.240	359.300	364.200	149.900	1.874	3.947	0.000	65.190
2	22:39:26	93.520	356.000	359.500	148.300	2.025	4.006	0.000	64.940
3	22:40:09	91.860	343.600	341.600	142.000	1.753	3.644	0.000	62.000
x		93.540	353.000	355.100	146.700	1.884	3.866	0.000	64.040
σ		1.690	8.250	11.920	4.138	0.137	0.194	0.000	1.771
%RSD		1.807	2.337	3.355	2.821	7.243	5.028	0.000	2.765

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	0.000	11.620	12.150	74.176%	0.154	0.108	1.702	1.478
2	22:39:26	0.000	11.970	11.820	76.721%	0.193	0.076	1.467	1.425
3	22:40:09	0.000	11.200	11.110	78.605%	0.132	0.131	1.846	1.541
x		0.000	11.590	11.690	76.501%	0.160	0.105	1.672	1.481
σ		0.000	0.385	0.531	2.223%	0.031	0.027	0.191	0.058
%RSD		0.000	3.320	4.538	2.905	19.300	26.130	11.450	3.931

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	76.022%	2.859	0.421	0.352	473.200	470.800	82.589%	82.729%
2	22:39:26	80.421%	2.504	0.380	0.413	465.700	457.500	87.423%	86.885%
3	22:40:09	81.270%	2.474	0.408	0.359	449.500	443.500	89.736%	89.699%
x		79.238%	2.612	0.403	0.374	462.800	457.200	86.583%	86.438%
σ		2.817%	0.214	0.021	0.034	12.130	13.630	3.647%	3.506%
%RSD		3.555	8.186	5.265	8.973	2.621	2.981	4.213	4.057

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:43	1.431	1.352	84.780	84.010	84.360	74.210%
2	22:39:26	1.428	1.416	84.310	83.210	83.870	76.942%
3	22:40:09	1.369	1.365	80.490	79.160	80.020	79.724%
x		1.409	1.378	83.190	82.120	82.750	76.958%
σ		0.035	0.034	2.353	2.602	2.374	2.757%
%RSD		2.498	2.437	2.829	3.169	2.869	3.583

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	77.383%	104.100	101.000	101.500	0.000	52340.000	52910.000	52760.000
2	22:47:38	78.738%	102.400	101.400	100.500	0.000	51500.000	51810.000	51930.000
3	22:48:21	77.570%	103.000	106.800	105.800	0.000	52490.000	52660.000	52770.000
x		77.897%	103.160%	103.048%	102.632%	0.000	104.219%	104.919%	104.973%
σ		0.735%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.943	0.857	3.159	2.755	0.000	1.018	1.100	0.918

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	532.200	5006.000	0.000	53140.000	51420.000	50360.000	78.038%	104.200
2	22:47:38	525.400	4906.000	0.000	52500.000	51630.000	50380.000	78.937%	98.820
3	22:48:21	535.500	5054.000	0.000	53150.000	52170.000	51130.000	78.690%	107.900
x		106.208%	99.772%	0.000	105.860%	103.484%	101.245%	78.555%	103.634%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.464%	n/a
%RSD		0.967	1.511	0.000	0.696	0.750	0.862	0.591	4.387

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	102.500	104.200	519.100	26830.000	26140.000	106.800	104.200	105.200
2	22:47:38	102.700	103.100	520.600	26280.000	25970.000	105.000	104.400	105.000
3	22:48:21	104.700	105.000	525.700	26640.000	26470.000	107.000	108.500	106.000
x		103.306%	104.093%	104.363%	106.334%	104.774%	106.266%	105.732%	105.390%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.174	0.909	0.669	1.057	0.954	1.030	2.295	0.517

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	106.500	103.000	103.900	104.700	101.500	103.900	0.000	105.600
2	22:47:38	106.500	105.800	104.200	105.400	101.600	105.000	0.000	104.200
3	22:48:21	110.100	105.700	105.700	103.900	103.200	105.700	0.000	106.800
x		107.692%	104.865%	104.594%	104.669%	102.100%	104.878%	0.000	105.542%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.969	1.511	0.949	0.736	0.930	0.858	0.000	1.214

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	77.872%	104.400	103.500	76.596%	106.900	107.000	105.500	106.900
2	22:47:38	79.183%	105.600	104.100	79.039%	105.000	104.400	104.900	102.100
3	22:48:21	79.656%	108.200	108.000	78.636%	107.100	105.800	105.500	104.900
x		78.904%	106.059%	105.207%	78.090%	106.311%	105.737%	105.313%	104.629%
σ		0.924%	n/a	n/a	1.310%	n/a	n/a	n/a	n/a
%RSD		1.171	1.849	2.304	1.677	1.105	1.228	0.305	2.317

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	77.023%	102.700	104.100	104.000	104.400	105.100	80.841%	80.793%
2	22:47:38	80.760%	101.500	101.200	101.300	103.200	102.000	82.861%	83.552%
3	22:48:21	80.446%	103.500	102.900	104.700	104.600	106.000	83.193%	83.241%
x		79.409%	102.578%	102.718%	103.332%	104.083%	104.383%	82.299%	82.528%
σ		2.073%	n/a	n/a	n/a	n/a	n/a	1.273%	1.511%
%RSD		2.610	0.970	1.425	1.730	0.725	1.992	1.547	1.831

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:55	107.700	106.800	106.400	107.400	107.400	74.323%
2	22:47:38	105.000	105.100	105.700	106.800	106.100	76.815%
3	22:48:21	106.900	105.900	106.700	106.500	107.100	77.577%
x		106.546%	105.925%	106.289%	106.887%	106.862%	76.238%
σ		n/a	n/a	n/a	n/a	n/a	1.702%
%RSD		1.313	0.789	0.474	0.445	0.615	2.233

CCB6 4/12/2013 10:54:27 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	102.793%	-0.005	0.506	0.645	0.000	41.530	1.317	1.356
2	22:55:53	103.429%	0.048	0.499	0.276	0.000	60.770	9.477	11.080
3	22:56:36	104.207%	0.021	0.764	0.496	0.000	58.690	10.360	11.790
x		103.476%	0.021	0.589	0.472	0.000	53.660	7.052	8.074
σ		0.708%	0.027	0.151	0.186	0.000	10.560	4.986	5.829
%RSD		0.685	125.200	25.630	39.370	0.000	19.670	70.710	72.190

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	-0.523	-236.800	0.000	-67.260	2.104	-42.540	88.564%	0.015
2	22:55:53	1.195	-216.800	0.000	-55.070	25.550	-32.280	88.426%	0.220
3	22:56:36	1.111	-226.300	0.000	-56.010	42.090	-32.610	90.248%	0.129
x		0.595	-226.600	0.000	-59.450	23.250	-35.810	89.079%	0.121
σ		0.969	9.989	0.000	6.781	20.090	5.831	1.014%	0.102
%RSD		162.900	4.408	0.000	11.410	86.420	16.280	1.139	84.430

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	-0.011	0.089	0.046	3.408	-1.341	-0.007	0.036	-0.141
2	22:55:53	0.022	0.130	0.554	10.520	11.220	0.021	-0.009	-0.070
3	22:56:36	0.012	0.126	0.511	10.700	9.175	0.007	-0.049	-0.049
x		0.008	0.115	0.370	8.209	6.350	0.007	-0.007	-0.087
σ		0.017	0.023	0.282	4.159	6.738	0.014	0.043	0.048
%RSD		219.600	19.850	76.170	50.660	106.100	197.700	598.300	55.290

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	-0.006	-1.142	-1.092	-0.031	-0.588	-0.409	0.000	0.002
2	22:55:53	-0.006	-0.941	-1.091	0.266	-1.173	0.459	0.000	0.032
3	22:56:36	-0.041	-1.013	-0.827	0.225	-0.949	0.412	0.000	0.024
x		-0.018	-1.032	-1.003	0.153	-0.903	0.154	0.000	0.019
σ		0.020	0.102	0.153	0.161	0.295	0.489	0.000	0.016
%RSD		116.400	9.870	15.220	104.900	32.700	317.000	0.000	82.220

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	88.572%	0.368	0.336	84.336%	-0.009	0.010	0.061	0.031
2	22:55:53	88.473%	0.350	0.434	84.527%	-0.001	0.012	0.050	0.034
3	22:56:36	91.408%	0.297	0.352	86.753%	0.019	0.017	0.025	0.014
x		89.485%	0.338	0.374	85.205%	0.003	0.013	0.045	0.026
σ		1.667%	0.037	0.052	1.344%	0.015	0.004	0.019	0.011
%RSD		1.863	10.950	13.950	1.577	452.800	30.930	41.190	39.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	84.040%	0.070	-0.011	-0.008	-0.015	-0.001	84.524%	84.653%
2	22:55:53	84.783%	0.065	0.012	-0.003	0.055	0.046	85.803%	85.805%
3	22:56:36	87.136%	0.096	0.011	0.001	0.088	0.077	87.280%	87.264%
x		85.320%	0.077	0.004	-0.004	0.043	0.041	85.869%	85.907%
σ		1.616%	0.016	0.013	0.005	0.052	0.039	1.379%	1.309%
%RSD		1.894	21.120	346.200	132.000	122.700	96.060	1.606	1.523

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:55:10	0.023	0.049	-0.010	0.001	-0.004	79.358%
2	22:55:53	0.033	0.046	0.018	0.025	0.028	80.298%
3	22:56:36	0.026	0.037	0.027	0.026	0.037	81.472%
x		0.027	0.044	0.012	0.017	0.020	80.376%
σ		0.005	0.006	0.019	0.014	0.022	1.059%
%RSD		19.620	14.340	163.700	83.360	105.800	1.318

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	70.424%	5.203	33.240	30.680	0.000	468.600	19260.000	19340.000
2	23:04:07	73.512%	4.680	29.710	29.830	0.000	452.300	18900.000	18840.000
3	23:04:50	72.207%	4.723	30.220	32.500	0.000	470.500	19280.000	19380.000
x		72.048%	4.869	31.060	31.010	0.000	463.800	19150.000	19190.000
σ		1.550%	0.290	1.911	1.365	0.000	10.000	216.900	299.500
%RSD		2.152	5.963	6.153	4.402	0.000	2.157	1.133	1.561

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	89840.000	13850.000	0.000	9744.000	4621.000	4155.000	79.963%	849.800
2	23:04:07	86740.000	13230.000	0.000	9467.000	4641.000	4094.000	80.878%	852.300
3	23:04:50	89580.000	13570.000	0.000	9731.000	4434.000	4193.000	80.466%	859.100
x		88720.000	13550.000	0.000	9647.000	4565.000	4147.000	80.435%	853.700
σ		1723.000	306.600	0.000	156.500	114.500	49.790	0.458%	4.830
%RSD		1.942	2.262	0.000	1.622	2.508	1.201	0.570	0.566

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	153.900	132.500	6335.000	262100.000	266500.000	85.030	186.500	126.100
2	23:04:07	152.500	130.500	6240.000	256800.000	261300.000	84.660	186.100	126.100
3	23:04:50	156.000	134.500	6377.000	261900.000	267300.000	86.570	190.800	126.200
x		154.200	132.500	6317.000	260300.000	265000.000	85.420	187.800	126.200
σ		1.745	2.032	69.970	3016.000	3256.000	1.010	2.597	0.068
%RSD		1.132	1.533	1.108	1.159	1.229	1.183	1.383	0.054

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	129.200	457.900	468.100	180.400	1.271	4.763	0.000	1048.000
2	23:04:07	124.800	456.500	464.000	173.800	1.056	3.519	0.000	1028.000
3	23:04:50	129.900	469.500	468.900	183.100	0.654	3.789	0.000	1062.000
x		128.000	461.300	467.000	179.100	0.994	4.024	0.000	1046.000
σ		2.776	7.188	2.617	4.769	0.313	0.654	0.000	16.730
%RSD		2.169	1.558	0.560	2.663	31.500	16.260	0.000	1.599

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	0.000	45.810	46.900	75.962%	0.145	0.107	1.151	0.985
2	23:04:07	0.000	45.170	45.350	78.789%	0.184	0.105	1.011	0.918
3	23:04:50	0.000	47.970	48.010	78.428%	0.167	0.145	1.294	0.903
x		0.000	46.320	46.750	77.727%	0.165	0.119	1.152	0.935
σ		0.000	1.467	1.335	1.539%	0.019	0.023	0.141	0.044
%RSD		0.000	3.167	2.855	1.979	11.770	19.220	12.270	4.666

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	78.168%	2.976	0.269	0.332	526.900	516.400	88.232%	86.444%
2	23:04:07	81.603%	2.935	0.312	0.257	515.800	509.200	91.291%	91.096%
3	23:04:50	80.841%	3.377	0.390	0.354	537.800	529.300	90.341%	90.758%
x		80.204%	3.096	0.323	0.315	526.800	518.300	89.955%	89.433%
σ		1.804%	0.244	0.061	0.051	11.020	10.200	1.566%	2.594%
%RSD		2.250	7.893	19.000	16.150	2.091	1.967	1.740	2.900

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:24	1.204	1.201	95.480	94.670	95.350	76.197%
2	23:04:07	1.208	1.178	94.920	94.630	94.590	79.264%
3	23:04:50	1.165	1.237	96.490	95.610	96.650	79.171%
x		1.192	1.206	95.630	94.970	95.530	78.211%
σ		0.024	0.030	0.795	0.553	1.041	1.744%
%RSD		2.013	2.469	0.832	0.582	1.090	2.230

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	72.895%	0.347	20.120	18.960	0.000	2665.000	6593.000	6621.000
2	23:12:20	72.469%	0.349	17.580	18.700	0.000	2639.000	6557.000	6545.000
3	23:13:03	75.361%	0.281	18.090	19.160	0.000	2580.000	6374.000	6391.000
x		73.575%	0.325	18.600	18.940	0.000	2628.000	6508.000	6519.000
σ		1.561%	0.039	1.343	0.229	0.000	43.400	117.800	116.800
%RSD		2.122	11.920	7.220	1.211	0.000	1.651	1.811	1.792

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	7021.000	1235.000	0.000	1926.000	15340.000	14500.000	76.347%	135.100
2	23:12:20	6920.000	1215.000	0.000	1897.000	15350.000	14390.000	77.079%	140.900
3	23:13:03	6788.000	1181.000	0.000	1890.000	15130.000	14450.000	76.280%	142.200
x		6910.000	1210.000	0.000	1904.000	15270.000	14450.000	76.569%	139.400
σ		116.800	27.300	0.000	18.700	121.800	55.950	0.443%	3.780
%RSD		1.691	2.256	0.000	0.982	0.797	0.387	0.579	2.711

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	27.630	11.830	188600.000	12880.000	12550.000	271.400	63.450	217.300
2	23:12:20	27.590	11.720	183900.000	12600.000	12410.000	266.500	62.540	213.100
3	23:13:03	27.710	11.930	186200.000	12710.000	12660.000	272.200	61.860	218.200
x		27.640	11.820	186200.000	12730.000	12540.000	270.000	62.620	216.200
σ		0.063	0.106	2354.000	141.300	124.500	3.073	0.794	2.751
%RSD		0.227	0.895	1.264	1.110	0.993	1.138	1.268	1.272

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	218.400	60.030	59.950	63.400	-0.279	-0.881	0.000	1906.000
2	23:12:20	215.800	59.300	61.980	62.700	-0.481	-1.196	0.000	1879.000
3	23:13:03	215.600	59.710	61.380	63.960	-0.297	-0.160	0.000	1889.000
x		216.600	59.680	61.100	63.360	-0.352	-0.746	0.000	1891.000
σ		1.561	0.364	1.041	0.628	0.112	0.531	0.000	13.400
%RSD		0.721	0.610	1.703	0.992	31.840	71.160	0.000	0.708

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	83.462%	55.640	55.610	79.187%	0.021	0.042	0.445	0.374
2	23:12:20	84.149%	55.830	56.170	80.140%	0.012	0.020	0.320	0.320
3	23:13:03	83.584%	56.540	55.980	79.640%	0.014	0.029	0.145	0.202
x		83.732%	56.000	55.920	79.655%	0.016	0.030	0.303	0.299
σ		0.367%	0.479	0.283	0.477%	0.005	0.011	0.151	0.088
%RSD		0.438	0.855	0.507	0.599	32.400	36.340	49.630	29.480

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	80.313%	0.370	0.325	0.301	1548.000	1523.000	83.719%	83.603%
2	23:12:20	82.693%	0.357	0.240	0.244	1530.000	1516.000	84.203%	85.722%
3	23:13:03	82.425%	0.361	0.307	0.315	1528.000	1507.000	85.047%	85.354%
x		81.810%	0.363	0.291	0.287	1535.000	1515.000	84.323%	84.893%
σ		1.303%	0.006	0.045	0.038	11.030	7.610	0.672%	1.132%
%RSD		1.593	1.777	15.530	13.110	0.719	0.502	0.797	1.334

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:36	2.973	3.114	66.470	68.040	68.140	79.595%
2	23:12:20	3.003	3.053	67.190	67.640	68.330	81.127%
3	23:13:03	2.981	2.984	66.720	68.390	68.390	80.985%
x		2.986	3.051	66.790	68.020	68.290	80.569%
σ		0.016	0.065	0.366	0.377	0.131	0.846%
%RSD		0.530	2.133	0.548	0.555	0.191	1.050

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:49	66.140%	4.445	26.810	25.020	0.000	490.000	23060.000	23190.000
2	23:20:32	67.317%	4.212	25.130	26.870	0.000	501.600	23520.000	23560.000
3	23:21:15	66.793%	3.916	23.510	26.000	0.000	506.100	23900.000	23730.000
x		66.750%	4.191	25.150	25.960	0.000	499.200	23490.000	23490.000
σ		0.590%	0.265	1.653	0.930	0.000	8.290	420.300	275.800
%RSD		0.884	6.326	6.571	3.581	0.000	1.661	1.789	1.174
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:49	124200.000	12700.000	0.000	7612.000	14060.000	12140.000	73.325%	1442.000
2	23:20:32	125000.000	12690.000	0.000	7697.000	14540.000	12530.000	73.038%	1464.000
3	23:21:15	125400.000	12780.000	0.000	7746.000	14030.000	12660.000	73.465%	1482.000
x		124900.000	12720.000	0.000	7685.000	14210.000	12440.000	73.276%	1463.000
σ		625.300	47.220	0.000	68.030	290.200	273.300	0.218%	20.010
%RSD		0.501	0.371	0.000	0.885	2.042	2.197	0.297	1.368
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:49	217.700	142.000	2863.000	211400.000	215900.000	47.600	131.600	122.000
2	23:20:32	225.700	147.400	2926.000	216400.000	220300.000	49.920	135.300	126.000
3	23:21:15	226.300	148.500	2967.000	218200.000	221700.000	50.270	138.600	125.900
x		223.300	146.000	2919.000	215400.000	219300.000	49.260	135.200	124.600
σ		4.785	3.462	52.610	3507.000	3064.000	1.450	3.495	2.322
%RSD		2.143	2.372	1.802	1.628	1.397	2.944	2.586	1.863
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:49	122.500	362.600	365.800	94.530	4.269	5.834	0.000	6519.000
2	23:20:32	128.500	375.500	379.500	97.750	3.992	3.373	0.000	6685.000
3	23:21:15	128.100	381.000	384.600	99.310	4.012	5.329	0.000	6717.000
x		126.400	373.000	376.600	97.200	4.091	4.845	0.000	6640.000
σ		3.332	9.450	9.691	2.440	0.154	1.300	0.000	106.000
%RSD		2.637	2.533	2.573	2.510	3.775	26.830	0.000	1.596
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:49	0.000	222.900	221.900	72.542%	0.231	0.184	0.943	0.689
2	23:20:32	0.000	228.400	230.100	72.989%	0.241	0.187	0.929	0.772
3	23:21:15	0.000	232.900	235.500	72.594%	0.232	0.172	0.968	0.760
x		0.000	228.000	229.200	72.709%	0.235	0.181	0.947	0.740
σ		0.000	4.993	6.816	0.245%	0.006	0.008	0.020	0.045
%RSD		0.000	2.190	2.974	0.336	2.379	4.322	2.131	6.042
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:49	74.950%	2.668	0.309	0.300	615.000	601.200	79.826%	80.290%
2	23:20:32	75.803%	2.808	0.324	0.295	618.200	614.300	81.344%	81.778%
3	23:21:15	76.065%	2.773	0.313	0.364	627.300	618.200	81.935%	82.055%
x		75.606%	2.750	0.315	0.320	620.200	611.200	81.035%	81.374%
σ		0.583%	0.073	0.008	0.038	6.399	8.880	1.088%	0.949%
%RSD		0.771	2.648	2.480	12.020	1.032	1.453	1.342	1.166
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:19:49	1.456	1.432	98.980	96.460	97.760	74.167%		
2	23:20:32	1.441	1.478	102.600	99.730	101.000	74.839%		
3	23:21:15	1.469	1.561	102.600	101.100	102.200	74.644%		
x		1.455	1.491	101.400	99.090	100.300	74.550%		
σ		0.014	0.065	2.084	2.370	2.292	0.346%		
%RSD		0.951	4.385	2.056	2.392	2.284	0.464		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	63.630%	5.641	53.480	55.470	0.000	3367.000	23010.000	23000.000
2	23:28:45	65.486%	5.150	60.550	53.790	0.000	3303.000	22750.000	22780.000
3	23:29:28	67.315%	5.097	51.790	52.020	0.000	3188.000	21990.000	21850.000
x		65.477%	5.296	55.280	53.760	0.000	3286.000	22590.000	22540.000
σ		1.843%	0.299	4.647	1.724	0.000	90.990	529.100	608.300
%RSD		2.814	5.655	8.408	3.207	0.000	2.769	2.343	2.698

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	105200.000	13040.000	0.000	14580.000	4304.000	4257.000	71.403%	1003.000
2	23:28:45	103700.000	12670.000	0.000	14290.000	4410.000	4251.000	73.124%	994.300
3	23:29:28	99880.000	12210.000	0.000	13930.000	4574.000	4117.000	73.513%	969.700
x		103000.000	12640.000	0.000	14260.000	4429.000	4208.000	72.680%	989.000
σ		2766.000	414.100	0.000	327.700	135.700	78.930	1.123%	17.340
%RSD		2.686	3.276	0.000	2.297	3.064	1.875	1.545	1.753

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	167.900	177.700	3480.000	209300.000	212100.000	77.220	174.600	135.700
2	23:28:45	164.100	176.200	3402.000	205000.000	208300.000	75.980	172.000	135.100
3	23:29:28	160.000	171.600	3325.000	199700.000	203400.000	74.730	167.200	132.200
x		164.000	175.200	3402.000	204700.000	207900.000	75.980	171.200	134.400
σ		3.921	3.191	77.180	4824.000	4370.000	1.242	3.760	1.885
%RSD		2.391	1.822	2.269	2.357	2.101	1.635	2.196	1.403

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	140.300	397.200	400.300	239.200	2.371	3.178	0.000	248.400
2	23:28:45	135.200	392.200	396.200	234.900	1.581	4.103	0.000	246.100
3	23:29:28	133.100	389.000	393.000	226.700	2.040	4.661	0.000	238.800
x		136.200	392.800	396.500	233.600	1.997	3.981	0.000	244.400
σ		3.725	4.126	3.706	6.332	0.397	0.749	0.000	5.027
%RSD		2.736	1.050	0.935	2.711	19.860	18.810	0.000	2.056

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	0.000	215.300	214.700	69.689%	0.211	0.150	1.102	0.832
2	23:28:45	0.000	212.000	210.600	71.985%	0.199	0.160	1.074	0.832
3	23:29:28	0.000	208.500	206.600	73.537%	0.197	0.135	0.964	0.547
x		0.000	211.900	210.600	71.737%	0.202	0.148	1.047	0.737
σ		0.000	3.405	4.060	1.936%	0.008	0.013	0.073	0.165
%RSD		0.000	1.607	1.927	2.699	3.846	8.752	7.000	22.380

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	71.606%	2.400	0.313	0.232	598.100	594.400	80.758%	80.198%
2	23:28:45	74.102%	2.441	0.296	0.238	599.500	590.300	83.556%	83.518%
3	23:29:28	77.583%	2.282	0.286	0.277	576.900	566.100	85.253%	85.167%
x		74.431%	2.374	0.298	0.249	591.500	583.600	83.189%	82.961%
σ		3.002%	0.083	0.013	0.024	12.660	15.310	2.270%	2.531%
%RSD		4.033	3.480	4.494	9.764	2.141	2.623	2.729	3.051

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:02	1.117	1.222	109.600	108.500	109.100	71.176%
2	23:28:45	1.119	1.185	111.300	109.200	110.100	73.110%
3	23:29:28	1.158	1.201	105.100	104.000	105.000	76.284%
x		1.131	1.203	108.700	107.300	108.000	73.523%
σ		0.023	0.019	3.192	2.840	2.722	2.579%
%RSD		2.032	1.555	2.938	2.648	2.520	3.508

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	66.559%	3.016	26.910	29.010	0.000	2376.000	15680.000	15770.000
2	23:36:58	66.497%	3.464	31.450	29.150	0.000	2410.000	15800.000	15820.000
3	23:37:41	68.310%	3.061	29.560	28.650	0.000	2411.000	15850.000	15850.000
x		67.122%	3.180	29.300	28.940	0.000	2399.000	15780.000	15810.000
σ		1.030%	0.247	2.277	0.259	0.000	19.850	85.040	37.290
%RSD		1.534	7.761	7.770	0.893	0.000	0.828	0.539	0.236

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	63490.000	10660.000	0.000	8529.000	4452.000	4151.000	72.083%	575.300
2	23:36:58	62890.000	10440.000	0.000	8428.000	4373.000	4094.000	73.204%	573.500
3	23:37:41	62560.000	10410.000	0.000	8537.000	4425.000	4085.000	72.626%	583.400
x		62980.000	10500.000	0.000	8498.000	4416.000	4110.000	72.638%	577.400
σ		470.900	135.500	0.000	60.580	39.970	35.580	0.561%	5.242
%RSD		0.748	1.290	0.000	0.713	0.905	0.866	0.772	0.908

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	103.600	105.100	13060.000	155100.000	157600.000	70.640	163.300	130.400
2	23:36:58	103.300	103.000	12910.000	153100.000	155900.000	70.420	169.300	132.300
3	23:37:41	105.800	103.400	13110.000	155100.000	157700.000	71.110	169.500	133.500
x		104.200	103.800	13020.000	154500.000	157100.000	70.720	167.400	132.100
σ		1.341	1.106	102.700	1136.000	1008.000	0.352	3.504	1.565
%RSD		1.287	1.065	0.788	0.736	0.642	0.498	2.094	1.185

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	133.100	327.500	335.800	144.900	0.435	2.023	0.000	1429.000
2	23:36:58	130.200	337.600	333.800	146.800	0.779	2.718	0.000	1435.000
3	23:37:41	132.700	340.100	345.800	147.600	0.931	3.956	0.000	1462.000
x		132.000	335.100	338.400	146.400	0.715	2.899	0.000	1442.000
σ		1.588	6.660	6.404	1.406	0.254	0.979	0.000	17.120
%RSD		1.203	1.988	1.892	0.960	35.520	33.770	0.000	1.187

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	0.000	15.850	16.110	71.723%	0.148	0.084	0.983	0.689
2	23:36:58	0.000	15.980	16.470	73.647%	0.135	0.065	0.975	0.674
3	23:37:41	0.000	16.100	16.080	74.186%	0.127	0.090	1.040	0.724
x		0.000	15.980	16.220	73.185%	0.137	0.080	0.999	0.696
σ		0.000	0.127	0.217	1.294%	0.010	0.013	0.036	0.025
%RSD		0.000	0.792	1.338	1.769	7.532	16.080	3.565	3.630

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	73.486%	2.923	0.329	0.314	398.400	392.300	81.495%	80.020%
2	23:36:58	76.665%	2.705	0.321	0.311	393.600	388.700	85.313%	84.041%
3	23:37:41	76.422%	2.970	0.346	0.303	399.800	394.200	85.106%	85.128%
x		75.524%	2.866	0.332	0.309	397.300	391.800	83.971%	83.063%
σ		1.770%	0.141	0.013	0.006	3.224	2.791	2.147%	2.691%
%RSD		2.343	4.932	3.843	1.866	0.812	0.712	2.557	3.239

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:15	0.958	0.981	424.000	432.700	431.600	72.156%
2	23:36:58	0.913	1.008	423.700	432.200	433.900	74.674%
3	23:37:41	0.949	0.967	420.700	433.200	432.800	75.556%
x		0.940	0.986	422.800	432.700	432.800	74.129%
σ		0.024	0.021	1.806	0.492	1.122	1.764%
%RSD		2.515	2.116	0.427	0.114	0.259	2.380

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:28	64.851%	6.049	130.800	134.700	0.000	8446.000	26010.000	26050.000
2	23:45:11	63.631%	6.208	141.800	146.500	0.000	9025.000	27890.000	27920.000
3	23:45:55	66.097%	5.447	145.100	137.000	0.000	8564.000	26420.000	26620.000
x		64.860%	5.901	139.200	139.400	0.000	8678.000	26780.000	26860.000
σ		1.233%	0.401	7.508	6.233	0.000	306.100	989.000	959.700
%RSD		1.901	6.796	5.393	4.471	0.000	3.527	3.694	3.573
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:28	133900.000	16320.000	0.000	25470.000	1290.000	1226.000	74.046%	1360.000
2	23:45:11	141700.000	17310.000	0.000	26890.000	1331.000	1302.000	72.718%	1435.000
3	23:45:55	135400.000	16360.000	0.000	25820.000	1267.000	1241.000	74.490%	1381.000
x		137000.000	16660.000	0.000	26060.000	1296.000	1256.000	73.752%	1392.000
σ		4157.000	563.100	0.000	738.800	32.810	40.050	0.922%	38.700
%RSD		3.034	3.380	0.000	2.835	2.532	3.188	1.250	2.779
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:28	209.500	164.900	3030.000	255200.000	260900.000	87.170	189.500	164.600
2	23:45:11	223.400	175.600	3208.000	269700.000	275000.000	92.930	198.100	172.700
3	23:45:55	217.100	169.800	3097.000	258500.000	263600.000	88.840	194.400	167.300
x		216.700	170.100	3111.000	261100.000	266500.000	89.650	194.000	168.200
σ		6.964	5.391	89.720	7604.000	7491.000	2.964	4.300	4.136
%RSD		3.214	3.169	2.884	2.912	2.811	3.307	2.217	2.459
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:28	163.700	448.900	461.000	184.800	2.277	1.750	0.000	372.200
2	23:45:11	174.500	487.700	495.200	199.800	2.910	4.025	0.000	400.600
3	23:45:55	169.600	468.000	472.900	193.200	3.052	4.919	0.000	389.900
x		169.300	468.200	476.300	192.600	2.746	3.565	0.000	387.600
σ		5.389	19.410	17.360	7.504	0.413	1.634	0.000	14.350
%RSD		3.184	4.146	3.644	3.897	15.030	45.840	0.000	3.703
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:28	0.000	973.900	975.900	70.874%	0.264	0.198	0.844	0.846
2	23:45:11	0.000	1048.000	1043.000	70.888%	0.240	0.171	0.990	0.945
3	23:45:55	0.000	1018.000	1015.000	72.226%	0.243	0.171	1.304	0.939
x		0.000	1013.000	1011.000	71.329%	0.249	0.180	1.046	0.910
σ		0.000	37.060	33.830	0.777%	0.013	0.016	0.235	0.055
%RSD		0.000	3.658	3.345	1.089	5.274	8.883	22.470	6.067
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:28	73.683%	1.826	0.314	0.308	693.700	689.100	79.888%	80.291%
2	23:45:11	72.946%	1.996	0.325	0.307	751.900	750.000	80.620%	80.695%
3	23:45:55	75.757%	1.961	0.294	0.346	717.700	715.600	83.581%	83.584%
x		74.129%	1.928	0.311	0.320	721.100	718.200	81.363%	81.523%
σ		1.458%	0.090	0.016	0.022	29.280	30.540	1.956%	1.796%
%RSD		1.966	4.662	4.999	6.899	4.061	4.252	2.404	2.203
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:44:28	1.277	1.335	119.700	117.200	118.400	72.590%		
2	23:45:11	1.468	1.380	129.600	127.300	128.300	72.341%		
3	23:45:55	1.382	1.332	124.100	121.600	123.000	74.195%		
x		1.376	1.349	124.500	122.000	123.200	73.042%		
σ		0.096	0.027	4.978	5.042	4.919	1.006%		
%RSD		6.982	1.970	3.999	4.132	3.992	1.378		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	65.257%	4.619	18.190	18.840	0.000	525.400	16850.000	17020.000
2	23:53:25	67.248%	4.437	17.920	17.090	0.000	500.000	16010.000	16030.000
3	23:54:08	67.997%	4.777	17.040	16.410	0.000	515.300	16310.000	16360.000
x		66.834%	4.611	17.710	17.450	0.000	513.500	16390.000	16470.000
σ		1.416%	0.170	0.603	1.250	0.000	12.770	425.200	506.600
%RSD		2.119	3.684	3.403	7.164	0.000	2.488	2.594	3.076

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	77390.000	13440.000	0.000	5741.000	8523.000	8426.000	70.331%	828.700
2	23:53:25	72700.000	12420.000	0.000	5304.000	8259.000	7913.000	73.183%	793.700
3	23:54:08	73700.000	12670.000	0.000	5458.000	8441.000	8170.000	72.027%	813.400
x		74600.000	12840.000	0.000	5501.000	8408.000	8170.000	71.847%	811.900
σ		2473.000	532.400	0.000	221.600	135.000	256.500	1.435%	17.530
%RSD		3.315	4.145	0.000	4.028	1.605	3.140	1.997	2.159

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	135.400	299.700	6884.000	135400.000	137800.000	66.030	122.900	62.800
2	23:53:25	128.500	282.500	6445.000	127000.000	129500.000	62.640	118.800	60.900
3	23:54:08	130.400	291.500	6624.000	130700.000	134100.000	64.560	121.500	62.670
x		131.500	291.200	6651.000	131000.000	133800.000	64.410	121.100	62.120
σ		3.546	8.562	220.600	4195.000	4165.000	1.702	2.088	1.062
%RSD		2.698	2.940	3.317	3.201	3.113	2.643	1.724	1.710

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	64.460	231.000	239.300	68.580	2.735	4.194	0.000	73.270
2	23:53:25	58.750	219.500	222.000	63.240	1.659	3.495	0.000	69.440
3	23:54:08	62.660	230.300	234.300	66.440	1.512	3.212	0.000	72.350
x		61.960	226.900	231.900	66.090	1.969	3.634	0.000	71.680
σ		2.919	6.429	8.886	2.688	0.667	0.505	0.000	2.000
%RSD		4.711	2.833	3.833	4.068	33.900	13.900	0.000	2.790

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	0.000	9.156	9.177	69.975%	0.310	0.259	1.064	0.824
2	23:53:25	0.000	8.231	8.756	73.975%	0.259	0.251	0.711	0.679
3	23:54:08	0.000	8.550	8.552	72.996%	0.291	0.231	0.889	0.752
x		0.000	8.646	8.828	72.315%	0.287	0.247	0.888	0.752
σ		0.000	0.470	0.319	2.085%	0.026	0.014	0.177	0.072
%RSD		0.000	5.433	3.611	2.883	9.021	5.776	19.910	9.623

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	71.609%	1.998	0.265	0.205	622.200	616.900	78.474%	78.239%
2	23:53:25	77.141%	1.676	0.288	0.157	588.500	580.100	84.042%	83.038%
3	23:54:08	76.785%	1.936	0.247	0.272	604.200	591.100	83.540%	83.146%
x		75.178%	1.870	0.267	0.211	605.000	596.000	82.019%	81.474%
σ		3.096%	0.171	0.021	0.058	16.890	18.890	3.080%	2.802%
%RSD		4.118	9.145	7.778	27.470	2.791	3.170	3.755	3.439

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:42	1.126	1.139	103.800	100.900	101.900	70.422%
2	23:53:25	0.982	0.979	97.140	95.540	96.240	75.170%
3	23:54:08	1.021	1.084	99.770	99.210	99.850	74.131%
x		1.043	1.067	100.200	98.550	99.320	73.241%
σ		0.075	0.082	3.343	2.747	2.854	2.496%
%RSD		7.169	7.645	3.335	2.787	2.874	3.408

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	63.787%	5.930	59.970	64.220	0.000	2570.000	25440.000	25440.000
2	00:01:40	64.618%	5.980	69.180	63.550	0.000	2586.000	25500.000	25750.000
3	00:02:23	64.960%	5.766	69.650	65.120	0.000	2597.000	25660.000	25620.000
x		64.455%	5.892	66.270	64.300	0.000	2584.000	25530.000	25610.000
σ		0.604%	0.112	5.455	0.788	0.000	13.770	116.100	154.600
%RSD		0.936	1.903	8.232	1.226	0.000	0.533	0.455	0.604

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	120300.000	15910.000	0.000	24190.000	2333.000	2139.000	74.240%	1281.000
2	00:01:40	119600.000	15920.000	0.000	24150.000	2280.000	2103.000	74.932%	1295.000
3	00:02:23	119200.000	15770.000	0.000	24110.000	2336.000	2110.000	74.426%	1294.000
x		119700.000	15860.000	0.000	24150.000	2316.000	2117.000	74.532%	1290.000
σ		554.900	81.650	0.000	40.260	31.800	18.950	0.358%	7.784
%RSD		0.464	0.515	0.000	0.167	1.373	0.895	0.480	0.603

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	184.300	152.200	2187.000	248500.000	252800.000	76.260	200.300	203.400
2	00:01:40	185.600	153.700	2195.000	247800.000	252500.000	76.220	197.000	203.300
3	00:02:23	186.000	154.100	2201.000	248200.000	252600.000	77.790	199.100	203.600
x		185.300	153.300	2194.000	248200.000	252600.000	76.760	198.800	203.400
σ		0.886	0.976	7.356	337.600	160.600	0.894	1.668	0.140
%RSD		0.478	0.637	0.335	0.136	0.064	1.164	0.839	0.069

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	202.400	515.700	521.800	957.200	1.883	4.198	0.000	1102.000
2	00:01:40	204.400	522.300	524.200	960.400	1.846	4.129	0.000	1111.000
3	00:02:23	207.800	520.400	531.200	969.900	1.747	4.358	0.000	1118.000
x		204.800	519.500	525.700	962.500	1.825	4.229	0.000	1110.000
σ		2.716	3.431	4.904	6.606	0.070	0.118	0.000	7.706
%RSD		1.326	0.660	0.933	0.686	3.841	2.784	0.000	0.694

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	0.000	255.700	255.400	70.773%	0.202	0.129	1.032	0.783
2	00:01:40	0.000	255.200	257.100	72.424%	0.231	0.163	1.193	0.910
3	00:02:23	0.000	261.600	258.500	72.766%	0.159	0.148	1.603	1.150
x		0.000	257.500	257.000	71.988%	0.197	0.147	1.276	0.948
σ		0.000	3.552	1.588	1.066%	0.036	0.017	0.294	0.186
%RSD		0.000	1.380	0.618	1.481	18.220	11.610	23.080	19.650

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	73.213%	2.105	0.379	0.413	660.500	646.300	84.081%	84.359%
2	00:01:40	75.578%	1.870	0.391	0.371	650.600	643.100	87.805%	86.894%
3	00:02:23	75.369%	2.011	0.407	0.423	663.500	649.100	88.207%	87.432%
x		74.720%	1.996	0.392	0.402	658.200	646.200	86.698%	86.228%
σ		1.309%	0.118	0.014	0.028	6.716	3.006	2.275%	1.641%
%RSD		1.752	5.937	3.573	6.909	1.020	0.465	2.624	1.903

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:57	1.172	1.207	127.100	126.400	127.300	71.446%
2	00:01:40	1.259	1.227	129.500	127.600	128.700	73.308%
3	00:02:23	1.221	1.240	129.300	128.000	128.700	74.010%
x		1.217	1.225	128.600	127.300	128.300	72.921%
σ		0.044	0.016	1.338	0.824	0.812	1.325%
%RSD		3.602	1.336	1.041	0.647	0.633	1.817

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	64.784%	5.538	30.490	30.080	0.000	713.200	26770.000	26830.000
2	00:09:55	65.293%	5.665	33.300	31.790	0.000	736.600	27540.000	27620.000
3	00:10:38	66.256%	5.437	30.670	31.090	0.000	708.500	26490.000	26470.000
x		65.445%	5.547	31.490	30.990	0.000	719.400	26930.000	26980.000
σ		0.748%	0.114	1.571	0.860	0.000	15.080	543.400	590.100
%RSD		1.142	2.055	4.989	2.775	0.000	2.097	2.017	2.188

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	121000.000	13510.000	0.000	11160.000	8088.000	7891.000	72.997%	1084.000
2	00:09:55	123800.000	13810.000	0.000	11490.000	8334.000	8105.000	72.676%	1107.000
3	00:10:38	117600.000	13080.000	0.000	10930.000	8363.000	7737.000	73.979%	1081.000
x		120800.000	13470.000	0.000	11190.000	8262.000	7911.000	73.217%	1091.000
σ		3106.000	369.100	0.000	282.000	151.400	184.700	0.679%	14.030
%RSD		2.571	2.741	0.000	2.519	1.833	2.335	0.927	1.287

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	185.700	153.300	2736.000	219600.000	224500.000	73.440	187.700	139.900
2	00:09:55	189.300	157.400	2792.000	225100.000	228800.000	74.110	194.000	143.000
3	00:10:38	180.600	152.000	2683.000	215700.000	220600.000	71.870	185.200	138.900
x		185.200	154.200	2737.000	220100.000	224600.000	73.140	189.000	140.600
σ		4.382	2.791	54.570	4689.000	4074.000	1.150	4.571	2.122
%RSD		2.366	1.809	1.994	2.130	1.814	1.573	2.419	1.509

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	141.500	446.600	448.900	108.200	2.055	2.451	0.000	90.980
2	00:09:55	144.300	456.600	460.800	108.900	1.893	3.409	0.000	92.430
3	00:10:38	139.300	446.600	455.000	108.700	1.165	4.765	0.000	90.810
x		141.700	449.900	454.900	108.600	1.704	3.541	0.000	91.410
σ		2.497	5.771	5.920	0.362	0.474	1.163	0.000	0.889
%RSD		1.762	1.283	1.301	0.334	27.810	32.840	0.000	0.973

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	0.000	9.217	9.141	69.923%	0.212	0.173	1.221	0.892
2	00:09:55	0.000	9.308	9.209	71.507%	0.265	0.136	1.192	0.953
3	00:10:38	0.000	8.918	8.956	73.047%	0.230	0.145	0.997	0.805
x		0.000	9.148	9.102	71.492%	0.236	0.151	1.137	0.883
σ		0.000	0.204	0.131	1.562%	0.027	0.019	0.122	0.074
%RSD		0.000	2.229	1.436	2.185	11.480	12.710	10.700	8.383

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	72.544%	2.202	0.251	0.188	603.500	599.200	80.464%	79.651%
2	00:09:55	73.348%	2.420	0.285	0.292	627.500	617.400	82.046%	82.145%
3	00:10:38	75.369%	2.058	0.223	0.179	606.300	599.100	83.714%	83.435%
x		73.753%	2.226	0.253	0.220	612.500	605.300	82.075%	81.744%
σ		1.456%	0.182	0.031	0.063	13.120	10.550	1.625%	1.923%
%RSD		1.974	8.191	12.290	28.520	2.142	1.743	1.980	2.353

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:12	1.529	1.518	105.800	103.600	105.100	70.682%
2	00:09:55	1.569	1.501	108.300	106.200	107.900	72.623%
3	00:10:38	1.507	1.494	105.200	104.100	105.000	73.513%
x		1.535	1.504	106.500	104.700	106.000	72.273%
σ		0.032	0.013	1.650	1.376	1.627	1.448%
%RSD		2.076	0.853	1.550	1.315	1.534	2.003

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	90.270%	-0.030	0.042	0.117	0.000	37.850	6.535	7.897
2	00:18:10	90.901%	-0.030	0.509	0.127	0.000	37.650	8.250	7.691
3	00:18:53	93.733%	-0.046	0.012	-0.071	0.000	37.870	7.949	7.327
x		91.635%	-0.035	0.188	0.058	0.000	37.790	7.578	7.638
σ		1.845%	0.009	0.278	0.112	0.000	0.120	0.916	0.288
%RSD		2.013	24.720	148.200	194.200	0.000	0.317	12.090	3.773

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	21.090	-273.000	0.000	-75.860	11.810	-34.730	85.085%	0.657
2	00:18:10	23.880	-270.400	0.000	-77.520	17.870	-38.520	85.211%	0.321
3	00:18:53	22.700	-273.600	0.000	-79.620	20.630	-38.780	85.947%	0.408
x		22.560	-272.400	0.000	-77.670	16.770	-37.340	85.414%	0.462
σ		1.398	1.694	0.000	1.884	4.515	2.264	0.465%	0.174
%RSD		6.198	0.622	0.000	2.425	26.920	6.063	0.545	37.680

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	0.097	0.129	0.760	55.270	41.490	-0.006	0.068	0.723
2	00:18:10	-0.042	0.115	0.812	57.630	44.350	-0.006	0.018	0.790
3	00:18:53	0.013	0.145	0.874	56.070	43.800	-0.004	0.063	0.715
x		0.023	0.130	0.815	56.320	43.220	-0.005	0.050	0.743
σ		0.070	0.015	0.057	1.198	1.517	0.001	0.027	0.041
%RSD		304.800	11.570	6.971	2.127	3.510	17.500	55.290	5.583

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	0.825	-0.061	-0.026	0.078	-1.493	-0.858	0.000	0.089
2	00:18:10	0.918	-0.360	-0.191	0.006	-1.131	-1.258	0.000	0.092
3	00:18:53	0.818	-0.254	-0.111	-0.137	-1.431	-1.863	0.000	0.090
x		0.854	-0.225	-0.109	-0.018	-1.352	-1.326	0.000	0.090
σ		0.056	0.152	0.082	0.109	0.194	0.506	0.000	0.001
%RSD		6.505	67.250	75.240	617.700	14.320	38.170	0.000	1.313

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	81.780%	0.095	0.133	83.426%	0.002	-0.003	-0.036	-0.036
2	00:18:10	83.805%	0.182	0.118	84.635%	-0.018	-0.008	-0.011	-0.022
3	00:18:53	84.794%	0.022	0.112	86.159%	-0.007	-0.015	0.022	0.008
x		83.460%	0.100	0.121	84.740%	-0.008	-0.009	-0.009	-0.017
σ		1.536%	0.080	0.011	1.370%	0.010	0.006	0.029	0.022
%RSD		1.841	80.340	9.138	1.616	127.500	64.710	336.300	134.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	82.701%	0.407	-0.033	-0.030	0.153	0.176	84.284%	84.022%
2	00:18:10	84.430%	0.452	-0.036	-0.042	0.150	0.260	85.251%	86.015%
3	00:18:53	85.672%	0.444	-0.032	-0.031	0.181	0.143	87.112%	87.235%
x		84.267%	0.434	-0.034	-0.034	0.161	0.193	85.549%	85.757%
σ		1.492%	0.024	0.002	0.006	0.017	0.060	1.438%	1.622%
%RSD		1.770	5.536	6.254	18.690	10.810	31.150	1.681	1.892

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:27	-0.015	-0.012	0.049	0.043	0.053	81.158%
2	00:18:10	-0.012	-0.014	0.064	0.027	0.049	81.812%
3	00:18:53	-0.013	-0.016	0.038	0.054	0.054	82.492%
x		-0.013	-0.014	0.050	0.042	0.052	81.821%
σ		0.001	0.002	0.013	0.014	0.003	0.667%
%RSD		9.916	14.390	25.440	32.720	5.890	0.815

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	74.951%	104.000	97.300	98.870	0.000	51480.000	52130.000	52390.000
2	00:26:24	75.484%	103.100	101.400	102.200	0.000	51720.000	52340.000	52360.000
3	00:27:07	75.056%	104.800	105.100	100.800	0.000	51850.000	52360.000	52900.000
x		75.163%	103.984%	101.273%	100.625%	0.000	103.369%	104.551%	105.099%
σ		0.282%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.375	0.796	3.855	1.649	0.000	0.367	0.237	0.573

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	522.800	4947.000	0.000	53080.000	51820.000	49860.000	73.980%	102.200
2	00:26:24	530.600	4996.000	0.000	53530.000	52160.000	50810.000	74.562%	104.600
3	00:27:07	531.100	5002.000	0.000	53350.000	51410.000	50640.000	74.212%	101.800
x		105.631%	99.628%	0.000	106.634%	103.592%	100.871%	74.251%	102.872%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.293%	n/a
%RSD		0.876	0.609	0.000	0.424	0.718	1.007	0.394	1.449

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	102.600	103.100	516.800	26640.000	25830.000	106.200	102.900	104.800
2	00:26:24	104.100	104.800	523.400	26680.000	26190.000	106.400	107.100	106.000
3	00:27:07	104.100	106.100	528.600	26880.000	26490.000	106.700	106.600	107.400
x		103.603%	104.671%	104.586%	106.927%	104.679%	106.409%	105.548%	106.082%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.817	1.469	1.134	0.482	1.251	0.242	2.190	1.225

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	104.700	100.900	104.800	100.300	102.000	101.100	0.000	105.100
2	00:26:24	107.000	102.900	105.900	105.400	103.400	109.600	0.000	107.000
3	00:27:07	108.500	105.100	104.400	105.800	103.400	105.500	0.000	107.700
x		106.743%	102.928%	105.056%	103.844%	102.917%	105.408%	0.000	106.610%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.769	2.040	0.741	2.943	0.803	4.055	0.000	1.239

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	72.936%	102.600	102.100	72.591%	105.000	104.800	104.600	102.900
2	00:26:24	73.825%	109.000	106.700	72.963%	107.300	106.600	107.200	105.900
3	00:27:07	74.040%	109.200	108.000	73.629%	106.500	106.100	104.500	103.200
x		73.600%	106.927%	105.611%	73.061%	106.265%	105.845%	105.451%	104.005%
σ		0.585%	n/a	n/a	0.526%	n/a	n/a	n/a	n/a
%RSD		0.795	3.516	2.965	0.719	1.137	0.863	1.466	1.555

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	74.430%	101.400	102.100	100.900	103.800	103.600	76.475%	76.587%
2	00:26:24	74.635%	103.300	104.200	104.100	105.700	107.200	77.257%	78.081%
3	00:27:07	76.336%	103.000	102.700	103.000	107.300	104.700	79.181%	78.367%
x		75.134%	102.595%	103.007%	102.657%	105.622%	105.201%	77.638%	77.678%
σ		1.046%	n/a	n/a	n/a	n/a	n/a	1.393%	0.956%
%RSD		1.392	0.995	1.068	1.572	1.638	1.738	1.794	1.231

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:25:41	105.500	106.300	105.800	107.200	106.400	71.031%
2	00:26:24	107.900	107.700	108.400	108.500	108.700	72.099%
3	00:27:07	107.800	108.200	107.400	107.500	107.800	72.633%
x		107.076%	107.379%	107.202%	107.757%	107.624%	71.921%
σ		n/a	n/a	n/a	n/a	n/a	0.815%
%RSD		1.276	0.912	1.244	0.658	1.078	1.134

CCB7 4/13/2013 12:33:12 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	89.816%	-0.015	0.525	0.666	0.000	39.440	0.958	1.209
2	00:34:38	88.666%	-0.030	0.297	0.429	0.000	53.540	4.609	5.166
3	00:35:21	89.605%	-0.015	0.365	0.482	0.000	51.890	7.209	9.471
x		89.362%	-0.020	0.396	0.526	0.000	48.290	4.258	5.282
σ		0.612%	0.009	0.117	0.124	0.000	7.707	3.140	4.132
%RSD		0.685	43.760	29.600	23.610	0.000	15.960	73.740	78.230

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	-0.223	-210.500	0.000	-57.920	5.897	-41.050	83.921%	0.111
2	00:34:38	-0.049	-208.200	0.000	-56.040	2.622	-41.960	85.247%	0.048
3	00:35:21	0.202	-207.300	0.000	-53.790	23.530	-37.070	86.493%	0.017
x		-0.023	-208.700	0.000	-55.920	10.680	-40.020	85.220%	0.059
σ		0.214	1.675	0.000	2.068	11.240	2.599	1.286%	0.048
%RSD		911.200	0.803	0.000	3.698	105.300	6.495	1.509	81.890

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	-0.057	0.059	0.019	-0.320	-3.544	-0.008	-0.038	-0.103
2	00:34:38	-0.037	0.089	0.083	1.465	2.896	-0.012	0.026	-0.079
3	00:35:21	0.019	0.078	0.208	3.000	4.446	0.001	-0.015	-0.078
x		-0.025	0.076	0.103	1.382	1.266	-0.006	-0.009	-0.087
σ		0.039	0.015	0.096	1.662	4.237	0.007	0.032	0.014
%RSD		155.800	20.280	93.050	120.300	334.700	107.200	365.200	16.660

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	-0.093	-1.118	-1.107	0.075	-0.933	0.028	0.000	-0.011
2	00:34:38	-0.102	-1.087	-1.125	-0.155	-0.924	-1.017	0.000	0.019
3	00:35:21	-0.033	-1.035	-0.970	-0.012	-0.812	-0.304	0.000	0.023
x		-0.076	-1.080	-1.067	-0.031	-0.889	-0.431	0.000	0.010
σ		0.037	0.042	0.085	0.116	0.068	0.534	0.000	0.019
%RSD		49.320	3.876	7.940	374.400	7.602	123.900	0.000	181.900

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	84.524%	0.143	0.201	90.574%	0.002	-0.007	-0.022	-0.007
2	00:34:38	86.042%	0.128	0.214	91.976%	-0.016	-0.005	-0.076	-0.043
3	00:35:21	87.146%	0.291	0.198	92.528%	0.011	0.016	0.049	0.045
x		85.904%	0.187	0.204	91.692%	-0.001	0.001	-0.016	-0.002
σ		1.316%	0.090	0.009	1.007%	0.014	0.012	0.063	0.045
%RSD		1.533	48.220	4.192	1.099	1421.000	942.400	383.700	2557.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	89.201%	0.005	-0.026	-0.034	-0.004	-0.008	89.205%	89.295%
2	00:34:38	90.351%	0.022	-0.016	-0.019	0.017	0.010	91.761%	91.350%
3	00:35:21	89.906%	0.011	-0.026	-0.011	0.007	0.048	90.237%	91.588%
x		89.819%	0.013	-0.023	-0.022	0.006	0.017	90.401%	90.744%
σ		0.580%	0.009	0.006	0.012	0.011	0.029	1.286%	1.261%
%RSD		0.645	66.980	25.690	55.100	166.000	171.400	1.422	1.390

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:33:55	0.041	0.022	0.006	-0.004	-0.000	84.613%
2	00:34:38	0.003	0.021	-0.009	-0.006	-0.001	86.327%
3	00:35:21	0.013	0.022	0.006	-0.012	0.001	87.744%
x		0.019	0.022	0.001	-0.007	-0.000	86.228%
σ		0.020	0.000	0.009	0.004	0.001	1.568%
%RSD		105.300	2.126	887.600	57.690	1142.000	1.818

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	69.890%	48.850	949.200	922.200	0.000	49330.000	49690.000	50180.000
2	00:42:54	71.209%	44.340	926.900	902.400	0.000	47270.000	47950.000	48290.000
3	00:43:37	69.173%	48.360	967.200	961.100	0.000	49380.000	49780.000	50010.000
x		70.091%	47.180	947.800	928.600	0.000	48660.000	49140.000	49490.000
σ		1.033%	2.476	20.190	29.840	0.000	1203.000	1032.000	1048.000
%RSD		1.473	5.248	2.130	3.213	0.000	2.473	2.100	2.118

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	2004.000	8091.000	0.000	50170.000	48740.000	47580.000	70.890%	972.000
2	00:42:54	1938.000	7774.000	0.000	47870.000	47280.000	46040.000	72.642%	928.500
3	00:43:37	2015.000	8051.000	0.000	49960.000	49610.000	47810.000	71.418%	956.500
x		1985.000	7972.000	0.000	49330.000	48550.000	47140.000	71.650%	952.300
σ		41.270	173.000	0.000	1274.000	1178.000	961.700	0.899%	22.030
%RSD		2.079	2.170	0.000	2.582	2.428	2.040	1.254	2.313

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	493.900	196.200	488.000	992.700	1142.000	493.000	492.000	246.000
2	00:42:54	474.400	187.000	465.800	951.800	1086.000	468.100	465.300	238.000
3	00:43:37	491.500	192.900	488.800	988.000	1120.000	489.900	491.400	246.900
x		486.600	192.100	480.800	977.500	1116.000	483.600	482.900	243.600
σ		10.620	4.665	13.070	22.380	28.180	13.580	15.240	4.877
%RSD		2.183	2.429	2.719	2.290	2.525	2.807	3.155	2.002

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	250.200	472.300	467.000	37.140	8.819	11.090	0.000	953.600
2	00:42:54	239.800	453.500	446.000	36.230	9.078	8.399	0.000	920.900
3	00:43:37	247.300	472.100	472.200	37.890	9.111	10.810	0.000	966.100
x		245.800	466.000	461.700	37.090	9.003	10.100	0.000	946.900
σ		5.369	10.840	13.890	0.833	0.160	1.479	0.000	23.320
%RSD		2.184	2.325	3.009	2.247	1.779	14.650	0.000	2.463

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	70.960%	1000.000	995.600	70.179%	46.600	46.020	49.490	43.960
2	00:42:54	74.099%	960.200	961.900	72.958%	44.260	44.330	47.830	41.790
3	00:43:37	72.085%	999.800	989.600	72.118%	46.210	45.750	48.790	43.530
x		72.382%	986.800	982.400	71.752%	45.690	45.370	48.700	43.090
σ		1.590%	23.050	17.950	1.425%	1.255	0.905	0.835	1.146
%RSD		2.197	2.336	1.827	1.987	2.748	1.996	1.714	2.659

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	71.194%	1922.000	466.800	467.100	1947.000	1941.000	73.378%	74.555%
2	00:42:54	74.409%	1853.000	453.500	449.400	1863.000	1838.000	77.884%	77.849%
3	00:43:37	73.490%	1924.000	469.200	464.500	1927.000	1918.000	77.870%	77.275%
x		73.031%	1900.000	463.200	460.300	1912.000	1899.000	76.378%	76.560%
σ		1.656%	40.370	8.424	9.542	44.110	54.020	2.598%	1.759%
%RSD		2.268	2.125	1.819	2.073	2.307	2.845	3.401	2.298

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:42:11	48.840	49.480	18.770	20.810	19.910	69.277%
2	00:42:54	46.410	47.220	18.490	19.940	19.180	73.190%
3	00:43:37	48.490	48.990	18.990	21.000	20.000	71.867%
x		47.910	48.560	18.750	20.580	19.700	71.445%
σ		1.315	1.191	0.252	0.568	0.451	1.990%
%RSD		2.744	2.452	1.343	2.759	2.291	2.786

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	63.007%	7.314	82.860	83.910	0.000	12300.000	31860.000	32810.000
2	00:51:08	64.437%	6.984	80.800	82.680	0.000	12290.000	32050.000	33740.000
3	00:51:51	64.332%	7.306	78.690	82.250	0.000	12310.000	31850.000	33400.000
x		63.925%	7.202	80.790	82.940	0.000	12300.000	31920.000	33320.000
σ		0.797%	0.188	2.086	0.861	0.000	12.320	112.600	471.800
%RSD		1.246	2.614	2.583	1.038	0.000	0.100	0.353	1.416

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	124800.000	4682.000	0.000	18580.000	4957.000	4410.000	73.106%	994.800
2	00:51:08	123900.000	4684.000	0.000	18570.000	5105.000	4464.000	74.585%	1007.000
3	00:51:51	123800.000	4633.000	0.000	18390.000	5093.000	4476.000	75.223%	1000.000
x		124200.000	4666.000	0.000	18520.000	5052.000	4450.000	74.304%	1001.000
σ		539.000	29.030	0.000	105.600	81.990	35.290	1.086%	6.233
%RSD		0.434	0.622	0.000	0.570	1.623	0.793	1.461	0.623

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	179.600	165.400	17540.000	265200.000	269100.000	121.300	289.500	225.300
2	00:51:08	181.700	168.100	17630.000	263800.000	270100.000	123.200	294.500	229.200
3	00:51:51	177.700	166.400	17370.000	262400.000	266200.000	121.900	289.400	227.900
x		179.700	166.600	17510.000	263800.000	268500.000	122.200	291.100	227.400
σ		1.989	1.369	130.600	1399.000	1999.000	0.988	2.945	1.953
%RSD		1.107	0.822	0.746	0.530	0.745	0.809	1.012	0.859

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	227.600	626.900	637.200	239.900	1.043	3.452	0.000	1972.000
2	00:51:08	233.700	632.300	639.600	240.400	1.254	4.135	0.000	1885.000
3	00:51:51	225.800	635.800	641.900	238.400	1.940	4.434	0.000	1949.000
x		229.000	631.700	639.600	239.600	1.412	4.007	0.000	1935.000
σ		4.143	4.508	2.312	1.028	0.469	0.503	0.000	44.840
%RSD		1.809	0.714	0.361	0.429	33.230	12.550	0.000	2.317

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	0.000	277.400	278.300	69.807%	0.236	0.189	1.457	1.045
2	00:51:08	0.000	278.300	280.900	72.798%	0.294	0.191	1.772	1.306
3	00:51:51	0.000	282.200	280.000	72.739%	0.286	0.215	1.745	1.339
x		0.000	279.300	279.700	71.781%	0.272	0.199	1.658	1.230
σ		0.000	2.552	1.349	1.710%	0.031	0.014	0.174	0.161
%RSD		0.000	0.914	0.482	2.382	11.540	7.260	10.520	13.080

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	72.105%	2.541	0.344	0.347	977.300	965.400	83.517%	82.411%
2	00:51:08	74.991%	2.244	0.354	0.350	971.900	977.000	86.858%	86.834%
3	00:51:51	75.943%	2.070	0.377	0.299	981.300	968.000	89.273%	88.961%
x		74.346%	2.285	0.358	0.332	976.800	970.100	86.549%	86.069%
σ		1.999%	0.238	0.017	0.029	4.743	6.118	2.890%	3.341%
%RSD		2.688	10.420	4.649	8.635	0.486	0.631	3.340	3.882

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:25	1.419	1.407	577.300	591.600	593.200	71.168%
2	00:51:08	1.369	1.381	583.900	597.800	598.500	73.749%
3	00:51:51	1.378	1.389	573.200	583.800	586.600	75.597%
x		1.388	1.392	578.100	591.100	592.800	73.505%
σ		0.027	0.013	5.408	7.030	5.979	2.225%
%RSD		1.926	0.969	0.935	1.189	1.009	3.027

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	68.468%	1.426	15.480	17.290	0.000	2408.000	6608.000	6631.000
2	00:59:21	69.785%	1.575	16.510	17.930	0.000	2402.000	6641.000	6678.000
3	01:00:04	70.568%	1.382	17.590	17.370	0.000	2355.000	6332.000	6341.000
x		69.607%	1.461	16.530	17.530	0.000	2389.000	6527.000	6550.000
σ		1.061%	0.101	1.058	0.352	0.000	29.120	169.600	182.100
%RSD		1.525	6.926	6.399	2.006	0.000	1.219	2.598	2.781

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	25590.000	819.000	0.000	3678.000	1135.000	905.800	72.014%	201.100
2	00:59:21	25410.000	821.200	0.000	3632.000	1049.000	900.400	72.645%	215.800
3	01:00:04	24300.000	774.300	0.000	3495.000	1032.000	850.800	74.382%	197.800
x		25100.000	804.800	0.000	3602.000	1072.000	885.700	73.014%	204.900
σ		698.400	26.490	0.000	94.880	55.300	30.310	1.226%	9.548
%RSD		2.782	3.291	0.000	2.634	5.160	3.422	1.679	4.660

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	37.070	34.340	3569.000	53960.000	51880.000	24.360	57.830	44.460
2	00:59:21	36.980	34.820	3618.000	54360.000	52670.000	24.800	58.820	44.970
3	01:00:04	34.720	33.050	3423.000	51850.000	50220.000	23.650	55.700	42.630
x		36.250	34.070	3537.000	53390.000	51590.000	24.270	57.450	44.020
σ		1.333	0.917	101.300	1349.000	1248.000	0.581	1.595	1.234
%RSD		3.677	2.693	2.863	2.526	2.420	2.393	2.775	2.803

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	44.030	120.100	119.100	44.560	-0.845	-0.358	0.000	312.000
2	00:59:21	45.320	122.100	121.200	44.910	-0.769	-0.503	0.000	319.600
3	01:00:04	42.880	116.400	117.100	42.790	-0.728	-1.603	0.000	308.800
x		44.080	119.500	119.100	44.090	-0.780	-0.821	0.000	313.400
σ		1.223	2.894	2.072	1.135	0.059	0.681	0.000	5.565
%RSD		2.774	2.421	1.739	2.575	7.614	82.870	0.000	1.776

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	88.278%	47.740	51.060	73.135%	0.045	0.029	0.332	0.275
2	00:59:21	89.106%	51.030	51.680	74.007%	0.034	0.036	0.324	0.272
3	01:00:04	90.750%	48.490	50.040	76.563%	0.048	0.055	0.316	0.166
x		89.378%	49.080	50.930	74.568%	0.042	0.040	0.324	0.238
σ		1.258%	1.724	0.824	1.782%	0.007	0.014	0.008	0.062
%RSD		1.408	3.512	1.618	2.389	17.490	34.060	2.530	26.070

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	74.001%	0.457	0.088	0.041	207.500	207.200	77.470%	78.462%
2	00:59:21	75.606%	0.463	0.060	0.051	209.300	209.200	79.957%	80.098%
3	01:00:04	79.018%	0.439	0.079	0.041	198.000	195.500	82.957%	82.982%
x		76.209%	0.453	0.076	0.044	204.900	204.000	80.128%	80.514%
σ		2.562%	0.012	0.014	0.006	6.098	7.415	2.748%	2.289%
%RSD		3.362	2.743	18.520	13.210	2.975	3.636	3.429	2.842

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:58:38	0.310	0.261	115.500	118.700	118.400	73.498%
2	00:59:21	0.295	0.285	119.800	122.900	122.500	73.873%
3	01:00:04	0.258	0.239	113.800	115.400	116.000	76.619%
x		0.287	0.262	116.400	119.000	119.000	74.663%
σ		0.027	0.023	3.069	3.734	3.289	1.704%
%RSD		9.414	8.770	2.638	3.138	2.765	2.282

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:52	63.203%	7.636	78.530	78.030	0.000	12430.000	32580.000	34020.000
2	01:07:35	63.389%	7.970	78.210	78.000	0.000	12460.000	32720.000	33710.000
3	01:08:17	65.715%	7.198	80.930	74.830	0.000	11790.000	29810.000	31380.000
x		64.102%	7.601	79.230	76.950	0.000	12230.000	31700.000	33030.000
σ		1.400%	0.387	1.485	1.838	0.000	378.100	1642.000	1443.000
%RSD		2.184	5.091	1.875	2.388	0.000	3.093	5.179	4.368
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:52	125700.000	4882.000	0.000	18740.000	12180.000	11230.000	73.013%	1028.000
2	01:07:35	125500.000	4863.000	0.000	18710.000	11760.000	11300.000	74.149%	1023.000
3	01:08:17	119400.000	4582.000	0.000	17750.000	11430.000	10760.000	75.978%	972.300
x		123500.000	4776.000	0.000	18400.000	11790.000	11100.000	74.380%	1008.000
σ		3555.000	168.000	0.000	563.300	375.700	292.100	1.496%	30.780
%RSD		2.877	3.517	0.000	3.062	3.186	2.633	2.011	3.055
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:52	180.700	167.000	16900.000	271800.000	275700.000	121.200	287.800	227.600
2	01:07:35	177.500	167.900	16670.000	268200.000	273100.000	120.600	287.600	226.300
3	01:08:17	173.800	161.200	16110.000	258000.000	262300.000	114.800	278.200	218.700
x		177.300	165.400	16560.000	266000.000	270400.000	118.900	284.500	224.200
σ		3.470	3.614	410.500	7169.000	7092.000	3.541	5.478	4.796
%RSD		1.957	2.185	2.479	2.695	2.623	2.979	1.925	2.139
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:52	228.000	621.800	620.500	240.000	1.056	3.729	0.000	1653.000
2	01:07:35	231.600	625.700	631.100	239.400	1.653	4.647	0.000	1671.000
3	01:08:17	220.300	599.700	604.400	232.400	1.008	4.339	0.000	1623.000
x		226.600	615.800	618.700	237.300	1.239	4.238	0.000	1649.000
σ		5.795	14.020	13.450	4.197	0.359	0.468	0.000	24.300
%RSD		2.557	2.276	2.173	1.769	29.010	11.030	0.000	1.473
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:52	0.000	302.500	303.000	69.905%	0.226	0.200	1.388	1.160
2	01:07:35	0.000	303.100	304.500	71.944%	0.281	0.176	1.623	1.276
3	01:08:17	0.000	295.600	294.200	73.625%	0.308	0.155	1.291	0.994
x		0.000	300.400	300.600	71.825%	0.272	0.177	1.434	1.143
σ		0.000	4.188	5.521	1.863%	0.042	0.023	0.171	0.141
%RSD		0.000	1.394	1.837	2.594	15.370	12.880	11.890	12.370
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:06:52	71.686%	1.289	0.237	0.221	957.200	941.700	83.083%	83.229%
2	01:07:35	73.671%	1.228	0.210	0.210	946.900	935.400	86.395%	86.636%
3	01:08:17	77.147%	1.026	0.244	0.253	911.900	897.200	88.846%	87.937%
x		74.168%	1.181	0.230	0.228	938.700	924.800	86.108%	85.934%
σ		2.764%	0.138	0.018	0.022	23.740	24.040	2.892%	2.431%
%RSD		3.727	11.660	7.852	9.665	2.529	2.600	3.359	2.829
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:06:52	1.328	1.346	508.500	521.600	523.000	70.134%		
2	01:07:35	1.378	1.374	512.900	524.400	524.700	72.608%		
3	01:08:17	1.242	1.270	484.400	491.300	494.700	76.520%		
x		1.316	1.330	501.900	512.400	514.100	73.087%		
σ		0.068	0.054	15.380	18.350	16.860	3.220%		
%RSD		5.195	4.045	3.064	3.581	3.280	4.405		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	60.620%	59.500	1091.000	1072.000	0.000	62990.000	89170.000	89090.000
2	01:15:48	59.635%	60.970	1134.000	1128.000	0.000	64300.000	89860.000	90550.000
3	01:16:31	60.148%	61.400	1134.000	1125.000	0.000	63720.000	90140.000	89910.000
x		60.134%	60.620	1120.000	1108.000	0.000	63670.000	89720.000	89850.000
σ		0.493%	0.993	24.580	31.290	0.000	658.400	499.400	731.800
%RSD		0.819	1.638	2.195	2.824	0.000	1.034	0.557	0.814

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	191900.000	15850.000	0.000	78020.000	51010.000	49650.000	73.342%	1945.000
2	01:15:48	193100.000	15720.000	0.000	78210.000	53060.000	50130.000	73.717%	1978.000
3	01:16:31	192900.000	15860.000	0.000	77950.000	52470.000	49850.000	74.179%	1962.000
x		192700.000	15810.000	0.000	78060.000	52180.000	49880.000	73.746%	1962.000
σ		671.000	81.770	0.000	136.900	1057.000	237.000	0.419%	16.650
%RSD		0.348	0.517	0.000	0.175	2.026	0.475	0.568	0.849

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	746.600	403.600	18430.000	281500.000	286800.000	607.900	762.800	471.800
2	01:15:48	743.000	404.800	18510.000	280600.000	285500.000	606.700	766.900	472.500
3	01:16:31	742.900	403.400	18330.000	279700.000	284900.000	605.400	768.000	467.300
x		744.200	404.000	18430.000	280600.000	285700.000	606.700	765.900	470.500
σ		2.097	0.750	92.290	909.800	987.900	1.284	2.731	2.808
%RSD		0.282	0.186	0.501	0.324	0.346	0.212	0.356	0.597

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	478.000	1078.000	1098.000	269.600	9.494	12.710	0.000	2771.000
2	01:15:48	476.300	1090.000	1098.000	275.000	10.100	12.910	0.000	2744.000
3	01:16:31	472.900	1096.000	1103.000	273.800	9.401	12.890	0.000	2747.000
x		475.700	1088.000	1100.000	272.800	9.666	12.840	0.000	2754.000
σ		2.585	9.401	3.264	2.849	0.381	0.110	0.000	15.000
%RSD		0.543	0.864	0.297	1.044	3.944	0.860	0.000	0.545

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	0.000	1293.000	1294.000	66.492%	49.750	48.260	52.770	49.710
2	01:15:48	0.000	1303.000	1304.000	68.123%	49.480	49.230	52.440	50.040
3	01:16:31	0.000	1308.000	1303.000	68.957%	48.330	48.910	51.750	49.340
x		0.000	1301.000	1300.000	67.857%	49.190	48.800	52.320	49.700
σ		0.000	7.783	5.293	1.254%	0.751	0.494	0.522	0.348
%RSD		0.000	0.598	0.407	1.848	1.526	1.013	0.997	0.701

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	68.956%	593.400	137.500	135.400	2971.000	2933.000	81.304%	80.755%
2	01:15:48	70.657%	599.900	138.100	137.700	3003.000	2957.000	85.063%	83.467%
3	01:16:31	72.063%	596.100	136.600	136.400	2978.000	2928.000	84.923%	84.617%
x		70.558%	596.400	137.400	136.500	2984.000	2939.000	83.763%	82.946%
σ		1.556%	3.241	0.730	1.125	16.720	15.200	2.131%	1.983%
%RSD		2.205	0.543	0.531	0.824	0.560	0.517	2.544	2.391

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:15:05	50.680	51.470	599.800	613.700	613.200	67.959%
2	01:15:48	51.060	51.440	605.600	620.300	621.800	70.085%
3	01:16:31	51.050	51.380	601.500	618.600	620.000	70.635%
x		50.930	51.430	602.300	617.500	618.300	69.560%
σ		0.218	0.047	2.965	3.423	4.561	1.414%
%RSD		0.429	0.091	0.492	0.554	0.738	2.032

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	60.709%	64.410	1140.000	1131.000	0.000	68310.000	89720.000	89890.000
2	01:25:28	61.365%	60.730	1164.000	1153.000	0.000	68150.000	89180.000	89500.000
3	01:26:11	61.286%	59.130	1145.000	1129.000	0.000	66260.000	86420.000	86960.000
x		61.120%	61.430	1150.000	1138.000	0.000	67570.000	88440.000	88780.000
σ		0.358%	2.705	12.510	13.480	0.000	1138.000	1770.000	1589.000
%RSD		0.586	4.404	1.088	1.185	0.000	1.684	2.002	1.789

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	123800.000	16560.000	0.000	72520.000	58380.000	55590.000	71.632%	2028.000
2	01:25:28	123100.000	16320.000	0.000	71680.000	57590.000	55090.000	73.054%	2030.000
3	01:26:11	120300.000	15780.000	0.000	69550.000	56240.000	54210.000	73.469%	1968.000
x		122400.000	16220.000	0.000	71250.000	57410.000	54960.000	72.718%	2009.000
σ		1860.000	400.300	0.000	1533.000	1084.000	701.700	0.963%	35.620
%RSD		1.520	2.468	0.000	2.151	1.889	1.277	1.325	1.773

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	694.700	367.600	17490.000	258000.000	262700.000	642.200	805.700	480.400
2	01:25:28	689.800	365.700	17340.000	253500.000	257300.000	640.300	795.600	476.300
3	01:26:11	677.900	360.400	16920.000	248900.000	252400.000	624.800	777.200	469.900
x		687.500	364.600	17250.000	253500.000	257500.000	635.800	792.800	475.600
σ		8.667	3.759	294.200	4573.000	5145.000	9.547	14.420	5.289
%RSD		1.261	1.031	1.706	1.804	1.998	1.502	1.819	1.112

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	485.900	1118.000	1119.000	277.100	11.560	15.880	0.000	3101.000
2	01:25:28	482.600	1116.000	1126.000	273.300	12.770	12.320	0.000	3050.000
3	01:26:11	479.000	1091.000	1108.000	265.100	12.200	11.830	0.000	2947.000
x		482.500	1108.000	1118.000	271.800	12.180	13.340	0.000	3033.000
σ		3.466	15.060	9.300	6.140	0.607	2.211	0.000	78.800
%RSD		0.718	1.359	0.832	2.259	4.987	16.570	0.000	2.598

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	0.000	1429.000	1427.000	66.962%	55.590	54.360	54.400	48.270
2	01:25:28	0.000	1436.000	1437.000	69.262%	54.840	54.290	55.240	49.570
3	01:26:11	0.000	1406.000	1403.000	70.658%	52.670	53.240	55.700	48.230
x		0.000	1424.000	1422.000	68.960%	54.370	53.960	55.110	48.690
σ		0.000	15.510	17.590	1.866%	1.518	0.630	0.659	0.762
%RSD		0.000	1.089	1.237	2.706	2.792	1.168	1.197	1.564

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	69.331%	2192.000	517.000	520.500	3012.000	2984.000	80.979%	80.525%
2	01:25:28	71.567%	2200.000	527.100	529.300	3027.000	2995.000	83.122%	82.592%
3	01:26:11	73.243%	2148.000	518.100	517.900	2961.000	2905.000	84.923%	85.455%
x		71.380%	2180.000	520.700	522.500	3000.000	2962.000	83.008%	82.858%
σ		1.963%	27.660	5.525	5.956	34.590	48.940	1.974%	2.475%
%RSD		2.750	1.269	1.061	1.140	1.153	1.653	2.378	2.987

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:45	55.860	56.560	591.900	601.600	602.400	68.051%
2	01:25:28	55.120	56.260	587.300	599.500	601.500	70.766%
3	01:26:11	54.010	54.370	570.400	587.300	586.400	72.286%
x		55.000	55.730	583.200	596.100	596.700	70.368%
σ		0.931	1.187	11.340	7.738	8.999	2.145%
%RSD		1.692	2.130	1.944	1.298	1.508	3.049

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	58.948%	6.093	144.800	136.100	0.000	2187.000	12400.000	12520.000
2	01:33:43	61.316%	6.116	147.300	140.800	0.000	2189.000	12490.000	12550.000
3	01:34:26	62.455%	6.043	136.700	130.900	0.000	2099.000	11910.000	11900.000
x		60.906%	6.084	142.900	135.900	0.000	2158.000	12270.000	12320.000
σ		1.789%	0.038	5.541	4.955	0.000	51.120	310.900	364.000
%RSD		2.937	0.619	3.877	3.645	0.000	2.368	2.534	2.953

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	94560.000	4881.000	0.000	17540.000	9694.000	7642.000	69.778%	941.700
2	01:33:43	94360.000	4892.000	0.000	17780.000	10020.000	7885.000	69.454%	964.700
3	01:34:26	88030.000	4507.000	0.000	16600.000	9492.000	7347.000	71.538%	910.300
x		92320.000	4760.000	0.000	17310.000	9736.000	7625.000	70.257%	938.900
σ		3716.000	219.200	0.000	623.600	266.800	269.300	1.122%	27.310
%RSD		4.025	4.604	0.000	3.603	2.740	3.532	1.597	2.909

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	179.400	90.840	24420.000	177500.000	180900.000	185.600	92.260	57.580
2	01:33:43	184.700	93.820	24920.000	181000.000	184300.000	191.100	95.960	59.850
3	01:34:26	173.500	88.110	23310.000	169800.000	172900.000	180.100	87.290	55.290
x		179.200	90.930	24220.000	176100.000	179300.000	185.600	91.840	57.580
σ		5.583	2.853	823.900	5763.000	5860.000	5.494	4.352	2.280
%RSD		3.116	3.138	3.403	3.272	3.267	2.960	4.738	3.960

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	57.020	363.200	365.000	1443.000	2.442	3.678	0.000	8026.000
2	01:33:43	60.380	378.100	384.200	1495.000	3.090	4.719	0.000	8189.000
3	01:34:26	55.640	356.200	355.300	1411.000	2.634	4.633	0.000	7663.000
x		57.680	365.800	368.200	1450.000	2.722	4.343	0.000	7960.000
σ		2.435	11.170	14.690	41.990	0.333	0.578	0.000	269.300
%RSD		4.222	3.055	3.990	2.896	12.230	13.310	0.000	3.383

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	0.000	1719.000	1709.000	69.663%	0.374	0.383	2.071	2.053
2	01:33:43	0.000	1770.000	1762.000	69.884%	0.386	0.345	2.225	1.934
3	01:34:26	0.000	1672.000	1664.000	72.379%	0.360	0.320	2.211	1.849
x		0.000	1720.000	1712.000	70.642%	0.373	0.349	2.169	1.945
σ		0.000	48.530	48.860	1.508%	0.013	0.032	0.085	0.102
%RSD		0.000	2.821	2.854	2.135	3.544	9.153	3.939	5.264

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	70.947%	4.356	2.435	2.367	989.800	977.100	78.161%	76.811%
2	01:33:43	72.124%	4.009	2.175	1.984	1025.000	1012.000	78.968%	78.656%
3	01:34:26	74.696%	3.110	1.451	1.472	970.000	954.600	81.600%	81.627%
x		72.589%	3.825	2.021	1.941	994.800	981.200	79.576%	79.031%
σ		1.917%	0.643	0.510	0.449	27.670	28.770	1.798%	2.430%
%RSD		2.641	16.800	25.240	23.130	2.782	2.932	2.260	3.075

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:33:00	1.340	1.391	216.100	215.800	216.000	69.351%
2	01:33:43	1.394	1.418	223.600	225.100	225.600	69.511%
3	01:34:26	1.344	1.330	204.200	203.500	205.400	74.457%
x		1.359	1.379	214.600	214.800	215.700	71.107%
σ		0.030	0.045	9.786	10.800	10.090	2.903%
%RSD		2.235	3.261	4.559	5.026	4.678	4.082

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	63.154%	3.671	115.700	115.000	0.000	6585.000	19870.000	20070.000
2	01:41:57	63.382%	3.568	121.300	119.700	0.000	6551.000	19830.000	20120.000
3	01:42:40	64.337%	3.665	122.900	119.800	0.000	6548.000	19850.000	19890.000
x		63.624%	3.634	120.000	118.200	0.000	6561.000	19850.000	20030.000
σ		0.628%	0.058	3.794	2.737	0.000	20.610	19.960	121.100
%RSD		0.987	1.595	3.162	2.316	0.000	0.314	0.101	0.605

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	110400.000	4563.000	0.000	26350.000	2704.000	2390.000	69.696%	925.700
2	01:41:57	109600.000	4567.000	0.000	26240.000	2519.000	2382.000	71.122%	917.900
3	01:42:40	109100.000	4523.000	0.000	26110.000	2567.000	2405.000	71.194%	922.500
x		109700.000	4551.000	0.000	26230.000	2597.000	2392.000	70.670%	922.000
σ		650.700	24.140	0.000	121.500	96.060	11.750	0.845%	3.937
%RSD		0.593	0.530	0.000	0.463	3.699	0.491	1.196	0.427

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	183.400	127.700	4133.000	193800.000	197800.000	59.130	118.800	99.810
2	01:41:57	183.600	125.600	4091.000	191500.000	194600.000	59.790	116.700	98.870
3	01:42:40	182.200	126.400	4073.000	190000.000	194600.000	59.130	118.100	99.790
x		183.100	126.600	4099.000	191800.000	195700.000	59.350	117.900	99.490
σ		0.742	1.091	31.130	1937.000	1835.000	0.379	1.049	0.539
%RSD		0.405	0.862	0.760	1.010	0.938	0.638	0.890	0.541

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	102.000	295.400	297.600	70.890	1.390	3.280	0.000	134.600
2	01:41:57	100.400	294.800	297.000	69.170	2.046	3.718	0.000	133.800
3	01:42:40	101.800	292.300	296.700	69.030	1.650	1.104	0.000	134.900
x		101.400	294.200	297.100	69.690	1.695	2.701	0.000	134.400
σ		0.840	1.628	0.453	1.037	0.330	1.400	0.000	0.577
%RSD		0.829	0.554	0.153	1.488	19.480	51.840	0.000	0.429

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	0.000	2637.000	2623.000	68.508%	0.330	0.207	1.357	1.218
2	01:41:57	0.000	2607.000	2613.000	70.530%	0.250	0.220	1.817	1.404
3	01:42:40	0.000	2637.000	2614.000	70.894%	0.288	0.187	1.504	1.292
x		0.000	2627.000	2617.000	69.977%	0.290	0.205	1.559	1.305
σ		0.000	17.340	5.433	1.285%	0.040	0.017	0.235	0.094
%RSD		0.000	0.660	0.208	1.837	13.750	8.096	15.040	7.170

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	70.385%	2.161	0.604	0.543	513.100	509.500	75.343%	76.276%
2	01:41:57	73.425%	2.190	0.634	0.575	502.300	499.800	78.705%	78.591%
3	01:42:40	74.257%	2.117	0.500	0.553	513.000	496.100	79.310%	78.843%
x		72.689%	2.156	0.579	0.557	509.500	501.800	77.786%	77.903%
σ		2.038%	0.037	0.070	0.016	6.191	6.939	2.137%	1.415%
%RSD		2.804	1.700	12.080	2.957	1.215	1.383	2.748	1.816

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:14	1.082	1.064	110.900	109.500	110.200	68.932%
2	01:41:57	1.073	1.099	111.100	108.800	110.100	71.267%
3	01:42:40	1.073	1.066	111.300	109.100	110.600	71.860%
x		1.076	1.077	111.100	109.100	110.300	70.686%
σ		0.005	0.020	0.154	0.338	0.295	1.548%
%RSD		0.496	1.843	0.139	0.310	0.267	2.190

240-22274-B-25-C 4/13/2013 1:50:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	61.647%	8.292	43.800	42.260	0.000	736.900	38950.000	39420.000
2	01:51:38	64.925%	7.451	43.930	41.120	0.000	713.800	38290.000	38530.000
3	01:52:21	66.230%	7.362	37.000	40.030	0.000	688.700	36300.000	36860.000
x		64.267%	7.702	41.580	41.140	0.000	713.100	37850.000	38270.000
σ		2.361%	0.513	3.961	1.113	0.000	24.130	1382.000	1301.000
%RSD		3.674	6.666	9.527	2.706	0.000	3.383	3.651	3.400

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	136000.000	5216.000	0.000	12640.000	9568.000	9346.000	73.922%	1076.000
2	01:51:38	132800.000	5098.000	0.000	12460.000	9971.000	9422.000	75.362%	1081.000
3	01:52:21	126900.000	4842.000	0.000	11870.000	9607.000	8938.000	77.281%	1021.000
x		131900.000	5052.000	0.000	12320.000	9715.000	9235.000	75.522%	1060.000
σ		4641.000	191.000	0.000	406.900	222.300	260.700	1.685%	33.130
%RSD		3.518	3.780	0.000	3.302	2.288	2.823	2.232	3.127

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	192.900	170.300	11390.000	278000.000	284100.000	118.300	282.900	231.100
2	01:51:38	193.200	171.500	11300.000	275400.000	281100.000	119.200	286.200	232.100
3	01:52:21	185.400	164.400	10840.000	264100.000	269100.000	114.600	271.300	222.100
x		190.500	168.700	11180.000	272500.000	278100.000	117.400	280.100	228.400
σ		4.424	3.794	300.300	7439.000	7927.000	2.414	7.831	5.503
%RSD		2.322	2.249	2.686	2.730	2.850	2.056	2.795	2.409

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	232.100	605.500	607.100	203.900	1.474	3.978	0.000	1076.000
2	01:51:38	234.200	607.800	616.100	204.700	1.975	3.902	0.000	1086.000
3	01:52:21	222.100	581.100	586.100	196.100	1.462	3.871	0.000	1032.000
x		229.500	598.200	603.100	201.600	1.637	3.917	0.000	1065.000
σ		6.483	14.780	15.400	4.732	0.293	0.055	0.000	28.800
%RSD		2.825	2.471	2.553	2.348	17.910	1.410	0.000	2.705

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	0.000	27.200	27.740	69.880%	0.274	0.213	2.153	1.372
2	01:51:38	0.000	27.480	28.500	71.882%	0.290	0.165	1.678	1.191
3	01:52:21	0.000	25.940	26.110	73.816%	0.312	0.169	1.413	1.185
x		0.000	26.870	27.450	71.859%	0.292	0.182	1.748	1.249
σ		0.000	0.822	1.221	1.968%	0.019	0.026	0.375	0.106
%RSD		0.000	3.060	4.447	2.739	6.570	14.520	21.470	8.519

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	72.314%	1.494	0.416	0.361	873.200	856.200	83.790%	82.811%
2	01:51:38	74.708%	1.566	0.391	0.363	880.600	858.100	87.368%	87.035%
3	01:52:21	77.343%	1.335	0.398	0.415	829.900	818.700	89.103%	87.639%
x		74.789%	1.465	0.402	0.380	861.200	844.300	86.754%	85.828%
σ		2.516%	0.118	0.013	0.031	27.380	22.210	2.709%	2.630%
%RSD		3.364	8.055	3.205	8.035	3.179	2.631	3.123	3.065

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:55	1.896	1.882	371.700	380.100	380.700	70.062%
2	01:51:38	1.889	1.980	378.200	382.800	384.700	72.134%
3	01:52:21	1.810	1.761	353.300	361.200	361.600	75.670%
x		1.865	1.875	367.700	374.700	375.700	72.622%
σ		0.048	0.110	12.890	11.760	12.330	2.835%
%RSD		2.562	5.853	3.505	3.137	3.283	3.904

240-22274-B-26-C 4/13/2013 1:58:27 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	66.894%	2.069	16.060	18.670	0.000	320.600	9890.000	10060.000
2	01:59:53	67.946%	1.955	18.790	18.070	0.000	319.600	9854.000	9947.000
3	02:00:36	68.293%	2.484	16.640	17.650	0.000	320.000	9989.000	10030.000
x		67.711%	2.170	17.160	18.130	0.000	320.100	9911.000	10010.000
σ		0.729%	0.278	1.441	0.510	0.000	0.522	69.790	59.230
%RSD		1.076	12.830	8.397	2.814	0.000	0.163	0.704	0.592

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	34590.000	4589.000	0.000	5815.000	3705.000	3779.000	71.122%	304.400
2	01:59:53	34300.000	4553.000	0.000	5750.000	3743.000	3773.000	72.799%	296.700
3	02:00:36	34360.000	4588.000	0.000	5810.000	4006.000	3791.000	72.569%	309.200
x		34410.000	4577.000	0.000	5792.000	3818.000	3781.000	72.163%	303.400
σ		153.500	20.350	0.000	36.180	163.900	8.869	0.909%	6.273
%RSD		0.446	0.445	0.000	0.625	4.293	0.234	1.260	2.067

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	63.890	62.990	3574.000	139300.000	141600.000	60.810	149.000	75.440
2	01:59:53	62.820	62.370	3504.000	136400.000	138800.000	59.270	146.000	74.630
3	02:00:36	64.270	63.320	3545.000	138300.000	139800.000	60.920	144.800	76.700
x		63.660	62.900	3541.000	138000.000	140100.000	60.330	146.600	75.590
σ		0.754	0.483	35.240	1486.000	1384.000	0.922	2.127	1.045
%RSD		1.184	0.768	0.995	1.077	0.988	1.528	1.451	1.383

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	77.160	232.400	233.300	173.400	0.847	0.634	0.000	32.650
2	01:59:53	74.120	229.300	237.000	173.200	0.375	1.157	0.000	32.510
3	02:00:36	76.530	235.700	239.400	175.200	-0.518	1.409	0.000	32.840
x		75.940	232.500	236.600	173.900	0.235	1.067	0.000	32.670
σ		1.605	3.202	3.120	1.078	0.693	0.396	0.000	0.168
%RSD		2.113	1.377	1.319	0.620	295.000	37.080	0.000	0.513

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	0.000	4.779	4.683	71.590%	0.093	0.058	0.765	0.689
2	01:59:53	0.000	4.580	4.659	73.198%	0.103	0.051	0.440	0.361
3	02:00:36	0.000	4.598	4.671	73.795%	0.065	0.046	0.813	0.671
x		0.000	4.653	4.671	72.861%	0.087	0.052	0.672	0.574
σ		0.000	0.110	0.012	1.140%	0.019	0.006	0.203	0.184
%RSD		0.000	2.364	0.259	1.565	22.250	12.190	30.170	32.110

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	72.952%	2.062	0.469	0.505	200.300	198.300	78.779%	78.496%
2	01:59:53	75.235%	2.093	0.468	0.457	195.600	198.200	82.101%	81.288%
3	02:00:36	75.762%	1.956	0.486	0.512	201.000	199.100	82.142%	81.690%
x		74.649%	2.037	0.474	0.491	199.000	198.500	81.007%	80.491%
σ		1.494%	0.072	0.010	0.030	2.970	0.463	1.930%	1.740%
%RSD		2.001	3.515	2.181	6.124	1.493	0.233	2.382	2.161

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:10	0.870	0.868	69.280	69.350	69.540	70.573%
2	01:59:53	0.892	0.893	69.070	68.960	68.890	73.290%
3	02:00:36	0.879	0.935	69.270	69.340	69.140	73.413%
x		0.880	0.899	69.200	69.220	69.190	72.425%
σ		0.011	0.034	0.120	0.220	0.329	1.606%
%RSD		1.284	3.737	0.173	0.319	0.475	2.217

CCV 781130 4/13/2013 2:06:41 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	72.619%	103.200	93.980	102.600	0.000	51530.000	52140.000	52610.000
2	02:08:07	71.069%	103.700	109.900	105.800	0.000	52680.000	53470.000	53610.000
3	02:08:50	70.428%	104.000	110.400	107.700	0.000	52530.000	53230.000	53400.000
x		71.372%	103.659%	104.755%	105.376%	0.000	104.488%	105.898%	106.412%
σ		1.126%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.578	0.408	8.914	2.447	0.000	1.196	1.339	0.990

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	534.200	4996.000	0.000	52690.000	50590.000	49530.000	74.733%	97.830
2	02:08:07	544.500	5093.000	0.000	53300.000	51640.000	49770.000	73.758%	103.100
3	02:08:50	538.400	5010.000	0.000	52610.000	51370.000	49310.000	74.630%	102.500
x		107.807%	100.659%	0.000	105.738%	102.401%	99.068%	74.373%	101.174%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.536%	n/a
%RSD		0.960	1.035	0.000	0.717	1.069	0.467	0.720	2.876

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	101.800	100.700	507.800	26480.000	25550.000	103.600	103.300	103.100
2	02:08:07	101.400	102.400	514.600	26600.000	25910.000	104.000	106.900	105.400
3	02:08:50	100.900	102.100	512.400	26100.000	25620.000	102.500	102.200	102.500
x		101.403%	101.719%	102.318%	105.578%	102.778%	103.394%	104.139%	103.682%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.448	0.894	0.680	0.983	0.729	0.738	2.378	1.484

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	103.100	98.780	101.200	103.500	98.190	105.600	0.000	104.700
2	02:08:07	106.100	99.980	100.300	101.300	101.300	101.800	0.000	105.100
3	02:08:50	104.100	99.570	102.000	100.400	100.300	107.800	0.000	105.000
x		104.414%	99.443%	101.155%	101.724%	99.919%	105.065%	0.000	104.946%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.468	0.615	0.842	1.558	1.574	2.897	0.000	0.178

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	72.927%	105.300	104.400	70.102%	107.600	106.000	105.600	102.900
2	02:08:07	73.273%	107.300	107.000	71.231%	107.700	106.800	106.100	105.000
3	02:08:50	73.332%	108.100	108.000	71.285%	106.700	106.900	107.200	105.400
x		73.177%	106.910%	106.464%	70.873%	107.322%	106.563%	106.315%	104.422%
σ		0.219%	n/a	n/a	0.668%	n/a	n/a	n/a	n/a
%RSD		0.299	1.331	1.758	0.942	0.487	0.498	0.762	1.301

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	71.684%	105.000	105.400	103.900	105.900	106.300	74.601%	74.889%
2	02:08:07	72.148%	104.000	104.300	104.200	111.300	107.100	75.187%	76.165%
3	02:08:50	72.117%	105.400	104.300	105.100	108.000	106.000	75.589%	76.396%
x		71.983%	104.784%	104.658%	104.418%	108.402%	106.458%	75.126%	75.817%
σ		0.260%	n/a	n/a	n/a	n/a	n/a	0.497%	0.811%
%RSD		0.361	0.690	0.593	0.593	2.484	0.546	0.661	1.070

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:24	107.300	107.800	107.700	108.600	108.200	68.814%
2	02:08:07	107.600	107.600	108.000	108.100	108.600	70.024%
3	02:08:50	108.400	108.100	108.000	108.400	108.400	70.058%
x		107.760%	107.807%	107.917%	108.381%	108.366%	69.632%
σ		n/a	n/a	n/a	n/a	n/a	0.708%
%RSD		0.520	0.263	0.188	0.216	0.198	1.017

CCB8 4/13/2013 2:14:56 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:39	86.657%	0.002	1.638	1.238	0.000	21.530	3.320	3.695
2	02:16:22	87.757%	-0.030	1.444	1.598	0.000	26.680	10.490	11.180
3	02:17:05	88.277%	0.048	1.032	1.458	0.000	36.120	10.110	11.820
x		87.564%	0.007	1.372	1.431	0.000	28.110	7.974	8.897
σ		0.827%	0.039	0.310	0.182	0.000	7.398	4.035	4.517
%RSD		0.945	592.300	22.570	12.690	0.000	26.320	50.600	50.770
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:39	-0.196	-187.000	0.000	-40.660	5.912	-43.990	83.987%	0.173
2	02:16:22	1.753	-183.700	0.000	-36.500	20.970	-38.090	85.229%	0.079
3	02:17:05	1.649	-181.900	0.000	-29.620	9.054	-23.590	83.719%	0.143
x		1.069	-184.200	0.000	-35.590	11.980	-35.230	84.312%	0.131
σ		1.097	2.599	0.000	5.576	7.945	10.500	0.805%	0.048
%RSD		102.600	1.411	0.000	15.670	66.320	29.810	0.955	36.670
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:39	-0.012	0.079	0.054	1.407	0.168	-0.014	-0.015	-0.076
2	02:16:22	0.011	0.118	0.414	7.231	6.700	0.000	-0.009	-0.079
3	02:17:05	-0.030	0.127	0.365	8.991	7.413	0.021	0.053	-0.032
x		-0.010	0.108	0.278	5.877	4.760	0.002	0.010	-0.062
σ		0.020	0.026	0.195	3.969	3.993	0.017	0.038	0.027
%RSD		199.400	23.850	70.380	67.550	83.880	726.300	390.600	42.780
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:39	-0.106	-1.105	-1.136	-0.130	-0.727	-1.042	0.000	0.014
2	02:16:22	-0.092	-1.104	-1.073	-0.120	-0.700	-1.300	0.000	0.060
3	02:17:05	-0.031	-1.136	-0.840	0.028	-0.168	-0.072	0.000	0.077
x		-0.076	-1.115	-1.016	-0.074	-0.532	-0.805	0.000	0.050
σ		0.040	0.018	0.156	0.089	0.315	0.647	0.000	0.033
%RSD		52.370	1.589	15.320	120.000	59.270	80.440	0.000	64.720
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:39	79.996%	0.211	0.256	91.183%	-0.014	-0.006	-0.058	-0.027
2	02:16:22	81.868%	0.316	0.241	93.612%	0.012	0.008	-0.031	0.015
3	02:17:05	80.033%	0.325	0.211	91.929%	0.016	0.010	-0.077	-0.066
x		80.632%	0.284	0.236	92.241%	0.005	0.004	-0.055	-0.026
σ		1.071%	0.063	0.023	1.245%	0.016	0.009	0.023	0.040
%RSD		1.328	22.240	9.582	1.349	353.600	231.600	42.050	157.400
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:39	83.940%	0.100	-0.014	-0.017	-0.003	0.006	85.847%	86.262%
2	02:16:22	86.391%	0.034	0.000	-0.010	0.030	0.038	88.361%	88.203%
3	02:17:05	85.623%	0.080	0.024	0.010	-0.027	0.103	88.347%	87.258%
x		85.318%	0.071	0.004	-0.006	0.000	0.049	87.518%	87.241%
σ		1.254%	0.034	0.019	0.014	0.029	0.050	1.447%	0.971%
%RSD		1.470	47.390	520.300	248.200	13320.000	101.600	1.654	1.113
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:15:39	0.017	0.025	0.010	-0.011	-0.001	80.843%		
2	02:16:22	0.016	0.022	0.039	0.025	0.025	84.593%		
3	02:17:05	0.026	0.030	0.040	0.024	0.029	81.832%		
x		0.020	0.026	0.030	0.012	0.018	82.423%		
σ		0.005	0.004	0.017	0.021	0.016	1.944%		
%RSD		26.710	15.500	57.720	166.500	92.620	2.358		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	61.962%	7.325	41.180	41.040	0.000	531.300	37090.000	37750.000
2	02:24:38	64.872%	6.687	38.250	36.920	0.000	512.200	35920.000	36170.000
3	02:25:21	64.757%	6.177	39.300	37.970	0.000	519.500	35750.000	35880.000
x		63.864%	6.730	39.580	38.640	0.000	521.000	36260.000	36600.000
σ		1.648%	0.575	1.484	2.141	0.000	9.634	730.100	1007.000
%RSD		2.580	8.549	3.749	5.539	0.000	1.849	2.014	2.751

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	125600.000	6023.000	0.000	12810.000	17710.000	16920.000	72.510%	972.000
2	02:24:38	121300.000	5761.000	0.000	12330.000	16870.000	16540.000	75.154%	951.500
3	02:25:21	119100.000	5677.000	0.000	12320.000	17240.000	16340.000	74.948%	949.400
x		122000.000	5820.000	0.000	12490.000	17270.000	16600.000	74.204%	957.600
σ		3284.000	180.500	0.000	279.700	424.900	291.100	1.471%	12.490
%RSD		2.692	3.101	0.000	2.240	2.460	1.753	1.982	1.304

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	178.900	187.900	6470.000	270700.000	275800.000	117.200	293.300	197.500
2	02:24:38	175.600	184.700	6237.000	261800.000	267300.000	112.700	283.000	191.400
3	02:25:21	175.400	183.100	6176.000	258000.000	263500.000	112.600	283.500	190.800
x		176.600	185.200	6294.000	263500.000	268800.000	114.200	286.600	193.200
σ		1.969	2.458	155.000	6549.000	6299.000	2.630	5.804	3.695
%RSD		1.115	1.327	2.462	2.485	2.343	2.304	2.025	1.913

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	199.400	598.000	597.200	146.300	0.630	2.739	0.000	113.500
2	02:24:38	194.000	584.600	591.700	140.800	1.600	2.649	0.000	111.200
3	02:25:21	191.200	584.500	586.000	139.200	1.391	2.523	0.000	110.600
x		194.900	589.000	591.600	142.100	1.207	2.637	0.000	111.800
σ		4.167	7.769	5.634	3.746	0.511	0.109	0.000	1.554
%RSD		2.138	1.319	0.952	2.637	42.300	4.129	0.000	1.390

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	0.000	9.792	9.673	68.925%	0.228	0.191	1.203	1.076
2	02:24:38	0.000	9.391	9.894	72.084%	0.287	0.188	1.281	0.987
3	02:25:21	0.000	9.042	9.297	73.106%	0.234	0.192	1.540	1.235
x		0.000	9.408	9.621	71.372%	0.250	0.190	1.341	1.099
σ		0.000	0.375	0.302	2.180%	0.033	0.002	0.176	0.126
%RSD		0.000	3.989	3.139	3.054	13.230	0.956	13.160	11.420

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	70.204%	1.380	0.236	0.299	770.500	753.900	81.157%	79.970%
2	02:24:38	74.158%	1.309	0.228	0.259	763.400	744.200	85.249%	84.853%
3	02:25:21	76.039%	1.229	0.224	0.203	748.500	732.200	86.725%	86.014%
x		73.467%	1.306	0.229	0.254	760.800	743.400	84.377%	83.612%
σ		2.979%	0.076	0.006	0.048	11.210	10.870	2.885%	3.207%
%RSD		4.054	5.802	2.538	18.910	1.474	1.462	3.419	3.836

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:55	1.388	1.412	133.400	131.500	132.700	69.512%
2	02:24:38	1.457	1.439	133.700	132.300	133.500	71.523%
3	02:25:21	1.435	1.421	132.200	130.300	131.300	73.396%
x		1.427	1.424	133.100	131.400	132.500	71.477%
σ		0.035	0.013	0.821	1.004	1.095	1.942%
%RSD		2.467	0.947	0.617	0.764	0.826	2.717

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	64.835%	4.801	25.370	26.060	0.000	461.400	22140.000	22280.000
2	02:32:54	67.142%	4.172	26.790	25.740	0.000	442.600	21400.000	21530.000
3	02:33:37	64.523%	4.375	26.840	26.940	0.000	465.700	22460.000	22360.000
x		65.500%	4.449	26.330	26.250	0.000	456.600	22000.000	22060.000
σ		1.431%	0.321	0.830	0.624	0.000	12.320	542.400	462.100
%RSD		2.184	7.217	3.153	2.377	0.000	2.699	2.465	2.095

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	80120.000	5261.000	0.000	8523.000	5760.000	5379.000	73.167%	637.500
2	02:32:54	76090.000	4922.000	0.000	8122.000	5266.000	5161.000	75.371%	614.000
3	02:33:37	79750.000	5167.000	0.000	8366.000	5720.000	5360.000	75.152%	633.100
x		78650.000	5117.000	0.000	8337.000	5582.000	5300.000	74.563%	628.200
σ		2224.000	175.100	0.000	201.500	274.600	121.100	1.214%	12.530
%RSD		2.827	3.422	0.000	2.418	4.919	2.284	1.628	1.994

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	131.100	114.400	7548.000	290100.000	294100.000	102.200	231.900	134.100
2	02:32:54	125.000	109.200	7233.000	276700.000	280200.000	97.180	221.000	130.100
3	02:33:37	128.400	113.800	7456.000	283600.000	289300.000	100.900	231.200	131.500
x		128.200	112.500	7412.000	283500.000	287900.000	100.100	228.000	131.900
σ		3.103	2.874	161.600	6718.000	7044.000	2.592	6.102	2.070
%RSD		2.421	2.555	2.180	2.370	2.447	2.590	2.676	1.570

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	135.200	385.600	392.500	162.800	0.670	1.035	0.000	53.720
2	02:32:54	129.800	374.400	381.300	152.700	0.813	2.670	0.000	52.250
3	02:33:37	132.900	389.600	388.900	159.900	1.522	3.390	0.000	53.700
x		132.600	383.200	387.600	158.500	1.002	2.365	0.000	53.220
σ		2.754	7.847	5.699	5.196	0.456	1.207	0.000	0.844
%RSD		2.076	2.048	1.470	3.278	45.530	51.020	0.000	1.587

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	0.000	6.345	6.255	70.632%	0.178	0.138	1.325	0.976
2	02:32:54	0.000	6.186	5.985	74.042%	0.233	0.098	0.965	0.754
3	02:33:37	0.000	6.344	6.141	72.898%	0.249	0.107	0.882	0.762
x		0.000	6.292	6.127	72.524%	0.220	0.114	1.057	0.831
σ		0.000	0.091	0.136	1.736%	0.037	0.021	0.235	0.126
%RSD		0.000	1.451	2.216	2.393	16.990	18.360	22.280	15.190

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	72.736%	1.540	0.272	0.219	494.800	486.700	81.454%	79.895%
2	02:32:54	76.721%	1.703	0.258	0.283	475.900	470.600	86.076%	84.639%
3	02:33:37	75.666%	1.666	0.322	0.278	501.700	497.600	85.826%	85.259%
x		75.041%	1.637	0.284	0.260	490.800	485.000	84.452%	83.264%
σ		2.064%	0.085	0.034	0.036	13.330	13.620	2.599%	2.934%
%RSD		2.751	5.211	11.860	13.680	2.715	2.808	3.077	3.524

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:32:11	1.828	1.955	104.000	102.700	103.200	69.785%
2	02:32:54	1.790	1.773	99.410	99.020	98.980	74.660%
3	02:33:37	1.802	1.861	103.700	103.200	103.700	73.255%
x		1.807	1.863	102.400	101.600	102.000	72.567%
σ		0.020	0.091	2.569	2.258	2.585	2.509%
%RSD		1.084	4.880	2.509	2.222	2.535	3.458

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	65.379%	4.328	21.300	24.460	0.000	346.500	30120.000	30480.000
2	02:41:11	67.340%	4.722	23.150	23.240	0.000	331.200	28850.000	29150.000
3	02:41:54	65.714%	5.722	26.390	23.980	0.000	354.900	29860.000	30010.000
x		66.144%	4.924	23.620	23.890	0.000	344.200	29610.000	29880.000
σ		1.049%	0.719	2.574	0.613	0.000	12.050	671.200	674.500
%RSD		1.585	14.600	10.900	2.566	0.000	3.500	2.267	2.257

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	111900.000	4973.000	0.000	8560.000	1390.000	1291.000	73.346%	961.200
2	02:41:11	105600.000	4717.000	0.000	8106.000	1331.000	1225.000	75.827%	922.700
3	02:41:54	109400.000	4920.000	0.000	8457.000	1401.000	1262.000	74.886%	967.600
x		109000.000	4870.000	0.000	8374.000	1374.000	1259.000	74.686%	950.500
σ		3168.000	135.400	0.000	237.900	37.870	32.960	1.253%	24.260
%RSD		2.907	2.779	0.000	2.841	2.756	2.618	1.677	2.553

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	175.400	135.400	1693.000	225300.000	229600.000	70.740	175.100	173.300
2	02:41:11	165.000	127.700	1609.000	211800.000	215900.000	67.810	167.400	167.100
3	02:41:54	171.400	133.300	1677.000	220300.000	223800.000	70.570	172.000	174.300
x		170.600	132.100	1660.000	219200.000	223100.000	69.710	171.500	171.600
σ		5.218	3.944	44.670	6827.000	6880.000	1.643	3.891	3.886
%RSD		3.059	2.985	2.692	3.115	3.083	2.356	2.269	2.265

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	175.900	468.700	470.300	135.700	1.638	6.058	0.000	32.350
2	02:41:11	168.700	447.500	452.600	130.000	1.930	5.511	0.000	30.660
3	02:41:54	172.600	459.200	463.900	133.900	1.807	3.829	0.000	32.150
x		172.400	458.400	462.300	133.200	1.792	5.133	0.000	31.720
σ		3.634	10.640	8.972	2.916	0.147	1.162	0.000	0.926
%RSD		2.108	2.320	1.941	2.189	8.189	22.640	0.000	2.920

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	0.000	9.762	9.962	69.994%	0.172	0.092	1.464	1.183
2	02:41:11	0.000	9.320	9.360	73.357%	0.126	0.099	1.168	0.864
3	02:41:54	0.000	9.854	9.737	72.848%	0.176	0.102	1.346	1.044
x		0.000	9.645	9.686	72.066%	0.158	0.098	1.326	1.030
σ		0.000	0.286	0.304	1.813%	0.028	0.005	0.149	0.160
%RSD		0.000	2.961	3.140	2.515	17.560	5.252	11.230	15.490

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	71.460%	1.485	0.165	0.169	573.000	566.300	80.517%	79.978%
2	02:41:11	75.936%	1.566	0.193	0.213	540.600	535.800	86.508%	85.302%
3	02:41:54	75.440%	1.383	0.270	0.202	564.800	554.300	85.909%	84.347%
x		74.279%	1.478	0.209	0.195	559.500	552.100	84.311%	83.209%
σ		2.453%	0.092	0.054	0.023	16.840	15.330	3.300%	2.839%
%RSD		3.303	6.215	25.890	11.860	3.009	2.777	3.914	3.412

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:28	1.554	1.547	109.700	108.000	109.500	68.597%
2	02:41:11	1.512	1.427	103.300	103.400	103.600	73.496%
3	02:41:54	1.525	1.560	106.500	105.500	106.000	73.463%
x		1.530	1.511	106.500	105.600	106.400	71.852%
σ		0.022	0.073	3.159	2.298	2.939	2.819%
%RSD		1.408	4.841	2.966	2.176	2.763	3.923

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	63.502%	6.686	52.140	47.810	0.000	1253.000	31340.000	31550.000
2	02:49:27	63.040%	7.077	47.400	52.830	0.000	1295.000	31860.000	33620.000
3	02:50:10	63.859%	6.899	49.940	49.540	0.000	1263.000	31000.000	32760.000
x		63.467%	6.887	49.830	50.060	0.000	1270.000	31400.000	32650.000
σ		0.410%	0.196	2.373	2.552	0.000	21.780	431.200	1039.000
%RSD		0.646	2.841	4.763	5.097	0.000	1.715	1.373	3.183

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	105400.000	5095.000	0.000	12040.000	24420.000	22740.000	73.089%	1000.000
2	02:49:27	107600.000	5321.000	0.000	12340.000	25170.000	23520.000	72.840%	1039.000
3	02:50:10	104400.000	5115.000	0.000	11890.000	24100.000	22600.000	74.101%	1020.000
x		105800.000	5177.000	0.000	12090.000	24560.000	22960.000	73.343%	1020.000
σ		1613.000	125.000	0.000	227.600	551.100	497.100	0.668%	19.560
%RSD		1.524	2.415	0.000	1.882	2.244	2.165	0.911	1.917

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	158.700	163.900	40810.000	229400.000	232600.000	105.000	250.800	286.000
2	02:49:27	167.500	169.100	41770.000	237700.000	241000.000	109.200	261.500	295.500
3	02:50:10	162.100	163.700	40710.000	229500.000	234700.000	106.500	254.900	285.500
x		162.700	165.600	41100.000	232200.000	236100.000	106.900	255.700	289.000
σ		4.453	3.059	586.500	4759.000	4381.000	2.110	5.406	5.639
%RSD		2.736	1.848	1.427	2.050	1.856	1.974	2.114	1.951

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	289.100	571.400	571.400	515.800	2.713	5.032	0.000	4141.000
2	02:49:27	298.400	600.600	594.100	532.500	3.163	4.492	0.000	4256.000
3	02:50:10	289.700	579.000	584.300	516.800	2.851	5.420	0.000	4114.000
x		292.400	583.700	583.300	521.700	2.909	4.981	0.000	4170.000
σ		5.229	15.140	11.400	9.386	0.231	0.466	0.000	75.400
%RSD		1.788	2.594	1.954	1.799	7.927	9.361	0.000	1.808

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	0.000	87.330	87.090	69.708%	0.346	0.242	2.176	1.555
2	02:49:27	0.000	92.940	91.350	70.542%	0.386	0.186	1.862	1.486
3	02:50:10	0.000	91.480	89.510	72.112%	0.330	0.247	1.767	1.299
x		0.000	90.580	89.320	70.787%	0.354	0.225	1.935	1.446
σ		0.000	2.912	2.133	1.221%	0.029	0.034	0.214	0.132
%RSD		0.000	3.214	2.388	1.725	8.265	15.180	11.050	9.139

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	72.018%	1.300	0.339	0.317	828.700	820.000	81.258%	80.821%
2	02:49:27	71.969%	1.176	0.361	0.419	873.000	856.500	81.724%	82.300%
3	02:50:10	74.144%	1.145	0.349	0.312	837.000	830.700	84.925%	84.265%
x		72.710%	1.207	0.350	0.349	846.200	835.700	82.635%	82.462%
σ		1.242%	0.082	0.011	0.060	23.530	18.720	1.996%	1.728%
%RSD		1.708	6.789	3.264	17.310	2.781	2.240	2.416	2.095

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:44	1.890	1.902	1172.000	1205.000	1203.000	69.248%
2	02:49:27	1.944	1.993	1260.000	1296.000	1328.000	67.759%
3	02:50:10	1.872	1.927	1188.000	1230.000	1222.000	71.501%
x		1.902	1.941	1206.000	1244.000	1251.000	69.503%
σ		0.037	0.047	46.970	46.750	67.160	1.884%
%RSD		1.968	2.431	3.893	3.758	5.369	2.711

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	62.691%	4.014	20.430	24.920	0.000	390.300	22240.000	22410.000
2	02:57:40	66.045%	3.958	22.270	24.690	0.000	367.800	21220.000	21450.000
3	02:58:23	66.603%	4.146	24.910	23.480	0.000	355.800	20630.000	20750.000
x		65.113%	4.039	22.540	24.360	0.000	371.300	21370.000	21540.000
σ		2.116%	0.097	2.253	0.772	0.000	17.500	813.700	833.200
%RSD		3.250	2.396	9.997	3.169	0.000	4.714	3.808	3.869

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	92740.000	5200.000	0.000	8625.000	2141.000	1913.000	71.511%	778.100
2	02:57:40	89140.000	5074.000	0.000	8330.000	1946.000	1858.000	73.417%	754.900
3	02:58:23	85180.000	4820.000	0.000	8050.000	1952.000	1774.000	74.558%	730.700
x		89020.000	5031.000	0.000	8335.000	2013.000	1848.000	73.162%	754.600
σ		3780.000	193.400	0.000	287.200	110.700	70.440	1.540%	23.730
%RSD		4.247	3.843	0.000	3.446	5.502	3.811	2.104	3.144

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	139.400	119.700	2290.000	182200.000	184300.000	76.870	196.900	122.500
2	02:57:40	135.600	117.300	2232.000	176900.000	180100.000	76.320	194.700	120.600
3	02:58:23	131.000	112.400	2130.000	169500.000	172100.000	73.740	184.500	116.700
x		135.300	116.500	2217.000	176200.000	178800.000	75.640	192.000	119.900
σ		4.214	3.757	80.990	6403.000	6217.000	1.672	6.610	2.951
%RSD		3.114	3.226	3.653	3.634	3.476	2.210	3.443	2.461

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	124.000	342.100	343.500	128.100	1.328	3.285	0.000	45.970
2	02:57:40	121.800	336.000	338.700	125.800	1.110	3.535	0.000	45.430
3	02:58:23	118.100	323.900	325.200	121.200	1.141	2.866	0.000	43.550
x		121.300	334.000	335.800	125.000	1.193	3.228	0.000	44.980
σ		3.011	9.266	9.482	3.543	0.118	0.338	0.000	1.273
%RSD		2.482	2.774	2.823	2.834	9.869	10.470	0.000	2.830

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	0.000	6.417	6.328	69.165%	0.229	0.155	0.952	0.776
2	02:57:40	0.000	5.962	6.295	71.666%	0.222	0.120	1.108	0.816
3	02:58:23	0.000	5.989	5.689	73.554%	0.215	0.136	1.138	0.780
x		0.000	6.123	6.104	71.461%	0.222	0.137	1.066	0.791
σ		0.000	0.255	0.360	2.202%	0.007	0.017	0.100	0.022
%RSD		0.000	4.167	5.893	3.081	3.087	12.760	9.375	2.782

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	70.799%	1.325	0.224	0.161	909.800	894.500	78.634%	79.243%
2	02:57:40	73.769%	1.341	0.179	0.222	897.100	879.000	81.993%	81.585%
3	02:58:23	76.301%	1.305	0.186	0.125	854.000	841.200	84.668%	83.883%
x		73.623%	1.324	0.196	0.169	887.000	871.500	81.765%	81.570%
σ		2.754%	0.018	0.025	0.049	29.250	27.430	3.024%	2.320%
%RSD		3.740	1.395	12.500	28.800	3.298	3.147	3.698	2.844

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:57	1.264	1.278	103.000	102.400	102.900	68.207%
2	02:57:40	1.295	1.240	101.600	100.700	101.500	70.981%
3	02:58:23	1.247	1.119	97.360	96.130	96.330	73.676%
x		1.269	1.212	100.700	99.740	100.200	70.955%
σ		0.024	0.083	2.956	3.229	3.439	2.735%
%RSD		1.925	6.878	2.936	3.237	3.431	3.854

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	66.949%	2.393	11.300	12.720	0.000	255.000	44200.000	44710.000
2	03:05:55	67.437%	2.173	15.400	12.830	0.000	253.900	43690.000	44060.000
3	03:06:38	66.420%	2.064	12.990	13.570	0.000	269.100	45110.000	45400.000
x		66.935%	2.210	13.230	13.040	0.000	259.300	44330.000	44730.000
σ		0.509%	0.168	2.056	0.462	0.000	8.502	718.000	671.400
%RSD		0.760	7.588	15.540	3.544	0.000	3.278	1.620	1.501

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	51470.000	4554.000	0.000	2759.000	5402.000	5181.000	70.858%	528.600
2	03:05:55	50920.000	4523.000	0.000	2740.000	5489.000	5195.000	71.811%	525.200
3	03:06:38	52310.000	4637.000	0.000	2821.000	5738.000	5321.000	70.461%	537.000
x		51570.000	4571.000	0.000	2773.000	5543.000	5232.000	71.043%	530.200
σ		703.000	58.720	0.000	42.780	174.400	77.330	0.694%	6.068
%RSD		1.363	1.284	0.000	1.542	3.146	1.478	0.976	1.144

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	123.700	3806.000	13210.000	104400.000	100200.000	82.600	1028.000	45.260
2	03:05:55	99.010	3714.000	12940.000	101800.000	99260.000	80.980	1024.000	44.310
3	03:06:38	103.600	3840.000	13340.000	105200.000	102800.000	82.660	1061.000	45.890
x		108.800	3787.000	13160.000	103800.000	100700.000	82.080	1038.000	45.150
σ		13.160	65.050	204.200	1759.000	1833.000	0.952	20.440	0.792
%RSD		12.090	1.718	1.551	1.695	1.819	1.159	1.970	1.754

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	46.270	163.600	165.100	43.690	1.688	1.125	0.000	62.740
2	03:05:55	45.410	162.000	164.700	41.990	0.828	2.573	0.000	62.450
3	03:06:38	46.110	168.100	174.100	44.430	1.597	1.733	0.000	63.600
x		45.930	164.600	168.000	43.370	1.371	1.811	0.000	62.930
σ		0.458	3.169	5.302	1.252	0.472	0.727	0.000	0.598
%RSD		0.997	1.926	3.157	2.886	34.460	40.150	0.000	0.950

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	0.000	24.180	23.140	70.076%	0.243	0.231	1.086	1.065
2	03:05:55	0.000	23.530	23.930	72.212%	0.257	0.208	1.203	1.117
3	03:06:38	0.000	24.300	24.620	71.111%	0.212	0.267	1.312	1.252
x		0.000	24.000	23.900	71.133%	0.237	0.235	1.200	1.145
σ		0.000	0.412	0.737	1.068%	0.023	0.030	0.113	0.096
%RSD		0.000	1.715	3.085	1.502	9.783	12.570	9.410	8.398

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	72.377%	1.647	0.165	0.192	500.300	493.600	74.941%	75.708%
2	03:05:55	74.433%	1.708	0.203	0.169	495.300	488.900	78.086%	77.737%
3	03:06:38	72.994%	1.978	0.150	0.224	506.400	505.900	77.202%	77.051%
x		73.268%	1.778	0.172	0.195	500.700	496.200	76.743%	76.832%
σ		1.055%	0.176	0.028	0.028	5.577	8.783	1.622%	1.032%
%RSD		1.440	9.895	15.980	14.180	1.114	1.770	2.114	1.343

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:05:12	0.955	0.890	85.720	84.520	85.050	69.128%
2	03:05:55	0.917	0.915	85.510	83.930	84.670	70.985%
3	03:06:38	0.895	0.947	87.700	85.800	86.220	71.038%
x		0.923	0.917	86.310	84.750	85.320	70.384%
σ		0.031	0.029	1.211	0.954	0.807	1.088%
%RSD		3.317	3.139	1.403	1.126	0.946	1.546

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	64.621%	5.358	15.100	18.750	0.000	467.600	13530.000	13620.000
2	03:14:09	64.694%	5.872	19.960	18.790	0.000	466.800	13730.000	13720.000
3	03:14:52	65.590%	5.321	17.020	19.360	0.000	473.500	13830.000	13860.000
x		64.969%	5.517	17.360	18.970	0.000	469.300	13700.000	13740.000
σ		0.540%	0.308	2.449	0.338	0.000	3.709	152.400	122.900
%RSD		0.831	5.585	14.110	1.784	0.000	0.790	1.112	0.895

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	103300.000	4958.000	0.000	5155.000	5769.000	5452.000	69.836%	830.900
2	03:14:09	104000.000	4962.000	0.000	5186.000	5556.000	5439.000	70.726%	834.900
3	03:14:52	104300.000	4987.000	0.000	5196.000	5734.000	5552.000	70.661%	843.700
x		103900.000	4969.000	0.000	5179.000	5686.000	5481.000	70.408%	836.500
σ		512.900	15.820	0.000	21.670	114.600	61.940	0.496%	6.560
%RSD		0.494	0.319	0.000	0.418	2.015	1.130	0.704	0.784

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	215.000	112.000	23660.000	179400.000	182300.000	127.300	100.100	47.290
2	03:14:09	214.700	110.100	23610.000	177700.000	180700.000	127.700	99.890	46.340
3	03:14:52	218.700	113.000	23860.000	179100.000	182200.000	129.400	100.900	47.980
x		216.100	111.700	23710.000	178700.000	181700.000	128.100	100.300	47.200
σ		2.222	1.453	133.100	915.400	901.200	1.117	0.524	0.826
%RSD		1.028	1.301	0.561	0.512	0.496	0.872	0.522	1.750

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	47.700	336.500	336.500	57.760	3.147	3.261	0.000	60.500
2	03:14:09	48.850	338.000	342.200	56.960	2.731	3.791	0.000	60.180
3	03:14:52	49.400	339.400	348.900	58.010	2.644	4.720	0.000	61.190
x		48.650	338.000	342.500	57.580	2.841	3.924	0.000	60.620
σ		0.869	1.451	6.192	0.552	0.269	0.739	0.000	0.512
%RSD		1.785	0.429	1.808	0.959	9.474	18.830	0.000	0.845

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	0.000	8.741	9.045	69.035%	0.582	0.587	1.540	1.415
2	03:14:09	0.000	8.546	8.619	70.976%	0.563	0.515	2.039	1.667
3	03:14:52	0.000	9.074	8.617	71.425%	0.528	0.544	1.752	1.666
x		0.000	8.787	8.760	70.479%	0.557	0.548	1.777	1.583
σ		0.000	0.267	0.247	1.270%	0.027	0.036	0.251	0.145
%RSD		0.000	3.037	2.816	1.802	4.901	6.556	14.110	9.180

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	71.347%	0.974	0.231	0.197	1237.000	1224.000	76.444%	76.313%
2	03:14:09	73.454%	1.116	0.213	0.167	1231.000	1220.000	80.366%	78.679%
3	03:14:52	74.334%	1.039	0.215	0.205	1240.000	1227.000	80.935%	79.312%
x		73.045%	1.043	0.220	0.190	1236.000	1224.000	79.249%	78.102%
σ		1.535%	0.071	0.010	0.020	4.447	3.353	2.445%	1.581%
%RSD		2.101	6.818	4.649	10.580	0.360	0.274	3.085	2.024

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:26	1.866	1.784	144.500	141.300	143.000	69.502%
2	03:14:09	1.824	1.840	147.300	145.500	146.000	70.725%
3	03:14:52	1.882	1.864	149.700	146.900	147.700	70.753%
x		1.857	1.829	147.200	144.500	145.600	70.326%
σ		0.030	0.041	2.583	2.910	2.349	0.714%
%RSD		1.605	2.253	1.755	2.013	1.614	1.015

240-22274-B-34-C 4/13/2013 3:20:58 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	63.371%	5.955	33.800	32.450	0.000	490.900	24360.000	24430.000
2	03:22:24	64.560%	6.654	36.300	34.500	0.000	496.200	24680.000	24740.000
3	03:23:07	63.767%	6.344	34.260	34.700	0.000	498.200	24780.000	24860.000
x		63.899%	6.318	34.790	33.880	0.000	495.100	24610.000	24680.000
σ		0.605%	0.350	1.331	1.245	0.000	3.745	218.300	217.400
%RSD		0.947	5.542	3.826	3.675	0.000	0.756	0.887	0.881

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	127400.000	5350.000	0.000	7510.000	27930.000	27410.000	72.456%	1143.000
2	03:22:24	127900.000	5417.000	0.000	7653.000	28740.000	28120.000	71.794%	1169.000
3	03:23:07	127600.000	5470.000	0.000	7526.000	28910.000	27990.000	72.722%	1161.000
x		127600.000	5412.000	0.000	7563.000	28530.000	27840.000	72.324%	1157.000
σ		247.100	60.290	0.000	78.230	521.400	379.000	0.478%	13.290
%RSD		0.194	1.114	0.000	1.034	1.828	1.361	0.661	1.148

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	230.600	143.400	52100.000	235700.000	239900.000	94.730	251.100	163.300
2	03:22:24	238.900	148.700	53430.000	239400.000	243900.000	97.370	256.800	165.100
3	03:23:07	238.800	145.700	52770.000	239000.000	243900.000	97.470	258.200	167.000
x		236.100	146.000	52770.000	238000.000	242600.000	96.520	255.400	165.100
σ		4.763	2.670	665.200	2067.000	2282.000	1.556	3.792	1.843
%RSD		2.017	1.830	1.261	0.868	0.941	1.612	1.485	1.116

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	165.200	477.900	482.800	105.200	3.265	4.933	0.000	159.400
2	03:22:24	165.700	495.400	491.600	106.700	3.620	4.858	0.000	161.800
3	03:23:07	169.600	495.300	501.100	107.600	3.340	5.230	0.000	162.500
x		166.800	489.500	491.900	106.500	3.408	5.007	0.000	161.300
σ		2.427	10.100	9.135	1.236	0.187	0.197	0.000	1.614
%RSD		1.455	2.062	1.857	1.160	5.480	3.936	0.000	1.001

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	0.000	14.620	14.250	68.921%	0.330	0.294	1.561	1.241
2	03:22:24	0.000	14.440	14.760	70.156%	0.396	0.231	1.757	1.441
3	03:23:07	0.000	14.780	14.120	70.619%	0.350	0.287	1.372	1.279
x		0.000	14.610	14.380	69.898%	0.358	0.271	1.563	1.320
σ		0.000	0.166	0.341	0.878%	0.034	0.034	0.193	0.106
%RSD		0.000	1.138	2.369	1.256	9.393	12.590	12.320	8.046

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	71.180%	1.145	0.297	0.293	1610.000	1598.000	79.124%	78.704%
2	03:22:24	73.348%	1.297	0.282	0.301	1640.000	1617.000	82.170%	81.432%
3	03:23:07	73.959%	1.158	0.292	0.312	1647.000	1617.000	81.865%	82.254%
x		72.829%	1.200	0.291	0.302	1632.000	1610.000	81.053%	80.797%
σ		1.460%	0.084	0.008	0.009	19.190	10.840	1.678%	1.858%
%RSD		2.005	7.015	2.697	3.073	1.176	0.673	2.070	2.300

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:41	1.690	1.712	155.900	153.900	155.100	69.469%
2	03:22:24	1.774	1.773	160.900	158.800	160.000	70.676%
3	03:23:07	1.707	1.739	161.600	158.100	159.800	71.285%
x		1.724	1.741	159.500	156.900	158.300	70.476%
σ		0.045	0.031	3.101	2.644	2.768	0.924%
%RSD		2.588	1.766	1.944	1.685	1.749	1.311

240-22274-B-35-C 4/13/2013 3:29:13 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	61.135%	7.012	67.360	59.890	0.000	603.400	23770.000	23830.000
2	03:30:39	62.687%	7.038	56.810	60.700	0.000	608.300	23680.000	23760.000
3	03:31:22	63.678%	6.357	63.560	61.020	0.000	602.700	23650.000	23650.000
x		62.500%	6.802	62.570	60.540	0.000	604.800	23700.000	23740.000
σ		1.282%	0.386	5.345	0.584	0.000	3.054	63.320	89.040
%RSD		2.051	5.670	8.541	0.964	0.000	0.505	0.267	0.375

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	132900.000	6317.000	0.000	7864.000	26520.000	25460.000	70.546%	1540.000
2	03:30:39	131600.000	6198.000	0.000	7874.000	27200.000	25620.000	71.282%	1557.000
3	03:31:22	130000.000	6204.000	0.000	7798.000	26190.000	25490.000	71.856%	1542.000
x		131500.000	6240.000	0.000	7845.000	26640.000	25530.000	71.228%	1546.000
σ		1449.000	67.020	0.000	41.210	518.200	86.350	0.657%	9.469
%RSD		1.102	1.074	0.000	0.525	1.945	0.338	0.922	0.612

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	236.500	580.700	7060.000	261000.000	265400.000	83.520	167.800	136.100
2	03:30:39	237.700	585.500	7013.000	257900.000	262400.000	83.650	170.500	140.000
3	03:31:22	237.000	584.900	7028.000	258700.000	263500.000	83.960	166.600	138.200
x		237.100	583.700	7034.000	259200.000	263800.000	83.710	168.300	138.100
σ		0.592	2.648	24.270	1603.000	1491.000	0.228	2.008	1.939
%RSD		0.250	0.454	0.345	0.619	0.566	0.273	1.193	1.404

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	139.400	483.300	493.200	132.700	7.219	9.589	0.000	145.700
2	03:30:39	142.100	493.300	488.300	132.200	7.042	9.164	0.000	146.100
3	03:31:22	139.100	490.900	486.300	131.900	7.619	8.897	0.000	147.400
x		140.200	489.200	489.300	132.200	7.293	9.217	0.000	146.400
σ		1.651	5.251	3.527	0.394	0.296	0.349	0.000	0.898
%RSD		1.178	1.073	0.721	0.298	4.058	3.787	0.000	0.613

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	0.000	12.690	12.600	67.754%	0.491	0.329	2.376	1.889
2	03:30:39	0.000	13.220	12.490	69.910%	0.437	0.347	1.947	1.541
3	03:31:22	0.000	13.950	12.920	70.035%	0.416	0.406	2.188	1.713
x		0.000	13.290	12.670	69.233%	0.448	0.361	2.171	1.714
σ		0.000	0.632	0.225	1.283%	0.039	0.041	0.215	0.174
%RSD		0.000	4.757	1.777	1.853	8.604	11.260	9.915	10.150

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	70.133%	1.440	0.650	0.641	810.900	796.200	77.227%	75.693%
2	03:30:39	71.111%	1.597	0.683	0.613	821.500	815.300	79.895%	79.196%
3	03:31:22	73.496%	1.459	0.659	0.689	820.500	805.500	80.549%	80.475%
x		71.580%	1.499	0.664	0.648	817.600	805.700	79.224%	78.454%
σ		1.730%	0.085	0.017	0.038	5.858	9.560	1.760%	2.476%
%RSD		2.417	5.701	2.532	5.890	0.717	1.187	2.221	3.156

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:56	2.355	2.307	181.600	177.700	179.600	67.399%
2	03:30:39	2.387	2.334	182.700	179.700	181.500	69.458%
3	03:31:22	2.260	2.406	181.900	179.900	180.800	70.489%
x		2.334	2.349	182.100	179.100	180.600	69.115%
σ		0.066	0.051	0.572	1.189	0.946	1.573%
%RSD		2.824	2.181	0.314	0.664	0.524	2.276

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	69.368%	0.819	5.601	5.215	0.000	190.200	3100.000	3144.000
2	03:38:56	69.268%	0.760	4.785	5.023	0.000	200.500	3130.000	3179.000
3	03:39:39	68.312%	0.671	6.093	5.879	0.000	209.500	3178.000	3182.000
x		68.983%	0.750	5.493	5.372	0.000	200.100	3136.000	3168.000
σ		0.583%	0.075	0.660	0.449	0.000	9.633	38.980	21.380
%RSD		0.845	9.935	12.020	8.359	0.000	4.815	1.243	0.675

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	10720.000	435.300	0.000	1194.000	2625.000	2346.000	71.636%	105.700
2	03:38:56	10580.000	432.200	0.000	1198.000	2677.000	2331.000	72.539%	104.700
3	03:39:39	10640.000	431.000	0.000	1184.000	2565.000	2327.000	72.919%	105.200
x		10650.000	432.800	0.000	1192.000	2622.000	2335.000	72.365%	105.200
σ		74.440	2.213	0.000	7.054	55.950	9.953	0.659%	0.498
%RSD		0.699	0.511	0.000	0.592	2.134	0.426	0.911	0.473

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	16.100	16.910	4306.000	24520.000	23180.000	10.600	25.630	30.930
2	03:38:56	16.710	17.020	4259.000	24160.000	23070.000	10.700	26.390	29.480
3	03:39:39	17.220	17.140	4253.000	24210.000	23140.000	10.760	26.730	29.870
x		16.680	17.020	4273.000	24300.000	23130.000	10.690	26.250	30.090
σ		0.563	0.114	28.740	196.600	57.650	0.077	0.566	0.754
%RSD		3.373	0.670	0.673	0.809	0.249	0.724	2.157	2.506

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	30.030	59.880	63.650	53.130	0.231	-0.156	0.000	389.900
2	03:38:56	29.540	62.150	63.050	52.220	-0.301	1.120	0.000	386.500
3	03:39:39	30.050	60.950	61.800	53.990	-0.048	2.398	0.000	386.600
x		29.870	60.990	62.830	53.110	-0.039	1.121	0.000	387.700
σ		0.292	1.138	0.944	0.887	0.266	1.277	0.000	1.961
%RSD		0.977	1.866	1.502	1.669	675.100	113.900	0.000	0.506

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	0.000	8.097	7.842	72.657%	0.030	0.009	0.109	0.145
2	03:38:56	0.000	8.616	8.220	75.074%	0.033	0.006	0.067	0.121
3	03:39:39	0.000	8.626	8.629	75.728%	0.023	0.018	0.095	0.086
x		0.000	8.446	8.230	74.487%	0.029	0.011	0.090	0.117
σ		0.000	0.302	0.394	1.617%	0.005	0.006	0.021	0.030
%RSD		0.000	3.579	4.786	2.171	17.900	57.790	23.740	25.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	73.533%	0.105	0.016	-0.015	87.140	86.500	75.823%	76.154%
2	03:38:56	75.612%	0.157	0.016	0.008	89.220	86.480	79.188%	79.262%
3	03:39:39	76.936%	0.121	0.013	0.016	88.560	84.580	80.613%	79.978%
x		75.360%	0.127	0.015	0.003	88.310	85.850	78.541%	78.465%
σ		1.715%	0.027	0.002	0.016	1.064	1.105	2.459%	2.033%
%RSD		2.276	20.950	12.190	524.800	1.205	1.288	3.131	2.591

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:38:13	0.137	0.163	114.600	119.300	118.600	71.227%
2	03:38:56	0.147	0.167	115.700	118.700	118.500	72.936%
3	03:39:39	0.162	0.179	115.800	118.400	118.400	74.250%
x		0.149	0.170	115.400	118.800	118.500	72.804%
σ		0.012	0.008	0.646	0.427	0.121	1.515%
%RSD		8.274	4.834	0.560	0.360	0.102	2.081

CCV 781130 4/13/2013 3:45:45 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	72.246%	104.100	98.860	98.840	0.000	51550.000	52480.000	52940.000
2	03:47:11	73.056%	99.400	104.900	98.510	0.000	51670.000	52350.000	52970.000
3	03:47:54	73.238%	99.320	96.010	98.780	0.000	50800.000	51590.000	52140.000
x		72.847%	100.945%	99.929%	98.709%	0.000	102.681%	104.273%	105.369%
σ		0.528%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.725	2.725	4.547	0.180	0.000	0.918	0.919	0.895

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	528.900	5097.000	0.000	53850.000	50900.000	49740.000	72.344%	101.600
2	03:47:11	531.100	5087.000	0.000	53600.000	51530.000	49810.000	72.756%	103.000
3	03:47:54	524.200	5043.000	0.000	53150.000	49960.000	49740.000	72.915%	101.700
x		105.617%	101.516%	0.000	107.073%	101.596%	99.528%	72.672%	102.066%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.295%	n/a
%RSD		0.669	0.563	0.000	0.660	1.556	0.083	0.406	0.775

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	102.100	103.700	513.400	26930.000	25780.000	104.400	105.500	106.500
2	03:47:11	103.400	102.100	513.100	26680.000	25710.000	104.900	105.000	105.800
3	03:47:54	102.800	102.600	512.500	26600.000	25760.000	103.800	103.500	103.600
x		102.765%	102.771%	102.596%	106.941%	102.998%	104.379%	104.669%	105.267%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.602	0.790	0.091	0.636	0.130	0.488	1.021	1.448

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	107.000	97.870	100.900	103.000	101.600	101.900	0.000	106.100
2	03:47:11	108.200	101.100	98.220	104.500	101.400	105.200	0.000	106.700
3	03:47:54	105.000	100.100	101.400	102.400	104.000	103.400	0.000	105.700
x		106.730%	99.679%	100.155%	103.307%	102.317%	103.480%	0.000	106.157%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.486	1.643	1.691	1.066	1.399	1.603	0.000	0.498

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	69.612%	104.900	105.200	68.179%	107.100	105.900	103.300	104.000
2	03:47:11	69.986%	108.200	107.600	69.322%	105.700	106.500	106.600	105.200
3	03:47:54	71.069%	107.800	107.200	69.667%	106.700	107.500	106.200	106.900
x		70.222%	106.976%	106.682%	69.056%	106.505%	106.639%	105.383%	105.371%
σ		0.757%	n/a	n/a	0.779%	n/a	n/a	n/a	n/a
%RSD		1.078	1.723	1.204	1.128	0.649	0.729	1.730	1.376

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	69.491%	103.500	103.200	102.800	107.900	105.800	72.236%	72.201%
2	03:47:11	70.274%	104.700	104.300	104.100	106.400	105.200	73.217%	73.512%
3	03:47:54	70.298%	105.300	104.200	104.900	107.700	106.900	73.408%	74.118%
x		70.021%	104.509%	103.893%	103.956%	107.332%	105.973%	72.954%	73.277%
σ		0.459%	n/a	n/a	n/a	n/a	n/a	0.629%	0.980%
%RSD		0.656	0.873	0.574	1.013	0.726	0.840	0.862	1.337

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:46:28	107.000	107.400	107.300	108.300	107.600	65.793%
2	03:47:11	106.800	106.700	106.500	107.300	107.500	67.920%
3	03:47:54	106.600	105.900	106.500	106.600	107.000	68.726%
x		106.801%	106.649%	106.757%	107.385%	107.379%	67.480%
σ		n/a	n/a	n/a	n/a	n/a	1.515%
%RSD		0.171	0.700	0.464	0.758	0.313	2.246

CCB9 4/13/2013 3:54:01 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	85.822%	0.002	0.489	0.796	0.000	-0.487	10.380	12.800
2	03:55:27	89.891%	-0.015	0.355	0.878	0.000	1.941	16.600	16.630
3	03:56:10	87.707%	0.001	1.432	0.632	0.000	14.690	17.360	19.210
x		87.807%	-0.004	0.759	0.769	0.000	5.382	14.780	16.210
σ		2.036%	0.010	0.587	0.125	0.000	8.154	3.830	3.226
%RSD		2.319	244.100	77.360	16.270	0.000	151.500	25.910	19.900

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	1.182	-183.600	0.000	-37.700	13.730	-27.620	89.709%	0.131
2	03:55:27	1.489	-187.600	0.000	-31.450	16.200	-23.600	91.112%	0.071
3	03:56:10	2.001	-171.000	0.000	-29.070	28.060	-24.950	90.220%	0.130
x		1.557	-180.700	0.000	-32.740	19.330	-25.390	90.347%	0.111
σ		0.413	8.631	0.000	4.456	7.661	2.047	0.710%	0.034
%RSD		26.540	4.776	0.000	13.610	39.640	8.060	0.786	30.930

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	0.015	0.145	0.358	5.739	9.645	0.033	-0.003	-0.109
2	03:55:27	0.031	0.122	0.564	7.884	13.500	0.014	0.067	-0.051
3	03:56:10	0.027	0.095	0.637	9.121	8.077	0.019	0.051	-0.087
x		0.024	0.121	0.520	7.581	10.410	0.022	0.038	-0.082
σ		0.008	0.025	0.145	1.711	2.793	0.010	0.037	0.029
%RSD		34.250	20.880	27.820	22.570	26.830	44.130	95.340	35.460

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	-0.060	-1.118	-0.901	-0.150	-1.016	-0.937	0.000	0.049
2	03:55:27	-0.048	-1.157	-1.072	-0.165	-1.039	-1.055	0.000	0.073
3	03:56:10	-0.014	-0.963	-0.724	-0.109	-0.480	-0.814	0.000	0.081
x		-0.041	-1.079	-0.899	-0.141	-0.845	-0.935	0.000	0.068
σ		0.024	0.102	0.174	0.029	0.316	0.121	0.000	0.017
%RSD		59.400	9.490	19.400	20.560	37.420	12.890	0.000	25.030

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	78.758%	0.216	0.264	90.041%	0.017	0.004	0.081	0.088
2	03:55:27	80.915%	0.196	0.305	92.263%	0.018	0.010	-0.009	0.024
3	03:56:10	79.887%	0.212	0.174	90.822%	0.014	0.027	-0.026	-0.010
x		79.853%	0.208	0.248	91.042%	0.016	0.014	0.015	0.034
σ		1.079%	0.011	0.067	1.127%	0.002	0.012	0.057	0.050
%RSD		1.351	5.153	27.010	1.238	11.180	85.920	380.000	147.700

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	84.355%	0.083	0.004	-0.014	0.056	0.060	83.547%	83.455%
2	03:55:27	87.185%	0.102	0.036	0.001	0.077	0.051	85.964%	86.532%
3	03:56:10	86.596%	0.078	0.024	-0.015	0.112	0.065	85.450%	85.511%
x		86.045%	0.088	0.021	-0.009	0.082	0.059	84.987%	85.166%
σ		1.493%	0.013	0.016	0.009	0.028	0.007	1.273%	1.567%
%RSD		1.735	14.510	76.560	96.950	34.530	11.810	1.498	1.840

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:44	0.044	0.050	0.012	0.025	0.023	77.473%
2	03:55:27	0.060	0.051	0.035	0.039	0.045	80.688%
3	03:56:10	0.048	0.037	0.044	0.056	0.042	79.416%
x		0.051	0.046	0.030	0.040	0.037	79.192%
σ		0.009	0.008	0.017	0.015	0.012	1.619%
%RSD		17.000	17.390	54.340	38.410	32.310	2.045

240-22274-B-33-A@10 4/13/2013 4:02:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	70.412%	0.631	1.783	1.947	0.000	96.790	1344.000	1384.000
2	04:03:45	69.926%	0.520	2.511	2.051	0.000	105.300	1385.000	1375.000
3	04:04:28	69.556%	0.816	2.223	2.045	0.000	110.000	1364.000	1385.000
x		69.965%	0.656	2.172	2.014	0.000	104.000	1364.000	1381.000
σ		0.429%	0.150	0.367	0.059	0.000	6.699	20.700	5.282
%RSD		0.613	22.850	16.890	2.910	0.000	6.439	1.517	0.382

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	10650.000	419.700	0.000	511.100	626.900	544.400	73.546%	85.520
2	04:03:45	10620.000	411.400	0.000	511.500	653.300	524.200	72.571%	83.040
3	04:04:28	10520.000	415.800	0.000	504.500	627.100	539.300	72.276%	85.170
x		10600.000	415.700	0.000	509.100	635.800	536.000	72.798%	84.580
σ		71.180	4.127	0.000	3.911	15.170	10.530	0.665%	1.342
%RSD		0.672	0.993	0.000	0.768	2.386	1.964	0.914	1.587

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	21.740	10.980	2431.000	18510.000	17340.000	12.840	10.410	4.956
2	04:03:45	21.520	11.410	2438.000	18510.000	17610.000	13.100	10.310	5.260
3	04:04:28	21.810	11.470	2411.000	18350.000	17360.000	12.940	10.250	4.837
x		21.690	11.290	2426.000	18450.000	17440.000	12.960	10.320	5.018
σ		0.148	0.265	13.760	92.150	149.700	0.131	0.078	0.218
%RSD		0.683	2.349	0.567	0.499	0.858	1.008	0.758	4.339

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	5.030	34.830	36.250	5.751	0.018	0.484	0.000	6.020
2	04:03:45	5.397	36.540	35.630	5.829	-0.501	0.492	0.000	6.012
3	04:04:28	5.370	33.580	34.480	5.866	0.057	0.689	0.000	6.103
x		5.266	34.980	35.450	5.815	-0.142	0.555	0.000	6.045
σ		0.205	1.485	0.901	0.059	0.312	0.116	0.000	0.051
%RSD		3.891	4.244	2.541	1.013	219.200	20.970	0.000	0.841

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	0.000	1.218	0.973	73.515%	0.047	0.034	0.223	0.184
2	04:03:45	0.000	0.978	0.925	73.416%	0.052	0.042	0.186	0.211
3	04:04:28	0.000	0.951	0.931	73.962%	0.041	0.039	0.206	0.186
x		0.000	1.049	0.943	73.631%	0.047	0.038	0.205	0.194
σ		0.000	0.147	0.026	0.291%	0.005	0.004	0.019	0.015
%RSD		0.000	14.030	2.793	0.395	10.990	9.859	9.065	7.714

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	73.939%	0.196	-0.002	-0.003	126.600	127.000	74.872%	74.616%
2	04:03:45	74.459%	0.187	-0.002	0.019	125.300	123.600	76.331%	76.242%
3	04:04:28	74.980%	0.101	-0.005	0.006	126.600	127.500	76.708%	76.890%
x		74.459%	0.161	-0.003	0.007	126.100	126.000	75.971%	75.916%
σ		0.521%	0.053	0.002	0.011	0.761	2.132	0.970%	1.172%
%RSD		0.699	32.530	54.050	147.200	0.604	1.692	1.277	1.543

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:02	0.150	0.165	14.140	14.000	14.180	71.342%
2	04:03:45	0.160	0.181	14.470	13.960	14.300	71.007%
3	04:04:28	0.187	0.171	14.260	14.200	14.250	72.093%
x		0.166	0.172	14.290	14.050	14.240	71.480%
σ		0.019	0.008	0.168	0.131	0.060	0.556%
%RSD		11.730	4.799	1.178	0.930	0.420	0.778

240-22274-B-34-C@10 4/13/2013 4:10:35 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	68.121%	0.774	3.113	3.789	0.000	108.900	2498.000	2522.000
2	04:12:01	68.868%	0.488	3.172	3.549	0.000	105.600	2475.000	2513.000
3	04:12:44	69.977%	0.792	3.316	3.759	0.000	107.300	2436.000	2450.000
x		68.989%	0.685	3.200	3.699	0.000	107.300	2470.000	2495.000
σ		0.933%	0.170	0.105	0.131	0.000	1.642	31.780	39.100
%RSD		1.353	24.880	3.266	3.538	0.000	1.531	1.287	1.567

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	13220.000	460.800	0.000	745.300	3081.000	2914.000	71.812%	119.900
2	04:12:01	13090.000	454.000	0.000	751.000	2842.000	2894.000	72.688%	117.700
3	04:12:44	12820.000	424.800	0.000	735.600	2982.000	2855.000	72.898%	120.200
x		13040.000	446.500	0.000	744.000	2968.000	2887.000	72.466%	119.200
σ		208.200	19.150	0.000	7.814	120.000	30.000	0.576%	1.359
%RSD		1.596	4.290	0.000	1.050	4.041	1.039	0.795	1.140

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	24.750	15.280	5564.000	25440.000	23880.000	9.851	27.900	17.050
2	04:12:01	24.250	15.200	5513.000	25200.000	23870.000	10.080	26.160	17.110
3	04:12:44	24.020	15.080	5438.000	24800.000	23420.000	9.656	26.190	17.330
x		24.340	15.190	5505.000	25140.000	23720.000	9.863	26.750	17.160
σ		0.373	0.103	63.130	324.100	262.300	0.212	0.995	0.147
%RSD		1.533	0.680	1.147	1.289	1.106	2.152	3.720	0.858

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	17.330	51.970	52.590	11.410	-0.396	2.285	0.000	15.510
2	04:12:01	17.940	51.040	51.950	10.750	0.086	1.974	0.000	15.670
3	04:12:44	17.020	52.000	52.440	10.390	-0.500	0.249	0.000	15.390
x		17.430	51.670	52.330	10.850	-0.270	1.503	0.000	15.520
σ		0.468	0.549	0.333	0.519	0.313	1.097	0.000	0.140
%RSD		2.682	1.063	0.637	4.783	115.800	73.000	0.000	0.898

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	0.000	1.383	1.294	72.274%	0.031	0.009	0.018	0.041
2	04:12:01	0.000	1.432	1.389	73.337%	0.018	0.039	0.217	0.229
3	04:12:44	0.000	1.405	1.310	74.448%	0.014	0.028	0.135	0.121
x		0.000	1.407	1.331	73.353%	0.021	0.025	0.123	0.130
σ		0.000	0.024	0.051	1.087%	0.009	0.015	0.100	0.094
%RSD		0.000	1.737	3.824	1.483	41.750	59.350	80.970	72.570

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	72.161%	0.188	0.027	-0.005	168.600	166.200	74.314%	74.304%
2	04:12:01	74.145%	0.251	0.015	0.003	165.200	165.400	75.989%	76.372%
3	04:12:44	76.232%	0.148	0.014	0.017	163.600	162.900	78.203%	78.065%
x		74.179%	0.196	0.019	0.005	165.800	164.800	76.169%	76.247%
σ		2.035%	0.052	0.007	0.011	2.558	1.706	1.951%	1.884%
%RSD		2.744	26.460	39.410	213.300	1.543	1.035	2.561	2.470

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:18	0.182	0.171	15.640	15.470	15.440	70.198%
2	04:12:01	0.146	0.170	15.690	15.380	15.520	71.258%
3	04:12:44	0.136	0.163	15.450	15.130	15.290	72.459%
x		0.155	0.168	15.590	15.330	15.410	71.305%
σ		0.024	0.004	0.126	0.175	0.119	1.131%
%RSD		15.610	2.610	0.810	1.139	0.770	1.587

CRI 787357 4/13/2013 4:18:49 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	78.262%	1.010	4.031	4.549	0.000	121.400	94.810	98.120
2	04:20:15	80.387%	0.761	3.373	4.233	0.000	115.900	92.240	92.930
3	04:20:58	80.597%	0.639	5.590	4.495	0.000	116.300	97.490	99.540
x		79.749%	80.311%	86.631%	88.515%	0.000	117.862%	94.848%	96.861%
σ		1.292%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.620	23.590	26.290	3.817	0.000	2.589	2.771	3.594

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	33.680	387.300	0.000	87.880	96.270	84.850	71.144%	5.616
2	04:20:15	32.200	365.000	0.000	81.500	87.650	62.100	72.062%	5.042
3	04:20:58	32.770	355.100	0.000	80.530	166.000	79.150	72.417%	5.482
x		109.617%	73.831%	0.000	83.303%	116.652%	75.368%	71.874%	107.594%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.657%	n/a
%RSD		2.281	4.475	0.000	4.792	36.850	15.700	0.914	5.584

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	0.976	2.156	5.250	75.140	47.420	0.576	1.294	2.109
2	04:20:15	1.282	2.340	5.323	73.380	53.010	0.457	1.020	1.990
3	04:20:58	1.021	2.198	5.707	74.860	57.850	0.472	1.149	1.987
x		109.319%	111.565%	1085.321%	148.918%	105.521%	100.338%	115.437%	101.424%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		15.100	4.325	4.526	1.273	9.889	12.880	11.870	3.435

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	2.034	4.010	3.968	1.201	4.465	5.675	0.000	5.031
2	04:20:15	2.273	3.917	3.936	1.447	3.878	6.097	0.000	5.003
3	04:20:58	2.074	4.202	3.808	0.878	4.477	5.360	0.000	4.939
x		106.334%	80.857%	78.081%	117.531%	85.466%	114.216%	0.000	99.818%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		6.015	3.585	2.177	24.290	8.018	6.473	0.000	0.946

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	73.248%	4.608	4.864	72.997%	0.938	1.050	0.873	0.945
2	04:20:15	74.455%	5.012	4.772	74.262%	1.105	0.962	0.996	0.930
3	04:20:58	74.165%	5.182	4.756	74.020%	1.042	1.053	1.096	1.106
x		73.956%	98.678%	95.947%	73.760%	102.843%	102.178%	98.843%	99.354%
σ		0.630%	n/a	n/a	0.671%	n/a	n/a	n/a	n/a
%RSD		0.852	5.971	1.209	0.910	8.210	5.058	11.340	9.813

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	73.373%	5.352	1.964	1.960	10.900	10.170	74.635%	74.832%
2	04:20:15	74.200%	5.226	1.997	1.928	10.480	10.230	76.850%	76.399%
3	04:20:58	74.810%	5.552	1.991	1.903	10.490	10.400	77.328%	76.557%
x		74.127%	107.541%	99.196%	96.498%	106.244%	102.652%	76.271%	75.929%
σ		0.721%	n/a	n/a	n/a	n/a	n/a	1.437%	0.953%
%RSD		0.973	3.058	0.872	1.473	2.278	1.150	1.884	1.256

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:19:32	1.121	0.978	1.077	0.988	1.046	70.264%
2	04:20:15	1.048	1.033	0.994	1.095	1.070	71.299%
3	04:20:58	0.988	1.003	1.032	1.097	1.031	71.661%
x		105.255%	100.453%	103.410%	106.010%	104.891%	71.074%
σ		n/a	n/a	n/a	n/a	n/a	0.725%
%RSD		6.328	2.758	3.985	5.868	1.891	1.020

CRI 787357 4/13/2013 4:27:04 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	79.902%	0.660	5.092	4.246	0.000	105.800	96.990	96.470
2	04:28:30	80.921%	0.908	4.139	4.210	0.000	110.500	97.130	96.070
3	04:29:13	82.813%	0.871	4.385	3.986	0.000	104.200	97.680	94.850
x		81.212%	81.304%	90.774%	82.954%	0.000	106.813%	97.267%	95.796%
σ		1.477%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.819	16.410	10.900	3.399	0.000	3.079	0.374	0.881

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	32.260	335.900	0.000	73.660	114.300	77.170	73.386%	4.817
2	04:28:30	31.970	331.400	0.000	72.510	57.640	65.310	73.379%	5.129
3	04:29:13	34.060	333.800	0.000	74.220	121.200	76.530	73.406%	5.478
x		109.212%	66.746%	0.000	73.466%	97.709%	73.004%	73.390%	102.825%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.014%	n/a
%RSD		3.449	0.675	0.000	1.185	35.680	9.137	0.019	6.440

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	0.796	2.154	5.418	72.430	53.020	0.476	1.274	2.016
2	04:28:30	0.859	2.272	5.403	72.580	55.330	0.482	1.036	2.089
3	04:29:13	1.002	2.279	5.848	74.400	55.450	0.475	1.143	1.821
x		88.582%	111.756%	1111.284%	146.272%	109.199%	95.539%	115.125%	98.762%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		11.880	3.128	4.552	1.498	2.508	0.785	10.360	7.024

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	1.939	3.146	3.906	1.280	4.179	5.506	0.000	4.915
2	04:28:30	1.983	3.587	3.919	0.749	4.658	3.415	0.000	4.840
3	04:29:13	2.092	3.697	3.753	1.201	4.662	5.958	0.000	4.978
x		100.225%	69.531%	77.185%	107.635%	89.990%	99.194%	0.000	98.223%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.921	8.392	2.400	26.630	6.172	27.350	0.000	1.402

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	73.285%	5.025	4.850	72.122%	0.998	1.020	1.000	1.037
2	04:28:30	74.908%	4.970	4.854	72.994%	1.104	1.073	1.151	1.052
3	04:29:13	74.999%	4.642	5.026	73.729%	1.084	0.984	1.013	1.088
x		74.397%	97.580%	98.201%	72.949%	106.191%	102.581%	105.466%	105.884%
σ		0.964%	n/a	n/a	0.805%	n/a	n/a	n/a	n/a
%RSD		1.296	4.241	2.045	1.103	5.313	4.386	7.966	2.476

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	72.361%	5.210	2.124	2.066	10.920	10.320	73.436%	73.893%
2	04:28:30	73.732%	5.348	2.043	2.039	10.470	10.170	74.943%	75.292%
3	04:29:13	74.132%	5.289	1.914	1.869	10.670	10.690	76.128%	75.542%
x		73.408%	105.654%	101.331%	99.572%	106.830%	103.925%	74.836%	74.909%
σ		0.929%	n/a	n/a	n/a	n/a	n/a	1.349%	0.889%
%RSD		1.265	1.313	5.221	5.354	2.122	2.546	1.802	1.186

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:27:47	1.070	1.008	1.116	1.040	1.075	68.844%
2	04:28:30	0.932	1.034	0.980	1.016	1.020	70.565%
3	04:29:13	0.960	0.994	0.991	1.041	1.037	71.340%
x		98.757%	101.200%	102.885%	103.247%	104.393%	70.250%
σ		n/a	n/a	n/a	n/a	n/a	1.278%
%RSD		7.386	2.027	7.314	1.373	2.697	1.819

CCV 781130 4/13/2013 4:35:19 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	72.876%	99.590	98.540	95.470	0.000	51360.000	52140.000	52940.000
2	04:36:45	71.897%	103.200	97.990	99.820	0.000	52240.000	53260.000	53330.000
3	04:37:28	72.896%	102.500	102.500	96.900	0.000	50980.000	51740.000	52050.000
x		72.557%	101.761%	99.668%	97.399%	0.000	103.052%	104.762%	105.540%
σ		0.571%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.787	1.878	2.446	2.278	0.000	1.263	1.504	1.240

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	529.000	5048.000	0.000	53940.000	50710.000	49290.000	73.254%	100.400
2	04:36:45	537.000	5085.000	0.000	53730.000	51380.000	49600.000	73.900%	103.800
3	04:37:28	527.400	4983.000	0.000	52600.000	51010.000	48990.000	73.590%	100.700
x		106.225%	100.772%	0.000	106.847%	102.072%	98.585%	73.581%	101.641%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.323%	n/a
%RSD		0.973	1.024	0.000	1.346	0.657	0.614	0.439	1.844

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	101.100	101.100	508.800	26720.000	25390.000	103.600	104.300	103.900
2	04:36:45	102.100	102.400	508.000	26590.000	25460.000	104.400	102.900	102.800
3	04:37:28	101.400	101.400	504.600	26010.000	25130.000	102.100	102.900	100.500
x		101.521%	101.646%	101.431%	105.762%	101.312%	103.371%	103.380%	102.419%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.514	0.634	0.440	1.417	0.687	1.146	0.768	1.673

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	104.600	97.740	97.670	100.300	97.170	97.920	0.000	102.700
2	04:36:45	102.800	98.410	99.680	100.800	99.850	102.600	0.000	104.200
3	04:37:28	101.400	97.930	95.750	97.020	97.420	99.360	0.000	102.100
x		102.925%	98.028%	97.698%	99.365%	98.147%	99.961%	0.000	103.015%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.579	0.353	2.008	2.059	1.509	2.393	0.000	1.058

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	71.282%	101.900	100.300	70.277%	104.500	103.100	105.100	104.800
2	04:36:45	72.173%	107.100	105.800	70.759%	105.000	106.300	105.800	105.800
3	04:37:28	72.652%	105.300	104.100	71.506%	103.000	103.900	102.700	103.200
x		72.035%	104.753%	103.412%	70.847%	104.150%	104.424%	104.530%	104.617%
σ		0.695%	n/a	n/a	0.620%	n/a	n/a	n/a	n/a
%RSD		0.965	2.529	2.717	0.875	1.018	1.560	1.536	1.262

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	68.959%	104.300	103.000	103.500	106.800	106.400	71.698%	72.050%
2	04:36:45	70.325%	104.600	103.000	104.500	105.400	107.900	72.838%	73.343%
3	04:37:28	71.886%	102.300	102.400	102.700	106.000	106.500	74.915%	74.275%
x		70.390%	103.732%	102.796%	103.536%	106.086%	106.947%	73.150%	73.223%
σ		1.464%	n/a	n/a	n/a	n/a	n/a	1.631%	1.118%
%RSD		2.080	1.180	0.319	0.870	0.678	0.809	2.229	1.526

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:02	106.100	106.200	106.500	105.800	106.400	65.940%
2	04:36:45	107.200	108.000	108.000	107.600	108.300	66.916%
3	04:37:28	106.800	106.600	106.800	107.800	107.500	67.463%
x		106.710%	106.905%	107.107%	107.091%	107.422%	66.773%
σ		n/a	n/a	n/a	n/a	n/a	0.772%
%RSD		0.510	0.879	0.751	1.067	0.906	1.155

CCB10 4/13/2013 4:43:35 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	87.259%	0.079	0.064	0.387	0.000	-13.400	7.638	9.497
2	04:45:01	85.394%	0.050	0.578	0.581	0.000	10.230	17.510	17.650
3	04:45:44	89.727%	0.000	0.354	0.143	0.000	-9.975	11.350	12.790
x		87.460%	0.043	0.332	0.370	0.000	-4.379	12.170	13.310
σ		2.174%	0.040	0.258	0.219	0.000	12.770	4.987	4.101
%RSD		2.485	92.930	77.730	59.230	0.000	291.600	41.000	30.800

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	-0.000	-220.700	0.000	-39.100	13.600	-33.830	90.150%	0.159
2	04:45:01	0.448	-192.900	0.000	-24.490	19.550	-30.960	89.765%	0.015
3	04:45:44	0.036	-218.400	0.000	-38.900	23.990	-32.390	93.414%	0.152
x		0.161	-210.700	0.000	-34.160	19.050	-32.390	91.109%	0.109
σ		0.249	15.420	0.000	8.381	5.216	1.433	2.005%	0.081
%RSD		154.400	7.321	0.000	24.530	27.390	4.423	2.201	74.710

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	-0.018	0.073	0.108	1.101	2.804	-0.003	0.015	-0.098
2	04:45:01	0.009	0.075	0.360	3.866	6.970	0.021	-0.031	-0.097
3	04:45:44	0.020	0.104	0.222	0.701	5.105	0.024	0.025	-0.122
x		0.004	0.084	0.230	1.890	4.960	0.014	0.003	-0.106
σ		0.019	0.017	0.126	1.724	2.087	0.015	0.030	0.014
%RSD		514.100	20.550	54.890	91.220	42.080	103.400	1014.000	13.630

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	-0.037	-1.089	-0.961	-0.450	-0.826	-2.314	0.000	0.016
2	04:45:01	-0.085	-0.988	-1.013	-0.053	-0.720	0.095	0.000	0.047
3	04:45:44	-0.036	-1.090	-1.107	-0.097	-1.363	-0.479	0.000	0.049
x		-0.052	-1.056	-1.027	-0.200	-0.970	-0.900	0.000	0.037
σ		0.028	0.059	0.074	0.218	0.345	1.258	0.000	0.019
%RSD		53.510	5.547	7.209	108.800	35.540	139.900	0.000	49.910

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	78.950%	0.144	0.158	88.165%	0.022	-0.008	-0.047	-0.037
2	04:45:01	78.993%	0.106	0.249	88.671%	0.013	0.014	-0.026	0.014
3	04:45:44	82.462%	0.133	0.148	91.957%	0.018	0.015	-0.006	0.042
x		80.135%	0.128	0.185	89.598%	0.018	0.007	-0.026	0.007
σ		2.015%	0.019	0.055	2.059%	0.004	0.013	0.021	0.040
%RSD		2.515	15.230	29.980	2.298	24.100	195.200	79.060	597.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	82.143%	0.044	-0.004	-0.022	0.022	0.034	82.210%	82.809%
2	04:45:01	82.557%	0.086	0.003	0.018	0.081	0.054	84.021%	83.827%
3	04:45:44	85.660%	0.041	0.001	-0.001	0.008	0.038	87.310%	86.860%
x		83.454%	0.057	-0.000	-0.002	0.037	0.042	84.514%	84.499%
σ		1.922%	0.025	0.003	0.020	0.039	0.010	2.585%	2.107%
%RSD		2.303	43.950	1601.000	1224.000	105.100	24.770	3.059	2.493

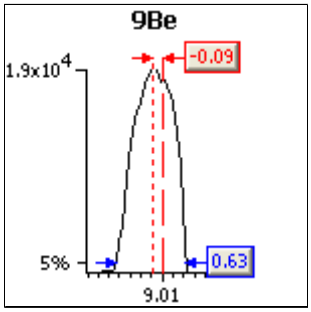
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:18	0.035	0.032	0.023	0.032	0.015	76.285%
2	04:45:01	0.041	0.058	0.023	0.021	0.031	77.720%
3	04:45:44	0.021	0.027	0.026	0.031	0.028	79.981%
x		0.032	0.039	0.024	0.028	0.025	77.995%
σ		0.010	0.016	0.002	0.006	0.008	1.863%
%RSD		31.170	42.460	7.638	21.560	34.360	2.389

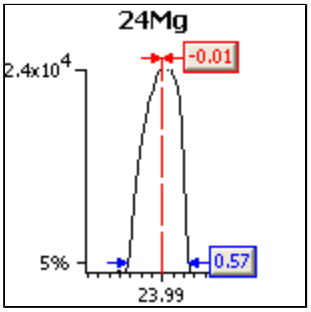
Performance Report

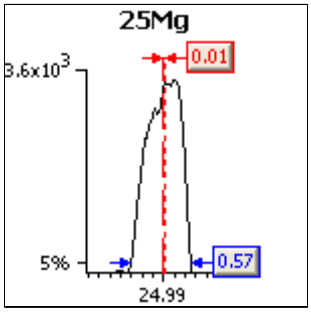
Sample details
Sample name : ITUNE
Acquired at : 4/12/2013 12:07:28 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

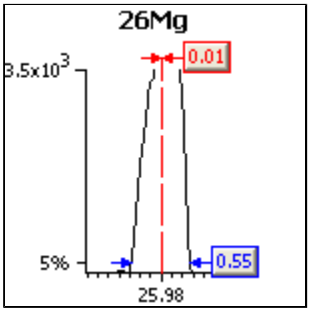
Mass Calibration verification

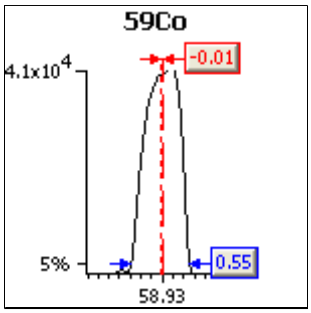
Acquisition parameters
Sweeps : 25
Dwell : 2.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum

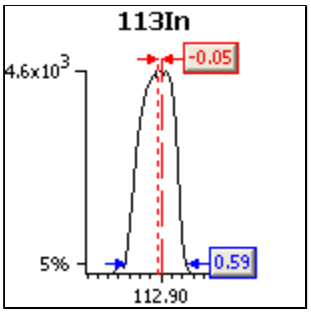


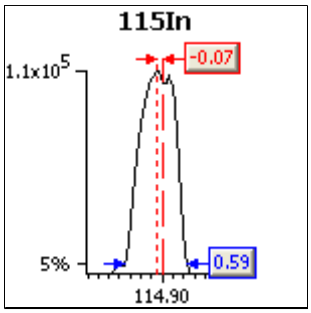


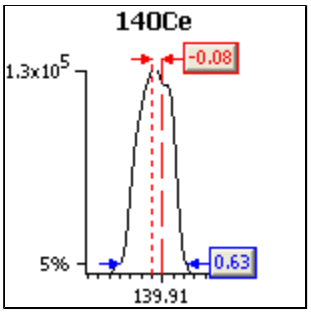


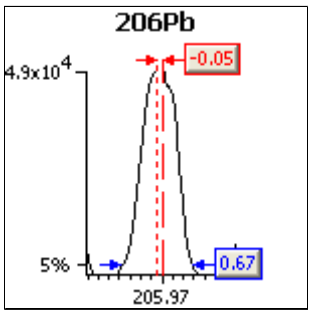


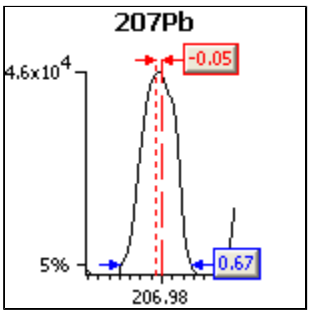


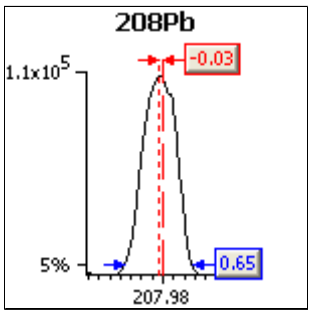












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.45	0.10	0.63	-0.09
24Mg	0.90	0.45	0.10	0.57	-0.01
25Mg	0.90	0.45	0.10	0.57	0.01
26Mg	0.90	0.45	0.10	0.55	0.01
59Co	0.90	0.45	0.10	0.55	-0.01
113In	0.90	0.45	0.10	0.59	-0.05
115In	0.90	0.45	0.10	0.59	-0.07
140Ce	0.90	0.45	0.10	0.63	-0.08
206Pb	0.90	0.45	0.10	0.67	-0.05
207Pb	0.90	0.45	0.10	0.67	-0.05
208Pb	0.90	0.45	0.10	0.65	-0.03

Sample details
Sample name : ITUNE
Acquired at : 4/12/2013 12:07:28 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

Tune conditions

Major	
Extraction	-251
Lens 1	1.2
Focus	23.9
D1	-42.4
Pole Bias	3.0
Hexapole Bias	-3.0
Nebuliser	0.84
Sampling Depth	150

Minor	
Lens 2	-29.0
Lens 3	-198.4
Forward power	1302
Horizontal	86
Vertical	282
D2	-160
DA	-80.0
Cool	18.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
He/H2	0.00
He/NH3	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>5000	-
1	12:08:16 PM	0	19912	26636	3556	4112	100279	42239	1
2	12:09:41 PM	0	19711	25590	3368	3969	97573	42078	1
3	12:11:06 PM	0	19755	24957	3242	3884	95838	41994	1
4	12:12:32 PM	0	19820	26191	3569	4032	98760	42367	1
5	12:13:57 PM	0	19870	26888	3491	4064	100415	42499	1
x		0	19814	26052	3445	4012	98573	42235	1
σ		0.11	81.90	786.22	138.49	88.25	1924.60	206.44	0.30
%RSD		28.330	0.413	3.018	4.020	2.200	1.952	0.489	24.845

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	12:08:16 PM	11	0	4127	100895	771	119559	1330	52620
2	12:09:41 PM	8	0	4276	102014	767	119134	1326	52759
3	12:11:06 PM	10	0	4306	100968	673	119585	1316	53034
4	12:12:32 PM	10	0	4228	101203	691	120607	1335	52923
5	12:13:57 PM	8	0	4285	101734	765	121078	1311	53358
x		10	0	4244	101363	733	119993	1324	52939
σ		1.08	0.14	71.41	490.50	47.17	813.63	10.15	282.22
%RSD		11.374	73.193	1.683	0.484	6.432	0.678	0.767	0.533

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	12:08:16 PM	46656	112423	0
2	12:09:41 PM	46903	112621	0
3	12:11:06 PM	46620	112937	0
4	12:12:32 PM	46860	113853	0
5	12:13:57 PM	47292	114142	0
x		46866	113195	0
σ		267.87	761.57	0.06
%RSD		0.572	0.673	69.722

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0500
1	12:08:16 PM	0
2	12:09:41 PM	0

3	12:11:06 PM	0
4	12:12:32 PM	0
5	12:13:57 PM	0
x		0.0110
σ		0.00
%RSD		1.1470

Result : The performance report passed.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79493 Batch Start Date: 03/26/13 14:25 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 03/26/13 14:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00477	MTHGCALW 00338	MTKMN04W 00040	AnalysisComment
MB 240-79493/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-79493/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22274-C-3	079SD-0305-0001-0002-SD	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-3 DU	079SD-0305-0001-0002-SD	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22274-C-3 MS	079SD-0305-0001-0002-SD	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL	1 mL	15 mL	
240-22274-E-2	079SD-0309-0001-SD	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-4	079SD-0306-0001-SD	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-5	079SD-0307-0001-SD	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-6	079SD-0310-0001-SD	7471A, 7471/DOD	T	0.51 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-14	079SS-0294-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-15	079SS-0295-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22274-C-23	079SS-0265-0001-SO	7471A, 7471/DOD	T	0.51 g	100 mL	5 mL		15 mL	
240-22274-C-24	079SS-0266-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22274-C-32	079SS-0232-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22274-C-33	079SS-0233-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79493 Batch Start Date: 03/26/13 14:25 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 03/26/13 14:55

Batch Notes	
Balance ID	b039
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79547 Batch Start Date: 03/26/13 16:20 Batch Analyst: Toth, Roger

Batch Method: 7471A Batch End Date: 03/26/13 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00478	MTHGCALW 00339	MTHgStd 00009	MTKMN04W 00040
ICV 240-79547/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-79547/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-79547/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-79547/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-79547/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383364 383366
Digestion Tube/Cup Lot #	122612

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79782 Batch Start Date: 03/28/13 15:10 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 03/28/13 15:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00481	MTHGCALW 00341	MTKMN04W 00040	
MB 240-79782/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-79782/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22274-B-7-A	079SB-0287M-0001-SB	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22274-B-8-A	079SB-0288M-0001-SB	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22274-B-9-A	079SB-0289M-0001-SB	7471A, 7471/DOD	T	0.66 g	100 mL	5 mL		15 mL	
240-22274-B-10-A	079SB-0290M-0001-SB	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	
240-22274-B-11-A	079SB-0291M-0001-SB	7471A, 7471/DOD	T	0.52 g	100 mL	5 mL		15 mL	
240-22274-B-12-A	079SB-0292M-0001-SO	7471A, 7471/DOD	T	0.59 g	100 mL	5 mL		15 mL	
240-22274-B-13-A	079SB-0293M-0001-SO	7471A, 7471/DOD	T	0.64 g	100 mL	5 mL		15 mL	
240-22274-B-16-A	079SB-0256M-0001-SO	7471A, 7471/DOD	T	0.70 g	100 mL	5 mL		15 mL	
240-22274-B-17-A	079SB-0258M-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	
240-22274-B-18-A	079SB-0260M-0001-SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22274-B-19-A	079SB-0261M-0001-SO	7471A, 7471/DOD	T	0.58 g	100 mL	5 mL		15 mL	
240-22274-B-20-A	079SB-0262M-0001-SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22274-B-21-A	079SB-0263M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b038
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 79941 Batch Start Date: 03/29/13 14:30 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 03/29/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00482	MTHGCALW 00342	MTKMN04W 00040	
MB 240-79941/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-79941/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22274-B-22-A	079SB-0264M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22274-B-22-A DU	079SB-0264M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22274-B-22-A MS	079SB-0264M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL	1 mL	15 mL	
240-22274-B-25-A	079SB-0224M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22274-B-26-A	079SB-0225M-0001-SO	7471A, 7471/DOD	T	0.59 g	100 mL	5 mL		15 mL	
240-22274-B-27-A	079SB-0227M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22274-B-28-A	079SB-0228M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22274-B-29-A	079SB-0229M-0001-SO	7471A, 7471/DOD	T	0.52 g	100 mL	5 mL		15 mL	
240-22274-B-30-A	079SB-0230M-0001-SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22274-B-31-A	079SB-0231M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22274-B-34-A	079SS-0320M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22274-B-35-A	079SS-0321M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80224 Batch Start Date: 04/02/13 09:25 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/02/13 09:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00484	MTHGCALW 00345	MTHgStd 00009	MTKMN04W 00040
ICV 240-80224/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-80224/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-80224/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-80224/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-80224/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383366-383364-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Batch Number: 67960 Batch Start Date: 04/02/13 08:40 Batch Analyst: Ferguson, Caitlin N

Batch Method: 3050B Batch End Date: 04/02/13 12:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
MB 180-67960/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.03 g	100 mL			
LCS 180-67960/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.12 g	100 mL	1 mL	1 mL	1 mL
240-22274-G-2	079SD-0309-0001-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22274-E-3	079SD-0305-0001-0002-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.17 g	100 mL			
240-22274-A-3 DU	079SD-0305-0001-0002-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.21 g	100 mL			
240-22274-A-3 MS	079SD-0305-0001-0002-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.16 g	100 mL	1 mL	1 mL	1 mL
240-22274-B-4	079SD-0306-0001-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.06 g	100 mL			
240-22274-B-5	079SD-0307-0001-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.11 g	100 mL			
240-22274-B-6	079SD-0310-0001-SD	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.09 g	100 mL			
240-22274-B-7	079SB-0287M-0001-SB	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.19 g	100 mL			
240-22274-B-8	079SB-0288M-0001-SB	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.08 g	100 mL			
240-22274-B-9	079SB-0289M-0001-SB	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.09 g	100 mL			
240-22274-B-10	079SB-0290M-0001-SB	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.10 g	100 mL			
240-22274-B-11	079SB-0291M-0001-SB	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.11 g	100 mL			
240-22274-B-12	079SB-0292M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.06 g	100 mL			
240-22274-B-13	079SB-0293M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.13 g	100 mL			
240-22274-B-14	079SS-0294-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.11 g	100 mL			
240-22274-B-15	079SS-0295-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.07 g	100 mL			
240-22274-B-16	079SB-0256M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.13 g	100 mL			
240-22274-B-17	079SB-0258M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.12 g	100 mL			
240-22274-B-18	079SB-0260M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.06 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Batch Number: 67960 Batch Start Date: 04/02/13 08:40 Batch Analyst: Ferguson, Caitlin N

Batch Method: 3050B Batch End Date: 04/02/13 12:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
240-22274-B-19	079SB-0261M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.15 g	100 mL			
240-22274-B-20	079SB-0262M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.06 g	100 mL			
240-22274-B-21	079SB-0263M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.10 g	100 mL			

Batch Notes	
Analyst	CNF
Balance ID	P1856710
Batch Comment	METALS A8
First End time	12:40
Filter Paper Lot Number	7027633A
Hydrogen peroxide lot number	10mL 762049
Logbook ID for diluted Nitric	10mL 775132
Lot # of Nitric Acid	5mL 762846
Hot Block ID number	#9
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	95 Degrees C
Pipette ID	J1201611U
Person's name who witnessed reagent drop	CNF
Perform Calculation (0=No, 1=Yes)	1
First Start time	08:40
Temperature	95 Degrees C
ID number of the thermometer	IP8 (0.0) D5
Digestion Tube/Cup Lot #	MF06LKK01 / 130102
Uncorrected Temperature	95 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Batch Number: 67996 Batch Start Date: 04/02/13 13:00 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/02/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
MB 180-67996/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.10 g	100 mL			
LCS 180-67996/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.03 g	100 mL	1 mL	1 mL	1 mL
240-22274-B-22	079SB-0264M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22274-B-22 DU	079SB-0264M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22274-B-22 MS	079SB-0264M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL	1 mL	1 mL	1 mL
240-22274-B-23	079SS-0265-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22274-B-24	079SS-0266-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22274-B-25	079SB-0224M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22274-B-26	079SB-0225M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22274-B-27	079SB-0227M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22274-B-28	079SB-0228M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22274-B-29	079SB-0229M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22274-B-30	079SB-0230M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22274-B-31	079SB-0231M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22274-B-32	079SS-0232-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22274-B-33	079SS-0233-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22274-B-34	079SS-0320M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22274-B-35	079SS-0321M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22274-1

SDG No.:

Batch Number: 67996 Batch Start Date: 04/02/13 13:00 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/02/13 15:00

Batch Notes	
Analyst	CH
Balance ID	P1856710
Batch Comment	METALS A8
Blank Soil Lot Number	130102
First End time	1500
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10ML 781343
Logbook ID for diluted Nitric	10ML 775132
Lot # of Nitric Acid	5ML 781347
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	94 Degrees C
Pipette ID	L1201611U
Perform Calculation (0=No, 1=Yes)	1
First Start time	1300
Temperature	94 Degrees C
ID number of the thermometer	IP9 (0.0) C5
Digestion Tube/Cup Lot #	MF06LKK01
Uncorrected Temperature	94 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SD-0309-0001-SD	240-22274-2
079SD-0305-0001-0002-SD	240-22274-3
079SD-0306-0001-SD	240-22274-4
079SD-0307-0001-SD	240-22274-5
079SD-0310-0001-SD	240-22274-6
079SB-0287M-0001-SB	240-22274-7
079SB-0288M-0001-SB	240-22274-8
079SB-0289M-0001-SB	240-22274-9
079SB-0290M-0001-SB	240-22274-10
079SB-0291M-0001-SB	240-22274-11
079SB-0292M-0001-SO	240-22274-12
079SB-0293M-0001-SO	240-22274-13
079SS-0294-0001-SO	240-22274-14
079SS-0295-0001-SO	240-22274-15
079SB-0256M-0001-SO	240-22274-16
079SB-0258M-0001-SO	240-22274-17
079SB-0260M-0001-SO	240-22274-18
079SB-0261M-0001-SO	240-22274-19
079SB-0262M-0001-SO	240-22274-20
079SB-0263M-0001-SO	240-22274-21
079SB-0264M-0001-SO	240-22274-22
079SS-0265-0001-SO	240-22274-23
079SS-0266-0001-SO	240-22274-24
079SB-0224M-0001-SO	240-22274-25
079SB-0225M-0001-SO	240-22274-26
079SB-0227M-0001-SO	240-22274-27
079SB-0228M-0001-SO	240-22274-28
079SB-0229M-0001-SO	240-22274-29
079SB-0230M-0001-SO	240-22274-30
079SB-0231M-0001-SO	240-22274-31
079SS-0232-0001-SO	240-22274-32
079SS-0233-0001-SO	240-22274-33
079SS-0320M-0001-SO	240-22274-34
079SS-0321M-0001-SO	240-22274-35

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-22274-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SD-0309-0001-SD	240-22274-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SD-0309-0001-SD
Lab Sample ID: 240-22274-2
Lab Name: TestAmerica Sacramento
Job No.: 240-22274-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:30
Reporting Basis: DRY
Date Received: 03/20/2013 17:27
% Solids: 73.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	2.4	6.7	2.4	1.0	mg/Kg	U		1	WS-WC-0050

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Analyst: JB Batch Start Date: 04/02/2013

Reporting Units: mg/L Analytical Batch No.: 13493

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICV	12:32	Nitrocellulose	8.44	8.40	100	90-110		WC-353.2-ICV_00021
9	ICB	12:34	Nitrocellulose	1.0				U	
22	CCV	13:01	Nitrocellulose	8.41	8.40	100	90-110		WC-353.2-L4_00015
23	CCB	13:03	Nitrocellulose	1.0				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 13493	Date: 04/02/2013 12:46	Prep Batch: 13366	Date: 04/01/2013 06:04				
WS-WC-0050	MB 320-13300/1-B	Nitrocellulose	1.8	U	mg/Kg	5.0	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 13493	Date: 04/02/2013 12:48		Prep Batch: 13366			Date: 04/01/2013 06:04					
						LCS Source: HPNCSP_00008					
WS-WC-0050	LCS 320-13300/2-B	Nitrocellulose	36.8		mg/Kg	50.6	73	34-115			

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

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 13493	Date: 04/02/2013 12:36										
						LCS Source:	WC-353.2-L1_00020				
WS-WC-0050	MRL 320-13493/10	Nitrocellulose	1.0	U	mg/L	0.420	96	70-130			
Batch ID: 13493	Date: 04/02/2013 12:59										
						LCS Source:	WC-353.2-L1_00020				
WS-WC-0050	MRL 320-13493/21	Nitrocellulose	1.0	U	mg/L	0.420	98	70-130			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: FS4

Method: WS-WC-0050 DL Date: 03/15/2011 14:37

Prep Method: 353 (NCell-Hyd)

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Nitrocellulose		5	0.78

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-22274-1

SDG Number:

Matrix: Solid Instrument ID: FS4

Method: WS-WC-0050 XMDL Date: 03/15/2011 14:36

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrocellulose		2	0.475

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No: 240-22274-1

SDG No.:

Instrument ID: FS4 Date: 07/31/2011 19:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Nitrocellulose		16.8	WS-WC-0050

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Prep Method: 353 (NCell-Hyd)

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 320-13300/1-B	04/01/2013 06:04	13366		45	40
LCS 320-13300/2-B	04/01/2013 06:04	13366		45	40
240-22274-2	04/01/2013 06:04	13366		45	40

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 10:49 End Date: 04/01/2013 10:49

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			10:49	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 10:49 End Date: 04/01/2013 10:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			10:49	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 10:49 End Date: 04/01/2013 10:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			10:49	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 10:49 End Date: 04/01/2013 10:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			10:49	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 10:49 End Date: 04/01/2013 10:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
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240-22274-2	1	T	10:49	X	X																			
240-22274-3 DU	1	T	10:49	X	X																			
240-22274-3	1	T	10:49	X	X																			
240-22274-4	1	T	10:49	X	X																			
240-22274-5	1	T	10:49	X	X																			
240-22274-6	1	T	10:49	X	X																			
240-22274-7	1	T	10:49	X	X																			
240-22274-8	1	T	10:49	X	X																			
240-22274-9	1	T	10:49	X	X																			
240-22274-10	1	T	10:49	X	X																			
240-22274-11	1	T	10:49	X	X																			
240-22274-12	1	T	10:49	X	X																			
240-22274-13	1	T	10:49	X	X																			
240-22274-14	1	T	10:49	X	X																			
240-22274-15	1	T	10:49	X	X																			
240-22274-16	1	T	10:49	X	X																			
240-22274-17	1	T	10:49	X	X																			
240-22274-18	1	T	10:49	X	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																				
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240-22274-19	1	T	11:05	X	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
240-22274-20	1	T	11:05	X	X																		
240-22274-21	1	T	11:05	X	X																		
240-22274-22	1	T	11:05	X	X																		
240-22274-23	1	T	11:05	X	X																		
240-22274-24	1	T	11:05	X	X																		
240-22274-24 DU	1	T	11:05	X	X																		
240-22274-25	1	T	11:05	X	X																		
240-22274-25 DU	1	T	11:05	X	X																		
240-22274-26	1	T	11:05	X	X																		
240-22274-27	1	T	11:05	X	X																		
240-22274-28	1	T	11:05	X	X																		
240-22274-29	1	T	11:05	X	X																		
240-22274-30	1	T	11:05	X	X																		
240-22274-31	1	T	11:05	X	X																		
240-22274-32	1	T	11:05	X	X																		
240-22274-33	1	T	11:05	X	X																		
240-22274-34	1	T	11:05	X	X																		
240-22274-35	1	T	11:05	X	X																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			11:05																				
ZZZZZZ			11:05																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:05																					
ZZZZZZ			11:05																					
ZZZZZZ			11:05																					
ZZZZZZ			11:05																					
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ZZZZZZ			11:05																					
ZZZZZZ			11:05																					
ZZZZZZ			11:05																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Instrument ID: FS4 Method: WS-WC-0050

Start Date: 04/02/2013 12:18 End Date: 04/02/2013 13:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				NCL																			
ZZZZZZ			12:18																				
STD5 320-13493/2 IC			12:20	X																			
STD4 320-13493/3 IC			12:22	X																			
STD3 320-13493/4 IC			12:24	X																			
STD2 320-13493/5 IC			12:26	X																			
STD1 320-13493/6 IC			12:28	X																			
STD0 320-13493/7 IC			12:30	X																			
ICV 320-13493/8	1		12:32	X																			
ICB 320-13493/9	1		12:34	X																			
MRL 320-13493/10	1	T	12:36	X																			
ZZZZZZ			12:38																				
ZZZZZZ			12:40																				
ZZZZZZ			12:42																				
ZZZZZZ			12:44																				
MB 320-13300/1-B	1	T	12:46	X																			
LCS 320-13300/2-B	1	T	12:48	X																			
240-22274-2	1	T	12:50	X																			
ZZZZZZ			12:52																				
ZZZZZZ			12:54																				
ZZZZZZ			12:56																				
MRL 320-13493/21	1	T	12:59	X																			
CCV 320-13493/22	1		13:01	X																			
CCB 320-13493/23	1		13:03	X																			
ZZZZZZ			13:05																				

Prep Types
T = Total/NA

Peak Table:Nitrate/Nitrite

File name: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\040213A.RST
Date: 02-Apr-13
Operator: jb

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	103	sync	1	SYNC	1	1	121406	1.018351	
B	0	Baseline	1	RB	1	1	0	0.001714	BL
3	102	Cal 5	1	C	1	1	237327	1.989059	
4	103	Cal 4	1	C	1	1	122426	1.026891	
5	104	Cal 3	1	C	1	1	46178	0.388403	
6	105	Cal 2	1	C	1	1	23520	0.198671	
7	106	Cal 1	1	C	1	1	5513	0.047880	
8	0	Cal 0	1	C	1	1	-313	-0.000905	LO
9	107	ICV	1	U	1	1	119733	1.004339	
10	0	BLANK/ICB	1	BLNK	1	1	-147	0.000483	
11	106	MRL	1	U	1	1	5520	0.047941	
12	108	NO2 1PPM	1	U	1	1	124263	1.042279	
13	109	NO3 1PPM	1	U	1	1	114104	0.957202	
14	0	Blank	1	BLNK	1	1	-23	0.001525	
B	0	Baseline	1	RB	1	1	0	0.001714	BL
16	113	MB 320-13300/1-B	1	U	1	1	1158	0.011411	
17	114	LCS 320-13300/2-B	1	U	1	1	130663	1.095870	
18	115	240-22274-F-2-B	1	U	1	1	1562	0.014795	
19	116	320-2115-A-12-B	1	U	1	1	6245	0.054012	
20	117	320-2115-B-12-C MS	1	U	1	1	74212	0.623158	
21	118	320-2115-B-12-D MSD	1	U	1	1	76577	0.642960	
22	106	MRL	1	U	1	1	5676	0.049244	
23	103	CCV	1	U	1	1	119354	1.001166	
24	0	BLANK	1	BLNK	1	1	63	0.002244	
B	0	Baseline	1	RB	1	1	0	0.001714	BL

Report Results by Sample
Result path: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\040213A.RST
Sample table path: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\040213a.tbl
Method path: Y:\no3_no2.mth
Date acquired: 02-Apr-13
Time acquired: 13:09

Facility Name:
Facility Location:
Department:

Operator Name: jb
Operator ID: jb

Platform: FS III/IV
Software Rev Code: 210
Data system ID: 57

Channel: 1
Analysis: Nitrate/Nitrite
CAS Number:
Methodology: NO2+NO3-353.2/N02-353.2/WS-WC-0050

	Temp	Warmup	Run time	Reps
rack 1	Off	1134:03:50	1:38:15	14
rack 2	Off	1134:03:50	1:38:15	14
rack 3	Off	1134:03:50	1:38:15	14

Notes

Cup	Name	S	1:Time	1:Value	1:S
0	Baseline	C	12:18:56	0.00	[C]
102	Cal 5	C	12:20:56	1.99	[C]
103	Cal 4	C	12:22:56	1.03	[C]
104	Cal 3	C	12:24:57	0.39	[C]
105	Cal 2	C	12:26:57	0.20	[C]
106	Cal 1	C	12:28:57	0.05	[C]
0	Cal 0	C	12:30:57	0.00	[C]
107	ICV	-	12:32:57	1.00	[-]
0	BLANK/ICB	C	12:34:58	0.00	[C]
106	MRL	-	12:36:58	0.05	[-]
108	NO2 1PPM	-	12:38:58	1.04	[-]
109	NO3 1PPM	-	12:40:58	0.96	[-]
0	Blank	C	12:42:58	0.00	[C]
0	Baseline	C	12:44:58	0.00	[C]
113	MB 320-13300/1-B	-	12:46:59	0.01	[-]
114	LCS 320-13300/2-B	-	12:48:59	1.10	[-]
115	240-22274-F-2-B	-	12:50:59	0.01	[-]
116	320-2115-A-12-B	-	12:52:59	0.05	[-]
117	320-2115-B-12-C MS	-	12:54:59	0.62	[-]
118	320-2115-B-12-D MSD	-	12:56:59	0.64	[-]
106	MRL	-	12:59:00	0.05	[-]
103	CCV	-	13:01:00	1.00	[-]
0	BLANK	C	13:03:00	0.00	[C]
0	Baseline	C	13:05:00	0.00	[C]

Nitrate/Nitrite:Calibration 1: Peak 3-25

File name: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\040213A.RST
Date: 02-Apr-13
Operator: jb

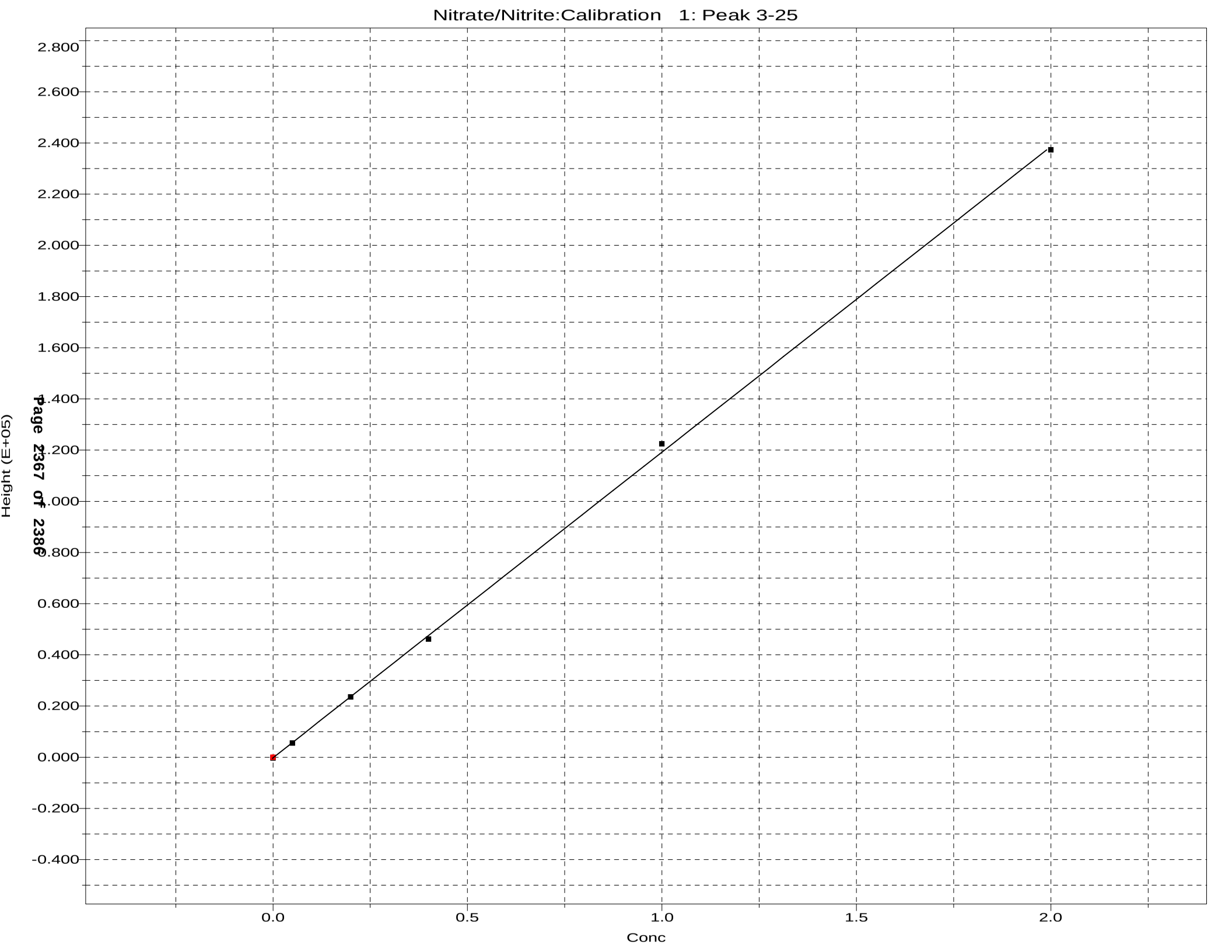
*	Name	Conc	Height
*	Cal 5	2.000000	237327.406250
*	Cal 4	1.000000	122425.945312
*	Cal 3	0.400000	46178.093750
*	Cal 2	0.200000	23520.417969
*	Cal 1	0.050000	5513.023926
*	Cal 0	0.000000	-312.781982

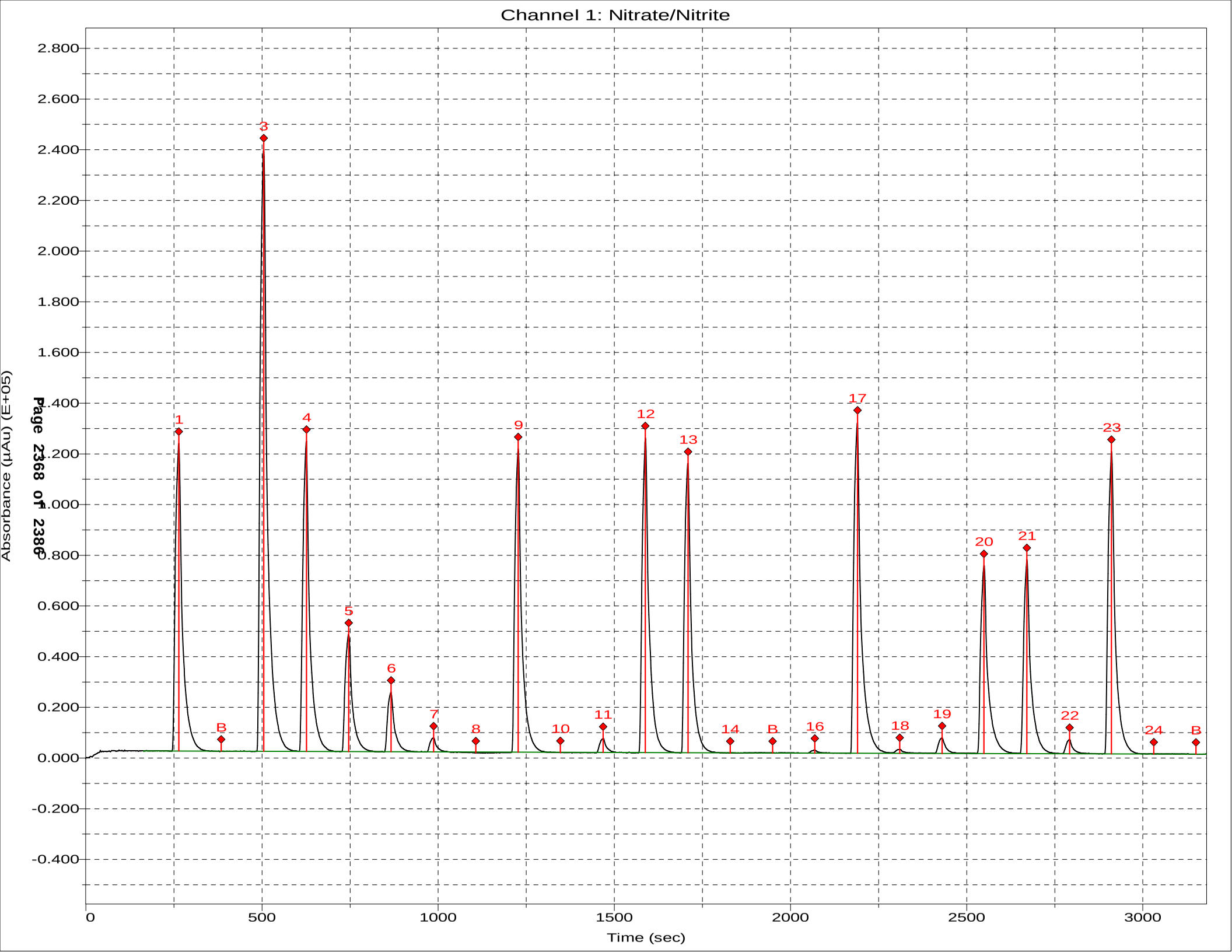
Calib Coef:
y=bx+a
a: (intercept) -2.0474e+02
b: 1.1942e+05

Corr Coef: 0.999835

Carryover: n/a

No Drift Peaks


Nitrate/Nitrite:Calibration 1: Peak 3-25
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
Height (E+05)
0.0
0.5
1.0
1.5
2.0
Conc


Channel 1: Nitrate/Nitrite
Absorbance (µAu) (E+05)
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
0
500
1000
1500
2000
2500
3000
Time (sec)
1
B
3
4
5
6
7
8
9
10
11
12
13
14
B
16
17
18
19
20
21
22
23
24
B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Level I and Level II Review Checklist
General Chemistry

Instrument ID FS4		WS-WC-0050 NCM.	
Batch 13493	File # 040213A	Date 4/2/13	Analyst JB

Lot Numbers # 240-22274 only

	YES	NO	NA
LEVEL 1 Review:			
1. Samples properly preserved/verified	✓		
2. Run setup meets Std criteria (Curve, ICV/ICB, CCV etc.)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Interception criteria for quadratic fits + or – ½ the RL			✓
5. Second source std in control	✓		
6. Batch QC in control (LCS,MB,MS/MSD,DCS if necessary)	✓		
7. Calculations checked	✓		
8. QAS/QAPP consulted for client specific requirements	✓		
9. Standard trakcing #'s recorded on runlog/benchsheet	✓		
10. Manual integration performed, documented & approved			✓
11. Copy of run log included with data package	✓		
12. Copy of conductivity screen logbook (314.0 only)			✓
LEVEL 1 Data Review:			
1. Benchsheet complete	✓		
2. QAS/QAPP Consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted	✓		
4. NCM(s) submitted			✓

COMMENTS: _____

REVIEWED BY: JPS DATE: 4/2/13

DATA ENTERED BY: JB DATE: 4/2/13

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80080 Batch Start Date: 04/01/13 10:49 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/02/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22274-D-2	079SD-0309-0001-SD	Moisture	T	4.4306 g	17.8599 g	14.3221 g			
240-22274-A-3 DU	079SD-0305-0001-0002-SD	Moisture	T	4.4306 g	12.7722 g	8.8078 g			
240-22274-B-3	079SD-0305-0001-0002-SD	Moisture	T	4.4306 g	8.8518 g	6.7155 g			
240-22274-A-4	079SD-0306-0001-SD	Moisture	T	4.4306 g	12.9980 g	8.8673 g			
240-22274-A-5	079SD-0307-0001-SD	Moisture	T	4.4306 g	11.8261 g	8.0462 g			
240-22274-A-6	079SD-0310-0001-SD	Moisture	T	4.4306 g	17.3739 g	13.9707 g			
240-22274-A-7	079SB-0287M-0001-SB	Moisture	T	4.4306 g	12.0315 g	11.9371 g			
240-22274-A-8	079SB-0288M-0001-SB	Moisture	T	4.4306 g	12.8855 g	12.8449 g			
240-22274-A-9	079SB-0289M-0001-SB	Moisture	T	4.4306 g	14.6069 g	14.4486 g			
240-22274-A-10	079SB-0290M-0001-SB	Moisture	T	4.4306 g	11.6169 g	11.5688 g			
240-22274-A-11	079SB-0291M-0001-SB	Moisture	T	4.4306 g	12.1422 g	12.0611 g			
240-22274-A-12	079SB-0292M-0001-SO	Moisture	T	4.4306 g	11.6746 g	11.6078 g			
240-22274-A-13	079SB-0293M-0001-SO	Moisture	T	4.4306 g	11.7069 g	11.5945 g			
240-22274-A-14	079SS-0294-0001-SO	Moisture	T	4.4306 g	12.7997 g	10.9120 g			
240-22274-A-15	079SS-0295-0001-SO	Moisture	T	4.4306 g	12.9048 g	11.4187 g			
240-22274-A-16	079SB-0256M-0001-SO	Moisture	T	4.4306 g	12.2336 g	12.1174 g			
240-22274-A-17	079SB-0258M-0001-SO	Moisture	T	4.4306 g	11.5279 g	11.4773 g			
240-22274-A-18	079SB-0260M-0001-SO	Moisture	T	4.4306 g	11.0610 g	10.9698 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80080 Batch Start Date: 04/01/13 10:49 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/02/13 11:00

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4-1-13
Oven Temp when samples are put in oven	101.3 Degrees C
Time samples were place in the oven	17:45
Date samples were removed from oven	4-2-13
Time Samples were removed from oven	5:25
Oven ID	002
ID number of the thermometer	TEMPGUARD BOX C # 6
Uncorrected Out Temperature	103.9 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80250 Batch Start Date: 04/02/13 11:05 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/03/13 07:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22274-A-19	079SB-0261M-0001-SO	Moisture	T	4.4306 g	11.2902 g	11.2212 g			
240-22274-A-20	079SB-0262M-0001-SO	Moisture	T	4.4306 g	12.2404 g	12.1404 g			
240-22274-A-21	079SB-0263M-0001-SO	Moisture	T	4.4306 g	11.7865 g	11.6736 g			
240-22274-A-22	079SB-0264M-0001-SO	Moisture	T	4.4306 g	15.7357 g	15.5815 g			
240-22274-A-23	079SS-0265-0001-SO	Moisture	T	4.4306 g	12.9602 g	11.0812 g			
240-22274-A-24	079SS-0266-0001-SO	Moisture	T	4.4306 g	7.6649 g	7.0689 g			
240-22274-A-24 DU	079SS-0266-0001-SO	Moisture	T	4.4306 g	7.8863 g	7.2490 g			
240-22274-A-25	079SB-0224M-0001-SO	Moisture	T	4.4306 g	8.6634 g	8.5853 g			
240-22274-A-25 DU	079SB-0224M-0001-SO	Moisture	T	4.4306 g	7.8583 g	7.7951 g			
240-22274-A-26	079SB-0225M-0001-SO	Moisture	T	4.4306 g	14.4779 g	14.4134 g			
240-22274-A-27	079SB-0227M-0001-SO	Moisture	T	4.4306 g	11.3633 g	11.2529 g			
240-22274-A-28	079SB-0228M-0001-SO	Moisture	T	4.4306 g	12.3865 g	12.2788 g			
240-22274-A-29	079SB-0229M-0001-SO	Moisture	T	4.4306 g	13.6155 g	13.4730 g			
240-22274-A-30	079SB-0230M-0001-SO	Moisture	T	4.4306 g	15.9080 g	15.7450 g			
240-22274-A-31	079SB-0231M-0001-SO	Moisture	T	4.4306 g	11.5192 g	11.4387 g			
240-22274-A-32	079SS-0232-0001-SO	Moisture	T	4.4306 g	12.6898 g	11.1360 g			
240-22274-A-33	079SS-0233-0001-SO	Moisture	T	4.4306 g	14.2028 g	12.0840 g			
240-22274-A-34	079SS-0320M-0001-SO	Moisture	T	4.4306 g	14.6505 g	14.4545 g			
240-22274-A-35	079SS-0321M-0001-SO	Moisture	T	4.4306 g	11.9731 g	11.7965 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22274-1

SDG No.:

Batch Number: 80250 Batch Start Date: 04/02/13 11:05 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/03/13 07:59

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4-2-13
Oven Temp when samples are put in oven	100.8 Degrees C
Time samples were place in the oven	1525
Date samples were removed from oven	4-3-13
Oven Temp when samples removed from oven	103.9 Degrees C
Time Samples were removed from oven	5:25
Oven ID	002
ID number of the thermometer	TEMPGUARD BOX C #6

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13300 Batch Start Date: 03/29/13 09:21 Batch Analyst: Arauz, Horacio

Batch Method: 353.2 (NCell) Batch End Date: 03/29/13 17:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNCSP 00008			
MB 320-13300/1		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		10.00 g	45 mL				
LCS 320-13300/2		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		10.00 g	45 mL	1 mL			
240-22274-F-2	079SD-0309-0001-SD	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	10.13 g	45 mL				

Batch Notes	
1:1 MeOH/H2O	HPMeOH/H2O_00009
Acetone Lot #	J.T.BAKER 0000010624
Centrifuge Tube	BD-FALCON 2268693

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13366 Batch Start Date: 04/01/13 05:00 Batch Analyst: Phan, Tuan

Batch Method: 353 (NCell-Hyd) Batch End Date: 04/01/13 10:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 320-13300/1-A		353 (NCell-Hyd), WS-WC-0050		45 mL	40 mL				
LCS 320-13300/2-A		353 (NCell-Hyd), WS-WC-0050		45 mL	40 mL				
240-22274-F-2-A	079SD-0309-0001-SD	353 (NCell-Hyd), WS-WC-0050	T	45 mL	40 mL				

Batch Notes	
0.45 Filter Vendor/Lot	MIILIPORE R2SA72748
Centrifuge Tube	BD-FALCON 2268693
Sulfuric Acid Lot Number	Sulfuric Acid_00001
Millipore Water Dispense Date	3/28/13
NaOH Lot #	1NNaOH_00001

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22274-1

SDG No.:

Batch Number: 13493 Batch Start Date: 04/02/13 12:18 Batch Analyst: Baynes, Jason

Batch Method: WS-WC-0050 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC-353.2-ICV 00021	WC-353.2-L1 00020	WC-353.2-L4 00015			
ICV 320-13493/8		WS-WC-0050		# mL					
MRL 320-13493/10		WS-WC-0050			# mL				
MRL 320-13493/21		WS-WC-0050			# mL				
CCV 320-13493/22		WS-WC-0050				# mL			

Batch Notes	
Nitrocellulose Assay	0.119
Color Reagent 1 ID	4525-WC-18-6 e. 5/16/13
NO2/NO3 Indicator ID #	4525-WC-20-6 e. 5/31/13

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client: ECC	Project Manager: A. KASTERAVE	Date: 3-20-13	Chain of Custody Number: 002579
Address: 33 BOSTON POST RD WEST #420	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 3
City: MARLBORO / State: MA / Zip Code: 01752	Site Contact: J. DONOVAN	Lab Contact: MARK LORD	
Project Name and Location (State): RAVENNA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Meth	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC	SVOC	PCBS	EXPLOSIVES	PROPULANT	TAL METAL	PESTICIDES	% Solids	Special Instructions/ Conditions of Receipt
07950-0194-0001-TB	3-20-13	0800		X							X			X								TRIP BLK
07950-0309-0001-SD	↓	1130			X			XX			X			X	X	XX		X	X	X	X	FULL SUITE
07950-0305-0001-SD	3-19-13	1400																	X			
07950-0305-0002-SD		1400																	X			MS/MSD
07950-0306-0001-SD		1410																	X			
07950-0307-0001-SD		1410																	X			
07950-0310-0001-SD		1435																	X			
07950-0287M-0001-SB		1623																	X			
07950-0288M-0001-SB		1632																	X			
07950-0289M-0001-SB		1424																	X			
07950-0290M-0001-SB		1616																	X			
07950-0291M-0001-SB	↓	1635																	X			

240-22274 Chain of Custody

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Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify)

1. Relinquished By	Date 3/20/13	Time 1630	1. Received By	Date 3-20-13	Time 1630
2. Relinquished By	Date 3-20-13	Time 1727	2. Received By	Date 3/20/13	Time 1727
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: ALL "M" SAMPLES ARE ISM

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. EASTERDAY	3-20-13	002580
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
33 BOSTON POST RD WEST #420			
City	**State** / **Zip Code**	**Site Contact**	**Lab Contact**
MARLBORO	MA / 01752	J. DONOVAN	MARK LORD
Project Name and Location (State)	**Carrier/Waybill Number**		
RAVENNA			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/ NaOH	TAL METALS	Special Instructions/ Conditions of Receipt
0795B-0292M-0001-SO	3-19-13	1526				X	X						X	
0795B-0293M-0001-SO		1521												
0795S-0294M-0001-SO		1502												0795S - DISCARD
0795S-0295M-0001-SO		1505												DISCARD
0795B-0256M-0001-SO		1206												
0795B-0257M-0001-SO		1207												
0795B-0260M-0001-SO		1053												
0795B-0261M-0001-SO		1129												
0795B-0262M-0001-SO		1205												
0795B-0263M-0001-SO		1142												
0795B-0264M-0001-SO		1058												
0795S-0265-0001-SO		1056												DISCARD

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	3-20-13	1630	1. Received By: [signature]	3-20-13	1630
2. Relinquished By: [signature]	3-20-13	1727	2. Received By: [signature]	3-20-13	1727
3. Relinquished By			3. Received By		

Comments
ALL "M" SAMPLES ARE ISM

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. BASTRONA	3-20-13	002581
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
33 BOSTON POST RD WEST #420			
City	**State** / **Zip Code**	**Site Contact**	**Lab Contact**
MARLBORO	MA / 01752	JOANNE	MARK LOEB
Project Name and Location (State)	**Carrier/Waybill Number**		
RAVENNA			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TAL METALS	Special Instructions/ Conditions of Receipt
07955-0266-0001-SO	3-19-13	~~1405~~ 1405				X	X						X	DISCRETE
07958-0224M-0001-SO		1027												
07958-0225M-0001-SO		1028												
07958-0227M-0001-SO		0910												
07958-0228M-0001-SO		0940												
07958-0229M-0001-SO		0958												
07958-0230M-0001-SO		1018												
07958-0231M-0001-SO		0925												
07955-0232-0001-SO		0926												DISCRETE
07955-0233-0001-SO		0922												↓
07955-0320M-0001-SO		0950												
07955-0321M-0001-SO	↓	1220				↓	↓						↓	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/20/13	1630	1. Received By	3-20-13	1630
2. Relinquished By	3-20-13	1727	2. Received By	3-20-13	1727
3. Relinquished By			3. Received By		

Comments: ALL "M" SAMPLES ARE ISM

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

TestAmerica Canton Sample Receipt Form/Narrative Login # : 22274

Client ECC Site Name _____ By: _____

Cooler Received on 3-20-13 Opened on 3-21-13 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off (TestAmerica Courier) Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF –2 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	☑ Multiple on Back
IR GUN# 4G	(CF 0 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	
IR GUN# 5G	(CF 0 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	
IR GUN# 8	(CF 0 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 0 Yes (No)
   - Were custody seals on the outside of the cooler(s) signed & dated? Yes (No) NA
   - Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA)
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM MJL Date 3/21/13 by CSL via (Verbal) Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Coc Id 0795D-0307-0001-SD Sample container says 0795D-0308-0001-SD Will log per coc

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 051012-H2SO4; Sodium Hydroxide Lot# 121809 -NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant
Client Cooler	4.6	4.6	4.6	Ice
1	3.4	3.4	1	1
	3.2	3.2		

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22274-1

Login Number: 22274
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 03/27/13 01:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22274-1

Login Number: 22274
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 03/27/13 01:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22274-1

Login Number: 22274
List Number: 1
Creator: Sadler, Jeremy

List Source: TestAmerica Sacramento
List Creation: 03/23/13 01:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 240-22281-1

Job Description: RVAAP - ECC

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 40
Marlborough, MA 01752

Attention: Mr. Jackson Kiker

Approved for release.
Mark J Loeb
Project Manager II
4/30/2013 3:57 PM

Mark J Loeb
Project Manager II
mark.loeb@testamericainc.com
04/30/2013

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: RVAAP - ECC

Report Number: 240-22281-1

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

The 6020 Metals analysis was performed at the TestAmerica Pittsburgh Laboratory.

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

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

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

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

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

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

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

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

RECEIPT

The samples were received on 03/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.0, 2.6 and 4.2 C.

One or more containers for the following sample(s) was received broken or leaking: The container for sample 1 was shattered, not able to salvage clean sample. Shards all through the sample. Notified PM in Canton, and PM in Pgh.

TOTAL METALS (ICPMS)

Samples 079SB-0245M-0001-SO (240-22281-1), 079SB-0324M-0001-SO (240-22281-3), 079SB-0247M-0001-SO (240-22281-4), 079SB-0325M-0001-SO (240-22281-6), 079SB-0249M-0001-SO (240-22281-7), 079SB-0250M-0001-SO (240-22281-8), 079SB-0251M-0001-SO (240-22281-9), 079SB-0252M-0001-SO (240-22281-10), 079SB-0253M-0001-SO (240-22281-11), 079SB-0267M-0001-SO (240-22281-20), 079SB-0269M-0001-SO (240-22281-22), 079SB-0322M-0001-SO (240-22281-23), 079SB-0271M-0001-SO (240-22281-25), 079SB-0272M-0001-SO (240-22281-26), 079SB-0273M-0001-SO (240-22281-27), 079SB-0323M-0001-SO (240-22281-28), 079SB-0274M-0001-SO (240-22281-29), 079SB-0275M-0001-SO (240-22281-30), 079SB-0278M-0001-SO (240-22281-31), 079SB-0279M-0001-SO (240-22281-32), 079SB-0280M-0001-SO (240-22281-33), 079SB-0281M-0001-SO (240-22281-34), 079SB-0282M-0001-SO (240-22281-35), 079SB-0283M-0001-SO (240-22281-36), 079SB-0284M-0001-SO (240-22281-37), 079SB-0296M-0001-SO (240-22281-38), 079SB-0297M-0001-SO (240-22281-39), 079SB-0298M-0001-SO (240-22281-40), 079SB-0299M-0001-SO (240-22281-41), 079SB-0300M-0001-SO (240-22281-42), 079SB-0301M-0001-SO (240-22281-43) and 079SB-0302M-0001-SO (240-22281-44) were analyzed for total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and with EPA SW-846 Method 6020 DoD. These samples began the drying process on 03/27/2013. Samples 07PSS-0254-0001-SO (240-22281-12), 07PSS-0255-0001-SO (240-22281-13), 07PSS-0276-0001-SO (240-22281-14), 07PSS-0277-0001-SO (240-22281-15), 07PSS-0285-0001-SO (240-22281-16), 07PSS-0286-0001-SO (240-22281-17), 07PSS-0303-0001-SO (240-22281-18) and 07PSS-0304-0001-SO (240-22281-19) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD but

did not go through ISM processing. The samples were prepared on 04/03/2013 and 04/04/2013 and analyzed on 04/28/2013.

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

Sodium and Zinc were detected in method blank MB 180-68111/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Arsenic, Sodium and Zinc were detected in method blank MB 180-68272/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Aluminum failed the recovery criteria high for the MS of sample 079SB-0271M-0001-SOMS (240-22281-25) in batch 180-70234.

Aluminum and Iron failed the recovery criteria high for the MSD of sample 079SB-0271M-0001-SOMSD (240-22281-25) in batch 180-70234.

Iron failed the recovery criteria low for the MS of sample 079SB-0324M-0001-SOMS (240-22281-3) in batch 180-70234. Aluminum failed the recovery criteria high.

Aluminum, Iron and Manganese failed the recovery criteria high for the MSD of sample 079SB-0324M-0001-SOMSD (240-22281-3) in batch 180-70234. Manganese exceeded the rpd limit.

Samples 079SB-0325M-0001-SO (240-22281-6)[10X], 07PSS-0254-0001-SO (240-22281-12)[100X], 07PSS-0255-0001-SO (240-22281-13)[10X], 07PSS-0276-0001-SO (240-22281-14)[10X], 07PSS-0277-0001-SO (240-22281-15)[100X], 079SB-0269M-0001-SO (240-22281-22)[10X], 079SB-0273M-0001-SO (240-22281-27)[10X] and 079SB-0323M-0001-SO (240-22281-28)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

MERCURY WITH INCREMENTAL SAMPLE PREPARATION

Samples 079SB-0245M-0001-SO (240-22281-1), 079SB-0324M-0001-SO (240-22281-3), 079SB-0247M-0001-SO (240-22281-4), 079SB-0325M-0001-SO (240-22281-6), 079SB-0249M-0001-SO (240-22281-7), 079SB-0250M-0001-SO (240-22281-8), 079SB-0251M-0001-SO (240-22281-9), 079SB-0252M-0001-SO (240-22281-10), 079SB-0253M-0001-SO (240-22281-11), 079SB-0267M-0001-SO (240-22281-20), 079SB-0269M-0001-SO (240-22281-22), 079SB-0322M-0001-SO (240-22281-23), 079SB-0271M-0001-SO (240-22281-25), 079SB-0272M-0001-SO (240-22281-26), 079SB-0273M-0001-SO (240-22281-27), 079SB-0323M-0001-SO (240-22281-28), 079SB-0274M-0001-SO (240-22281-29), 079SB-0275M-0001-SO (240-22281-30), 079SB-0278M-0001-SO (240-22281-31), 079SB-0279M-0001-SO (240-22281-32), 079SB-0280M-0001-SO (240-22281-33), 079SB-0281M-0001-SO (240-22281-34), 079SB-0282M-0001-SO (240-22281-35), 079SB-0283M-0001-SO (240-22281-36), 079SB-0284M-0001-SO (240-22281-37), 079SB-0296M-0001-SO (240-22281-38), 079SB-0297M-0001-SO (240-22281-39), 079SB-0298M-0001-SO (240-22281-40), 079SB-0299M-0001-SO (240-22281-41), 079SB-0300M-0001-SO (240-22281-42), 079SB-0301M-0001-SO (240-22281-43) and 079SB-0302M-0001-SO (240-22281-44) were analyzed for mercury with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 7471A DOD. The samples began the drying process on 03/27/2013, prepared on 03/29/2013, 04/01/2013 and 04/02/2013 and analyzed on 04/02/2013 and 04/03/2013.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

MERCURY

Samples 07PSS-0254-0001-SO (240-22281-12), 07PSS-0255-0001-SO (240-22281-13), 07PSS-0276-0001-SO (240-22281-14), 07PSS-0277-0001-SO (240-22281-15), 07PSS-0285-0001-SO (240-22281-16), 07PSS-0286-0001-SO (240-22281-17), 07PSS-0303-0001-SO (240-22281-18) and 07PSS-0304-0001-SO (240-22281-19) were analyzed for mercury in accordance with EPA SW-846 Method 7471A DOD. The samples were prepared on 03/26/2013, 03/29/2013 and 04/01/2013 and analyzed on 03/27/2013 and 04/02/2013.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 079SB-0245M-0001-SO (240-22281-1), 079SB-0324M-0001-SO (240-22281-3), 079SB-0247M-0001-SO (240-22281-4), 079SB-0325M-0001-SO (240-22281-6), 079SB-0249M-0001-SO (240-22281-7), 079SB-0250M-0001-SO (240-22281-8), 079SB-0251M-0001-SO (240-22281-9), 079SB-0252M-0001-SO (240-22281-10), 079SB-0253M-0001-SO (240-22281-11), 07PSS-0254-0001-SO (240-22281-12), 07PSS-0255-0001-SO (240-22281-13), 07PSS-0276-0001-SO (240-22281-14), 07PSS-0277-0001-SO (240-22281-15), 07PSS-0285-0001-SO (240-22281-16), 07PSS-0286-0001-SO (240-22281-17), 07PSS-0303-0001-SO (240-22281-18), 07PSS-0304-0001-SO (240-22281-19), 079SB-0267M-0001-SO (240-22281-20), 079SB-0269M-0001-SO (240-22281-22), 079SB-0322M-0001-SO (240-22281-23), 079SB-0271M-0001-SO (240-22281-25), 079SB-0272M-0001-SO (240-22281-26), 079SB-0273M-0001-SO (240-22281-27), 079SB-0323M-0001-SO (240-22281-28), 079SB-0274M-0001-SO (240-22281-29), 079SB-0275M-0001-SO (240-22281-30), 079SB-0278M-0001-SO (240-22281-31),

079SB-0279M-0001-SO (240-22281-32), 079SB-0280M-0001-SO (240-22281-33), 079SB-0281M-0001-SO (240-22281-34), 079SB-0282M-0001-SO (240-22281-35), 079SB-0283M-0001-SO (240-22281-36), 079SB-0284M-0001-SO (240-22281-37), 079SB-0296M-0001-SO (240-22281-38), 079SB-0297M-0001-SO (240-22281-39), 079SB-0298M-0001-SO (240-22281-40), 079SB-0299M-0001-SO (240-22281-41), 079SB-0300M-0001-SO (240-22281-42), 079SB-0301M-0001-SO (240-22281-43) and 079SB-0302M-0001-SO (240-22281-44) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 04/02/2013.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-22281-1	079SB-0245M-0001-SO	Solid	03/20/2013 1819	03/21/2013 1724
240-22281-3	079SB-0324M-0001-SO	Solid	03/20/2013 1816	03/21/2013 1724
240-22281-4	079SB-0247M-0001-SO	Solid	03/20/2013 1817	03/21/2013 1724
240-22281-6	079SB-0325M-0001-SO	Solid	03/20/2013 1818	03/21/2013 1724
240-22281-7	079SB-0249M-0001-SO	Solid	03/20/2013 1749	03/21/2013 1724
240-22281-8	079SB-0250M-0001-SO	Solid	03/20/2013 1807	03/21/2013 1724
240-22281-9	079SB-0251M-0001-SO	Solid	03/20/2013 1658	03/21/2013 1724
240-22281-10	079SB-0252M-0001-SO	Solid	03/20/2013 1822	03/21/2013 1724
240-22281-11	079SB-0253M-0001-SO	Solid	03/20/2013 1723	03/21/2013 1724
240-22281-12	07PSS-0254-0001-SO	Solid	03/20/2013 1720	03/21/2013 1724
240-22281-13	07PSS-0255-0001-SO	Solid	03/20/2013 1726	03/21/2013 1724
240-22281-14	07PSS-0276-0001-SO	Solid	03/20/2013 1104	03/21/2013 1724
240-22281-15	07PSS-0277-0001-SO	Solid	03/20/2013 1105	03/21/2013 1724
240-22281-16	07PSS-0285-0001-SO	Solid	03/20/2013 1554	03/21/2013 1724
240-22281-17	07PSS-0286-0001-SO	Solid	03/20/2013 1555	03/21/2013 1724
240-22281-18	07PSS-0303-0001-SO	Solid	03/20/2013 1212	03/21/2013 1724
240-22281-19	07PSS-0304-0001-SO	Solid	03/20/2013 1215	03/21/2013 1724
240-22281-20	079SB-0267M-0001-SO	Solid	03/20/2013 1153	03/21/2013 1724
240-22281-22	079SB-0269M-0001-SO	Solid	03/20/2013 1152	03/21/2013 1724
240-22281-23	079SB-0322M-0001-SO	Solid	03/20/2013 1155	03/21/2013 1724
240-22281-25	079SB-0271M-0001-SO	Solid	03/20/2013 0952	03/21/2013 1724
240-22281-26	079SB-0272M-0001-SO	Solid	03/20/2013 1049	03/21/2013 1724
240-22281-27	079SB-0273M-0001-SO	Solid	03/20/2013 1203	03/21/2013 1724
240-22281-28	079SB-0323M-0001-SO	Solid	03/20/2013 1154	03/21/2013 1724
240-22281-29	079SB-0274M-0001-SO	Solid	03/20/2013 1137	03/21/2013 1724
240-22281-30	079SB-0275M-0001-SO	Solid	03/20/2013 1118	03/21/2013 1724
240-22281-31	079SB-0278M-0001-SO	Solid	03/20/2013 1626	03/21/2013 1724
240-22281-32	079SB-0279M-0001-SO	Solid	03/20/2013 1629	03/21/2013 1724
240-22281-33	079SB-0280M-0001-SO	Solid	03/20/2013 1538	03/21/2013 1724
240-22281-34	079SB-0281M-0001-SO	Solid	03/20/2013 1523	03/21/2013 1724
240-22281-35	079SB-0282M-0001-SO	Solid	03/20/2013 1622	03/21/2013 1724
240-22281-36	079SB-0283M-0001-SO	Solid	03/20/2013 1632	03/21/2013 1724
240-22281-37	079SB-0284M-0001-SO	Solid	03/20/2013 1603	03/21/2013 1724
240-22281-38	079SB-0296M-0001-SO	Solid	03/20/2013 1436	03/21/2013 1724
240-22281-39	079SB-0297M-0001-SO	Solid	03/20/2013 1440	03/21/2013 1724
240-22281-40	079SB-0298M-0001-SO	Solid	03/20/2013 1238	03/21/2013 1724
240-22281-41	079SB-0299M-0001-SO	Solid	03/20/2013 1441	03/21/2013 1724
240-22281-42	079SB-0300M-0001-SO	Solid	03/20/2013 1435	03/21/2013 1724
240-22281-43	079SB-0301M-0001-SO	Solid	03/20/2013 1448	03/21/2013 1724
240-22281-44	079SB-0302M-0001-SO	Solid	03/20/2013 1219	03/21/2013 1724

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-1	**079SB-0245M-0001-SO**					
Aluminum		4500		2.9	mg/Kg	6020/DOD
Arsenic		5.0		0.097	mg/Kg	6020/DOD
Barium		25	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.26		0.097	mg/Kg	6020/DOD
Calcium		260		9.7	mg/Kg	6020/DOD
Cadmium		0.046	J	0.097	mg/Kg	6020/DOD
Chromium		6.0		0.19	mg/Kg	6020/DOD
Cobalt		4.8	Q	0.049	mg/Kg	6020/DOD
Copper		6.4	Q	0.19	mg/Kg	6020/DOD
Iron		10000		4.9	mg/Kg	6020/DOD
Magnesium		940		9.7	mg/Kg	6020/DOD
Manganese		270	Q	0.49	mg/Kg	6020/DOD
Sodium		26		9.7	mg/Kg	6020/DOD
Nickel		10		0.097	mg/Kg	6020/DOD
Lead		5.2	Q	0.097	mg/Kg	6020/DOD
Thallium		0.084	J	0.097	mg/Kg	6020/DOD
Vanadium		7.9		0.097	mg/Kg	6020/DOD
Zinc		19	Q	0.49	mg/Kg	6020/DOD
Potassium		420		9.7	mg/Kg	6020/DOD
Selenium		0.067	J	0.49	mg/Kg	6020/DOD
Mercury		0.016	J	0.10	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.83		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-3	**079SB-0324M-0001-SO**					
Silver		0.011	J Q	0.10	mg/Kg	6020/DOD
Aluminum		6800	J	3.0	mg/Kg	6020/DOD
Arsenic		6.5		0.10	mg/Kg	6020/DOD
Barium		54	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.43		0.10	mg/Kg	6020/DOD
Calcium		640		10	mg/Kg	6020/DOD
Cadmium		0.11		0.10	mg/Kg	6020/DOD
Chromium		9.7		0.20	mg/Kg	6020/DOD
Cobalt		8.3	Q	0.050	mg/Kg	6020/DOD
Copper		11	Q	0.20	mg/Kg	6020/DOD
Iron		18000	J	5.0	mg/Kg	6020/DOD
Magnesium		1700		10	mg/Kg	6020/DOD
Manganese		880	Q J	0.50	mg/Kg	6020/DOD
Sodium		35		10	mg/Kg	6020/DOD
Nickel		16		0.10	mg/Kg	6020/DOD
Lead		8.2	Q	0.10	mg/Kg	6020/DOD
Thallium		0.11		0.10	mg/Kg	6020/DOD
Vanadium		11		0.10	mg/Kg	6020/DOD
Zinc		32	Q	0.50	mg/Kg	6020/DOD
Potassium		680		10	mg/Kg	6020/DOD
Selenium		0.10	J	0.50	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-4	**079SB-0247M-0001-SO**					
Aluminum		2100		2.9	mg/Kg	6020/DOD
Arsenic		4.7		0.098	mg/Kg	6020/DOD
Barium		45	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.14		0.098	mg/Kg	6020/DOD
Calcium		210		9.8	mg/Kg	6020/DOD
Cadmium		0.055	J	0.098	mg/Kg	6020/DOD
Chromium		7.8		0.20	mg/Kg	6020/DOD
Cobalt		4.5	Q	0.049	mg/Kg	6020/DOD
Copper		3.6	Q	0.20	mg/Kg	6020/DOD
Iron		6800		4.9	mg/Kg	6020/DOD
Magnesium		450		9.8	mg/Kg	6020/DOD
Manganese		950	Q	0.49	mg/Kg	6020/DOD
Sodium		24		9.8	mg/Kg	6020/DOD
Nickel		11		0.098	mg/Kg	6020/DOD
Lead		3.6	Q	0.098	mg/Kg	6020/DOD
Antimony		0.19	J	0.20	mg/Kg	6020/DOD
Thallium		0.061	J	0.098	mg/Kg	6020/DOD
Vanadium		4.2		0.098	mg/Kg	6020/DOD
Zinc		21	Q	0.49	mg/Kg	6020/DOD
Potassium		350		9.8	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.39		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-6	**079SB-0325M-0001-SO**					
Aluminum		1900		2.9	mg/Kg	6020/DOD
Arsenic		4.3		0.097	mg/Kg	6020/DOD
Barium		29	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.12		0.097	mg/Kg	6020/DOD
Calcium		480		9.7	mg/Kg	6020/DOD
Cadmium		0.060	J	0.097	mg/Kg	6020/DOD
Chromium		7.4		0.19	mg/Kg	6020/DOD
Cobalt		4.7	Q	0.049	mg/Kg	6020/DOD
Copper		3.8	Q	0.19	mg/Kg	6020/DOD
Iron		6000		4.9	mg/Kg	6020/DOD
Magnesium		480		9.7	mg/Kg	6020/DOD
Manganese		2300	D Q	4.9	mg/Kg	6020/DOD
Sodium		20		9.7	mg/Kg	6020/DOD
Nickel		12		0.097	mg/Kg	6020/DOD
Lead		3.4	Q	0.097	mg/Kg	6020/DOD
Antimony		0.074	J	0.19	mg/Kg	6020/DOD
Thallium		0.061	J	0.097	mg/Kg	6020/DOD
Vanadium		4.7		0.097	mg/Kg	6020/DOD
Zinc		19	Q	0.49	mg/Kg	6020/DOD
Potassium		320		9.7	mg/Kg	6020/DOD
Mercury		0.017	J	0.11	mg/Kg	7471/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.29		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-7	**079SB-0249M-0001-SO**					
Aluminum		2900		2.9	mg/Kg	6020/DOD
Arsenic		2.9		0.096	mg/Kg	6020/DOD
Barium		15	Q	0.96	mg/Kg	6020/DOD
Beryllium		0.18		0.096	mg/Kg	6020/DOD
Calcium		200		9.6	mg/Kg	6020/DOD
Cadmium		0.044	J	0.096	mg/Kg	6020/DOD
Chromium		4.8		0.19	mg/Kg	6020/DOD
Cobalt		6.8	Q	0.048	mg/Kg	6020/DOD
Copper		4.4	Q	0.19	mg/Kg	6020/DOD
Iron		7400		4.8	mg/Kg	6020/DOD
Magnesium		670		9.6	mg/Kg	6020/DOD
Manganese		160	Q	0.48	mg/Kg	6020/DOD
Sodium		19		9.6	mg/Kg	6020/DOD
Nickel		11		0.096	mg/Kg	6020/DOD
Lead		4.4	Q	0.096	mg/Kg	6020/DOD
Thallium		0.062	J	0.096	mg/Kg	6020/DOD
Vanadium		4.9		0.096	mg/Kg	6020/DOD
Zinc		16	Q	0.48	mg/Kg	6020/DOD
Potassium		410		9.6	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.45		0.10	%	Moisture
240-22281-8	**079SB-0250M-0001-SO**					
Aluminum		3400		3.0	mg/Kg	6020/DOD
Arsenic		3.3		0.099	mg/Kg	6020/DOD
Barium		15	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.19		0.099	mg/Kg	6020/DOD
Calcium		130		9.9	mg/Kg	6020/DOD
Cadmium		0.051	J	0.099	mg/Kg	6020/DOD
Chromium		5.2		0.20	mg/Kg	6020/DOD
Cobalt		4.3	Q	0.050	mg/Kg	6020/DOD
Copper		4.4	Q	0.20	mg/Kg	6020/DOD
Iron		7700		5.0	mg/Kg	6020/DOD
Magnesium		720		9.9	mg/Kg	6020/DOD
Manganese		130	Q	0.50	mg/Kg	6020/DOD
Sodium		19		9.9	mg/Kg	6020/DOD
Nickel		8.5		0.099	mg/Kg	6020/DOD
Lead		4.3	Q	0.099	mg/Kg	6020/DOD
Thallium		0.062	J	0.099	mg/Kg	6020/DOD
Vanadium		6.2		0.099	mg/Kg	6020/DOD
Zinc		20	Q	0.50	mg/Kg	6020/DOD
Potassium		400		9.9	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.56		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-9	**079SB-0251M-0001-SO**					
Aluminum		4700		2.9	mg/Kg	6020/DOD
Arsenic		4.1		0.098	mg/Kg	6020/DOD
Barium		25	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.23		0.098	mg/Kg	6020/DOD
Calcium		330		9.8	mg/Kg	6020/DOD
Cadmium		0.074	J	0.098	mg/Kg	6020/DOD
Chromium		7.7		0.20	mg/Kg	6020/DOD
Cobalt		5.2	Q	0.049	mg/Kg	6020/DOD
Copper		6.9	Q	0.20	mg/Kg	6020/DOD
Iron		10000		4.9	mg/Kg	6020/DOD
Magnesium		1100		9.8	mg/Kg	6020/DOD
Manganese		220	Q	0.49	mg/Kg	6020/DOD
Sodium		26		9.8	mg/Kg	6020/DOD
Nickel		11		0.098	mg/Kg	6020/DOD
Lead		5.6	Q	0.098	mg/Kg	6020/DOD
Thallium		0.079	J	0.098	mg/Kg	6020/DOD
Vanadium		7.7		0.098	mg/Kg	6020/DOD
Zinc		28	Q	0.49	mg/Kg	6020/DOD
Potassium		520		9.8	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.61		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-10	**079SB-0252M-0001-SO**					
Aluminum		4500		2.9	mg/Kg	6020/DOD
Arsenic		12		0.097	mg/Kg	6020/DOD
Barium		20	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.24		0.097	mg/Kg	6020/DOD
Calcium		150		9.7	mg/Kg	6020/DOD
Cadmium		0.066	J	0.097	mg/Kg	6020/DOD
Chromium		7.2		0.19	mg/Kg	6020/DOD
Cobalt		3.9	Q	0.049	mg/Kg	6020/DOD
Copper		6.4	Q	0.19	mg/Kg	6020/DOD
Iron		11000		4.9	mg/Kg	6020/DOD
Magnesium		900		9.7	mg/Kg	6020/DOD
Manganese		150	Q	0.49	mg/Kg	6020/DOD
Sodium		23		9.7	mg/Kg	6020/DOD
Nickel		11		0.097	mg/Kg	6020/DOD
Lead		5.1	Q	0.097	mg/Kg	6020/DOD
Thallium		0.11		0.097	mg/Kg	6020/DOD
Vanadium		7.7		0.097	mg/Kg	6020/DOD
Zinc		22	Q	0.49	mg/Kg	6020/DOD
Potassium		520		9.7	mg/Kg	6020/DOD
Selenium		0.070	J	0.49	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.61		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-11	**079SB-0253M-0001-SO**					
Aluminum		6500		3.0	mg/Kg	6020/DOD
Arsenic		8.1		0.10	mg/Kg	6020/DOD
Barium		44	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.35		0.10	mg/Kg	6020/DOD
Calcium		200		10	mg/Kg	6020/DOD
Cadmium		0.088	J	0.10	mg/Kg	6020/DOD
Chromium		9.0		0.20	mg/Kg	6020/DOD
Cobalt		7.5	Q	0.050	mg/Kg	6020/DOD
Copper		11	Q	0.20	mg/Kg	6020/DOD
Iron		15000		5.0	mg/Kg	6020/DOD
Magnesium		1500		10	mg/Kg	6020/DOD
Manganese		390	Q	0.50	mg/Kg	6020/DOD
Sodium		30		10	mg/Kg	6020/DOD
Nickel		16		0.10	mg/Kg	6020/DOD
Lead		7.6	Q	0.10	mg/Kg	6020/DOD
Thallium		0.11		0.10	mg/Kg	6020/DOD
Vanadium		12		0.10	mg/Kg	6020/DOD
Zinc		28	Q	0.50	mg/Kg	6020/DOD
Potassium		620		10	mg/Kg	6020/DOD
Selenium		0.092	J	0.50	mg/Kg	6020/DOD
Mercury		0.017	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.91		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-12	**07PSS-0254-0001-SO**					
Silver		0.050	J Q	0.11	mg/Kg	6020/DOD
Aluminum		6500		3.2	mg/Kg	6020/DOD
Arsenic		20		0.11	mg/Kg	6020/DOD
Barium		11000	J Q	1.1	mg/Kg	6020/DOD
Beryllium		2.0		0.11	mg/Kg	6020/DOD
Calcium		2200		11	mg/Kg	6020/DOD
Cadmium		0.29		0.11	mg/Kg	6020/DOD
Chromium		14		0.22	mg/Kg	6020/DOD
Cobalt		41	Q	0.054	mg/Kg	6020/DOD
Copper		92	Q	0.22	mg/Kg	6020/DOD
Iron		18000		5.4	mg/Kg	6020/DOD
Magnesium		1000		11	mg/Kg	6020/DOD
Manganese		280000	D Q J	54	mg/Kg	6020/DOD
Sodium		3700		11	mg/Kg	6020/DOD
Nickel		52		0.11	mg/Kg	6020/DOD
Lead		17	Q	0.11	mg/Kg	6020/DOD
Antimony		0.50		0.22	mg/Kg	6020/DOD
Thallium		0.76		0.11	mg/Kg	6020/DOD
Vanadium		23		0.11	mg/Kg	6020/DOD
Zinc		41	Q	0.54	mg/Kg	6020/DOD
Potassium		3800		11	mg/Kg	6020/DOD
Selenium		0.25	J	0.54	mg/Kg	6020/DOD
Mercury		0.036	J	0.11	mg/Kg	7471/DOD
Percent Solids		90		0.10	%	Moisture
Percent Moisture		9.8		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-13	**07PSS-0255-0001-SO**					
Silver		0.016	J Q	0.11	mg/Kg	6020/DOD
Aluminum		11000		3.4	mg/Kg	6020/DOD
Arsenic		7.7		0.11	mg/Kg	6020/DOD
Barium		1000	Q	1.1	mg/Kg	6020/DOD
Beryllium		0.54		0.11	mg/Kg	6020/DOD
Calcium		640		11	mg/Kg	6020/DOD
Cadmium		0.091	J	0.11	mg/Kg	6020/DOD
Chromium		12		0.23	mg/Kg	6020/DOD
Cobalt		5.7	Q	0.057	mg/Kg	6020/DOD
Copper		17	Q	0.23	mg/Kg	6020/DOD
Iron		20000		5.7	mg/Kg	6020/DOD
Magnesium		1700		11	mg/Kg	6020/DOD
Manganese		19000	D Q	5.7	mg/Kg	6020/DOD
Sodium		300		11	mg/Kg	6020/DOD
Nickel		13		0.11	mg/Kg	6020/DOD
Lead		11	Q	0.11	mg/Kg	6020/DOD
Thallium		0.13		0.11	mg/Kg	6020/DOD
Vanadium		20		0.11	mg/Kg	6020/DOD
Zinc		29	Q	0.57	mg/Kg	6020/DOD
Potassium		660		11	mg/Kg	6020/DOD
Selenium		0.23	J	0.57	mg/Kg	6020/DOD
Mercury		0.035	J	0.12	mg/Kg	7471/DOD
Percent Solids		86		0.10	%	Moisture
Percent Moisture		14		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-14	**07PSS-0276-0001-SO**					
Silver		0.030	J Q	0.11	mg/Kg	6020/DOD
Aluminum		10000		3.3	mg/Kg	6020/DOD
Arsenic		14		0.11	mg/Kg	6020/DOD
Barium		120	Q	1.1	mg/Kg	6020/DOD
Beryllium		2.1		0.11	mg/Kg	6020/DOD
Calcium		53000		11	mg/Kg	6020/DOD
Cadmium		0.23		0.11	mg/Kg	6020/DOD
Chromium		53		0.22	mg/Kg	6020/DOD
Cobalt		3.6	Q	0.056	mg/Kg	6020/DOD
Copper		15	Q	0.22	mg/Kg	6020/DOD
Iron		8000		5.6	mg/Kg	6020/DOD
Magnesium		13000		11	mg/Kg	6020/DOD
Manganese		4400	D Q	5.6	mg/Kg	6020/DOD
Sodium		360		11	mg/Kg	6020/DOD
Nickel		12		0.11	mg/Kg	6020/DOD
Lead		200	Q	0.11	mg/Kg	6020/DOD
Antimony		0.073	J	0.22	mg/Kg	6020/DOD
Thallium		0.058	J	0.11	mg/Kg	6020/DOD
Vanadium		7.6		0.11	mg/Kg	6020/DOD
Zinc		38	Q	0.56	mg/Kg	6020/DOD
Potassium		730		11	mg/Kg	6020/DOD
Selenium		0.92		0.56	mg/Kg	6020/DOD
Percent Solids		86		0.10	%	Moisture
Percent Moisture		14		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-15	**07PSS-0277-0001-SO**					
Silver		0.051	J Q	0.11	mg/Kg	6020/DOD
Aluminum		18000		3.2	mg/Kg	6020/DOD
Arsenic		110		0.11	mg/Kg	6020/DOD
Barium		340	Q	1.1	mg/Kg	6020/DOD
Beryllium		4.9		0.11	mg/Kg	6020/DOD
Calcium		100000		11	mg/Kg	6020/DOD
Cadmium		0.27		0.11	mg/Kg	6020/DOD
Chromium		16		0.21	mg/Kg	6020/DOD
Cobalt		3.9	Q	0.054	mg/Kg	6020/DOD
Copper		87	Q	0.21	mg/Kg	6020/DOD
Iron		5300		5.4	mg/Kg	6020/DOD
Magnesium		29000		11	mg/Kg	6020/DOD
Manganese		42000	D Q	54	mg/Kg	6020/DOD
Sodium		1200		11	mg/Kg	6020/DOD
Nickel		8.0		0.11	mg/Kg	6020/DOD
Lead		470	Q	0.11	mg/Kg	6020/DOD
Thallium		0.068	J	0.11	mg/Kg	6020/DOD
Vanadium		11		0.11	mg/Kg	6020/DOD
Zinc		67	Q	0.54	mg/Kg	6020/DOD
Potassium		2400		11	mg/Kg	6020/DOD
Selenium		1.5		0.54	mg/Kg	6020/DOD
Percent Solids		92		0.10	%	Moisture
Percent Moisture		7.6		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-16	**07PSS-0285-0001-SO**					
Silver		0.034	J Q	0.12	mg/Kg	6020/DOD
Aluminum		10000		3.5	mg/Kg	6020/DOD
Arsenic		4.9		0.12	mg/Kg	6020/DOD
Barium		77	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.52		0.12	mg/Kg	6020/DOD
Calcium		350		12	mg/Kg	6020/DOD
Cadmium		0.17		0.12	mg/Kg	6020/DOD
Chromium		16		0.24	mg/Kg	6020/DOD
Cobalt		9.9	Q	0.059	mg/Kg	6020/DOD
Copper		10	Q	0.24	mg/Kg	6020/DOD
Iron		16000		5.9	mg/Kg	6020/DOD
Magnesium		3500		12	mg/Kg	6020/DOD
Manganese		320	Q	0.59	mg/Kg	6020/DOD
Sodium		38		12	mg/Kg	6020/DOD
Nickel		19		0.12	mg/Kg	6020/DOD
Lead		13	Q	0.12	mg/Kg	6020/DOD
Thallium		0.14		0.12	mg/Kg	6020/DOD
Vanadium		17		0.12	mg/Kg	6020/DOD
Zinc		41	Q	0.59	mg/Kg	6020/DOD
Potassium		630		12	mg/Kg	6020/DOD
Selenium		0.27	J	0.59	mg/Kg	6020/DOD
Mercury		0.050	J	0.12	mg/Kg	7471/DOD
Percent Solids		83		0.10	%	Moisture
Percent Moisture		17		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-17	**07PSS-0286-0001-SO**					
Silver		0.021	J Q	0.12	mg/Kg	6020/DOD
Aluminum		15000		3.7	mg/Kg	6020/DOD
Arsenic		8.9		0.12	mg/Kg	6020/DOD
Barium		69	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.63		0.12	mg/Kg	6020/DOD
Calcium		140		12	mg/Kg	6020/DOD
Cadmium		0.12		0.12	mg/Kg	6020/DOD
Chromium		18		0.25	mg/Kg	6020/DOD
Cobalt		12	Q	0.061	mg/Kg	6020/DOD
Copper		15	Q	0.25	mg/Kg	6020/DOD
Iron		23000		6.1	mg/Kg	6020/DOD
Magnesium		3600		12	mg/Kg	6020/DOD
Manganese		620	Q	0.61	mg/Kg	6020/DOD
Sodium		41		12	mg/Kg	6020/DOD
Nickel		18		0.12	mg/Kg	6020/DOD
Lead		13	Q	0.12	mg/Kg	6020/DOD
Thallium		0.17		0.12	mg/Kg	6020/DOD
Vanadium		27		0.12	mg/Kg	6020/DOD
Zinc		50	Q	0.61	mg/Kg	6020/DOD
Potassium		870		12	mg/Kg	6020/DOD
Selenium		0.45	J	0.61	mg/Kg	6020/DOD
Mercury		0.067	J	0.12	mg/Kg	7471/DOD
Percent Solids		81		0.10	%	Moisture
Percent Moisture		19		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-18	**07PSS-0303-0001-SO**					
Silver		0.041	J Q	0.12	mg/Kg	6020/DOD
Aluminum		10000		3.5	mg/Kg	6020/DOD
Arsenic		110		0.12	mg/Kg	6020/DOD
Barium		72	Q	1.2	mg/Kg	6020/DOD
Beryllium		0.66		0.12	mg/Kg	6020/DOD
Calcium		830		12	mg/Kg	6020/DOD
Cadmium		0.16		0.12	mg/Kg	6020/DOD
Chromium		14		0.23	mg/Kg	6020/DOD
Cobalt		8.2	Q	0.058	mg/Kg	6020/DOD
Copper		10	Q	0.23	mg/Kg	6020/DOD
Iron		29000		5.8	mg/Kg	6020/DOD
Magnesium		1600		12	mg/Kg	6020/DOD
Manganese		1000	Q	0.58	mg/Kg	6020/DOD
Sodium		170		12	mg/Kg	6020/DOD
Nickel		10		0.12	mg/Kg	6020/DOD
Lead		26	Q	0.12	mg/Kg	6020/DOD
Thallium		0.10	J	0.12	mg/Kg	6020/DOD
Vanadium		34		0.12	mg/Kg	6020/DOD
Zinc		28	Q	0.58	mg/Kg	6020/DOD
Potassium		1900		12	mg/Kg	6020/DOD
Selenium		0.49	J	0.58	mg/Kg	6020/DOD
Mercury		0.046	J	0.12	mg/Kg	7471/DOD
Percent Solids		84		0.10	%	Moisture
Percent Moisture		16		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-19	**07PSS-0304-0001-SO**					
Silver		0.025	J Q	0.13	mg/Kg	6020/DOD
Aluminum		12000		3.8	mg/Kg	6020/DOD
Arsenic		82		0.13	mg/Kg	6020/DOD
Barium		57	Q	1.3	mg/Kg	6020/DOD
Beryllium		0.55		0.13	mg/Kg	6020/DOD
Calcium		320		13	mg/Kg	6020/DOD
Cadmium		0.20		0.13	mg/Kg	6020/DOD
Chromium		16		0.25	mg/Kg	6020/DOD
Cobalt		5.4	Q	0.063	mg/Kg	6020/DOD
Copper		17	Q	0.25	mg/Kg	6020/DOD
Iron		25000		6.3	mg/Kg	6020/DOD
Magnesium		2200		13	mg/Kg	6020/DOD
Manganese		130	Q	0.63	mg/Kg	6020/DOD
Sodium		590		13	mg/Kg	6020/DOD
Nickel		15		0.13	mg/Kg	6020/DOD
Lead		11	Q	0.13	mg/Kg	6020/DOD
Thallium		0.11	J	0.13	mg/Kg	6020/DOD
Vanadium		26		0.13	mg/Kg	6020/DOD
Zinc		35	Q	0.63	mg/Kg	6020/DOD
Potassium		3300		13	mg/Kg	6020/DOD
Selenium		0.21	J	0.63	mg/Kg	6020/DOD
Mercury		0.035	J	0.13	mg/Kg	7471/DOD
Percent Solids		77		0.10	%	Moisture
Percent Moisture		23		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-20	**079SB-0267M-0001-SO**					
Silver		0.018	J Q	0.099	mg/Kg	6020/DOD
Aluminum		8400		3.0	mg/Kg	6020/DOD
Arsenic		51		0.099	mg/Kg	6020/DOD
Barium		58	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.57		0.099	mg/Kg	6020/DOD
Calcium		3800		9.9	mg/Kg	6020/DOD
Cadmium		0.10		0.099	mg/Kg	6020/DOD
Chromium		12		0.20	mg/Kg	6020/DOD
Cobalt		7.3	Q	0.050	mg/Kg	6020/DOD
Copper		12	Q	0.20	mg/Kg	6020/DOD
Iron		18000		5.0	mg/Kg	6020/DOD
Magnesium		2900		9.9	mg/Kg	6020/DOD
Manganese		390	Q	0.50	mg/Kg	6020/DOD
Sodium		240		9.9	mg/Kg	6020/DOD
Nickel		17		0.099	mg/Kg	6020/DOD
Lead		12	Q	0.099	mg/Kg	6020/DOD
Thallium		0.12		0.099	mg/Kg	6020/DOD
Vanadium		13		0.099	mg/Kg	6020/DOD
Zinc		36	Q	0.50	mg/Kg	6020/DOD
Potassium		1300		9.9	mg/Kg	6020/DOD
Selenium		0.22	J	0.50	mg/Kg	6020/DOD
Mercury		0.023	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.2		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-22	**079SB-0269M-0001-SO**					
Aluminum		2300		3.0	mg/Kg	6020/DOD
Arsenic		27		0.099	mg/Kg	6020/DOD
Barium		39	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.19		0.099	mg/Kg	6020/DOD
Calcium		1400		9.9	mg/Kg	6020/DOD
Cadmium		0.035	J	0.099	mg/Kg	6020/DOD
Chromium		4.6		0.20	mg/Kg	6020/DOD
Cobalt		2.7	Q	0.050	mg/Kg	6020/DOD
Copper		18	Q	0.20	mg/Kg	6020/DOD
Iron		6400		5.0	mg/Kg	6020/DOD
Magnesium		980		9.9	mg/Kg	6020/DOD
Manganese		5000	D Q	5.0	mg/Kg	6020/DOD
Sodium		130		9.9	mg/Kg	6020/DOD
Nickel		6.8		0.099	mg/Kg	6020/DOD
Lead		160	Q	0.099	mg/Kg	6020/DOD
Thallium		0.049	J	0.099	mg/Kg	6020/DOD
Vanadium		5.0		0.099	mg/Kg	6020/DOD
Zinc		17	Q	0.50	mg/Kg	6020/DOD
Potassium		490		9.9	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.30		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-23	**079SB-0322M-0001-SO**					
Silver		0.015	J Q	0.099	mg/Kg	6020/DOD
Aluminum		7200		3.0	mg/Kg	6020/DOD
Arsenic		36		0.099	mg/Kg	6020/DOD
Barium		48	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.48		0.099	mg/Kg	6020/DOD
Calcium		1900		9.9	mg/Kg	6020/DOD
Cadmium		0.084	J	0.099	mg/Kg	6020/DOD
Chromium		10		0.20	mg/Kg	6020/DOD
Cobalt		6.3	Q	0.050	mg/Kg	6020/DOD
Copper		12	Q	0.20	mg/Kg	6020/DOD
Iron		17000		5.0	mg/Kg	6020/DOD
Magnesium		2300		9.9	mg/Kg	6020/DOD
Manganese		280	Q	0.50	mg/Kg	6020/DOD
Sodium		240		9.9	mg/Kg	6020/DOD
Nickel		16		0.099	mg/Kg	6020/DOD
Lead		9.6	Q	0.099	mg/Kg	6020/DOD
Thallium		0.11		0.099	mg/Kg	6020/DOD
Vanadium		11		0.099	mg/Kg	6020/DOD
Zinc		39	Q	0.50	mg/Kg	6020/DOD
Potassium		1100		9.9	mg/Kg	6020/DOD
Selenium		0.11	J	0.50	mg/Kg	6020/DOD
Mercury		0.017	J	0.12	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.93		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-25	**079SB-0271M-0001-SO**					
Silver		0.015	J Q	0.099	mg/Kg	6020/DOD
Aluminum		3700	J	3.0	mg/Kg	6020/DOD
Arsenic		5.6		0.099	mg/Kg	6020/DOD
Barium		27	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.24		0.099	mg/Kg	6020/DOD
Calcium		670		9.9	mg/Kg	6020/DOD
Cadmium		0.034	J	0.099	mg/Kg	6020/DOD
Chromium		6.2		0.20	mg/Kg	6020/DOD
Cobalt		2.3	Q	0.050	mg/Kg	6020/DOD
Copper		2.9	Q	0.20	mg/Kg	6020/DOD
Iron		6100	J	5.0	mg/Kg	6020/DOD
Magnesium		640		9.9	mg/Kg	6020/DOD
Manganese		210	Q	0.50	mg/Kg	6020/DOD
Sodium		20		9.9	mg/Kg	6020/DOD
Nickel		5.9		0.099	mg/Kg	6020/DOD
Lead		3.8	Q	0.099	mg/Kg	6020/DOD
Thallium		0.049	J	0.099	mg/Kg	6020/DOD
Vanadium		6.3		0.099	mg/Kg	6020/DOD
Zinc		11	Q	0.50	mg/Kg	6020/DOD
Potassium		350		9.9	mg/Kg	6020/DOD
Selenium		0.058	J	0.50	mg/Kg	6020/DOD
Mercury		0.021	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.64		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-26	**079SB-0272M-0001-SO**					
Aluminum		990		3.0	mg/Kg	6020/DOD
Arsenic		8.8		0.10	mg/Kg	6020/DOD
Barium		7.7	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.088	J	0.10	mg/Kg	6020/DOD
Calcium		170		10	mg/Kg	6020/DOD
Cadmium		0.11		0.10	mg/Kg	6020/DOD
Chromium		4.5		0.20	mg/Kg	6020/DOD
Cobalt		1.9	Q	0.050	mg/Kg	6020/DOD
Copper		2.0	Q	0.20	mg/Kg	6020/DOD
Iron		15000		5.0	mg/Kg	6020/DOD
Magnesium		410		10	mg/Kg	6020/DOD
Manganese		300	Q	0.50	mg/Kg	6020/DOD
Sodium		24		10	mg/Kg	6020/DOD
Nickel		6.4		0.10	mg/Kg	6020/DOD
Lead		2.5	Q	0.10	mg/Kg	6020/DOD
Antimony		0.18	J	0.20	mg/Kg	6020/DOD
Thallium		0.058	J	0.10	mg/Kg	6020/DOD
Vanadium		2.6		0.10	mg/Kg	6020/DOD
Zinc		56	Q	0.50	mg/Kg	6020/DOD
Potassium		280		10	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.13		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-27	**079SB-0273M-0001-SO**					
Silver		0.021	J Q	0.10	mg/Kg	6020/DOD
Aluminum		8600		3.0	mg/Kg	6020/DOD
Arsenic		32		0.10	mg/Kg	6020/DOD
Barium		87	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.45		0.10	mg/Kg	6020/DOD
Calcium		550		10	mg/Kg	6020/DOD
Cadmium		0.11		0.10	mg/Kg	6020/DOD
Chromium		13		0.20	mg/Kg	6020/DOD
Cobalt		7.8	Q	0.050	mg/Kg	6020/DOD
Copper		29	Q	0.20	mg/Kg	6020/DOD
Iron		17000		5.0	mg/Kg	6020/DOD
Magnesium		2500		10	mg/Kg	6020/DOD
Manganese		5600	D Q	5.0	mg/Kg	6020/DOD
Sodium		690		10	mg/Kg	6020/DOD
Nickel		20		0.10	mg/Kg	6020/DOD
Lead		190	Q	0.10	mg/Kg	6020/DOD
Antimony		0.063	J	0.20	mg/Kg	6020/DOD
Thallium		0.11		0.10	mg/Kg	6020/DOD
Vanadium		14		0.10	mg/Kg	6020/DOD
Zinc		38	Q	0.50	mg/Kg	6020/DOD
Potassium		1900		10	mg/Kg	6020/DOD
Selenium		0.11	J	0.50	mg/Kg	6020/DOD
Mercury		0.019	J	0.10	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.96		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-28	**079SB-0323M-0001-SO**					
Silver		0.012	J Q	0.099	mg/Kg	6020/DOD
Aluminum		3800		3.0	mg/Kg	6020/DOD
Arsenic		43		0.099	mg/Kg	6020/DOD
Barium		48	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.30		0.099	mg/Kg	6020/DOD
Calcium		2900		9.9	mg/Kg	6020/DOD
Cadmium		0.060	J	0.099	mg/Kg	6020/DOD
Chromium		7.3		0.20	mg/Kg	6020/DOD
Cobalt		3.1	Q	0.050	mg/Kg	6020/DOD
Copper		18	Q	0.20	mg/Kg	6020/DOD
Iron		8000		5.0	mg/Kg	6020/DOD
Magnesium		1700		9.9	mg/Kg	6020/DOD
Manganese		5000	D Q	5.0	mg/Kg	6020/DOD
Sodium		180		9.9	mg/Kg	6020/DOD
Nickel		8.9		0.099	mg/Kg	6020/DOD
Lead		210	Q	0.099	mg/Kg	6020/DOD
Thallium		0.073	J	0.099	mg/Kg	6020/DOD
Vanadium		7.1		0.099	mg/Kg	6020/DOD
Zinc		22	Q	0.50	mg/Kg	6020/DOD
Potassium		780		9.9	mg/Kg	6020/DOD
Selenium		0.061	J	0.50	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.48		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-29	**079SB-0274M-0001-SO**					
Silver		0.015	J Q	0.098	mg/Kg	6020/DOD
Aluminum		5900		2.9	mg/Kg	6020/DOD
Arsenic		110		0.098	mg/Kg	6020/DOD
Barium		35	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.28		0.098	mg/Kg	6020/DOD
Calcium		310		9.8	mg/Kg	6020/DOD
Cadmium		0.091	J	0.098	mg/Kg	6020/DOD
Chromium		9.9		0.20	mg/Kg	6020/DOD
Cobalt		5.5	Q	0.049	mg/Kg	6020/DOD
Copper		12	Q	0.20	mg/Kg	6020/DOD
Iron		13000		4.9	mg/Kg	6020/DOD
Magnesium		1500		9.8	mg/Kg	6020/DOD
Manganese		1400	Q	0.49	mg/Kg	6020/DOD
Sodium		150		9.8	mg/Kg	6020/DOD
Nickel		13		0.098	mg/Kg	6020/DOD
Lead		36	Q	0.098	mg/Kg	6020/DOD
Thallium		0.10		0.098	mg/Kg	6020/DOD
Vanadium		10		0.098	mg/Kg	6020/DOD
Zinc		34	Q	0.49	mg/Kg	6020/DOD
Potassium		1600		9.8	mg/Kg	6020/DOD
Selenium		0.064	J	0.49	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.53		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-30	**079SB-0275M-0001-SO**					
Silver		0.015	J Q	0.096	mg/Kg	6020/DOD
Aluminum		9100		2.9	mg/Kg	6020/DOD
Arsenic		11		0.096	mg/Kg	6020/DOD
Barium		58	Q	0.96	mg/Kg	6020/DOD
Beryllium		0.52		0.096	mg/Kg	6020/DOD
Calcium		1800		9.6	mg/Kg	6020/DOD
Cadmium		0.11		0.096	mg/Kg	6020/DOD
Chromium		14		0.19	mg/Kg	6020/DOD
Cobalt		8.3	Q	0.048	mg/Kg	6020/DOD
Copper		17	Q	0.19	mg/Kg	6020/DOD
Iron		22000		4.8	mg/Kg	6020/DOD
Magnesium		2700		9.6	mg/Kg	6020/DOD
Manganese		320	Q	0.48	mg/Kg	6020/DOD
Sodium		54		9.6	mg/Kg	6020/DOD
Nickel		18		0.096	mg/Kg	6020/DOD
Lead		12	Q	0.096	mg/Kg	6020/DOD
Thallium		0.12		0.096	mg/Kg	6020/DOD
Vanadium		15		0.096	mg/Kg	6020/DOD
Zinc		42	Q	0.48	mg/Kg	6020/DOD
Potassium		900		9.6	mg/Kg	6020/DOD
Selenium		0.19	J	0.48	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-31	**079SB-0278M-0001-SO**					
Silver		0.015	J Q	0.098	mg/Kg	6020/DOD
Aluminum		7700		2.9	mg/Kg	6020/DOD
Arsenic		12		0.098	mg/Kg	6020/DOD
Barium		42	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.39		0.098	mg/Kg	6020/DOD
Calcium		480		9.8	mg/Kg	6020/DOD
Cadmium		0.11		0.098	mg/Kg	6020/DOD
Chromium		11		0.20	mg/Kg	6020/DOD
Cobalt		6.8	Q	0.049	mg/Kg	6020/DOD
Copper		11	Q	0.20	mg/Kg	6020/DOD
Iron		17000		4.9	mg/Kg	6020/DOD
Magnesium		2000		9.8	mg/Kg	6020/DOD
Manganese		350	Q	0.49	mg/Kg	6020/DOD
Sodium		54		9.8	mg/Kg	6020/DOD
Nickel		17		0.098	mg/Kg	6020/DOD
Lead		10	Q	0.098	mg/Kg	6020/DOD
Thallium		0.12		0.098	mg/Kg	6020/DOD
Vanadium		13		0.098	mg/Kg	6020/DOD
Zinc		55	Q	0.49	mg/Kg	6020/DOD
Potassium		850		9.8	mg/Kg	6020/DOD
Selenium		0.11	J	0.49	mg/Kg	6020/DOD
Mercury		0.049	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-32	**079SB-0279M-0001-SO**					
Aluminum		2600		2.9	mg/Kg	6020/DOD
Arsenic		14		0.098	mg/Kg	6020/DOD
Barium		22	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.18		0.098	mg/Kg	6020/DOD
Calcium		1600		9.8	mg/Kg	6020/DOD
Cadmium		0.096	J	0.098	mg/Kg	6020/DOD
Chromium		4.3		0.20	mg/Kg	6020/DOD
Cobalt		3.8	Q	0.049	mg/Kg	6020/DOD
Copper		4.9	Q	0.20	mg/Kg	6020/DOD
Iron		6600		4.9	mg/Kg	6020/DOD
Magnesium		890		9.8	mg/Kg	6020/DOD
Manganese		680	Q	0.49	mg/Kg	6020/DOD
Sodium		45		9.8	mg/Kg	6020/DOD
Nickel		11		0.098	mg/Kg	6020/DOD
Lead		9.0	Q	0.098	mg/Kg	6020/DOD
Thallium		0.067	J	0.098	mg/Kg	6020/DOD
Vanadium		4.3		0.098	mg/Kg	6020/DOD
Zinc		68	Q	0.49	mg/Kg	6020/DOD
Potassium		400		9.8	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.31		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-33	**079SB-0280M-0001-SO**					
Aluminum		5200		3.0	mg/Kg	6020/DOD
Arsenic		11		0.099	mg/Kg	6020/DOD
Barium		34	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.28		0.099	mg/Kg	6020/DOD
Calcium		210		9.9	mg/Kg	6020/DOD
Cadmium		0.16		0.099	mg/Kg	6020/DOD
Chromium		11		0.20	mg/Kg	6020/DOD
Cobalt		5.9	Q	0.050	mg/Kg	6020/DOD
Copper		9.4	Q	0.20	mg/Kg	6020/DOD
Iron		13000		5.0	mg/Kg	6020/DOD
Magnesium		1800		9.9	mg/Kg	6020/DOD
Manganese		190	Q	0.50	mg/Kg	6020/DOD
Sodium		28		9.9	mg/Kg	6020/DOD
Nickel		20		0.099	mg/Kg	6020/DOD
Lead		6.2	Q	0.099	mg/Kg	6020/DOD
Thallium		0.10		0.099	mg/Kg	6020/DOD
Vanadium		8.4		0.099	mg/Kg	6020/DOD
Zinc		73	Q	0.50	mg/Kg	6020/DOD
Potassium		730		9.9	mg/Kg	6020/DOD
Mercury		0.018	J	0.095	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.62		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-34	**079SB-0281M-0001-SO**					
Silver		0.012	J Q	0.099	mg/Kg	6020/DOD
Aluminum		4900		3.0	mg/Kg	6020/DOD
Arsenic		10		0.099	mg/Kg	6020/DOD
Barium		35	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.27		0.099	mg/Kg	6020/DOD
Calcium		390		9.9	mg/Kg	6020/DOD
Cadmium		0.10		0.099	mg/Kg	6020/DOD
Chromium		6.8		0.20	mg/Kg	6020/DOD
Cobalt		4.4	Q	0.050	mg/Kg	6020/DOD
Copper		4.7	Q	0.20	mg/Kg	6020/DOD
Iron		9200		5.0	mg/Kg	6020/DOD
Magnesium		930		9.9	mg/Kg	6020/DOD
Manganese		430	Q	0.50	mg/Kg	6020/DOD
Sodium		22		9.9	mg/Kg	6020/DOD
Nickel		12		0.099	mg/Kg	6020/DOD
Lead		5.4	Q	0.099	mg/Kg	6020/DOD
Thallium		0.086	J	0.099	mg/Kg	6020/DOD
Vanadium		9.2		0.099	mg/Kg	6020/DOD
Zinc		71	Q	0.50	mg/Kg	6020/DOD
Potassium		390		9.9	mg/Kg	6020/DOD
Selenium		0.11	J	0.50	mg/Kg	6020/DOD
Mercury		0.051	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.58		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-35	**079SB-0282M-0001-SO**					
Silver		0.016	J Q	0.10	mg/Kg	6020/DOD
Aluminum		7200		3.0	mg/Kg	6020/DOD
Arsenic		12		0.10	mg/Kg	6020/DOD
Barium		45	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.37		0.10	mg/Kg	6020/DOD
Calcium		1100		10	mg/Kg	6020/DOD
Cadmium		0.17		0.10	mg/Kg	6020/DOD
Chromium		10		0.20	mg/Kg	6020/DOD
Cobalt		7.4	Q	0.050	mg/Kg	6020/DOD
Copper		12	Q	0.20	mg/Kg	6020/DOD
Iron		16000		5.0	mg/Kg	6020/DOD
Magnesium		2200		10	mg/Kg	6020/DOD
Manganese		240	Q	0.50	mg/Kg	6020/DOD
Sodium		44		10	mg/Kg	6020/DOD
Nickel		20		0.10	mg/Kg	6020/DOD
Lead		8.0	Q	0.10	mg/Kg	6020/DOD
Thallium		0.097	J	0.10	mg/Kg	6020/DOD
Vanadium		12		0.10	mg/Kg	6020/DOD
Zinc		84	Q	0.50	mg/Kg	6020/DOD
Potassium		830		10	mg/Kg	6020/DOD
Selenium		0.087	J	0.50	mg/Kg	6020/DOD
Mercury		0.029	J	0.098	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.2		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-36	**079SB-0283M-0001-SO**					
Silver		0.011	J Q	0.097	mg/Kg	6020/DOD
Aluminum		8200		2.9	mg/Kg	6020/DOD
Arsenic		11		0.097	mg/Kg	6020/DOD
Barium		38	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.38		0.097	mg/Kg	6020/DOD
Calcium		130		9.7	mg/Kg	6020/DOD
Cadmium		0.11		0.097	mg/Kg	6020/DOD
Chromium		11		0.19	mg/Kg	6020/DOD
Cobalt		7.1	Q	0.049	mg/Kg	6020/DOD
Copper		15	Q	0.19	mg/Kg	6020/DOD
Iron		18000		4.9	mg/Kg	6020/DOD
Magnesium		1900		9.7	mg/Kg	6020/DOD
Manganese		190	Q	0.49	mg/Kg	6020/DOD
Sodium		160		9.7	mg/Kg	6020/DOD
Nickel		17		0.097	mg/Kg	6020/DOD
Lead		8.5	Q	0.097	mg/Kg	6020/DOD
Thallium		0.12		0.097	mg/Kg	6020/DOD
Vanadium		13		0.097	mg/Kg	6020/DOD
Zinc		58	Q	0.49	mg/Kg	6020/DOD
Potassium		1100		9.7	mg/Kg	6020/DOD
Selenium		0.11	J	0.49	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-37	**079SB-0284M-0001-SO**					
Silver		0.011	J Q	0.099	mg/Kg	6020/DOD
Aluminum		6500		3.0	mg/Kg	6020/DOD
Arsenic		15		0.099	mg/Kg	6020/DOD
Barium		26	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.31		0.099	mg/Kg	6020/DOD
Calcium		74		9.9	mg/Kg	6020/DOD
Cadmium		0.11		0.099	mg/Kg	6020/DOD
Chromium		8.9		0.20	mg/Kg	6020/DOD
Cobalt		5.2	Q	0.050	mg/Kg	6020/DOD
Copper		10	Q	0.20	mg/Kg	6020/DOD
Iron		14000		5.0	mg/Kg	6020/DOD
Magnesium		2000		9.9	mg/Kg	6020/DOD
Manganese		220	Q	0.50	mg/Kg	6020/DOD
Sodium		28		9.9	mg/Kg	6020/DOD
Nickel		13		0.099	mg/Kg	6020/DOD
Lead		7.1	Q	0.099	mg/Kg	6020/DOD
Thallium		0.11		0.099	mg/Kg	6020/DOD
Vanadium		11		0.099	mg/Kg	6020/DOD
Zinc		55	Q	0.50	mg/Kg	6020/DOD
Potassium		700		9.9	mg/Kg	6020/DOD
Selenium		0.15	J	0.50	mg/Kg	6020/DOD
Mercury		0.018	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.97		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-38	**079SB-0296M-0001-SO**					
Silver		0.017	J Q	0.10	mg/Kg	6020/DOD
Aluminum		6800		3.0	mg/Kg	6020/DOD
Arsenic		18		0.10	mg/Kg	6020/DOD
Barium		42	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.41		0.10	mg/Kg	6020/DOD
Calcium		780		10	mg/Kg	6020/DOD
Cadmium		0.14		0.10	mg/Kg	6020/DOD
Chromium		10		0.20	mg/Kg	6020/DOD
Cobalt		6.9	Q	0.050	mg/Kg	6020/DOD
Copper		13	Q	0.20	mg/Kg	6020/DOD
Iron		20000		5.0	mg/Kg	6020/DOD
Magnesium		1700		10	mg/Kg	6020/DOD
Manganese		270	Q	0.50	mg/Kg	6020/DOD
Sodium		240		10	mg/Kg	6020/DOD
Nickel		16		0.10	mg/Kg	6020/DOD
Lead		9.4	Q	0.10	mg/Kg	6020/DOD
Thallium		0.11		0.10	mg/Kg	6020/DOD
Vanadium		12		0.10	mg/Kg	6020/DOD
Zinc		48	Q	0.50	mg/Kg	6020/DOD
Potassium		1300		10	mg/Kg	6020/DOD
Selenium		0.12	J	0.50	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		1.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-39	**079SB-0297M-0001-SO**					
Silver		0.011	J Q	0.10	mg/Kg	6020/DOD
Aluminum		2900		3.0	mg/Kg	6020/DOD
Arsenic		21		0.10	mg/Kg	6020/DOD
Barium		20	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.19		0.10	mg/Kg	6020/DOD
Calcium		870		10	mg/Kg	6020/DOD
Cadmium		0.16		0.10	mg/Kg	6020/DOD
Chromium		7.4		0.20	mg/Kg	6020/DOD
Cobalt		9.2	Q	0.050	mg/Kg	6020/DOD
Copper		6.9	Q	0.20	mg/Kg	6020/DOD
Iron		11000		5.0	mg/Kg	6020/DOD
Magnesium		870		10	mg/Kg	6020/DOD
Manganese		350	Q	0.50	mg/Kg	6020/DOD
Sodium		150		10	mg/Kg	6020/DOD
Nickel		20		0.10	mg/Kg	6020/DOD
Lead		5.8	Q	0.10	mg/Kg	6020/DOD
Thallium		0.076	J	0.10	mg/Kg	6020/DOD
Vanadium		5.8		0.10	mg/Kg	6020/DOD
Zinc		63	Q	0.50	mg/Kg	6020/DOD
Potassium		550		10	mg/Kg	6020/DOD
Selenium		0.080	J	0.50	mg/Kg	6020/DOD
Percent Solids		100		0.10	%	Moisture
Percent Moisture		0.41		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-40	**079SB-0298M-0001-SO**					
Silver		0.016	J Q	0.099	mg/Kg	6020/DOD
Aluminum		8800		3.0	mg/Kg	6020/DOD
Arsenic		36		0.099	mg/Kg	6020/DOD
Barium		53	Q	0.99	mg/Kg	6020/DOD
Beryllium		0.42		0.099	mg/Kg	6020/DOD
Calcium		170		9.9	mg/Kg	6020/DOD
Cadmium		0.11		0.099	mg/Kg	6020/DOD
Chromium		13		0.20	mg/Kg	6020/DOD
Cobalt		7.0	Q	0.050	mg/Kg	6020/DOD
Copper		15	Q	0.20	mg/Kg	6020/DOD
Iron		20000		5.0	mg/Kg	6020/DOD
Magnesium		1900		9.9	mg/Kg	6020/DOD
Manganese		230	Q	0.50	mg/Kg	6020/DOD
Sodium		300		9.9	mg/Kg	6020/DOD
Nickel		17		0.099	mg/Kg	6020/DOD
Lead		10	Q	0.099	mg/Kg	6020/DOD
Thallium		0.11		0.099	mg/Kg	6020/DOD
Vanadium		15		0.099	mg/Kg	6020/DOD
Zinc		40	Q	0.50	mg/Kg	6020/DOD
Potassium		3300		9.9	mg/Kg	6020/DOD
Selenium		0.14	J	0.50	mg/Kg	6020/DOD
Mercury		0.015	J	0.11	mg/Kg	7471/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.98		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-41	**079SB-0299M-0001-SO**					
Aluminum		4300		2.9	mg/Kg	6020/DOD
Arsenic		46		0.097	mg/Kg	6020/DOD
Barium		25	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.22		0.097	mg/Kg	6020/DOD
Calcium		130		9.7	mg/Kg	6020/DOD
Cadmium		0.098		0.097	mg/Kg	6020/DOD
Chromium		7.4		0.19	mg/Kg	6020/DOD
Cobalt		6.8	Q	0.049	mg/Kg	6020/DOD
Copper		8.0	Q	0.19	mg/Kg	6020/DOD
Iron		10000		4.9	mg/Kg	6020/DOD
Magnesium		1000		9.7	mg/Kg	6020/DOD
Manganese		160	Q	0.49	mg/Kg	6020/DOD
Sodium		190		9.7	mg/Kg	6020/DOD
Nickel		15		0.097	mg/Kg	6020/DOD
Lead		6.4	Q	0.097	mg/Kg	6020/DOD
Thallium		0.065	J	0.097	mg/Kg	6020/DOD
Vanadium		7.4		0.097	mg/Kg	6020/DOD
Zinc		39	Q	0.49	mg/Kg	6020/DOD
Potassium		1000		9.7	mg/Kg	6020/DOD
Selenium		0.070	J	0.49	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.54		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-42	**079SB-0300M-0001-SO**					
Silver		0.018	J Q	0.098	mg/Kg	6020/DOD
Aluminum		6300		2.9	mg/Kg	6020/DOD
Arsenic		15		0.098	mg/Kg	6020/DOD
Barium		41	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.40		0.098	mg/Kg	6020/DOD
Calcium		1500		9.8	mg/Kg	6020/DOD
Cadmium		0.21		0.098	mg/Kg	6020/DOD
Chromium		10		0.20	mg/Kg	6020/DOD
Cobalt		11	Q	0.049	mg/Kg	6020/DOD
Copper		13	Q	0.20	mg/Kg	6020/DOD
Iron		18000		4.9	mg/Kg	6020/DOD
Magnesium		2100		9.8	mg/Kg	6020/DOD
Manganese		330	Q	0.49	mg/Kg	6020/DOD
Sodium		260		9.8	mg/Kg	6020/DOD
Nickel		25		0.098	mg/Kg	6020/DOD
Lead		8.9	Q	0.098	mg/Kg	6020/DOD
Thallium		0.097	J	0.098	mg/Kg	6020/DOD
Vanadium		10		0.098	mg/Kg	6020/DOD
Zinc		82	Q	0.49	mg/Kg	6020/DOD
Potassium		870		9.8	mg/Kg	6020/DOD
Selenium		0.11	J	0.49	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.87		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-43	**079SB-0301M-0001-SO**					
Silver		0.012	J Q	0.095	mg/Kg	6020/DOD
Aluminum		4300		2.9	mg/Kg	6020/DOD
Arsenic		8.1		0.095	mg/Kg	6020/DOD
Barium		27	Q	0.95	mg/Kg	6020/DOD
Beryllium		0.23		0.095	mg/Kg	6020/DOD
Calcium		250		9.5	mg/Kg	6020/DOD
Cadmium		0.076	J	0.095	mg/Kg	6020/DOD
Chromium		6.1		0.19	mg/Kg	6020/DOD
Cobalt		5.8	Q	0.048	mg/Kg	6020/DOD
Copper		5.6	Q	0.19	mg/Kg	6020/DOD
Iron		10000		4.8	mg/Kg	6020/DOD
Magnesium		780		9.5	mg/Kg	6020/DOD
Manganese		450	Q	0.48	mg/Kg	6020/DOD
Sodium		26		9.5	mg/Kg	6020/DOD
Nickel		8.3		0.095	mg/Kg	6020/DOD
Lead		5.9	Q	0.095	mg/Kg	6020/DOD
Thallium		0.068	J	0.095	mg/Kg	6020/DOD
Vanadium		8.4		0.095	mg/Kg	6020/DOD
Zinc		23	Q	0.48	mg/Kg	6020/DOD
Potassium		360		9.5	mg/Kg	6020/DOD
Selenium		0.064	J	0.48	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.75		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22281-44	**079SB-0302M-0001-SO**					
Silver		0.016	J Q	0.10	mg/Kg	6020/DOD
Aluminum		6200		3.0	mg/Kg	6020/DOD
Arsenic		82		0.10	mg/Kg	6020/DOD
Barium		46	Q	1.0	mg/Kg	6020/DOD
Beryllium		0.36		0.10	mg/Kg	6020/DOD
Calcium		99		10	mg/Kg	6020/DOD
Cadmium		0.13		0.10	mg/Kg	6020/DOD
Chromium		9.6		0.20	mg/Kg	6020/DOD
Cobalt		8.8	Q	0.050	mg/Kg	6020/DOD
Copper		15	Q	0.20	mg/Kg	6020/DOD
Iron		19000		5.0	mg/Kg	6020/DOD
Magnesium		1500		10	mg/Kg	6020/DOD
Manganese		190	Q	0.50	mg/Kg	6020/DOD
Sodium		250		10	mg/Kg	6020/DOD
Nickel		17		0.10	mg/Kg	6020/DOD
Lead		35	Q	0.10	mg/Kg	6020/DOD
Antimony		0.18	J	0.20	mg/Kg	6020/DOD
Thallium		0.50		0.10	mg/Kg	6020/DOD
Vanadium		10		0.10	mg/Kg	6020/DOD
Zinc		44	Q	0.50	mg/Kg	6020/DOD
Potassium		1900		10	mg/Kg	6020/DOD
Selenium		0.17	J	0.50	mg/Kg	6020/DOD
Percent Solids		99		0.10	%	Moisture
Percent Moisture		0.76		0.10	%	Moisture

METHOD SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Mercury (CVAA)	TAL CAN	SW846 7471/DOD	
Preparation, Mercury	TAL CAN		SW846 7471A
Mercury (CVAA)	TAL CAN	SW846 7471/DOD	
Incremental Sampling Method - Dry, Disaggregate, Split	TAL CAN		EPA Increment, Prep
Preparation, Mercury	TAL CAN		SW846 7471A
Percent Moisture	TAL CAN	EPA Moisture	
Metals (ICP/MS)	TAL PIT	SW846 6020/DOD	
Preparation, Metals	TAL PIT		SW846 3050B

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method	Analyst	Analyst ID
SW846 6020/DOD	Reinheimer, Bill	BR
SW846 7471/DOD	Sutherland, Aaron	AS
SW846 7471/DOD	Toth, Roger	RT
EPA Moisture	Stiller, Jennifer	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0245M-0001-SO**

Lab Sample ID: 240-22281-1 Date Sampled: 03/20/2013 1819
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0150			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.097
Aluminum		4500		0.28	2.9
Arsenic		5.0		0.018	0.097
Barium		25	Q	0.010	0.97
Beryllium		0.26		0.0073	0.097
Calcium		260		1.3	9.7
Cadmium		0.046	J	0.013	0.097
Chromium		6.0		0.022	0.19
Cobalt		4.8	Q	0.0023	0.049
Copper		6.4	Q	0.032	0.19
Iron		10000		1.0	4.9
Magnesium		940		1.0	9.7
Manganese		270	Q	0.015	0.49
Sodium		26		2.6	9.7
Nickel		10		0.011	0.097
Lead		5.2	Q	0.015	0.097
Antimony		0.097	U	0.045	0.19
Thallium		0.084	J	0.0099	0.097
Vanadium		7.9		0.029	0.097
Zinc		19	Q	0.063	0.49
Potassium		420		3.1	9.7
Selenium		0.067	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.59 g
Analysis Date:	04/02/2013 1454			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.016	J	0.014	0.10

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0324M-0001-SO**

Lab Sample ID: 240-22281-3 Date Sampled: 03/20/2013 1816
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0158			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.011	J Q	0.011	0.10
Aluminum		6800	J	0.28	3.0
Arsenic		6.5		0.018	0.10
Barium		54	Q	0.011	1.0
Beryllium		0.43		0.0075	0.10
Calcium		640		1.3	10
Cadmium		0.11		0.013	0.10
Chromium		9.7		0.022	0.20
Cobalt		8.3	Q	0.0024	0.050
Copper		11	Q	0.033	0.20
Iron		18000	J	1.1	5.0
Magnesium		1700		1.1	10
Manganese		880	Q J	0.016	0.50
Sodium		35		2.7	10
Nickel		16		0.011	0.10
Lead		8.2	Q	0.015	0.10
Antimony		0.10	U J	0.046	0.20
Thallium		0.11		0.010	0.10
Vanadium		11		0.030	0.10
Zinc		32	Q	0.065	0.50
Potassium		680		3.2	10
Selenium		0.10	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.54 g
Analysis Date:	04/02/2013 1500			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0247M-0001-SO**

Lab Sample ID: 240-22281-4 Date Sampled: 03/20/2013 1817
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0304			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.098
Aluminum		2100		0.28	2.9
Arsenic		4.7		0.018	0.098
Barium		45	Q	0.010	0.98
Beryllium		0.14		0.0074	0.098
Calcium		210		1.3	9.8
Cadmium		0.055	J	0.013	0.098
Chromium		7.8		0.022	0.20
Cobalt		4.5	Q	0.0024	0.049
Copper		3.6	Q	0.032	0.20
Iron		6800		1.1	4.9
Magnesium		450		1.1	9.8
Manganese		950	Q	0.016	0.49
Sodium		24		2.6	9.8
Nickel		11		0.011	0.098
Lead		3.6	Q	0.015	0.098
Antimony		0.19	J	0.045	0.20
Thallium		0.061	J	0.010	0.098
Vanadium		4.2		0.029	0.098
Zinc		21	Q	0.064	0.49
Potassium		350		3.1	9.8
Selenium		0.098	U	0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.63 g
Analysis Date:	04/02/2013 1502			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.031	U	0.013	0.095

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0325M-0001-SO**

Lab Sample ID: 240-22281-6 Date Sampled: 03/20/2013 1818
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0312			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.097
Aluminum		1900		0.28	2.9
Arsenic		4.3		0.018	0.097
Barium		29	Q	0.010	0.97
Beryllium		0.12		0.0073	0.097
Calcium		480		1.3	9.7
Cadmium		0.060	J	0.013	0.097
Chromium		7.4		0.022	0.19
Cobalt		4.7	Q	0.0023	0.049
Copper		3.8	Q	0.032	0.19
Iron		6000		1.0	4.9
Magnesium		480		1.0	9.7
Sodium		20		2.6	9.7
Nickel		12		0.011	0.097
Lead		3.4	Q	0.015	0.097
Antimony		0.074	J	0.045	0.19
Thallium		0.061	J	0.0099	0.097
Vanadium		4.7		0.029	0.097
Zinc		19	Q	0.063	0.49
Potassium		320		3.1	9.7
Selenium		0.097	U	0.049	0.49

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	10			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 1318			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		2300	D Q	0.15	4.9

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1503			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.017	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0249M-0001-SO**

Lab Sample ID: 240-22281-7 Date Sampled: 03/20/2013 1749
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.04 g
Analysis Date:	04/28/2013 0320			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.096
Aluminum		2900		0.27	2.9
Arsenic		2.9		0.017	0.096
Barium		15	Q	0.010	0.96
Beryllium		0.18		0.0072	0.096
Calcium		200		1.3	9.6
Cadmium		0.044	J	0.013	0.096
Chromium		4.8		0.021	0.19
Cobalt		6.8	Q	0.0023	0.048
Copper		4.4	Q	0.032	0.19
Iron		7400		1.0	4.8
Magnesium		670		1.0	9.6
Manganese		160	Q	0.015	0.48
Sodium		19		2.6	9.6
Nickel		11		0.011	0.096
Lead		4.4	Q	0.015	0.096
Antimony		0.096	U	0.044	0.19
Thallium		0.062	J	0.0098	0.096
Vanadium		4.9		0.029	0.096
Zinc		16	Q	0.062	0.48
Potassium		410		3.0	9.6
Selenium		0.096	U	0.049	0.48

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1504			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0250M-0001-SO**

Lab Sample ID: 240-22281-8 Date Sampled: 03/20/2013 1807
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0328			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	U Q	0.011	0.099
Aluminum		3400		0.28	3.0
Arsenic		3.3		0.018	0.099
Barium		15	Q	0.011	0.99
Beryllium		0.19		0.0074	0.099
Calcium		130		1.3	9.9
Cadmium		0.051	J	0.013	0.099
Chromium		5.2		0.022	0.20
Cobalt		4.3	Q	0.0024	0.050
Copper		4.4	Q	0.033	0.20
Iron		7700		1.1	5.0
Magnesium		720		1.1	9.9
Manganese		130	Q	0.016	0.50
Sodium		19		2.6	9.9
Nickel		8.5		0.011	0.099
Lead		4.3	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.062	J	0.010	0.099
Vanadium		6.2		0.030	0.099
Zinc		20	Q	0.064	0.50
Potassium		400		3.1	9.9
Selenium		0.099	U	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.67 g
Analysis Date:	04/02/2013 1507			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.030	U	0.013	0.090

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0251M-0001-SO**

Lab Sample ID: 240-22281-9 Date Sampled: 03/20/2013 1658
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0336			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.098
Aluminum		4700		0.28	2.9
Arsenic		4.1		0.018	0.098
Barium		25	Q	0.010	0.98
Beryllium		0.23		0.0074	0.098
Calcium		330		1.3	9.8
Cadmium		0.074	J	0.013	0.098
Chromium		7.7		0.022	0.20
Cobalt		5.2	Q	0.0024	0.049
Copper		6.9	Q	0.032	0.20
Iron		10000		1.1	4.9
Magnesium		1100		1.1	9.8
Manganese		220	Q	0.016	0.49
Sodium		26		2.6	9.8
Nickel		11		0.011	0.098
Lead		5.6	Q	0.015	0.098
Antimony		0.098	U	0.045	0.20
Thallium		0.079	J	0.010	0.098
Vanadium		7.7		0.029	0.098
Zinc		28	Q	0.064	0.49
Potassium		520		3.1	9.8
Selenium		0.098	U	0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.54 g
Analysis Date:	04/02/2013 1508			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0252M-0001-SO**

Lab Sample ID: 240-22281-10 Date Sampled: 03/20/2013 1822
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0345			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.097
Aluminum		4500		0.28	2.9
Arsenic		12		0.018	0.097
Barium		20	Q	0.010	0.97
Beryllium		0.24		0.0073	0.097
Calcium		150		1.3	9.7
Cadmium		0.066	J	0.013	0.097
Chromium		7.2		0.022	0.19
Cobalt		3.9	Q	0.0023	0.049
Copper		6.4	Q	0.032	0.19
Iron		11000		1.0	4.9
Magnesium		900		1.0	9.7
Manganese		150	Q	0.015	0.49
Sodium		23		2.6	9.7
Nickel		11		0.011	0.097
Lead		5.1	Q	0.015	0.097
Antimony		0.097	U	0.045	0.19
Thallium		0.11		0.0099	0.097
Vanadium		7.7		0.029	0.097
Zinc		22	Q	0.063	0.49
Potassium		520		3.1	9.7
Selenium		0.070	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.52 g
Analysis Date:	04/02/2013 1509			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.038	U	0.016	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0253M-0001-SO**

Lab Sample ID: 240-22281-11 Date Sampled: 03/20/2013 1723
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0353			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	U Q	0.011	0.10
Aluminum		6500		0.28	3.0
Arsenic		8.1		0.018	0.10
Barium		44	Q	0.011	1.0
Beryllium		0.35		0.0075	0.10
Calcium		200		1.3	10
Cadmium		0.088	J	0.013	0.10
Chromium		9.0		0.022	0.20
Cobalt		7.5	Q	0.0024	0.050
Copper		11	Q	0.033	0.20
Iron		15000		1.1	5.0
Magnesium		1500		1.1	10
Manganese		390	Q	0.016	0.50
Sodium		30		2.7	10
Nickel		16		0.011	0.10
Lead		7.6	Q	0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.11		0.010	0.10
Vanadium		12		0.030	0.10
Zinc		28	Q	0.065	0.50
Potassium		620		3.2	10
Selenium		0.092	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.53 g
Analysis Date:	04/02/2013 1511			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.017	J	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0254-0001-SO**

Lab Sample ID: 240-22281-12 Date Sampled: 03/20/2013 1720
Client Matrix: Solid % Moisture: 9.8 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0401			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.050	J Q	0.012	0.11
Aluminum		6500		0.31	3.2
Arsenic		20		0.019	0.11
Barium		11000	J Q	0.012	1.1
Beryllium		2.0		0.0081	0.11
Calcium		2200		1.4	11
Cadmium		0.29		0.014	0.11
Chromium		14		0.024	0.22
Cobalt		41	Q	0.0026	0.054
Copper		92	Q	0.036	0.22
Iron		18000		1.2	5.4
Magnesium		1000		1.2	11
Sodium		3700		2.9	11
Nickel		52		0.012	0.11
Lead		17	Q	0.017	0.11
Antimony		0.50		0.049	0.22
Thallium		0.76		0.011	0.11
Vanadium		23		0.032	0.11
Zinc		41	Q	0.070	0.54
Potassium		3800		3.4	11
Selenium		0.25	J	0.055	0.54

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	100			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 1425			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		280000	D Q J	1.7	54

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/27/2013 1020			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.036	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0255-0001-SO**

Lab Sample ID: 240-22281-13 Date Sampled: 03/20/2013 1726
Client Matrix: Solid % Moisture: 14.4 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0409			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.016	J Q	0.013	0.11
Aluminum		11000		0.32	3.4
Arsenic		7.7		0.021	0.11
Barium		1000	Q	0.012	1.1
Beryllium		0.54		0.0085	0.11
Calcium		640		1.5	11
Cadmium		0.091	J	0.015	0.11
Chromium		12		0.025	0.23
Cobalt		5.7	Q	0.0027	0.057
Copper		17	Q	0.037	0.23
Iron		20000		1.2	5.7
Magnesium		1700		1.2	11
Sodium		300		3.0	11
Nickel		13		0.013	0.11
Lead		11	Q	0.017	0.11
Antimony		0.11	U	0.052	0.23
Thallium		0.13		0.012	0.11
Vanadium		20		0.034	0.11
Zinc		29	Q	0.073	0.57
Potassium		660		3.6	11
Selenium		0.23	J	0.058	0.57

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	10			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 1417			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		19000	D Q	0.18	5.7

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.58 g
Analysis Date:	03/27/2013 1024			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	J	0.017	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0276-0001-SO**

Lab Sample ID: 240-22281-14 Date Sampled: 03/20/2013 1104
Client Matrix: Solid % Moisture: 13.6 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.04 g
Analysis Date:	04/28/2013 0434			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	J Q	0.013	0.11
Aluminum		10000		0.32	3.3
Arsenic		14		0.020	0.11
Barium		120	Q	0.012	1.1
Beryllium		2.1		0.0084	0.11
Calcium		53000		1.5	11
Cadmium		0.23		0.015	0.11
Chromium		53		0.025	0.22
Cobalt		3.6	Q	0.0027	0.056
Copper		15	Q	0.037	0.22
Iron		8000		1.2	5.6
Magnesium		13000		1.2	11
Sodium		360		3.0	11
Nickel		12		0.013	0.11
Lead		200	Q	0.017	0.11
Antimony		0.073	J	0.051	0.22
Thallium		0.058	J	0.011	0.11
Vanadium		7.6		0.033	0.11
Zinc		38	Q	0.072	0.56
Potassium		730		3.5	11
Selenium		0.92		0.057	0.56

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	10			Initial Weight/Volume:	00001.04 g
Analysis Date:	04/28/2013 1334			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		4400	D Q	0.18	5.6

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	03/27/2013 1026			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.042	U	0.018	0.13

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0277-0001-SO**

Lab Sample ID: 240-22281-15 Date Sampled: 03/20/2013 1105
Client Matrix: Solid % Moisture: 7.6 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0442			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.051	J Q	0.012	0.11
Aluminum		18000		0.31	3.2
Arsenic		110		0.019	0.11
Barium		340	Q	0.011	1.1
Beryllium		4.9		0.0080	0.11
Calcium		100000		1.4	11
Cadmium		0.27		0.014	0.11
Chromium		16		0.024	0.21
Cobalt		3.9	Q	0.0026	0.054
Copper		87	Q	0.035	0.21
Iron		5300		1.2	5.4
Magnesium		29000		1.2	11
Sodium		1200		2.8	11
Nickel		8.0		0.012	0.11
Lead		470	Q	0.017	0.11
Antimony		0.11	U	0.049	0.21
Thallium		0.068	J	0.011	0.11
Vanadium		11		0.032	0.11
Zinc		67	Q	0.069	0.54
Potassium		2400		3.4	11
Selenium		1.5		0.055	0.54

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	100			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 1343			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		42000	D Q	1.7	54

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	03/27/2013 1027			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.040	U	0.017	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0285-0001-SO**

Lab Sample ID: 240-22281-16 Date Sampled: 03/20/2013 1554
Client Matrix: Solid % Moisture: 17.1 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0450			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.034	J Q	0.013	0.12
Aluminum		10000		0.34	3.5
Arsenic		4.9		0.021	0.12
Barium		77	Q	0.013	1.2
Beryllium		0.52		0.0089	0.12
Calcium		350		1.6	12
Cadmium		0.17		0.016	0.12
Chromium		16		0.026	0.24
Cobalt		9.9	Q	0.0028	0.059
Copper		10	Q	0.039	0.24
Iron		16000		1.3	5.9
Magnesium		3500		1.3	12
Manganese		320	Q	0.019	0.59
Sodium		38		3.1	12
Nickel		19		0.013	0.12
Lead		13	Q	0.018	0.12
Antimony		0.12	U	0.054	0.24
Thallium		0.14		0.012	0.12
Vanadium		17		0.035	0.12
Zinc		41	Q	0.077	0.59
Potassium		630		3.7	12
Selenium		0.27	J	0.060	0.59

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-79644	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/27/2013 1028			Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.050	J	0.017	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0286-0001-SO**

Lab Sample ID: 240-22281-17 Date Sampled: 03/20/2013 1555
Client Matrix: Solid % Moisture: 19.2 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0459			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.021	J Q	0.014	0.12
Aluminum		15000		0.35	3.7
Arsenic		8.9		0.022	0.12
Barium		69	Q	0.013	1.2
Beryllium		0.63		0.0092	0.12
Calcium		140		1.6	12
Cadmium		0.12		0.016	0.12
Chromium		18		0.027	0.25
Cobalt		12	Q	0.0029	0.061
Copper		15	Q	0.040	0.25
Iron		23000		1.3	6.1
Magnesium		3600		1.3	12
Manganese		620	Q	0.019	0.61
Sodium		41		3.3	12
Nickel		18		0.014	0.12
Lead		13	Q	0.019	0.12
Antimony		0.12	U	0.056	0.25
Thallium		0.17		0.012	0.12
Vanadium		27		0.037	0.12
Zinc		50	Q	0.079	0.61
Potassium		870		3.9	12
Selenium		0.45	J	0.062	0.61

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	04/02/2013 1512			Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.067	J	0.017	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0303-0001-SO**

Lab Sample ID: 240-22281-18 Date Sampled: 03/20/2013 1212
Client Matrix: Solid % Moisture: 15.7 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0507			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.041	J Q	0.013	0.12
Aluminum		10000		0.33	3.5
Arsenic		110		0.021	0.12
Barium		72	Q	0.012	1.2
Beryllium		0.66		0.0086	0.12
Calcium		830		1.5	12
Cadmium		0.16		0.015	0.12
Chromium		14		0.026	0.23
Cobalt		8.2	Q	0.0028	0.058
Copper		10	Q	0.038	0.23
Iron		29000		1.2	5.8
Magnesium		1600		1.2	12
Manganese		1000	Q	0.018	0.58
Sodium		170		3.1	12
Nickel		10		0.013	0.12
Lead		26	Q	0.018	0.12
Antimony		0.12	U	0.053	0.23
Thallium		0.10	J	0.012	0.12
Vanadium		34		0.034	0.12
Zinc		28	Q	0.075	0.58
Potassium		1900		3.6	12
Selenium		0.49	J	0.059	0.58

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1558			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.046	J	0.017	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **07PSS-0304-0001-SO**

Lab Sample ID: 240-22281-19 Date Sampled: 03/20/2013 1215
Client Matrix: Solid % Moisture: 23.2 Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0515			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.025	J Q	0.014	0.13
Aluminum		12000		0.36	3.8
Arsenic		82		0.023	0.13
Barium		57	Q	0.014	1.3
Beryllium		0.55		0.0095	0.13
Calcium		320		1.7	13
Cadmium		0.20		0.017	0.13
Chromium		16		0.028	0.25
Cobalt		5.4	Q	0.0030	0.063
Copper		17	Q	0.042	0.25
Iron		25000		1.4	6.3
Magnesium		2200		1.4	13
Manganese		130	Q	0.020	0.63
Sodium		590		3.4	13
Nickel		15		0.014	0.13
Lead		11	Q	0.019	0.13
Antimony		0.13	U	0.058	0.25
Thallium		0.11	J	0.013	0.13
Vanadium		26		0.038	0.13
Zinc		35	Q	0.082	0.63
Potassium		3300		4.0	13
Selenium		0.21	J	0.064	0.63

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1559			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	J	0.018	0.13

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0267M-0001-SO**

Lab Sample ID: 240-22281-20 Date Sampled: 03/20/2013 1153
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0523			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.018	J Q	0.011	0.099
Aluminum		8400		0.28	3.0
Arsenic		51		0.018	0.099
Barium		58	Q	0.011	0.99
Beryllium		0.57		0.0074	0.099
Calcium		3800		1.3	9.9
Cadmium		0.10		0.013	0.099
Chromium		12		0.022	0.20
Cobalt		7.3	Q	0.0024	0.050
Copper		12	Q	0.033	0.20
Iron		18000		1.1	5.0
Magnesium		2900		1.1	9.9
Manganese		390	Q	0.016	0.50
Sodium		240		2.6	9.9
Nickel		17		0.011	0.099
Lead		12	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.12		0.010	0.099
Vanadium		13		0.030	0.099
Zinc		36	Q	0.064	0.50
Potassium		1300		3.1	9.9
Selenium		0.22	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1520			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.023	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0269M-0001-SO**

Lab Sample ID: 240-22281-22 Date Sampled: 03/20/2013 1152
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0531			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	U Q	0.011	0.099
Aluminum		2300		0.28	3.0
Arsenic		27		0.018	0.099
Barium		39	Q	0.011	0.99
Beryllium		0.19		0.0074	0.099
Calcium		1400		1.3	9.9
Cadmium		0.035	J	0.013	0.099
Chromium		4.6		0.022	0.20
Cobalt		2.7	Q	0.0024	0.050
Copper		18	Q	0.033	0.20
Iron		6400		1.1	5.0
Magnesium		980		1.1	9.9
Sodium		130		2.6	9.9
Nickel		6.8		0.011	0.099
Lead		160	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.049	J	0.010	0.099
Vanadium		5.0		0.030	0.099
Zinc		17	Q	0.064	0.50
Potassium		490		3.1	9.9
Selenium		0.099	U	0.050	0.50

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	10			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 1351			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		5000	D Q	0.16	5.0

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.59 g
Analysis Date:	04/02/2013 1524			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.034	U	0.014	0.10

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0322M-0001-SO**

Lab Sample ID: 240-22281-23 Date Sampled: 03/20/2013 1155
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0540			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J Q	0.011	0.099
Aluminum		7200		0.28	3.0
Arsenic		36		0.018	0.099
Barium		48	Q	0.011	0.99
Beryllium		0.48		0.0074	0.099
Calcium		1900		1.3	9.9
Cadmium		0.084	J	0.013	0.099
Chromium		10		0.022	0.20
Cobalt		6.3	Q	0.0024	0.050
Copper		12	Q	0.033	0.20
Iron		17000		1.1	5.0
Magnesium		2300		1.1	9.9
Manganese		280	Q	0.016	0.50
Sodium		240		2.6	9.9
Nickel		16		0.011	0.099
Lead		9.6	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.11		0.010	0.099
Vanadium		11		0.030	0.099
Zinc		39	Q	0.064	0.50
Potassium		1100		3.1	9.9
Selenium		0.11	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.51 g
Analysis Date:	04/02/2013 1526			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.017	J	0.016	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0271M-0001-SO**

Lab Sample ID: 240-22281-25 Date Sampled: 03/20/2013 0952
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0654			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J Q	0.011	0.099
Aluminum		3700	J	0.28	3.0
Arsenic		5.6		0.018	0.099
Barium		27	Q	0.011	0.99
Beryllium		0.24		0.0074	0.099
Calcium		670		1.3	9.9
Cadmium		0.034	J	0.013	0.099
Chromium		6.2		0.022	0.20
Cobalt		2.3	Q	0.0024	0.050
Copper		2.9	Q	0.033	0.20
Iron		6100	J	1.1	5.0
Magnesium		640		1.1	9.9
Manganese		210	Q	0.016	0.50
Sodium		20		2.6	9.9
Nickel		5.9		0.011	0.099
Lead		3.8	Q	0.015	0.099
Antimony		0.099	U J	0.045	0.20
Thallium		0.049	J	0.010	0.099
Vanadium		6.3		0.030	0.099
Zinc		11	Q	0.064	0.50
Potassium		350		3.1	9.9
Selenium		0.058	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1527			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.021	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0272M-0001-SO**

Lab Sample ID: 240-22281-26 Date Sampled: 03/20/2013 1049
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0743			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	U Q	0.011	0.10
Aluminum		990		0.28	3.0
Arsenic		8.8		0.018	0.10
Barium		7.7	Q	0.011	1.0
Beryllium		0.088	J	0.0075	0.10
Calcium		170		1.3	10
Cadmium		0.11		0.013	0.10
Chromium		4.5		0.022	0.20
Cobalt		1.9	Q	0.0024	0.050
Copper		2.0	Q	0.033	0.20
Iron		15000		1.1	5.0
Magnesium		410		1.1	10
Manganese		300	Q	0.016	0.50
Sodium		24		2.7	10
Nickel		6.4		0.011	0.10
Lead		2.5	Q	0.015	0.10
Antimony		0.18	J	0.046	0.20
Thallium		0.058	J	0.010	0.10
Vanadium		2.6		0.030	0.10
Zinc		56	Q	0.065	0.50
Potassium		280		3.2	10
Selenium		0.10	U	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.53 g
Analysis Date:	04/02/2013 1529			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0273M-0001-SO**

Lab Sample ID: 240-22281-27 Date Sampled: 03/20/2013 1203
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0751			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.021	J Q	0.011	0.10
Aluminum		8600		0.28	3.0
Arsenic		32		0.018	0.10
Barium		87	Q	0.011	1.0
Beryllium		0.45		0.0075	0.10
Calcium		550		1.3	10
Cadmium		0.11		0.013	0.10
Chromium		13		0.022	0.20
Cobalt		7.8	Q	0.0024	0.050
Copper		29	Q	0.033	0.20
Iron		17000		1.1	5.0
Magnesium		2500		1.1	10
Sodium		690		2.7	10
Nickel		20		0.011	0.10
Lead		190	Q	0.015	0.10
Antimony		0.063	J	0.046	0.20
Thallium		0.11		0.010	0.10
Vanadium		14		0.030	0.10
Zinc		38	Q	0.065	0.50
Potassium		1900		3.2	10
Selenium		0.11	J	0.051	0.50

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	10			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 1359			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		5600	D Q	0.16	5.0

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.58 g
Analysis Date:	04/02/2013 1530			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.019	J	0.014	0.10

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0323M-0001-SO**

Lab Sample ID: 240-22281-28 Date Sampled: 03/20/2013 1154
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0800			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.012	J Q	0.011	0.099
Aluminum		3800		0.28	3.0
Arsenic		43		0.018	0.099
Barium		48	Q	0.011	0.99
Beryllium		0.30		0.0074	0.099
Calcium		2900		1.3	9.9
Cadmium		0.060	J	0.013	0.099
Chromium		7.3		0.022	0.20
Cobalt		3.1	Q	0.0024	0.050
Copper		18	Q	0.033	0.20
Iron		8000		1.1	5.0
Magnesium		1700		1.1	9.9
Sodium		180		2.6	9.9
Nickel		8.9		0.011	0.099
Lead		210	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.073	J	0.010	0.099
Vanadium		7.1		0.030	0.099
Zinc		22	Q	0.064	0.50
Potassium		780		3.1	9.9
Selenium		0.061	J	0.050	0.50

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	10			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 1434			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Manganese		5000	D Q	0.16	5.0

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.55 g
Analysis Date:	04/02/2013 1532			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.036	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0274M-0001-SO**

Lab Sample ID: 240-22281-29 Date Sampled: 03/20/2013 1137
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0824			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J Q	0.011	0.098
Aluminum		5900		0.28	2.9
Arsenic		110		0.018	0.098
Barium		35	Q	0.010	0.98
Beryllium		0.28		0.0074	0.098
Calcium		310		1.3	9.8
Cadmium		0.091	J	0.013	0.098
Chromium		9.9		0.022	0.20
Cobalt		5.5	Q	0.0024	0.049
Copper		12	Q	0.032	0.20
Iron		13000		1.1	4.9
Magnesium		1500		1.1	9.8
Manganese		1400	Q	0.016	0.49
Sodium		150		2.6	9.8
Nickel		13		0.011	0.098
Lead		36	Q	0.015	0.098
Antimony		0.098	U	0.045	0.20
Thallium		0.10		0.010	0.098
Vanadium		10		0.029	0.098
Zinc		34	Q	0.064	0.49
Potassium		1600		3.1	9.8
Selenium		0.064	J	0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.62 g
Analysis Date:	04/02/2013 1536			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.032	U	0.014	0.097

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0275M-0001-SO**

Lab Sample ID: 240-22281-30 Date Sampled: 03/20/2013 1118
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.04 g
Analysis Date:	04/28/2013 0833			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J Q	0.011	0.096
Aluminum		9100		0.27	2.9
Arsenic		11		0.017	0.096
Barium		58	Q	0.010	0.96
Beryllium		0.52		0.0072	0.096
Calcium		1800		1.3	9.6
Cadmium		0.11		0.013	0.096
Chromium		14		0.021	0.19
Cobalt		8.3	Q	0.0023	0.048
Copper		17	Q	0.032	0.19
Iron		22000		1.0	4.8
Magnesium		2700		1.0	9.6
Manganese		320	Q	0.015	0.48
Sodium		54		2.6	9.6
Nickel		18		0.011	0.096
Lead		12	Q	0.015	0.096
Antimony		0.096	U	0.044	0.19
Thallium		0.12		0.0098	0.096
Vanadium		15		0.029	0.096
Zinc		42	Q	0.062	0.48
Potassium		900		3.0	9.6
Selenium		0.19	J	0.049	0.48

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1538			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0278M-0001-SO**

Lab Sample ID: 240-22281-31 Date Sampled: 03/20/2013 1626
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0841			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.015	J Q	0.011	0.098
Aluminum		7700		0.28	2.9
Arsenic		12		0.018	0.098
Barium		42	Q	0.010	0.98
Beryllium		0.39		0.0074	0.098
Calcium		480		1.3	9.8
Cadmium		0.11		0.013	0.098
Chromium		11		0.022	0.20
Cobalt		6.8	Q	0.0024	0.049
Copper		11	Q	0.032	0.20
Iron		17000		1.1	4.9
Magnesium		2000		1.1	9.8
Manganese		350	Q	0.016	0.49
Sodium		54		2.6	9.8
Nickel		17		0.011	0.098
Lead		10	Q	0.015	0.098
Antimony		0.098	U	0.045	0.20
Thallium		0.12		0.010	0.098
Vanadium		13		0.029	0.098
Zinc		55	Q	0.064	0.49
Potassium		850		3.1	9.8
Selenium		0.11	J	0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1540			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.049	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0279M-0001-SO**

Lab Sample ID: 240-22281-32 Date Sampled: 03/20/2013 1629
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0849			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.098
Aluminum		2600		0.28	2.9
Arsenic		14		0.018	0.098
Barium		22	Q	0.010	0.98
Beryllium		0.18		0.0074	0.098
Calcium		1600		1.3	9.8
Cadmium		0.096	J	0.013	0.098
Chromium		4.3		0.022	0.20
Cobalt		3.8	Q	0.0024	0.049
Copper		4.9	Q	0.032	0.20
Iron		6600		1.1	4.9
Magnesium		890		1.1	9.8
Manganese		680	Q	0.016	0.49
Sodium		45		2.6	9.8
Nickel		11		0.011	0.098
Lead		9.0	Q	0.015	0.098
Antimony		0.098	U	0.045	0.20
Thallium		0.067	J	0.010	0.098
Vanadium		4.3		0.029	0.098
Zinc		68	Q	0.064	0.49
Potassium		400		3.1	9.8
Selenium		0.098	U	0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.55 g
Analysis Date:	04/02/2013 1542			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.036	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0280M-0001-SO**

Lab Sample ID: 240-22281-33 Date Sampled: 03/20/2013 1538
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0857			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	U Q	0.011	0.099
Aluminum		5200		0.28	3.0
Arsenic		11		0.018	0.099
Barium		34	Q	0.011	0.99
Beryllium		0.28		0.0074	0.099
Calcium		210		1.3	9.9
Cadmium		0.16		0.013	0.099
Chromium		11		0.022	0.20
Cobalt		5.9	Q	0.0024	0.050
Copper		9.4	Q	0.033	0.20
Iron		13000		1.1	5.0
Magnesium		1800		1.1	9.9
Manganese		190	Q	0.016	0.50
Sodium		28		2.6	9.9
Nickel		20		0.011	0.099
Lead		6.2	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.10		0.010	0.099
Vanadium		8.4		0.030	0.099
Zinc		73	Q	0.064	0.50
Potassium		730		3.1	9.9
Selenium		0.099	U	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.63 g
Analysis Date:	04/02/2013 1543			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.018	J	0.013	0.095

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0281M-0001-SO**

Lab Sample ID: 240-22281-34 Date Sampled: 03/20/2013 1523
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0906			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.012	J Q	0.011	0.099
Aluminum		4900		0.28	3.0
Arsenic		10		0.018	0.099
Barium		35	Q	0.011	0.99
Beryllium		0.27		0.0074	0.099
Calcium		390		1.3	9.9
Cadmium		0.10		0.013	0.099
Chromium		6.8		0.022	0.20
Cobalt		4.4	Q	0.0024	0.050
Copper		4.7	Q	0.033	0.20
Iron		9200		1.1	5.0
Magnesium		930		1.1	9.9
Manganese		430	Q	0.016	0.50
Sodium		22		2.6	9.9
Nickel		12		0.011	0.099
Lead		5.4	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.086	J	0.010	0.099
Vanadium		9.2		0.030	0.099
Zinc		71	Q	0.064	0.50
Potassium		390		3.1	9.9
Selenium		0.11	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1545			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.051	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0282M-0001-SO**

Lab Sample ID: 240-22281-35 Date Sampled: 03/20/2013 1622
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0914			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.016	J Q	0.011	0.10
Aluminum		7200		0.28	3.0
Arsenic		12		0.018	0.10
Barium		45	Q	0.011	1.0
Beryllium		0.37		0.0075	0.10
Calcium		1100		1.3	10
Cadmium		0.17		0.013	0.10
Chromium		10		0.022	0.20
Cobalt		7.4	Q	0.0024	0.050
Copper		12	Q	0.033	0.20
Iron		16000		1.1	5.0
Magnesium		2200		1.1	10
Manganese		240	Q	0.016	0.50
Sodium		44		2.7	10
Nickel		20		0.011	0.10
Lead		8.0	Q	0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.097	J	0.010	0.10
Vanadium		12		0.030	0.10
Zinc		84	Q	0.065	0.50
Potassium		830		3.2	10
Selenium		0.087	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.61 g
Analysis Date:	04/02/2013 1546			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.029	J	0.014	0.098

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0283M-0001-SO**

Lab Sample ID: 240-22281-36 Date Sampled: 03/20/2013 1632
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0922			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.011	J Q	0.011	0.097
Aluminum		8200		0.28	2.9
Arsenic		11		0.018	0.097
Barium		38	Q	0.010	0.97
Beryllium		0.38		0.0073	0.097
Calcium		130		1.3	9.7
Cadmium		0.11		0.013	0.097
Chromium		11		0.022	0.19
Cobalt		7.1	Q	0.0023	0.049
Copper		15	Q	0.032	0.19
Iron		18000		1.0	4.9
Magnesium		1900		1.0	9.7
Manganese		190	Q	0.015	0.49
Sodium		160		2.6	9.7
Nickel		17		0.011	0.097
Lead		8.5	Q	0.015	0.097
Antimony		0.097	U	0.045	0.19
Thallium		0.12		0.0099	0.097
Vanadium		13		0.029	0.097
Zinc		58	Q	0.063	0.49
Potassium		1100		3.1	9.7
Selenium		0.11	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.53 g
Analysis Date:	04/02/2013 1548			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0284M-0001-SO**

Lab Sample ID: 240-22281-37 Date Sampled: 03/20/2013 1603
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0930			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.011	J Q	0.011	0.099
Aluminum		6500		0.28	3.0
Arsenic		15		0.018	0.099
Barium		26	Q	0.011	0.99
Beryllium		0.31		0.0074	0.099
Calcium		74		1.3	9.9
Cadmium		0.11		0.013	0.099
Chromium		8.9		0.022	0.20
Cobalt		5.2	Q	0.0024	0.050
Copper		10	Q	0.033	0.20
Iron		14000		1.1	5.0
Magnesium		2000		1.1	9.9
Manganese		220	Q	0.016	0.50
Sodium		28		2.6	9.9
Nickel		13		0.011	0.099
Lead		7.1	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.11		0.010	0.099
Vanadium		11		0.030	0.099
Zinc		55	Q	0.064	0.50
Potassium		700		3.1	9.9
Selenium		0.15	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.54 g
Analysis Date:	04/02/2013 1549			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.018	J	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0296M-0001-SO**

Lab Sample ID: 240-22281-38 Date Sampled: 03/20/2013 1436
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0939			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.017	J Q	0.011	0.10
Aluminum		6800		0.28	3.0
Arsenic		18		0.018	0.10
Barium		42	Q	0.011	1.0
Beryllium		0.41		0.0075	0.10
Calcium		780		1.3	10
Cadmium		0.14		0.013	0.10
Chromium		10		0.022	0.20
Cobalt		6.9	Q	0.0024	0.050
Copper		13	Q	0.033	0.20
Iron		20000		1.1	5.0
Magnesium		1700		1.1	10
Manganese		270	Q	0.016	0.50
Sodium		240		2.7	10
Nickel		16		0.011	0.10
Lead		9.4	Q	0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.11		0.010	0.10
Vanadium		12		0.030	0.10
Zinc		48	Q	0.065	0.50
Potassium		1300		3.2	10
Selenium		0.12	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.52 g
Analysis Date:	04/02/2013 1551			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.038	U	0.016	0.12

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0297M-0001-SO**

Lab Sample ID: 240-22281-39 Date Sampled: 03/20/2013 1440
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 1003			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.011	J Q	0.011	0.10
Aluminum		2900		0.28	3.0
Arsenic		21		0.018	0.10
Barium		20	Q	0.011	1.0
Beryllium		0.19		0.0075	0.10
Calcium		870		1.3	10
Cadmium		0.16		0.013	0.10
Chromium		7.4		0.022	0.20
Cobalt		9.2	Q	0.0024	0.050
Copper		6.9	Q	0.033	0.20
Iron		11000		1.1	5.0
Magnesium		870		1.1	10
Manganese		350	Q	0.016	0.50
Sodium		150		2.7	10
Nickel		20		0.011	0.10
Lead		5.8	Q	0.015	0.10
Antimony		0.10	U	0.046	0.20
Thallium		0.076	J	0.010	0.10
Vanadium		5.8		0.030	0.10
Zinc		63	Q	0.065	0.50
Potassium		550		3.2	10
Selenium		0.080	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80366	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/02/2013 1556			Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0298M-0001-SO**

Lab Sample ID: 240-22281-40 Date Sampled: 03/20/2013 1238
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 1012			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.016	J Q	0.011	0.099
Aluminum		8800		0.28	3.0
Arsenic		36		0.018	0.099
Barium		53	Q	0.011	0.99
Beryllium		0.42		0.0074	0.099
Calcium		170		1.3	9.9
Cadmium		0.11		0.013	0.099
Chromium		13		0.022	0.20
Cobalt		7.0	Q	0.0024	0.050
Copper		15	Q	0.033	0.20
Iron		20000		1.1	5.0
Magnesium		1900		1.1	9.9
Manganese		230	Q	0.016	0.50
Sodium		300		2.6	9.9
Nickel		17		0.011	0.099
Lead		10	Q	0.015	0.099
Antimony		0.099	U	0.045	0.20
Thallium		0.11		0.010	0.099
Vanadium		15		0.030	0.099
Zinc		40	Q	0.064	0.50
Potassium		3300		3.1	9.9
Selenium		0.14	J	0.050	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80457	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/03/2013 1138			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.015	J	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0299M-0001-SO**

Lab Sample ID: 240-22281-41 Date Sampled: 03/20/2013 1441
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 1020			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	U Q	0.011	0.097
Aluminum		4300		0.28	2.9
Arsenic		46		0.018	0.097
Barium		25	Q	0.010	0.97
Beryllium		0.22		0.0073	0.097
Calcium		130		1.3	9.7
Cadmium		0.098		0.013	0.097
Chromium		7.4		0.022	0.19
Cobalt		6.8	Q	0.0023	0.049
Copper		8.0	Q	0.032	0.19
Iron		10000		1.0	4.9
Magnesium		1000		1.0	9.7
Manganese		160	Q	0.015	0.49
Sodium		190		2.6	9.7
Nickel		15		0.011	0.097
Lead		6.4	Q	0.015	0.097
Antimony		0.097	U	0.045	0.19
Thallium		0.065	J	0.0099	0.097
Vanadium		7.4		0.029	0.097
Zinc		39	Q	0.063	0.49
Potassium		1000		3.1	9.7
Selenium		0.070	J	0.049	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80457	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/03/2013 1142			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.035	U	0.015	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0300M-0001-SO**

Lab Sample ID: 240-22281-42 Date Sampled: 03/20/2013 1435
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 1028			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.018	J Q	0.011	0.098
Aluminum		6300		0.28	2.9
Arsenic		15		0.018	0.098
Barium		41	Q	0.010	0.98
Beryllium		0.40		0.0074	0.098
Calcium		1500		1.3	9.8
Cadmium		0.21		0.013	0.098
Chromium		10		0.022	0.20
Cobalt		11	Q	0.0024	0.049
Copper		13	Q	0.032	0.20
Iron		18000		1.1	4.9
Magnesium		2100		1.1	9.8
Manganese		330	Q	0.016	0.49
Sodium		260		2.6	9.8
Nickel		25		0.011	0.098
Lead		8.9	Q	0.015	0.098
Antimony		0.098	U	0.045	0.20
Thallium		0.097	J	0.010	0.098
Vanadium		10		0.029	0.098
Zinc		82	Q	0.064	0.49
Potassium		870		3.1	9.8
Selenium		0.11	J	0.050	0.49

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80457	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.54 g
Analysis Date:	04/03/2013 1143			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0301M-0001-SO**

Lab Sample ID: 240-22281-43 Date Sampled: 03/20/2013 1448
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.05 g
Analysis Date:	04/28/2013 1036			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.012	J Q	0.011	0.095
Aluminum		4300		0.27	2.9
Arsenic		8.1		0.017	0.095
Barium		27	Q	0.010	0.95
Beryllium		0.23		0.0071	0.095
Calcium		250		1.3	9.5
Cadmium		0.076	J	0.013	0.095
Chromium		6.1		0.021	0.19
Cobalt		5.8	Q	0.0023	0.048
Copper		5.6	Q	0.031	0.19
Iron		10000		1.0	4.8
Magnesium		780		1.0	9.5
Manganese		450	Q	0.015	0.48
Sodium		26		2.5	9.5
Nickel		8.3		0.011	0.095
Lead		5.9	Q	0.015	0.095
Antimony		0.095	U	0.044	0.19
Thallium		0.068	J	0.0097	0.095
Vanadium		8.4		0.028	0.095
Zinc		23	Q	0.062	0.48
Potassium		360		3.0	9.5
Selenium		0.064	J	0.048	0.48

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80457	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.54 g
Analysis Date:	04/03/2013 1145			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.037	U	0.016	0.11

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Client Sample ID: **079SB-0302M-0001-SO**

Lab Sample ID: 240-22281-44 Date Sampled: 03/20/2013 1219
Client Matrix: Solid Date Received: 03/21/2013 1724

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-70234	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 1045			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.016	J Q	0.011	0.10
Aluminum		6200		0.28	3.0
Arsenic		82		0.018	0.10
Barium		46	Q	0.011	1.0
Beryllium		0.36		0.0075	0.10
Calcium		99		1.3	10
Cadmium		0.13		0.013	0.10
Chromium		9.6		0.022	0.20
Cobalt		8.8	Q	0.0024	0.050
Copper		15	Q	0.033	0.20
Iron		19000		1.1	5.0
Magnesium		1500		1.1	10
Manganese		190	Q	0.016	0.50
Sodium		250		2.7	10
Nickel		17		0.011	0.10
Lead		35	Q	0.015	0.10
Antimony		0.18	J	0.046	0.20
Thallium		0.50		0.010	0.10
Vanadium		10		0.030	0.10
Zinc		44	Q	0.065	0.50
Potassium		1900		3.2	10
Selenium		0.17	J	0.051	0.50

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-80457	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.60 g
Analysis Date:	04/03/2013 1146			Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.033	U	0.014	0.10

General Chemistry

Client Sample ID: **079SB-0245M-0001-SO**

Lab Sample ID: 240-22281-1 Date Sampled: 03/20/2013 1819

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0324M-0001-SO**

Lab Sample ID: 240-22281-3 Date Sampled: 03/20/2013 1816

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0247M-0001-SO**

Lab Sample ID: 240-22281-4 Date Sampled: 03/20/2013 1817

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.39		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0325M-0001-SO**

Lab Sample ID: 240-22281-6 Date Sampled: 03/20/2013 1818

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.29		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0249M-0001-SO**

Lab Sample ID: 240-22281-7 Date Sampled: 03/20/2013 1749

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.45		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0250M-0001-SO**

Lab Sample ID: 240-22281-8 Date Sampled: 03/20/2013 1807

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.56		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0251M-0001-SO**

Lab Sample ID: 240-22281-9 Date Sampled: 03/20/2013 1658

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.61		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0252M-0001-SO**

Lab Sample ID: 240-22281-10 Date Sampled: 03/20/2013 1822

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.61		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0253M-0001-SO**

Lab Sample ID: 240-22281-11 Date Sampled: 03/20/2013 1723

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0254-0001-SO**

Lab Sample ID: 240-22281-12 Date Sampled: 03/20/2013 1720

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	9.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0255-0001-SO**

Lab Sample ID: 240-22281-13 Date Sampled: 03/20/2013 1726

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0276-0001-SO**

Lab Sample ID: 240-22281-14 Date Sampled: 03/20/2013 1104

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0277-0001-SO**

Lab Sample ID: 240-22281-15 Date Sampled: 03/20/2013 1105

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	7.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0285-0001-SO**

Lab Sample ID: 240-22281-16 Date Sampled: 03/20/2013 1554

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0286-0001-SO**

Lab Sample ID: 240-22281-17 Date Sampled: 03/20/2013 1555

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0303-0001-SO**

Lab Sample ID: 240-22281-18 Date Sampled: 03/20/2013 1212

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	84		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **07PSS-0304-0001-SO**

Lab Sample ID: 240-22281-19 Date Sampled: 03/20/2013 1215

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	77		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	23		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0267M-0001-SO**

Lab Sample ID: 240-22281-20 Date Sampled: 03/20/2013 1153

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0269M-0001-SO**

Lab Sample ID: 240-22281-22 Date Sampled: 03/20/2013 1152

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.30		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0322M-0001-SO**

Lab Sample ID: 240-22281-23 Date Sampled: 03/20/2013 1155

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0271M-0001-SO**

Lab Sample ID: 240-22281-25 Date Sampled: 03/20/2013 0952

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.64		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0272M-0001-SO**

Lab Sample ID: 240-22281-26 Date Sampled: 03/20/2013 1049

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0273M-0001-SO**

Lab Sample ID: 240-22281-27 Date Sampled: 03/20/2013 1203

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.96		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0323M-0001-SO**

Lab Sample ID: 240-22281-28 Date Sampled: 03/20/2013 1154

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.48		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0274M-0001-SO**

Lab Sample ID: 240-22281-29 Date Sampled: 03/20/2013 1137

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.53		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0275M-0001-SO**

Lab Sample ID: 240-22281-30 Date Sampled: 03/20/2013 1118

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0278M-0001-SO**

Lab Sample ID: 240-22281-31 Date Sampled: 03/20/2013 1626

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0279M-0001-SO**

Lab Sample ID: 240-22281-32 Date Sampled: 03/20/2013 1629

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.31		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0280M-0001-SO**

Lab Sample ID: 240-22281-33 Date Sampled: 03/20/2013 1538

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.62		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0281M-0001-SO**

Lab Sample ID: 240-22281-34 Date Sampled: 03/20/2013 1523

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.58		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0282M-0001-SO**

Lab Sample ID: 240-22281-35 Date Sampled: 03/20/2013 1622

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0283M-0001-SO**

Lab Sample ID: 240-22281-36 Date Sampled: 03/20/2013 1632

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0284M-0001-SO**

Lab Sample ID: 240-22281-37 Date Sampled: 03/20/2013 1603

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.97		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0296M-0001-SO**

Lab Sample ID: 240-22281-38 Date Sampled: 03/20/2013 1436

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	1.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0297M-0001-SO**

Lab Sample ID: 240-22281-39 Date Sampled: 03/20/2013 1440

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	100		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.41		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0298M-0001-SO**

Lab Sample ID: 240-22281-40 Date Sampled: 03/20/2013 1238

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0299M-0001-SO**

Lab Sample ID: 240-22281-41 Date Sampled: 03/20/2013 1441

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.54		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0300M-0001-SO**

Lab Sample ID: 240-22281-42 Date Sampled: 03/20/2013 1435

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0301M-0001-SO**

Lab Sample ID: 240-22281-43 Date Sampled: 03/20/2013 1448

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.75		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SB-0302M-0001-SO**

Lab Sample ID: 240-22281-44 Date Sampled: 03/20/2013 1219

Client Matrix: Solid Date Received: 03/21/2013 1724

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	99		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N
Percent Moisture	0.76		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80250	Analysis Date: 04/02/2013 1105						DryWt Corrected: N

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method Blank - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	MB 180-68111/1-A	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0133	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Silver	0.029	U Q	0.011	0.097
Aluminum	0.58	U	0.28	2.9
Arsenic	0.049	U	0.018	0.097
Barium	0.019	U Q	0.010	0.97
Beryllium	0.0097	U	0.0073	0.097
Calcium	2.4	U	1.3	9.7
Cadmium	0.029	U	0.013	0.097
Chromium	0.039	U	0.022	0.19
Cobalt	0.0097	U Q	0.0023	0.049
Copper	0.058	U Q	0.032	0.19
Iron	1.9	U	1.0	4.9
Magnesium	1.9	U	1.0	9.7
Manganese	0.029	U Q	0.015	0.49
Sodium	4.67	J	2.6	9.7
Nickel	0.029	U	0.011	0.097
Lead	0.029	U Q	0.015	0.097
Antimony	0.097	U	0.045	0.19
Thallium	0.019	U	0.0099	0.097
Vanadium	0.058	U	0.029	0.097
Zinc	0.0689	J Q	0.063	0.49
Potassium	5.8	U	3.1	9.7
Selenium	0.097	U	0.049	0.49

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Control Sample - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	LCS 180-68111/2-A	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.09 g
Analysis Date:	04/28/2013 0142	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	4.59	4.21	92	60 - 114	Q
Aluminum	183	168	92	80 - 120	
Arsenic	3.67	3.11	85	73 - 110	
Barium	183	164	90	70 - 110	Q
Beryllium	4.59	3.92	85	79 - 110	
Calcium	4590	4450	97	80 - 120	
Cadmium	4.59	3.96	86	74 - 110	
Chromium	18.3	18.1	99	70 - 110	
Cobalt	45.9	46.1	100	74 - 110	Q
Copper	22.9	23.6	103	73 - 110	Q
Iron	91.7	96.5	105	80 - 120	
Magnesium	4590	4290	93	80 - 120	
Manganese	45.9	42.9	94	80 - 120	Q
Sodium	4590	4300	94	80 - 120	
Nickel	45.9	47.1	103	75 - 110	
Lead	1.83	1.68	92	75 - 110	Q
Antimony	45.9	39.7	86	68 - 113	
Thallium	4.59	4.14	90	71 - 110	
Vanadium	45.9	45.0	98	72 - 110	
Zinc	45.9	39.4	86	72 - 113	Q
Potassium	4590	4320	94	80 - 120	
Selenium	0.917	0.757	83	65 - 110	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Post Digestion Spike - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-3	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0255	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.011	J	5.00	5.15	103	80 - 120	Q
Aluminum	6800		200	6710	-43	80 - 120	
Arsenic	6.5		4.00	9.87	84	80 - 120	
Barium	54		200	239	92	80 - 120	Q
Beryllium	0.43		5.00	5.11	94	80 - 120	
Calcium	640		5000	5480	97	80 - 120	
Cadmium	0.11		5.00	4.73	92	80 - 120	
Chromium	9.7		20.0	29.4	99	80 - 120	
Cobalt	8.3		50.0	58.7	101	80 - 120	Q
Copper	11		25.0	36.1	99	80 - 120	Q
Iron	18000		100	17600	-480	80 - 120	
Magnesium	1700		5000	6630	99	80 - 120	
Manganese	880		50.0	903	48	80 - 120	Q
Sodium	35		5000	5090	101	80 - 120	
Nickel	16		50.0	66.3	100	80 - 120	
Lead	8.2		2.00	10.1	92	80 - 120	Q
Antimony	0.10	U	50.0	44.3	89	80 - 120	
Thallium	0.11		5.00	5.20	102	80 - 120	
Vanadium	11		50.0	60.6	99	80 - 120	
Zinc	32		50.0	73.7	84	80 - 120	Q
Potassium	680		5000	5460	96	80 - 120	
Selenium	0.10	J	1.00	0.960	86	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

MS Lab Sample ID:	240-22281-3	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0222			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

MSD Lab Sample ID:	240-22281-3	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.03 g
Analysis Date:	04/28/2013 0231			Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	88	86	75 - 125	4	20	Q	Q
Aluminum	1866	2243	70 - 130	6	20	4	4
Arsenic	73	102	23 - 131	11	20		
Barium	91	101	10 - 199	6	20	Q	Q
Beryllium	88	89	58 - 112	1	20		
Calcium	88	94	70 - 130	4	20		
Cadmium	83	84	58 - 110	1	20		
Chromium	105	109	10 - 199	1	20		
Cobalt	89	92	55 - 110	1	20	Q	Q
Copper	87	89	10 - 199	0	20	Q	Q
Iron	-631	1907	70 - 130	13	20	4	4
Magnesium	96	98	70 - 130	0	20		
Manganese	193	2995	10 - 199	82	20	Q 4	D Q 4
Sodium	94	93	70 - 130	2	20		
Nickel	91	94	10 - 176	1	20		
Lead	97	150	10 - 199	9	20	Q 4	Q 4
Antimony	39	36	75 - 125	10	20	J	J
Thallium	91	91	82 - 110	2	20		
Vanadium	101	103	39 - 129	0	20		
Zinc	77	80	10 - 199	1	20	Q	Q
Potassium	99	99	70 - 130	1	20		
Selenium	61	63	39 - 116	1	20		

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

MS Lab Sample ID:	240-22281-3	Units: mg/Kg	MSD Lab Sample ID:	240-22281-3	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	04/28/2013 0222		Analysis Date:	04/28/2013 0231	
Prep Date:	04/03/2013 1033		Prep Date:	04/03/2013 1033	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver	0.011	J	4.95	4.85	4.34	Q	4.19	Q
Aluminum	6800		198	194	10500	4	11100	4
Arsenic	6.5		3.96	3.88	9.42		10.5	
Barium	54		198	194	234	Q	249	Q
Beryllium	0.43		4.95	4.85	4.77		4.74	
Calcium	640		4950	4850	5000		5200	
Cadmium	0.11		4.95	4.85	4.21		4.18	
Chromium	9.7		19.8	19.4	30.5		30.8	
Cobalt	8.3		49.5	48.5	52.4	Q	53.1	Q
Copper	11		24.8	24.3	32.8	Q	32.9	Q
Iron	18000		99.0	97.1	17500	4	20000	4
Magnesium	1700		4950	4850	6470		6480	
Manganese	880		49.5	48.5	975	Q 4	2330	D Q 4
Sodium	35		4950	4850	4680		4560	
Nickel	16		49.5	48.5	61.1		61.5	
Lead	8.2		1.98	1.94	10.1	Q 4	11.1	Q 4
Antimony	0.10	U	49.5	48.5	19.2	J	17.3	J
Thallium	0.11		4.95	4.85	4.60		4.51	
Vanadium	11		49.5	48.5	61.3		61.1	
Zinc	32		49.5	48.5	70.0	Q	70.7	Q
Potassium	680		4950	4850	5570		5500	
Selenium	0.10	J	0.990	0.971	0.710		0.719	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Serial Dilution - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-3	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.00 g
Analysis Date:	04/28/2013 0206	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.011	J	0.15	NC	10	U Q
Aluminum	6800		6860	1.0	10	D
Arsenic	6.5		6.76	3.6	10	D
Barium	54		55.5	2.8	10	D Q
Beryllium	0.43		0.474	11	10	J D V
Calcium	640		650	2.1	10	D
Cadmium	0.11		0.0970	NC	10	J D
Chromium	9.7		9.69	0.27	10	D
Cobalt	8.3		8.30	0.49	10	D Q
Copper	11		11.6	3.0	10	D Q
Iron	18000		18100	0.17	10	D
Magnesium	1700		1610	5.1	10	D
Manganese	880		867	1.4	10	D Q
Sodium	35		52.1	NC	10	D
Nickel	16		16.4	2.0	10	D
Lead	8.2		8.16	0.63	10	D Q
Antimony	0.10	U	0.50	NC	10	U
Thallium	0.11		0.113	NC	10	J D
Vanadium	11		11.1	0.77	10	D
Zinc	32		35.4	12	10	D Q V
Potassium	680		686	0.70	10	D
Selenium	0.10	J	0.50	NC	10	U

Duplicate - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-3	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0214	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	0.011	J	0.030	NC	20	U Q
Aluminum	6800		6650	2	20	
Arsenic	6.5		6.47	0.8	20	
Barium	54		60.6	12	20	Q
Beryllium	0.43		0.478	11	20	
Calcium	640		716	12	20	
Cadmium	0.11		0.114	5	20	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Duplicate - Batch: 180-68111

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-3	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68111	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0214	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/03/2013 1033				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chromium	9.7		9.45	2	20	
Cobalt	8.3		8.64	4	20	Q
Copper	11		11.2	0.7	20	Q
Iron	18000		19000	5	20	
Magnesium	1700		1640	3	20	
Manganese	880		875	0.5	20	Q
Sodium	35		35.8	1	20	
Nickel	16		16.4	2	20	
Lead	8.2		8.40	2	20	Q
Antimony	0.10	U	0.099	NC	20	U
Thallium	0.11		0.109	4	20	
Vanadium	11		11.1	0.4	20	
Zinc	32		31.7	0.2	20	Q
Potassium	680		652	4	20	
Selenium	0.10	J	0.146	33	20	J

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method Blank - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	MB 180-68272/1-A	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.09 g
Analysis Date:	04/28/2013 0548	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Silver	0.028	U Q	0.010	0.092
Aluminum	0.55	U	0.26	2.8
Arsenic	0.0240	J	0.017	0.092
Barium	0.018	U Q	0.0098	0.92
Beryllium	0.0092	U	0.0069	0.092
Calcium	2.3	U	1.2	9.2
Cadmium	0.028	U	0.012	0.092
Chromium	0.037	U	0.020	0.18
Cobalt	0.0092	U Q	0.0022	0.046
Copper	0.055	U Q	0.030	0.18
Iron	1.8	U	0.99	4.6
Magnesium	1.8	U	0.99	9.2
Manganese	0.028	U Q	0.015	0.46
Sodium	3.06	J	2.4	9.2
Nickel	0.028	U	0.010	0.092
Lead	0.028	U Q	0.014	0.092
Antimony	0.092	U	0.042	0.18
Thallium	0.018	U	0.0094	0.092
Vanadium	0.055	U	0.027	0.092
Zinc	0.0757	J Q	0.059	0.46
Potassium	5.5	U	2.9	9.2
Selenium	0.092	U	0.047	0.46

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Control Sample - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	LCS 180-68272/2-A	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0646	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	4.90	4.34	89	60 - 114	Q
Aluminum	196	182	93	80 - 120	
Arsenic	3.92	3.27	83	73 - 110	
Barium	196	179	91	70 - 110	Q
Beryllium	4.90	4.32	88	79 - 110	
Calcium	4900	4570	93	80 - 120	
Cadmium	4.90	4.24	86	74 - 110	
Chromium	19.6	19.0	97	70 - 110	
Cobalt	49.0	48.6	99	74 - 110	Q
Copper	24.5	24.9	102	73 - 110	Q
Iron	98.0	99.2	101	80 - 120	
Magnesium	4900	4570	93	80 - 120	
Manganese	49.0	44.1	90	80 - 120	Q
Sodium	4900	4600	94	80 - 120	
Nickel	49.0	49.6	101	75 - 110	
Lead	1.96	1.84	94	75 - 110	Q
Antimony	49.0	41.7	85	68 - 113	
Thallium	4.90	4.51	92	71 - 110	
Vanadium	49.0	47.5	97	72 - 110	
Zinc	49.0	40.6	83	72 - 113	Q
Potassium	4900	4540	93	80 - 120	
Selenium	0.980	0.827	84	65 - 110	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Post Digestion Spike - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-25	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0735	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.015	J	4.95	5.21	105	80 - 120	Q
Aluminum	3700		198	3830	62	80 - 120	
Arsenic	5.6		3.96	9.27	93	80 - 120	
Barium	27		198	221	98	80 - 120	Q
Beryllium	0.24		4.95	5.12	99	80 - 120	
Calcium	670		4950	5610	100	80 - 120	
Cadmium	0.034	J	4.95	4.79	96	80 - 120	
Chromium	6.2		19.8	26.2	101	80 - 120	
Cobalt	2.3		49.5	53.2	103	80 - 120	Q
Copper	2.9		24.8	28.6	104	80 - 120	Q
Iron	6100		99.0	6140	14	80 - 120	
Magnesium	640		4950	5700	102	80 - 120	
Manganese	210		49.5	258	97	80 - 120	Q
Sodium	20		4950	5110	103	80 - 120	
Nickel	5.9		49.5	57.2	104	80 - 120	
Lead	3.8		1.98	5.83	102	80 - 120	Q
Antimony	0.099	U	49.5	46.1	93	80 - 120	
Thallium	0.049	J	4.95	5.05	101	80 - 120	
Vanadium	6.3		49.5	57.2	103	80 - 120	
Zinc	11		49.5	54.8	88	80 - 120	Q
Potassium	350		4950	5250	99	80 - 120	
Selenium	0.058	J	0.990	0.982	93	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

MS Lab Sample ID:	240-22281-25	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.02 g
Analysis Date:	04/28/2013 0718			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

MSD Lab Sample ID:	240-22281-25	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0727			Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	89	90	75 - 125	2	20	Q	Q
Aluminum	1695	1687	70 - 130	0	20	4	4
Arsenic	68	76	23 - 131	4	20		
Barium	91	92	10 - 199	2	20	Q	Q
Beryllium	88	88	58 - 112	1	20		
Calcium	89	89	70 - 130	1	20		
Cadmium	86	85	58 - 110	0	20		
Chromium	109	110	10 - 199	1	20		
Cobalt	92	92	55 - 110	2	20	Q	Q
Copper	94	94	10 - 199	2	20	Q	Q
Iron	88	352	70 - 130	4	20	4	4
Magnesium	97	98	70 - 130	2	20		
Manganese	22	11	10 - 199	2	20	Q 4	Q 4
Sodium	92	95	70 - 130	3	20		
Nickel	95	96	10 - 176	1	20		
Lead	80	92	10 - 199	5	20	Q	Q
Antimony	52	56	75 - 125	7	20	J	J
Thallium	90	92	82 - 110	3	20		
Vanadium	101	104	39 - 129	3	20		
Zinc	83	83	10 - 199	1	20	Q	Q
Potassium	96	98	70 - 130	3	20		
Selenium	77	80	39 - 116	4	20		

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

MS Lab Sample ID:	240-22281-25	Units: mg/Kg	MSD Lab Sample ID:	240-22281-25
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	04/28/2013 0718		Analysis Date:	04/28/2013 0727
Prep Date:	04/04/2013 1041		Prep Date:	04/04/2013 1041
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver	0.015	J	4.90	4.95	4.39	Q	4.46	Q
Aluminum	3700		196	198	7030	4	7050	4
Arsenic	5.6		3.92	3.96	8.25		8.59	
Barium	27		196	198	205	Q	208	Q
Beryllium	0.24		4.90	4.95	4.58		4.62	
Calcium	670		4900	4950	5060		5100	
Cadmium	0.034	J	4.90	4.95	4.24		4.25	
Chromium	6.2		19.6	19.8	27.6		28.0	
Cobalt	2.3		49.0	49.5	47.2	Q	48.1	Q
Copper	2.9		24.5	24.8	25.8	Q	26.2	Q
Iron	6100		98.0	99.0	6210	4	6470	4
Magnesium	640		4900	4950	5380		5470	
Manganese	210		49.0	49.5	220	Q 4	215	Q 4
Sodium	20		4900	4950	4550		4700	
Nickel	5.9		49.0	49.5	52.7		53.2	
Lead	3.8		1.96	1.98	5.37	Q	5.63	Q
Antimony	0.099	U	49.0	49.5	25.7	J	27.7	J
Thallium	0.049	J	4.90	4.95	4.47		4.61	
Vanadium	6.3		49.0	49.5	55.9		57.8	
Zinc	11		49.0	49.5	51.8	Q	52.2	Q
Potassium	350		4900	4950	5040		5210	
Selenium	0.058	J	0.980	0.990	0.810		0.845	

Serial Dilution - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-25	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.01 g
Analysis Date:	04/28/2013 0702	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.015	J	0.15	NC	10	U Q
Aluminum	3700		3800	2.5	10	D
Arsenic	5.6		6.29	12	10	V D
Barium	27		27.1	1.6	10	Q D
Beryllium	0.24		0.271	NC	10	J D
Calcium	670		683	1.9	10	D
Cadmium	0.034	J	0.15	NC	10	U
Chromium	6.2		6.23	1.3	10	D
Cobalt	2.3		2.36	2.4	10	Q D
Copper	2.9		3.05	4.9	10	Q D
Iron	6100		6280	2.6	10	D
Magnesium	640		660	3.8	10	D
Manganese	210		203	3.1	10	Q D
Sodium	20		33.0	NC	10	J D
Nickel	5.9		6.15	5.0	10	D
Lead	3.8		3.72	2.5	10	Q D
Antimony	0.099	U	0.50	NC	10	U
Thallium	0.049	J	0.099	NC	10	U
Vanadium	6.3		6.47	2.2	10	D
Zinc	11		12.9	16	10	Q V D
Potassium	350		328	5.3	10	D
Selenium	0.058	J	0.50	NC	10	U

Duplicate - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-25	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.04 g
Analysis Date:	04/28/2013 0710	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	0.015	J	0.0136	7	20	J Q
Aluminum	3700		3390	9	20	
Arsenic	5.6		5.20	7	20	
Barium	27		24.9	7	20	Q
Beryllium	0.24		0.231	5	20	
Calcium	670		698	4	20	
Cadmium	0.034	J	0.0304	12	20	J

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Duplicate - Batch: 180-68272

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	240-22281-25	Analysis Batch:	180-70234	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-68272	Lab File ID:	M30427A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.04 g
Analysis Date:	04/28/2013 0710	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/04/2013 1041				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chromium	6.2		5.96	3	20	
Cobalt	2.3		2.03	13	20	Q
Copper	2.9		2.88	0.7	20	Q
Iron	6100		5720	7	20	
Magnesium	640		618	3	20	
Manganese	210		206	2	20	Q
Sodium	20		20.1	1	20	
Nickel	5.9		5.62	4	20	
Lead	3.8		3.35	13	20	Q
Antimony	0.099	U	0.096	NC	20	U
Thallium	0.049	J	0.0462	7	20	J
Vanadium	6.3		5.79	9	20	
Zinc	11		10.6	6	20	Q
Potassium	350		326	6	20	
Selenium	0.058	J	0.0872	41	20	J

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method Blank - Batch: 240-79493

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-79493/1-A	Analysis Batch:	240-79644	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0948	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-79493

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-79493/2-A	Analysis Batch:	240-79644	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79493	Lab File ID:	032713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/27/2013 0950	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/26/2013 1425				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.888	107	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method Blank - Batch: 240-79941

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-79941/1-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1423	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-79941

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-79941/2-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-79941	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1424	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/29/2013 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.822	99	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method Blank - Batch: 240-80130

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-80130/1-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1514	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-80130

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-80130/2-A	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/02/2013 1519	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.810	97	80 - 120	

Matrix Spike - Batch: 240-80130

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22281-20	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1523	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.023	J	0.175	0.180	90	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Duplicate - Batch: 240-80130

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22281-20	Analysis Batch:	240-80366	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80130	Lab File ID:	040213B-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.57 g
Analysis Date:	04/02/2013 1521	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2013 1625				
Leach Date:	03/27/2013 1212				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.023	J	0.035	NC	20	U

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Method Blank - Batch: 240-80281

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-80281/1-A	Analysis Batch:	240-80457	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/03/2013 1133	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-80281

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-80281/2-A	Analysis Batch:	240-80457	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/03/2013 1134	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.871	105	80 - 120	

Matrix Spike - Batch: 240-80281

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22281-40	Analysis Batch:	240-80457	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/03/2013 1141	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.015	J	0.179	0.199	103	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Duplicate - Batch: 240-80281

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	240-22281-40	Analysis Batch:	240-80457	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-80281	Lab File ID:	040313A-HG1.PRN
Dilution:	1.0	Leach Batch:	240-79645	Initial Weight/Volume:	0.56 g
Analysis Date:	04/03/2013 1139	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/02/2013 1500				
Leach Date:	03/27/2013 1212				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.015	J	0.0158	5	20	J

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Duplicate - Batch: 240-80250 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	240-22281-15	Analysis Batch:	240-80250	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1105	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	92	90	3	20	
Percent Moisture	7.6	10	30	20	J

Duplicate - Batch: 240-80250 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	240-22281-16	Analysis Batch:	240-80250	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1105	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	83	83	0.3	20	
Percent Moisture	17	17	1	20	

Duplicate - Batch: 240-80250 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	240-22281-37	Analysis Batch:	240-80250	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1105	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	99	99	0.07	20	
Percent Moisture	0.97	0.90	7	20	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Duplicate - Batch: 240-80250

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-22281-38	Analysis Batch:	240-80250	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1105	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	99	99	0.09	20	
Percent Moisture	1.0	0.95	9	20	

DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Lab Section	Qualifier	Description
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	Q	One or more quality control criteria failed.
	V	Serial Dilution exceeds the control limits
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
General Chemistry		
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-68111					
LCS 180-68111/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-68111/1-A	Method Blank	T	Solid	3050B	
240-22281-1	079SB-0245M-0001-SO	T	Solid	3050B	
240-22281-3	079SB-0324M-0001-SO	T	Solid	3050B	
240-22281-3DU	Duplicate	T	Solid	3050B	
240-22281-3MS	Matrix Spike	T	Solid	3050B	
240-22281-3MSD	Matrix Spike Duplicate	T	Solid	3050B	
240-22281-4	079SB-0247M-0001-SO	T	Solid	3050B	
240-22281-6	079SB-0325M-0001-SO	T	Solid	3050B	
240-22281-7	079SB-0249M-0001-SO	T	Solid	3050B	
240-22281-8	079SB-0250M-0001-SO	T	Solid	3050B	
240-22281-9	079SB-0251M-0001-SO	T	Solid	3050B	
240-22281-10	079SB-0252M-0001-SO	T	Solid	3050B	
240-22281-11	079SB-0253M-0001-SO	T	Solid	3050B	
240-22281-12	07PSS-0254-0001-SO	T	Solid	3050B	
240-22281-13	07PSS-0255-0001-SO	T	Solid	3050B	
240-22281-14	07PSS-0276-0001-SO	T	Solid	3050B	
240-22281-15	07PSS-0277-0001-SO	T	Solid	3050B	
240-22281-16	07PSS-0285-0001-SO	T	Solid	3050B	
240-22281-17	07PSS-0286-0001-SO	T	Solid	3050B	
240-22281-18	07PSS-0303-0001-SO	T	Solid	3050B	
240-22281-19	07PSS-0304-0001-SO	T	Solid	3050B	
240-22281-20	079SB-0267M-0001-SO	T	Solid	3050B	
240-22281-22	079SB-0269M-0001-SO	T	Solid	3050B	
240-22281-23	079SB-0322M-0001-SO	T	Solid	3050B	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-68272					
LCS 180-68272/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-68272/1-A	Method Blank	T	Solid	3050B	
240-22281-25	079SB-0271M-0001-SO	T	Solid	3050B	
240-22281-25DU	Duplicate	T	Solid	3050B	
240-22281-25MS	Matrix Spike	T	Solid	3050B	
240-22281-25MSD	Matrix Spike Duplicate	T	Solid	3050B	
240-22281-26	079SB-0272M-0001-SO	T	Solid	3050B	
240-22281-27	079SB-0273M-0001-SO	T	Solid	3050B	
240-22281-28	079SB-0323M-0001-SO	T	Solid	3050B	
240-22281-29	079SB-0274M-0001-SO	T	Solid	3050B	
240-22281-30	079SB-0275M-0001-SO	T	Solid	3050B	
240-22281-31	079SB-0278M-0001-SO	T	Solid	3050B	
240-22281-32	079SB-0279M-0001-SO	T	Solid	3050B	
240-22281-33	079SB-0280M-0001-SO	T	Solid	3050B	
240-22281-34	079SB-0281M-0001-SO	T	Solid	3050B	
240-22281-35	079SB-0282M-0001-SO	T	Solid	3050B	
240-22281-36	079SB-0283M-0001-SO	T	Solid	3050B	
240-22281-37	079SB-0284M-0001-SO	T	Solid	3050B	
240-22281-38	079SB-0296M-0001-SO	T	Solid	3050B	
240-22281-39	079SB-0297M-0001-SO	T	Solid	3050B	
240-22281-40	079SB-0298M-0001-SO	T	Solid	3050B	
240-22281-41	079SB-0299M-0001-SO	T	Solid	3050B	
240-22281-42	079SB-0300M-0001-SO	T	Solid	3050B	
240-22281-43	079SB-0301M-0001-SO	T	Solid	3050B	
240-22281-44	079SB-0302M-0001-SO	T	Solid	3050B	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:180-70234					
LCS 180-68111/2-A	Lab Control Sample	T	Solid	6020/DOD	180-68111
MB 180-68111/1-A	Method Blank	T	Solid	6020/DOD	180-68111
LCS 180-68272/2-A	Lab Control Sample	T	Solid	6020/DOD	180-68272
MB 180-68272/1-A	Method Blank	T	Solid	6020/DOD	180-68272
240-22281-1	079SB-0245M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-3	079SB-0324M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-3DU	Duplicate	T	Solid	6020/DOD	180-68111
240-22281-3MS	Matrix Spike	T	Solid	6020/DOD	180-68111
240-22281-3MSD	Matrix Spike Duplicate	T	Solid	6020/DOD	180-68111
240-22281-4	079SB-0247M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-6	079SB-0325M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-7	079SB-0249M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-8	079SB-0250M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-9	079SB-0251M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-10	079SB-0252M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-11	079SB-0253M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-12	07PSS-0254-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-13	07PSS-0255-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-14	07PSS-0276-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-15	07PSS-0277-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-16	07PSS-0285-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-17	07PSS-0286-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-18	07PSS-0303-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-19	07PSS-0304-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-20	079SB-0267M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-22	079SB-0269M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-23	079SB-0322M-0001-SO	T	Solid	6020/DOD	180-68111
240-22281-25	079SB-0271M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-25DU	Duplicate	T	Solid	6020/DOD	180-68272
240-22281-25MS	Matrix Spike	T	Solid	6020/DOD	180-68272
240-22281-25MSD	Matrix Spike Duplicate	T	Solid	6020/DOD	180-68272
240-22281-26	079SB-0272M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-27	079SB-0273M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-28	079SB-0323M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-29	079SB-0274M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-30	079SB-0275M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-31	079SB-0278M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-32	079SB-0279M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-33	079SB-0280M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-34	079SB-0281M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-35	079SB-0282M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-36	079SB-0283M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-37	079SB-0284M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-38	079SB-0296M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-39	079SB-0297M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-40	079SB-0298M-0001-SO	T	Solid	6020/DOD	180-68272

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:180-70234					
240-22281-41	079SB-0299M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-42	079SB-0300M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-43	079SB-0301M-0001-SO	T	Solid	6020/DOD	180-68272
240-22281-44	079SB-0302M-0001-SO	T	Solid	6020/DOD	180-68272
Prep Batch: 240-79493					
LCS 240-79493/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-79493/1-A	Method Blank	T	Solid	7471A	
240-22281-12	07PSS-0254-0001-SO	T	Solid	7471A	
240-22281-13	07PSS-0255-0001-SO	T	Solid	7471A	
240-22281-14	07PSS-0276-0001-SO	T	Solid	7471A	
240-22281-15	07PSS-0277-0001-SO	T	Solid	7471A	
240-22281-16	07PSS-0285-0001-SO	T	Solid	7471A	
Analysis Batch:240-79644					
LCS 240-79493/2-A	Lab Control Sample	T	Solid	7471/DOD	240-79493
MB 240-79493/1-A	Method Blank	T	Solid	7471/DOD	240-79493
240-22281-12	07PSS-0254-0001-SO	T	Solid	7471/DOD	240-79493
240-22281-13	07PSS-0255-0001-SO	T	Solid	7471/DOD	240-79493
240-22281-14	07PSS-0276-0001-SO	T	Solid	7471/DOD	240-79493
240-22281-15	07PSS-0277-0001-SO	T	Solid	7471/DOD	240-79493
240-22281-16	07PSS-0285-0001-SO	T	Solid	7471/DOD	240-79493

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-79645					
240-22281-1	079SB-0245M-0001-SO	T	Solid	Increment, Prep	
240-22281-3	079SB-0324M-0001-SO	T	Solid	Increment, Prep	
240-22281-4	079SB-0247M-0001-SO	T	Solid	Increment, Prep	
240-22281-6	079SB-0325M-0001-SO	T	Solid	Increment, Prep	
240-22281-7	079SB-0249M-0001-SO	T	Solid	Increment, Prep	
240-22281-8	079SB-0250M-0001-SO	T	Solid	Increment, Prep	
240-22281-9	079SB-0251M-0001-SO	T	Solid	Increment, Prep	
240-22281-10	079SB-0252M-0001-SO	T	Solid	Increment, Prep	
240-22281-11	079SB-0253M-0001-SO	T	Solid	Increment, Prep	
240-22281-20DU	Duplicate	T	Solid		
240-22281-20MS	Matrix Spike	T	Solid		
240-22281-20	079SB-0267M-0001-SO	T	Solid	Increment, Prep	
240-22281-22	079SB-0269M-0001-SO	T	Solid	Increment, Prep	
240-22281-23	079SB-0322M-0001-SO	T	Solid	Increment, Prep	
240-22281-25	079SB-0271M-0001-SO	T	Solid	Increment, Prep	
240-22281-26	079SB-0272M-0001-SO	T	Solid	Increment, Prep	
240-22281-27	079SB-0273M-0001-SO	T	Solid	Increment, Prep	
240-22281-28	079SB-0323M-0001-SO	T	Solid	Increment, Prep	
240-22281-29	079SB-0274M-0001-SO	T	Solid	Increment, Prep	
240-22281-30	079SB-0275M-0001-SO	T	Solid	Increment, Prep	
240-22281-31	079SB-0278M-0001-SO	T	Solid	Increment, Prep	
240-22281-32	079SB-0279M-0001-SO	T	Solid	Increment, Prep	
240-22281-33	079SB-0280M-0001-SO	T	Solid	Increment, Prep	
240-22281-34	079SB-0281M-0001-SO	T	Solid	Increment, Prep	
240-22281-35	079SB-0282M-0001-SO	T	Solid	Increment, Prep	
240-22281-36	079SB-0283M-0001-SO	T	Solid	Increment, Prep	
240-22281-37	079SB-0284M-0001-SO	T	Solid	Increment, Prep	
240-22281-38	079SB-0296M-0001-SO	T	Solid	Increment, Prep	
240-22281-39	079SB-0297M-0001-SO	T	Solid	Increment, Prep	
240-22281-40	079SB-0298M-0001-SO	T	Solid	Increment, Prep	
240-22281-40DU	Duplicate	T	Solid	Increment, Prep	
240-22281-40MS	Matrix Spike	T	Solid	Increment, Prep	
240-22281-41	079SB-0299M-0001-SO	T	Solid	Increment, Prep	
240-22281-42	079SB-0300M-0001-SO	T	Solid	Increment, Prep	
240-22281-43	079SB-0301M-0001-SO	T	Solid	Increment, Prep	
240-22281-44	079SB-0302M-0001-SO	T	Solid	Increment, Prep	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-79941					
LCS 240-79941/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-79941/1-A	Method Blank	T	Solid	7471A	
240-22281-1	079SB-0245M-0001-SO	T	Solid	7471A	240-79645
240-22281-3	079SB-0324M-0001-SO	T	Solid	7471A	240-79645
240-22281-4	079SB-0247M-0001-SO	T	Solid	7471A	240-79645
240-22281-6	079SB-0325M-0001-SO	T	Solid	7471A	240-79645
240-22281-7	079SB-0249M-0001-SO	T	Solid	7471A	240-79645
240-22281-8	079SB-0250M-0001-SO	T	Solid	7471A	240-79645
240-22281-9	079SB-0251M-0001-SO	T	Solid	7471A	240-79645
240-22281-10	079SB-0252M-0001-SO	T	Solid	7471A	240-79645
240-22281-11	079SB-0253M-0001-SO	T	Solid	7471A	240-79645
240-22281-17	07PSS-0286-0001-SO	T	Solid	7471A	
Prep Batch: 240-80130					
LCS 240-80130/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-80130/1-A	Method Blank	T	Solid	7471A	
240-22281-18	07PSS-0303-0001-SO	T	Solid	7471A	
240-22281-19	07PSS-0304-0001-SO	T	Solid	7471A	
240-22281-20	079SB-0267M-0001-SO	T	Solid	7471A	240-79645
240-22281-20DU	Duplicate	T	Solid	7471A	240-79645
240-22281-20MS	Matrix Spike	T	Solid	7471A	240-79645
240-22281-22	079SB-0269M-0001-SO	T	Solid	7471A	240-79645
240-22281-23	079SB-0322M-0001-SO	T	Solid	7471A	240-79645
240-22281-25	079SB-0271M-0001-SO	T	Solid	7471A	240-79645
240-22281-26	079SB-0272M-0001-SO	T	Solid	7471A	240-79645
240-22281-27	079SB-0273M-0001-SO	T	Solid	7471A	240-79645
240-22281-28	079SB-0323M-0001-SO	T	Solid	7471A	240-79645
240-22281-29	079SB-0274M-0001-SO	T	Solid	7471A	240-79645
240-22281-30	079SB-0275M-0001-SO	T	Solid	7471A	240-79645
240-22281-31	079SB-0278M-0001-SO	T	Solid	7471A	240-79645
240-22281-32	079SB-0279M-0001-SO	T	Solid	7471A	240-79645
240-22281-33	079SB-0280M-0001-SO	T	Solid	7471A	240-79645
240-22281-34	079SB-0281M-0001-SO	T	Solid	7471A	240-79645
240-22281-35	079SB-0282M-0001-SO	T	Solid	7471A	240-79645
240-22281-36	079SB-0283M-0001-SO	T	Solid	7471A	240-79645
240-22281-37	079SB-0284M-0001-SO	T	Solid	7471A	240-79645
240-22281-38	079SB-0296M-0001-SO	T	Solid	7471A	240-79645
240-22281-39	079SB-0297M-0001-SO	T	Solid	7471A	240-79645

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-80281					
LCS 240-80281/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-80281/1-A	Method Blank	T	Solid	7471A	
240-22281-40	079SB-0298M-0001-SO	T	Solid	7471A	240-79645
240-22281-40DU	Duplicate	T	Solid	7471A	240-79645
240-22281-40MS	Matrix Spike	T	Solid	7471A	240-79645
240-22281-41	079SB-0299M-0001-SO	T	Solid	7471A	240-79645
240-22281-42	079SB-0300M-0001-SO	T	Solid	7471A	240-79645
240-22281-43	079SB-0301M-0001-SO	T	Solid	7471A	240-79645
240-22281-44	079SB-0302M-0001-SO	T	Solid	7471A	240-79645

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:240-80366					
LCS 240-79941/2-A	Lab Control Sample	T	Solid	7471/DOD	240-79941
MB 240-79941/1-A	Method Blank	T	Solid	7471/DOD	240-79941
LCS 240-80130/2-A	Lab Control Sample	T	Solid	7471/DOD	240-80130
MB 240-80130/1-A	Method Blank	T	Solid	7471/DOD	240-80130
240-22281-1	079SB-0245M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-3	079SB-0324M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-4	079SB-0247M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-6	079SB-0325M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-7	079SB-0249M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-8	079SB-0250M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-9	079SB-0251M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-10	079SB-0252M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-11	079SB-0253M-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-17	07PSS-0286-0001-SO	T	Solid	7471/DOD	240-79941
240-22281-18	07PSS-0303-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-19	07PSS-0304-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-20	079SB-0267M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-20DU	Duplicate	T	Solid	7471/DOD	240-80130
240-22281-20MS	Matrix Spike	T	Solid	7471/DOD	240-80130
240-22281-22	079SB-0269M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-23	079SB-0322M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-25	079SB-0271M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-26	079SB-0272M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-27	079SB-0273M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-28	079SB-0323M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-29	079SB-0274M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-30	079SB-0275M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-31	079SB-0278M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-32	079SB-0279M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-33	079SB-0280M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-34	079SB-0281M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-35	079SB-0282M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-36	079SB-0283M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-37	079SB-0284M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-38	079SB-0296M-0001-SO	T	Solid	7471/DOD	240-80130
240-22281-39	079SB-0297M-0001-SO	T	Solid	7471/DOD	240-80130

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:240-80457					
LCS 240-80281/2-A	Lab Control Sample	T	Solid	7471/DOD	240-80281
MB 240-80281/1-A	Method Blank	T	Solid	7471/DOD	240-80281
240-22281-40	079SB-0298M-0001-SO	T	Solid	7471/DOD	240-80281
240-22281-40DU	Duplicate	T	Solid	7471/DOD	240-80281
240-22281-40MS	Matrix Spike	T	Solid	7471/DOD	240-80281
240-22281-41	079SB-0299M-0001-SO	T	Solid	7471/DOD	240-80281
240-22281-42	079SB-0300M-0001-SO	T	Solid	7471/DOD	240-80281
240-22281-43	079SB-0301M-0001-SO	T	Solid	7471/DOD	240-80281
240-22281-44	079SB-0302M-0001-SO	T	Solid	7471/DOD	240-80281

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-80250					
240-22281-1	079SB-0245M-0001-SO	T	Solid	Moisture	
240-22281-3	079SB-0324M-0001-SO	T	Solid	Moisture	
240-22281-4	079SB-0247M-0001-SO	T	Solid	Moisture	
240-22281-6	079SB-0325M-0001-SO	T	Solid	Moisture	
240-22281-7	079SB-0249M-0001-SO	T	Solid	Moisture	
240-22281-8	079SB-0250M-0001-SO	T	Solid	Moisture	
240-22281-9	079SB-0251M-0001-SO	T	Solid	Moisture	
240-22281-10	079SB-0252M-0001-SO	T	Solid	Moisture	
240-22281-11	079SB-0253M-0001-SO	T	Solid	Moisture	
240-22281-12	07PSS-0254-0001-SO	T	Solid	Moisture	
240-22281-13	07PSS-0255-0001-SO	T	Solid	Moisture	
240-22281-14	07PSS-0276-0001-SO	T	Solid	Moisture	
240-22281-15	07PSS-0277-0001-SO	T	Solid	Moisture	
240-22281-15DU	Duplicate	T	Solid	Moisture	
240-22281-16	07PSS-0285-0001-SO	T	Solid	Moisture	
240-22281-16DU	Duplicate	T	Solid	Moisture	
240-22281-17	07PSS-0286-0001-SO	T	Solid	Moisture	
240-22281-18	07PSS-0303-0001-SO	T	Solid	Moisture	
240-22281-19	07PSS-0304-0001-SO	T	Solid	Moisture	
240-22281-20	079SB-0267M-0001-SO	T	Solid	Moisture	
240-22281-22	079SB-0269M-0001-SO	T	Solid	Moisture	
240-22281-23	079SB-0322M-0001-SO	T	Solid	Moisture	
240-22281-25	079SB-0271M-0001-SO	T	Solid	Moisture	
240-22281-26	079SB-0272M-0001-SO	T	Solid	Moisture	
240-22281-27	079SB-0273M-0001-SO	T	Solid	Moisture	
240-22281-28	079SB-0323M-0001-SO	T	Solid	Moisture	
240-22281-29	079SB-0274M-0001-SO	T	Solid	Moisture	
240-22281-30	079SB-0275M-0001-SO	T	Solid	Moisture	
240-22281-31	079SB-0278M-0001-SO	T	Solid	Moisture	
240-22281-32	079SB-0279M-0001-SO	T	Solid	Moisture	
240-22281-33	079SB-0280M-0001-SO	T	Solid	Moisture	
240-22281-34	079SB-0281M-0001-SO	T	Solid	Moisture	
240-22281-35	079SB-0282M-0001-SO	T	Solid	Moisture	
240-22281-36	079SB-0283M-0001-SO	T	Solid	Moisture	
240-22281-37	079SB-0284M-0001-SO	T	Solid	Moisture	
240-22281-37DU	Duplicate	T	Solid	Moisture	
240-22281-38	079SB-0296M-0001-SO	T	Solid	Moisture	
240-22281-38DU	Duplicate	T	Solid	Moisture	
240-22281-39	079SB-0297M-0001-SO	T	Solid	Moisture	
240-22281-40	079SB-0298M-0001-SO	T	Solid	Moisture	
240-22281-41	079SB-0299M-0001-SO	T	Solid	Moisture	
240-22281-42	079SB-0300M-0001-SO	T	Solid	Moisture	
240-22281-43	079SB-0301M-0001-SO	T	Solid	Moisture	
240-22281-44	079SB-0302M-0001-SO	T	Solid	Moisture	

Client: Environmental Chemical Corp. Job Number: 240-22281-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-1 **Client ID: 079SB-0245M-0001-SO**

Sample Date/Time: 03/20/2013 18:19 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-D-1-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-D-1-A		180-70234	180-68111	04/28/2013 01:50	1	TAL PIT	BR
P:7471A	240-22281-B-1-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-1-B		240-80366	240-79941	04/02/2013 14:54	1	TAL CAN	AS
A:Moisture	240-22281-A-1		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-3 **Client ID: 079SB-0324M-0001-SO**

Sample Date/Time: 03/20/2013 18:16 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-3-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-3-A		180-70234	180-68111	04/28/2013 01:58	1	TAL PIT	BR
P:7471A	240-22281-B-3-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-3-B		240-80366	240-79941	04/02/2013 15:00	1	TAL CAN	AS
A:Moisture	240-22281-A-3		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-3 MS **Client ID: 079SB-0324M-0001-SO**

Sample Date/Time: 03/20/2013 18:16 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-3-C MS		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-3-C MS		180-70234	180-68111	04/28/2013 02:22	1	TAL PIT	BR

Lab ID: 240-22281-3 MSD **Client ID: 079SB-0324M-0001-SO**

Sample Date/Time: 03/20/2013 18:16 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-3-D MSD		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-3-D MSD		180-70234	180-68111	04/28/2013 02:31	1	TAL PIT	BR
P:3050B	240-22281-C-3-D MSD ^10		180-70234	180-68111	04/03/2013 10:33	10	TAL PIT	CH
A:6020/DOD	240-22281-C-3-D MSD ^10		180-70234	180-68111	04/28/2013 13:10	10	TAL PIT	BR

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-3 DU **Client ID: 079SB-0324M-0001-SO**

Sample Date/Time: 03/20/2013 18:16 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-3-B DU		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-3-B DU		180-70234	180-68111	04/28/2013 02:14	1	TAL PIT	BR

Lab ID: 240-22281-3 SD **Client ID: 079SB-0324M-0001-SO**

Sample Date/Time: 03/20/2013 18:16 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-3-A SD ^5		180-70234	180-68111	04/03/2013 10:33	5	TAL PIT	CH
A:6020/DOD	240-22281-C-3-A SD ^5		180-70234	180-68111	04/28/2013 02:06	5	TAL PIT	BR
P:3050B	240-22281-C-3-A PDS		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-3-A PDS		180-70234	180-68111	04/28/2013 02:55	1	TAL PIT	BR

Lab ID: 240-22281-4 **Client ID: 079SB-0247M-0001-SO**

Sample Date/Time: 03/20/2013 18:17 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-4-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-4-A		180-70234	180-68111	04/28/2013 03:04	1	TAL PIT	BR
P:7471A	240-22281-B-4-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-4-B		240-80366	240-79941	04/02/2013 15:02	1	TAL CAN	AS
A:Moisture	240-22281-A-4		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-6 **Client ID: 079SB-0325M-0001-SO**

Sample Date/Time: 03/20/2013 18:18 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-6-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-6-A		180-70234	180-68111	04/28/2013 03:12	1	TAL PIT	BR
P:3050B	240-22281-C-6-A ^10		180-70234	180-68111	04/03/2013 10:33	10	TAL PIT	CH
A:6020/DOD	240-22281-C-6-A ^10		180-70234	180-68111	04/28/2013 13:18	10	TAL PIT	BR
P:7471A	240-22281-B-6-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-6-B		240-80366	240-79941	04/02/2013 15:03	1	TAL CAN	AS
A:Moisture	240-22281-A-6		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-7 **Client ID: 079SB-0249M-0001-SO**

Sample Date/Time: 03/20/2013 17:49 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-7-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-7-A		180-70234	180-68111	04/28/2013 03:20	1	TAL PIT	BR
P:7471A	240-22281-B-7-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-7-B		240-80366	240-79941	04/02/2013 15:04	1	TAL CAN	AS
A:Moisture	240-22281-A-7		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-8 **Client ID: 079SB-0250M-0001-SO**

Sample Date/Time: 03/20/2013 18:07 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-8-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-8-A		180-70234	180-68111	04/28/2013 03:28	1	TAL PIT	BR
P:7471A	240-22281-B-8-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-8-B		240-80366	240-79941	04/02/2013 15:07	1	TAL CAN	AS
A:Moisture	240-22281-A-8		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-9 **Client ID: 079SB-0251M-0001-SO**

Sample Date/Time: 03/20/2013 16:58 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-9-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-9-A		180-70234	180-68111	04/28/2013 03:36	1	TAL PIT	BR
P:7471A	240-22281-B-9-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-9-B		240-80366	240-79941	04/02/2013 15:08	1	TAL CAN	AS
A:Moisture	240-22281-A-9		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-10 **Client ID: 079SB-0252M-0001-SO**

Sample Date/Time: 03/20/2013 18:22 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-10-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-10-A		180-70234	180-68111	04/28/2013 03:45	1	TAL PIT	BR
P:7471A	240-22281-B-10-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-10-B		240-80366	240-79941	04/02/2013 15:09	1	TAL CAN	AS
A:Moisture	240-22281-A-10		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-11 **Client ID: 079SB-0253M-0001-SO**

Sample Date/Time: 03/20/2013 17:23 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-11-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-11-A		180-70234	180-68111	04/28/2013 03:53	1	TAL PIT	BR
P:7471A	240-22281-B-11-B		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-11-B		240-80366	240-79941	04/02/2013 15:11	1	TAL CAN	AS
A:Moisture	240-22281-A-11		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-12 **Client ID: 07PSS-0254-0001-SO**

Sample Date/Time: 03/20/2013 17:20 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-12-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-12-A		180-70234	180-68111	04/28/2013 04:01	1	TAL PIT	BR
P:3050B	240-22281-C-12-A ^100		180-70234	180-68111	04/03/2013 10:33	100	TAL PIT	CH
A:6020/DOD	240-22281-C-12-A ^100		180-70234	180-68111	04/28/2013 14:25	100	TAL PIT	BR
P:7471A	240-22281-B-12-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-12-A		240-79644	240-79493	03/27/2013 10:20	1	TAL CAN	RT
A:Moisture	240-22281-A-12		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-13 **Client ID: 07PSS-0255-0001-SO**

Sample Date/Time: 03/20/2013 17:26 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-13-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-13-A		180-70234	180-68111	04/28/2013 04:09	1	TAL PIT	BR
P:3050B	240-22281-C-13-A ^10		180-70234	180-68111	04/03/2013 10:33	10	TAL PIT	CH
A:6020/DOD	240-22281-C-13-A ^10		180-70234	180-68111	04/28/2013 14:17	10	TAL PIT	BR
P:7471A	240-22281-B-13-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-13-A		240-79644	240-79493	03/27/2013 10:24	1	TAL CAN	RT
A:Moisture	240-22281-A-13		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-14 **Client ID: 07PSS-0276-0001-SO**

Sample Date/Time: 03/20/2013 11:04 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-14-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-14-A		180-70234	180-68111	04/28/2013 04:34	1	TAL PIT	BR
P:3050B	240-22281-C-14-A ^10		180-70234	180-68111	04/03/2013 10:33	10	TAL PIT	CH
A:6020/DOD	240-22281-C-14-A ^10		180-70234	180-68111	04/28/2013 13:34	10	TAL PIT	BR
P:7471A	240-22281-B-14-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-14-A		240-79644	240-79493	03/27/2013 10:26	1	TAL CAN	RT
A:Moisture	240-22281-A-14		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-15 **Client ID: 07PSS-0277-0001-SO**

Sample Date/Time: 03/20/2013 11:05 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-15-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-15-A		180-70234	180-68111	04/28/2013 04:42	1	TAL PIT	BR
P:3050B	240-22281-C-15-A ^100		180-70234	180-68111	04/03/2013 10:33	100	TAL PIT	CH
A:6020/DOD	240-22281-C-15-A ^100		180-70234	180-68111	04/28/2013 13:43	100	TAL PIT	BR
P:7471A	240-22281-B-15-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-15-A		240-79644	240-79493	03/27/2013 10:27	1	TAL CAN	RT
A:Moisture	240-22281-A-15		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-15 DU **Client ID: 07PSS-0277-0001-SO**

Sample Date/Time: 03/20/2013 11:05 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22281-A-15 DU		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-16 **Client ID: 07PSS-0285-0001-SO**

Sample Date/Time: 03/20/2013 15:54 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-16-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-16-A		180-70234	180-68111	04/28/2013 04:50	1	TAL PIT	BR
P:7471A	240-22281-B-16-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-16-A		240-79644	240-79493	03/27/2013 10:28	1	TAL CAN	RT
A:Moisture	240-22281-A-16		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-16 DU **Client ID:** 07PSS-0285-0001-SO

Sample Date/Time: 03/20/2013 15:54 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22281-A-16 DU		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-17 **Client ID:** 07PSS-0286-0001-SO

Sample Date/Time: 03/20/2013 15:55 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-17-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-17-A		180-70234	180-68111	04/28/2013 04:59	1	TAL PIT	BR
P:7471A	240-22281-B-17-A		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	240-22281-B-17-A		240-80366	240-79941	04/02/2013 15:12	1	TAL CAN	AS
A:Moisture	240-22281-A-17		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-18 **Client ID:** 07PSS-0303-0001-SO

Sample Date/Time: 03/20/2013 12:12 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-18-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-18-A		180-70234	180-68111	04/28/2013 05:07	1	TAL PIT	BR
P:7471A	240-22281-B-18-A		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-18-A		240-80366	240-80130	04/02/2013 15:58	1	TAL CAN	AS
A:Moisture	240-22281-A-18		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-19 **Client ID:** 07PSS-0304-0001-SO

Sample Date/Time: 03/20/2013 12:15 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-19-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-19-A		180-70234	180-68111	04/28/2013 05:15	1	TAL PIT	BR
P:7471A	240-22281-B-19-A		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-19-A		240-80366	240-80130	04/02/2013 15:59	1	TAL CAN	AS
A:Moisture	240-22281-A-19		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-20 **Client ID: 079SB-0267M-0001-SO**

Sample Date/Time: 03/20/2013 11:53 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-20-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-20-A		180-70234	180-68111	04/28/2013 05:23	1	TAL PIT	BR
P:7471A	240-22281-B-20-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-20-B		240-80366	240-80130	04/02/2013 15:20	1	TAL CAN	AS
A:Moisture	240-22281-A-20		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-20 MS **Client ID: 079SB-0267M-0001-SO**

Sample Date/Time: 03/20/2013 11:53 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	240-22281-B-20-D MS		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-20-D MS		240-80366	240-80130	04/02/2013 15:23	1	TAL CAN	AS

Lab ID: 240-22281-20 DU **Client ID: 079SB-0267M-0001-SO**

Sample Date/Time: 03/20/2013 11:53 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	240-22281-B-20-C DU		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-20-C DU		240-80366	240-80130	04/02/2013 15:21	1	TAL CAN	AS

Lab ID: 240-22281-22 **Client ID: 079SB-0269M-0001-SO**

Sample Date/Time: 03/20/2013 11:52 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-22-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-22-A		180-70234	180-68111	04/28/2013 05:31	1	TAL PIT	BR
P:3050B	240-22281-C-22-A ^10		180-70234	180-68111	04/03/2013 10:33	10	TAL PIT	CH
A:6020/DOD	240-22281-C-22-A ^10		180-70234	180-68111	04/28/2013 13:51	10	TAL PIT	BR
P:7471A	240-22281-B-22-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-22-B		240-80366	240-80130	04/02/2013 15:24	1	TAL CAN	AS
A:Moisture	240-22281-A-22		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-23 **Client ID: 079SB-0322M-0001-SO**

Sample Date/Time: 03/20/2013 11:55 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-23-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	240-22281-C-23-A		180-70234	180-68111	04/28/2013 05:40	1	TAL PIT	BR
P:7471A	240-22281-B-23-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-23-B		240-80366	240-80130	04/02/2013 15:26	1	TAL CAN	AS
A:Moisture	240-22281-A-23		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-25 **Client ID: 079SB-0271M-0001-SO**

Sample Date/Time: 03/20/2013 09:52 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-25-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-25-A		180-70234	180-68272	04/28/2013 06:54	1	TAL PIT	BR
P:7471A	240-22281-B-25-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-25-B		240-80366	240-80130	04/02/2013 15:27	1	TAL CAN	AS
A:Moisture	240-22281-A-25		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-25 MS **Client ID: 079SB-0271M-0001-SO**

Sample Date/Time: 03/20/2013 09:52 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-25-C MS		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-25-C MS		180-70234	180-68272	04/28/2013 07:18	1	TAL PIT	BR

Lab ID: 240-22281-25 MSD **Client ID: 079SB-0271M-0001-SO**

Sample Date/Time: 03/20/2013 09:52 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-25-D MSD		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-25-D MSD		180-70234	180-68272	04/28/2013 07:27	1	TAL PIT	BR

Lab ID: 240-22281-25 DU **Client ID: 079SB-0271M-0001-SO**

Sample Date/Time: 03/20/2013 09:52 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-25-B DU		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-25-B DU		180-70234	180-68272	04/28/2013 07:10	1	TAL PIT	BR

Client: Environmental Chemical Corp. Job Number: 240-22281-1

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Lab ID: 240-22281-25 SD **Client ID: 079SB-0271M-0001-SO**

Sample Date/Time: 03/20/2013 09:52 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-25-A SD ^5		180-70234	180-68272	04/04/2013 10:41	5	TAL PIT	CH
A:6020/DOD	240-22281-C-25-A SD ^5		180-70234	180-68272	04/28/2013 07:02	5	TAL PIT	BR
P:3050B	240-22281-C-25-A PDS		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-25-A PDS		180-70234	180-68272	04/28/2013 07:35	1	TAL PIT	BR

Lab ID: 240-22281-26 **Client ID: 079SB-0272M-0001-SO**

Sample Date/Time: 03/20/2013 10:49 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-26-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-26-A		180-70234	180-68272	04/28/2013 07:43	1	TAL PIT	BR
P:7471A	240-22281-B-26-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-26-B		240-80366	240-80130	04/02/2013 15:29	1	TAL CAN	AS
A:Moisture	240-22281-A-26		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-27 **Client ID: 079SB-0273M-0001-SO**

Sample Date/Time: 03/20/2013 12:03 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-27-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-27-A		180-70234	180-68272	04/28/2013 07:51	1	TAL PIT	BR
P:3050B	240-22281-C-27-A ^10		180-70234	180-68272	04/04/2013 10:41	10	TAL PIT	CH
A:6020/DOD	240-22281-C-27-A ^10		180-70234	180-68272	04/28/2013 13:59	10	TAL PIT	BR
P:7471A	240-22281-B-27-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-27-B		240-80366	240-80130	04/02/2013 15:30	1	TAL CAN	AS
A:Moisture	240-22281-A-27		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-28 **Client ID: 079SB-0323M-0001-SO**

Sample Date/Time: 03/20/2013 11:54 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-28-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-28-A		180-70234	180-68272	04/28/2013 08:00	1	TAL PIT	BR
P:3050B	240-22281-C-28-A ^10		180-70234	180-68272	04/04/2013 10:41	10	TAL PIT	CH
A:6020/DOD	240-22281-C-28-A ^10		180-70234	180-68272	04/28/2013 14:34	10	TAL PIT	BR
P:7471A	240-22281-B-28-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-28-B		240-80366	240-80130	04/02/2013 15:32	1	TAL CAN	AS
A:Moisture	240-22281-A-28		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-29 **Client ID: 079SB-0274M-0001-SO**

Sample Date/Time: 03/20/2013 11:37 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-29-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-29-A		180-70234	180-68272	04/28/2013 08:24	1	TAL PIT	BR
P:7471A	240-22281-B-29-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-29-B		240-80366	240-80130	04/02/2013 15:36	1	TAL CAN	AS
A:Moisture	240-22281-A-29		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-30 **Client ID: 079SB-0275M-0001-SO**

Sample Date/Time: 03/20/2013 11:18 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-30-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-30-A		180-70234	180-68272	04/28/2013 08:33	1	TAL PIT	BR
P:7471A	240-22281-B-30-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-30-B		240-80366	240-80130	04/02/2013 15:38	1	TAL CAN	AS
A:Moisture	240-22281-A-30		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-31 **Client ID: 079SB-0278M-0001-SO**

Sample Date/Time: 03/20/2013 16:26 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-31-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-31-A		180-70234	180-68272	04/28/2013 08:41	1	TAL PIT	BR
P:7471A	240-22281-B-31-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-31-B		240-80366	240-80130	04/02/2013 15:40	1	TAL CAN	AS
A:Moisture	240-22281-A-31		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-32 **Client ID: 079SB-0279M-0001-SO**

Sample Date/Time: 03/20/2013 16:29 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-32-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-32-A		180-70234	180-68272	04/28/2013 08:49	1	TAL PIT	BR
P:7471A	240-22281-B-32-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-32-B		240-80366	240-80130	04/02/2013 15:42	1	TAL CAN	AS
A:Moisture	240-22281-A-32		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-33 **Client ID: 079SB-0280M-0001-SO**

Sample Date/Time: 03/20/2013 15:38 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-33-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-33-A		180-70234	180-68272	04/28/2013 08:57	1	TAL PIT	BR
P:7471A	240-22281-B-33-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-33-B		240-80366	240-80130	04/02/2013 15:43	1	TAL CAN	AS
A:Moisture	240-22281-A-33		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-34 **Client ID: 079SB-0281M-0001-SO**

Sample Date/Time: 03/20/2013 15:23 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-34-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-34-A		180-70234	180-68272	04/28/2013 09:06	1	TAL PIT	BR
P:7471A	240-22281-B-34-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-34-B		240-80366	240-80130	04/02/2013 15:45	1	TAL CAN	AS
A:Moisture	240-22281-A-34		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-35 **Client ID: 079SB-0282M-0001-SO**

Sample Date/Time: 03/20/2013 16:22 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-35-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-35-A		180-70234	180-68272	04/28/2013 09:14	1	TAL PIT	BR
P:7471A	240-22281-B-35-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-35-B		240-80366	240-80130	04/02/2013 15:46	1	TAL CAN	AS
A:Moisture	240-22281-A-35		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-36 **Client ID: 079SB-0283M-0001-SO**

Sample Date/Time: 03/20/2013 16:32 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-36-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-36-A		180-70234	180-68272	04/28/2013 09:22	1	TAL PIT	BR
P:7471A	240-22281-B-36-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-36-B		240-80366	240-80130	04/02/2013 15:48	1	TAL CAN	AS
A:Moisture	240-22281-A-36		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-37 **Client ID: 079SB-0284M-0001-SO**

Sample Date/Time: 03/20/2013 16:03 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-37-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-37-A		180-70234	180-68272	04/28/2013 09:30	1	TAL PIT	BR
P:7471A	240-22281-B-37-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-37-B		240-80366	240-80130	04/02/2013 15:49	1	TAL CAN	AS
A:Moisture	240-22281-A-37		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-37 DU **Client ID: 079SB-0284M-0001-SO**

Sample Date/Time: 03/20/2013 16:03 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22281-A-37 DU		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-38 **Client ID: 079SB-0296M-0001-SO**

Sample Date/Time: 03/20/2013 14:36 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-38-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-38-A		180-70234	180-68272	04/28/2013 09:39	1	TAL PIT	BR
P:7471A	240-22281-B-38-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-38-B		240-80366	240-80130	04/02/2013 15:51	1	TAL CAN	AS
A:Moisture	240-22281-A-38		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-38 DU **Client ID: 079SB-0296M-0001-SO**

Sample Date/Time: 03/20/2013 14:36 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22281-A-38 DU		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-39 **Client ID: 079SB-0297M-0001-SO**

Sample Date/Time: 03/20/2013 14:40 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-39-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-39-A		180-70234	180-68272	04/28/2013 10:03	1	TAL PIT	BR
P:7471A	240-22281-B-39-B		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	240-22281-B-39-B		240-80366	240-80130	04/02/2013 15:56	1	TAL CAN	AS
A:Moisture	240-22281-A-39		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-40 **Client ID: 079SB-0298M-0001-SO**

Sample Date/Time: 03/20/2013 12:38 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-40-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-40-A		180-70234	180-68272	04/28/2013 10:12	1	TAL PIT	BR
P:7471A	240-22281-B-40-B		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-40-B		240-80457	240-80281	04/03/2013 11:38	1	TAL CAN	AS
A:Moisture	240-22281-A-40		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-40 MS **Client ID: 079SB-0298M-0001-SO**

Sample Date/Time: 03/20/2013 12:38 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	240-22281-B-40-D MS		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-40-D MS		240-80457	240-80281	04/03/2013 11:41	1	TAL CAN	AS

Lab ID: 240-22281-40 DU **Client ID: 079SB-0298M-0001-SO**

Sample Date/Time: 03/20/2013 12:38 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	240-22281-B-40-C DU		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-40-C DU		240-80457	240-80281	04/03/2013 11:39	1	TAL CAN	AS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: 240-22281-41 **Client ID: 079SB-0299M-0001-SO**

Sample Date/Time: 03/20/2013 14:41 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-41-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-41-A		180-70234	180-68272	04/28/2013 10:20	1	TAL PIT	BR
P:7471A	240-22281-B-41-B		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-41-B		240-80457	240-80281	04/03/2013 11:42	1	TAL CAN	AS
A:Moisture	240-22281-A-41		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-42 **Client ID: 079SB-0300M-0001-SO**

Sample Date/Time: 03/20/2013 14:35 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-42-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-42-A		180-70234	180-68272	04/28/2013 10:28	1	TAL PIT	BR
P:7471A	240-22281-B-42-B		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-42-B		240-80457	240-80281	04/03/2013 11:43	1	TAL CAN	AS
A:Moisture	240-22281-A-42		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-43 **Client ID: 079SB-0301M-0001-SO**

Sample Date/Time: 03/20/2013 14:48 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-43-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-43-A		180-70234	180-68272	04/28/2013 10:36	1	TAL PIT	BR
P:7471A	240-22281-B-43-B		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-43-B		240-80457	240-80281	04/03/2013 11:45	1	TAL CAN	AS
A:Moisture	240-22281-A-43		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Lab ID: 240-22281-44 **Client ID: 079SB-0302M-0001-SO**

Sample Date/Time: 03/20/2013 12:19 Received Date/Time: 03/21/2013 17:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22281-C-44-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	240-22281-C-44-A		180-70234	180-68272	04/28/2013 10:45	1	TAL PIT	BR
P:7471A	240-22281-B-44-B		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	240-22281-B-44-B		240-80457	240-80281	04/03/2013 11:46	1	TAL CAN	AS
A:Moisture	240-22281-A-44		240-80250		04/02/2013 11:05	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22281-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	MB 180-68111/1-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	MB 180-68111/1-A		180-70234	180-68111	04/28/2013 01:33	1	TAL PIT	BR
P:3050B	MB 180-68272/1-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	MB 180-68272/1-A		180-70234	180-68272	04/28/2013 05:48	1	TAL PIT	BR
P:7471A	MB 240-79493/1-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	MB 240-79493/1-A		240-79644	240-79493	03/27/2013 09:48	1	TAL CAN	RT
P:7471A	MB 240-79941/1-A		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	MB 240-79941/1-A		240-80366	240-79941	04/02/2013 14:23	1	TAL CAN	AS
P:7471A	MB 240-80130/1-A		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	MB 240-80130/1-A		240-80366	240-80130	04/02/2013 15:14	1	TAL CAN	AS
P:7471A	MB 240-80281/1-A		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	MB 240-80281/1-A		240-80457	240-80281	04/03/2013 11:33	1	TAL CAN	AS

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCS 180-68111/2-A		180-70234	180-68111	04/03/2013 10:33	1	TAL PIT	CH
A:6020/DOD	LCS 180-68111/2-A		180-70234	180-68111	04/28/2013 01:42	1	TAL PIT	BR
P:3050B	LCS 180-68272/2-A		180-70234	180-68272	04/04/2013 10:41	1	TAL PIT	CH
A:6020/DOD	LCS 180-68272/2-A		180-70234	180-68272	04/28/2013 06:46	1	TAL PIT	BR
P:7471A	LCS 240-79493/2-A		240-79644	240-79493	03/26/2013 14:25	1	TAL CAN	DE
A:7471/DOD	LCS 240-79493/2-A		240-79644	240-79493	03/27/2013 09:50	1	TAL CAN	RT
P:7471A	LCS 240-79941/2-A		240-80366	240-79941	03/29/2013 14:30	1	TAL CAN	DE
A:7471/DOD	LCS 240-79941/2-A		240-80366	240-79941	04/02/2013 14:24	1	TAL CAN	AS
P:7471A	LCS 240-80130/2-A		240-80366	240-80130	04/01/2013 16:25	1	TAL CAN	DE
A:7471/DOD	LCS 240-80130/2-A		240-80366	240-80130	04/02/2013 15:19	1	TAL CAN	AS
P:7471A	LCS 240-80281/2-A		240-80457	240-80281	04/02/2013 15:00	1	TAL CAN	DE
A:7471/DOD	LCS 240-80281/2-A		240-80457	240-80281	04/03/2013 11:34	1	TAL CAN	AS

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTAQUAREGIA_00477	03/26/13	03/26/13	NA, Lot NA	160 mL	MTHCL_00056	120 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00044	40 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00478	03/26/13	03/26/13	NA, Lot NA	80 mL	MTHCL_00056	60 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00044	20 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00482	03/29/13	03/29/13	NA, Lot NA	320 mL	MTHCL_00056	240 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00045	80 mL	Nitric acid	0.25 mL/mL
.MTHCL_00056	03/01/15		MACRON, Lot 0000024317		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00483	04/01/13	04/01/13	NA, Lot NA	320 mL	MTHCL_00057	240 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00045	80 mL	Nitric acid	0.25 mL/mL
.MTHCL_00057	03/22/15		MACRON, Lot 0000013500		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00484	04/02/13	04/02/13	NA, Lot NA	320 mL	MTHCL_00057	240 mL	Hydrogen Chloride	0.75 mL/mL
					MTHNO3_00045	80 mL	Nitric acid	0.25 mL/mL
.MTHCL_00057	03/22/15		MACRON, Lot 0000013500		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00338	03/26/13	03/26/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00044	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00339	03/26/13	03/26/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00044	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00044	02/20/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00342	03/29/13	03/29/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00045	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00343	04/01/13	04/01/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00045	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13		High Purity, Lot 1221902		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00345	04/02/13	04/02/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00008	1 mL	Mercury	100 ug/L
					MTHNO3_00045	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00008	03/14/14		High Purity, Lot 1306402		(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00045	03/14/15		Macron Chemicals, Lot L10022		(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00009	03/08/14		Plasma Pure, Lot 1277101		(Purchased Reagent)		Mercury	1 ug/mL
MTKMN04W_00040	03/12/15	03/12/13	DIWATER, Lot DIWATER	2 L	MTKMN04_00013	100 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00013	10/05/17		Fisher, Lot 121666		(Purchased Reagent)		Potassium Permanganate	1 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CCVHL1_00002	05/01/13	04/10/13	2% Nitric Acid, Lot 12756	50 mL	MCGAL10-1_00004	2.5 mL	Aluminum	500 ppm
					MCGBA1-1_00003	0.75 mL	Barium	15 ppm
					MCGCR(3)1-1_00003	1 mL	Chromium	20 ppm
					MCGCU1-1_00003	1 mL	Copper	20 ppm
					MCGFE10-1_00003	2.5 mL	Iron	500 ppm
					MCGMN1-1_00003	1 mL	Manganese	20 ppm
					MCGNI1-1_00003	0.5 mL	Nickel	10 ppm
					MCGPB1-1_00003	1 mL	Lead	20 ppm
					MCGZN1-1_00003	1 mL	Zinc	20 ppm
.MCGAL10-1_00004	12/01/13	Inorganic Ventures, Lot E2-AL04115			(Purchased Reagent)		Aluminum	10000 ppm
.MCGBA1-1_00003	12/01/13	Inorganic Ventures, Lot D2-BA02066			(Purchased Reagent)		Barium	1000 ppm
.MCGCR(3)1-1_00003	12/01/13	Inorganic Ventures, Lot E2-CR03060			(Purchased Reagent)		Chromium	1000 ppm
.MCGCU1-1_00003	12/01/13	Inorganic Ventures, Lot D2-CU02130			(Purchased Reagent)		Copper	1000 ppm
.MCGFE10-1_00003	06/01/13	Inorganic Ventures, Lot E2-FE03145			(Purchased Reagent)		Iron	10000 ppm
.MCGMN1-1_00003	08/01/13	Inorganic Ventures, Lot E2-MN02093			(Purchased Reagent)		Manganese	1000 ppm
.MCGNI1-1_00003	12/01/13	Inorganic Ventures, Lot D2-NI02074			(Purchased Reagent)		Nickel	1000 ppm
.MCGPB1-1_00003	05/01/13	Inorganic Ventures, Lot F2-PB03035			(Purchased Reagent)		Lead	1000 ppm
.MCGZN1-1_00003	12/01/13	Inorganic Ventures, Lot D2-ZN02075			(Purchased Reagent)		Zinc	1000 ppm
CCVHL2_00002	05/01/13	04/10/13	2% Nitric Acid, Lot 12756	50 mL	MCGCA10-1_00003	5 mL	Calcium	1000 ppm
					MCGK10-1_00003	2.5 mL	Potassium	500 ppm
					MCGMG10-1_00004	5 mL	Magnesium	1000 ppm
					MCGNA10-1_00003	2.5 mL	Sodium	500 ppm
.MCGCA10-1_00003	06/01/13	Inorganic Ventures, Lot F2-CA04043			(Purchased Reagent)		Calcium	10000 ppm
.MCGK10-1_00003	05/01/13	Inorganic Ventures, Lot F2-K03029			(Purchased Reagent)		Potassium	10000 ppm
.MCGMG10-1_00004	12/01/13	Inorganic Ventures, Lot E2-MG03106			(Purchased Reagent)		Magnesium	10000 ppm
.MCGNA10-1_00003	08/01/13	Inorganic Ventures, Lot E2-NA03095			(Purchased Reagent)		Sodium	10000 ppm
MCCV1X_00039	05/01/13	04/01/13	2% Nitric Acid, Lot K35N55	500 mL	MCALSPECAREV_00004	10 mL	Aluminum	0.5 ppm
							Arsenic	0.1 ppm
							Barium	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Calcium	50 ppm
							Chromium	0.1 ppm
							Cobalt	0.1 ppm
							Copper	0.1 ppm
							Iron	25 ppm
							Lead	0.1 ppm
							Magnesium	50 ppm
							Manganese	0.5 ppm
							Nickel	0.1 ppm
							Potassium	50 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Sodium	50 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Thallium	0.1 ppm
							Vanadium	0.1 ppm
							Zinc	0.1 ppm
					MCALSPECB_00005	10 mL	Antimony	0.1 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MCCV1X_00041	05/22/13	04/22/13	2% Nitric Acid, Lot K35N55	500 mL	MCALSPECAREV_00004	10 mL	Aluminum	0.5 ppm
							Arsenic	0.1 ppm
							Barium	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Calcium	50 ppm
							Chromium	0.1 ppm
							Cobalt	0.1 ppm
							Copper	0.1 ppm
							Iron	25 ppm
							Lead	0.1 ppm
							Magnesium	50 ppm
							Manganese	0.5 ppm
							Nickel	0.1 ppm
							Potassium	50 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Sodium	50 ppm
							Thallium	0.1 ppm
							Vanadium	0.1 ppm
							Zinc	0.1 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MCALSPECB_00005	10 mL	Antimony	0.1 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MCRIX_00032	05/26/13	04/26/13	HNO3, Lot K09N65	250 mL	MMSCRI-1B_00002	1 mL	Aluminum	0.03 ppm
							Arsenic	0.001 ppm
							Barium	0.01 ppm
							Beryllium	0.001 ppm
							Cadmium	0.001 ppm
							Calcium	0.1 ppm
							Chromium	0.002 ppm
							Cobalt	0.0005 ppm
							Copper	0.002 ppm
							Iron	0.05 ppm
							Lead	0.001 ppm
							Magnesium	0.1 ppm
							Manganese	0.005 ppm
							Nickel	0.001 ppm
							Potassium	0.1 ppm
							Selenium	0.005 ppm
							Silver	0.001 ppm
							Sodium	0.1 ppm
							Thallium	0.001 ppm
							Vanadium	0.001 ppm
							Zinc	0.005 ppm
					MMSCRI-2_00004	1 mL	Antimony	0.002 ppm
.MMSCRI-1B_00002	10/01/13	Inorganic Ventures, Lot F2-MEB439152			(Purchased Reagent)		Aluminum	7.5 ppm
							Arsenic	0.25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	2.5 ppm
							Beryllium	0.25 ppm
							Cadmium	0.25 ppm
							Calcium	25 ppm
							Chromium	0.5 ppm
							Cobalt	0.125 ppm
							Copper	0.5 ppm
							Iron	12.5 ppm
							Lead	0.25 ppm
							Magnesium	25 ppm
							Manganese	1.25 ppm
							Nickel	0.25 ppm
							Potassium	25 ppm
							Selenium	1.25 ppm
							Silver	0.25 ppm
							Sodium	25 ppm
							Thallium	0.25 ppm
							Vanadium	0.25 ppm
							Zinc	1.25 ppm
.MMSCRI-2_00004	10/01/13	Inorganic Ventures, Lot F2-MEB436153			(Purchased Reagent)		Antimony	0.5 ppm
MICSABX_00033	05/07/13	04/07/13	2% Nitric Acid, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
							Ti	2 ppm
					M6020ICS-0B_00004	1 mL	Arsenic	0.02 ppm
							Cadmium	0.02 ppm
							Chromium	0.02 ppm
							Cobalt	0.02 ppm
							Copper	0.02 ppm
							Manganese	0.0225 ppm
							Nickel	0.02 ppm
							Silver	0.02 ppm
							Zinc	0.025 ppm
					MMSICSAB-1_00006	0.2 mL	Barium	0.02 ppm
							Beryllium	0.02 ppm
							Lead	0.02 ppm
							Sr	0.025 ppm
							Thallium	0.02 ppm
							Vanadium	0.02 ppm
					MMSICSAB-2_00005	0.2 mL	Antimony	0.02 ppm
							B	0.05 ppm
							Selenium	0.05 ppm
							Si	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sn	0.1 ppm
.M6020ICS-0A_00003	11/01/13	Inorganic Ventures, Lot F2-MEB418129			(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm
							Ti	20 ppm
.M6020ICS-0B_00004	11/01/13	Inorganic Ventures, Lot F2-MEB415126			(Purchased Reagent)		Arsenic	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Manganese	2.25 ppm
							Nickel	2 ppm
							Silver	2 ppm
							Zinc	2.5 ppm
.MMSICSAB-1_00006	04/01/14	Inorganic Ventures, Lot F2-MEB415033			(Purchased Reagent)		Barium	10 ppm
							Beryllium	10 ppm
							Lead	10 ppm
							Sr	12.5 ppm
							Thallium	10 ppm
							Vanadium	10 ppm
.MMSICSAB-2_00005	04/01/14	Inorganic Ventures, Lot G2-MEB467043			(Purchased Reagent)		Antimony	10 ppm
							B	25 ppm
							Selenium	25 ppm
							Si	250 ppm
							Sn	50 ppm
MICSAX_00029	05/07/13	04/07/13	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
							Ti	2 ppm
.M6020ICS-0A_00003	11/01/13	Inorganic Ventures, Lot F2-MEB418129			(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm
							Ti	20 ppm
MICVX_00003	04/17/13	03/17/13	2% Nitric Acid, Lot K09N65	250 mg/L	MICPMSICV_00013	10 mg/L	Aluminum	0.4 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Antimony	0.08 mg/L
							Arsenic	0.08 mg/L
							Barium	0.08 mg/L
							Beryllium	0.08 mg/L
							Cadmium	0.08 mg/L
							Calcium	40 mg/L
							Chromium	0.08 mg/L
							Cobalt	0.08 mg/L
							Copper	0.08 mg/L
							Iron	20 mg/L
							Lead	0.08 mg/L
							Magnesium	40 mg/L
							Manganese	0.4 mg/L
							Nickel	0.08 mg/L
							Potassium	40 mg/L
							Selenium	0.08 mg/L
							Silver	0.08 mg/L
							Sodium	40 mg/L
							Thallium	0.08 mg/L
							Vanadium	0.08 mg/L
							Zinc	0.08 mg/L
.MICPMSICV_00013	12/30/13	SPEX CertiPrep, Lot 17-147CR			(Purchased Reagent)		Aluminum	10 ppm
							Antimony	2 ppm
							Arsenic	2 ppm
							Barium	2 ppm
							Beryllium	2 ppm
							Cadmium	2 ppm
							Calcium	1000 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Iron	500 ppm
							Lead	2 ppm
							Magnesium	1000 ppm
							Manganese	10 ppm
							Nickel	2 ppm
							Potassium	1000 ppm
							Selenium	2 ppm
							Silver	2 ppm
							Sodium	1000 ppm
							Thallium	2 ppm
							Vanadium	2 ppm
							Zinc	2 ppm
MSTD2X_00019	05/01/13	04/01/13	DI Water, Lot K35N55	250 mL	MCALSPECAREV_00004	10 mg/L	Aluminum	1 ppm
							Arsenic	0.2 ppm
							Barium	0.2 ppm
							Beryllium	0.2 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cadmium	0.2 ppm
							Calcium	100 ppm
							Chromium	0.2 ppm
							Cobalt	0.2 ppm
							Copper	0.2 ppm
							Iron	50 ppm
							Lead	0.2 ppm
							Magnesium	100 ppm
							Manganese	1 ppm
							Nickel	0.2 ppm
							Potassium	100 ppm
							Selenium	0.2 ppm
							Silver	0.2 ppm
							Sodium	100 ppm
							Thallium	0.2 ppm
							Vanadium	0.2 ppm
							Zinc	0.2 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
MSTD3X_00020	05/01/13	04/01/13	2% Nitric Acid, Lot K35N55	250 mL	MCALSPECB_00005	10 mg/L	Antimony	0.2 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MTAPITTICPMS_00011	02/01/14	INORGANIC VENTURES, Lot G2-MEB455121			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Iron	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTICPMS_00014	02/01/14	INORGANIC VENTURES, Lot E2-MEB379097			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							B	100 ug/mL
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Iron	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Sr	100 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTMSA_00014	03/01/14	INORGANIC VENTURES, Lot G2-MEB458093			(Purchased Reagent)		Calcium	5000 ug/mL
							Magnesium	5000 ug/mL
							Potassium	5000 ug/mL
							Sodium	5000 ug/mL
MTAPITTMSC_00018	03/01/14	Inorganic Ventures, Lot G2-MEB458094			(Purchased Reagent)		Antimony	50 ug/mL
							Mo	100 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sn	200 ug/mL
							Ti	100 ug/mL

HIGH-PURITY STANDARDS
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P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

rec'd SG 8-24-12

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**10 33-1**	Material Purity:	99.9998%
Lot Number:	**1221902**	Matrix:	5% (v/v) HNO_3

Certified Value: 10.0 µg/mL ± 0.1 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 mega ohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the NBS 602 method.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date: August 6, 2012
Shipped Date: AUG 2 0 2012
Expiration Date: AUG 2 0 2013
Certificate Issue Date: August 7, 2012

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

Angel Sellers
Quality Manager

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High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Certificate of Analysis

Rec. 3-18-13 DE

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**10 33-1**	Material Purity:	99.9998%
Lot Number:	**1306402**	Matrix:	5% (v/v) HNO_3

Certified Value: 10.0 µg/mL ± 0.1 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 mega ohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
   The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
b. **Volumetric Device**
   The calibration of volumetric vessels is checked annually using the NBS 602 method.
c. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
d. **Calibration Standards:**
   The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**March 5, 2013**
Shipped Date:	**March 14, 2013**
Expiration Date:	**March 14, 2013**
Certificate Issue Date:	**March 7, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

PLASMA-PURE ™

Standard Certificate

Catalog Number: 610-0000 **Lot Number:** 1287101

Starting Material: 99.9999% purity Hg metal **Diluent/Matrix:** 2% HCl

Preparation Date: Mar-13 **Expiration Date:** Mar-14

Element	Concentration
Hg	1.00 ± 0.02 µg/ml

Received 3/8/2013
ADS

Residual Impurities *	Concentration
None Detected	

* **Impurities were determined via ICP Emission Spectroscopy. Only elements detected are reported.**

Traceability

1. **This standard is certified using wet chemistry assay procedures and/or plasma emission spectroscopy, traceable to primary or well-characterized secondary standards. Traceable to:** NIST SRM 3133, Hg Lot#991304
2. **Analytical balances are routinely calibrated using NIST weight sets.**

Certification

Leeman Labs, Inc. certifies that PLASMA-PURE Standards have been formulated to the concentrations listed above (±0.5% of reported value). This certification does not apply and will be considered null and void if PLASMA-PURE Standards are used in a manner or in an environment not consistent with their intended purpose or are modified by the Customer in any manner.

Limitations

THE ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MECHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitation of Liability

In no event shall Leeman Labs, Inc. be liable for any indirect, incidental, special, or consequential damages, including loss of profits, revenue, or used incurred by Customer or any third party, whether in an action in contract or tort. Leeman Labs Inc's liability for damages hereunder shall in no event exceed the amounts paid for the PLASMA-PURE Standards.

QC Analyst:

Date: March 5, 2013

ISO 9001:2000 QUALITY

TELEDYNE *Leeman Labs*
A Teledyne Technologies Company
6 Wentworth Drive . Hudson, NH 03051
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CERTIFICATE OF ANALYSIS

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765217

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-CAL-SPECA-REV

Lot Number: **F2-MEB415031**

Matrix: 3% HNO3(v/v)

2,500 µg/mL ea:
Ca, K, Mg, Na,

1,250 µg/mL ea:
Fe,

25 µg/mL ea:
Al, Mn,

5 µg/mL ea:
Ag, As, Ba, Be, Cd, Co, Cr3, Cu, Ni,
Pb, Se, Sr, Tl, V, Zn

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	25.00 ± 0.18 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL	Barium, Ba	4.999 ± 0.036 µg/mL
Beryllium, Be	5.002 ± 0.036 µg/mL	Cadmium, Cd	5.000 ± 0.032 µg/mL	Calcium, Ca	2,500 ± 16 µg/mL
Chromium+3, Cr3	5.001 ± 0.032 µg/mL	Cobalt, Co	5.003 ± 0.032 µg/mL	Copper, Cu	5.001 ± 0.032 µg/mL
Iron, Fe	1,250 ± 8 µg/mL	Lead, Pb	5.002 ± 0.032 µg/mL	Magnesium, Mg	2,500 ± 16 µg/mL
Manganese, Mn	25.02 ± 0.15 µg/mL	Nickel, Ni	4.999 ± 0.028 µg/mL	Potassium, K	2,500 ± 16 µg/mL
Selenium, Se	5.002 ± 0.028 µg/mL	Silver, Ag	4.999 ± 0.032 µg/mL	Sodium, Na	2,500 ± 16 µg/mL
Strontium, Sr	5.001 ± 0.032 µg/mL	Thallium, Tl	5.002 ± 0.032 µg/mL	Vanadium, V	4.999 ± 0.032 µg/mL
Zinc, Zn	5.001 ± 0.028 µg/mL				

Certified Density: 1.051 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	010728
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	030721
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	080123
Zn	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

REC: 31313

CERTIFICATE OF ANALYSIS

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or the Competence of Testing and Calibration

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

Custom Solution

TAPITT-CAL-SPECB

F2-MEB415032

3% HNO3(v/v), tr. HF

Sn, Ti

UNCERTAINTIES

	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
nL	Boron, B	5.000 ± 0.032 µg/mL	Molybdenum, Mo	5.002 ± 0.035 µg/mL
nL	Tin, Sn	5.002 ± 0.041 µg/mL	Titanium, Ti	5.002 ± 0.039 µg/mL

6 g/mL (measured at 20 ± 1° C)

alculation of the certified value and the uncertainty. Reported uncertainties represent expanded
the 95% confidence level using a coverage factor of k = 2.

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

4.2 **BALANCE CALIBRATION -** All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION -** All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION -** An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

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10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

L635052

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Aluminum in 7% (v/v) HNO3**

Catalog Number:	CGAL10-1, CGAL10-2, and CGAL10-5
Lot Number:	**F2-AL04115**
Starting Material:	Al ingot
Starting Material Purity (%):	99.9991
Starting Material Lot No:	1629
Matrix:	7% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,041 ± 51 µg/mL - weighted mean

Certified Density: 1.089 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,039 ± 31 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 060502

Assay Method #2 **10,043 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al	M	Dy < 0.036903	O	Li 0.000033	M	Pr < 0.001845	M	Te < 0.184517
M	Sb < 0.003075	M	Er < 0.030753	M	Lu < 0.002460	M	Re < 0.006151	M	Tb < 0.001845
M	As < 0.061506	M	Eu < 0.018452	O	Mg 0.002764	M	Rh < 0.006151	M	Tl < 0.006151
M	Ba < 0.061506	M	Gd < 0.006151	O	Mn 0.000488	M	Rb < 0.006151	M	Th < 0.006151
O	Be < 0.000170	M	Ga < 0.006151	O	Hg < 0.007000	M	Ru < 0.012301	M	Tm < 0.002460
M	Bi 0.006000	M	Ge < 0.036903	M	Mo < 0.012301	M	Sm < 0.006151	M	Sn < 0.030753
O	B 0.001626	M	Au < 0.018452	M	Nd < 0.012301	M	Sc < 0.061506	O	Ti 0.006016
M	Cd < 0.018452	M	Hf < 0.012301	O	Ni 0.001301	M	Se < 0.049205	M	W < 0.061506
O	Ca 0.013495	M	Ho < 0.003075	M	Nb < 0.003075	O	Si 0.048777	M	U < 0.012301
M	Ce < 0.030753	M	In < 0.061506	n	Os	M	Ag < 0.012301	M	V < 0.012301
M	Cs < 0.001845	M	Ir < 0.030753	M	Pd < 0.030753	O	Na 0.022763	M	Yb < 0.006151
O	Cr < 0.001500	O	Fe 0.003252	O	P < 0.030000	M	Sr < 0.003075	M	Y < 0.246023
M	Co < 0.018452	M	La < 0.003075	M	Pt < 0.012301	O	S < 0.100000	O	Zn 0.016259
M	Cu < 0.036903	M	Pb < 0.018452	O	K 0.019511	M	Ta < 0.043054	M	Zr < 0.030753

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4 °C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98154; +3; 6;Al(H2O)6+3

Chemical Compatibility - Soluble in HCl, HNO3, HF and H2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Al Containing Samples (Preparation and Solution) - Metal (Best dissolved in HCl / HNO3); α- Al2O3 (Na2CO3 fusion in Pt0); γ- Al2O3 (Soluble in acids such as HCl) ; Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (sulfuric/peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES394.401 nm	0.05 / 0.006 µg/mL	1	atom	U, Ce
ICP-OES396.152 nm	0.03 / 0.006 µg/mL	1	atom	Mo, Zr, Ce
ICP-OES167.078 nm	0.1 / 0.009 µg/mL	1	ion	Fe
ICP-MS27 amu	30 ppt	n/a	M+	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 27, 2012

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Stephan Blaakman Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

635056

INORGANIC VENTURES™
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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Barium in 0.1% (v/v) HNO3**

Catalog Number:	CGBA1-1, CGBA1-2, and CGBA1-5
Lot Number:	**E2-BA02066**
Starting Material:	Ba(NO3)2
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1514_1599
Matrix:	0.1% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 997 ± 6 µg/mL - weighted mean

Certified Density: 1.000 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **997 ± 4 µg/mL**
ICP Assay NIST SRM 3104a Lot Number: 070222

Assay Method #2 **996 ± 3 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.012010	O Li < 0.004000	M Pr < 0.000601	M Te < 0.060052
M Sb < 0.001001	M Er < 0.010009	M Lu < 0.000801	M Re < 0.002002	O Tb < 0.003900
M As < 0.020017	O Eu < 0.000400	O Mg 0.000130	M Rh < 0.002002	M Tl < 0.002002
s Ba	O Gd < 0.000520	M Mn < 0.008007	M Rb < 0.002002	M Th < 0.002002
M Be < 0.001001	M Ga < 0.002002	O Hg < 0.012000	M Ru < 0.004003	M Tm < 0.000801
M Bi < 0.000801	M Ge < 0.012010	M Mo < 0.004003	O Sm < 0.000710	M Sn < 0.010009
M B < 0.140121	M Au < 0.006005	O Nd < 0.001400	M Sc < 0.020017	M Ti < 0.100087
M Cd < 0.006005	M Hf < 0.004003	O Ni < 0.000900	M Se < 0.016014	M W < 0.020017
O Ca 0.000999	M Ho < 0.001001	M Nb < 0.001001	O Si < 0.003400	M U < 0.004003
M Ce < 0.010009	M In < 0.020017	n Os	M Ag < 0.004003	M V < 0.004003
M Cs < 0.000601	M Ir < 0.010009	M Pd < 0.010009	O Na < 0.010000	M Yb < 0.002002
M Cr < 0.010009	O Fe 0.001149	O P < 0.002600	O Sr 0.001449	O Y < 0.001000
M Co < 0.006005	O La < 0.000200	M Pt < 0.004003	O S < 0.025000	O Zn < 0.000390
M Cu < 0.012010	M Pb < 0.006005	O K < 0.001800	O Ta < 0.006900	M Zr < 0.010009

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33; +2; 6; $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) - Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 455.403 nm	0.002 / 0.0001 µg/mL	1	ion	Zr, U
ICP-OES 233.527 nm	0.004 / 0.0003 µg/mL	1	ion	
ICP-OES 230.424 nm	0.004 / 0.0005 µg/mL	1	ion	Mo, Ir, Co
ICP-MS 138 amu	1 ppt	n/a	M+	122Sn16O, 122Te16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

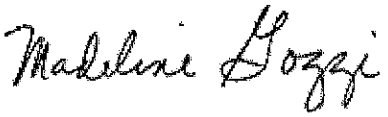
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: October 31, 2011

Expiration Date: EXPIRES 01 Dec 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Madeline Gozzi Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

#424659

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 — ACCREDITED Reference Material Producer Certificate 863.02

Received 5/24/12 RJR

2.0 DESCRIPTION OF CRM **10000 µg/mL Calcium in 2% (v/v) HNO3**

Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
Lot Number:	**F2-CA04043**
Starting Material:	CaO
Starting Material Purity (%):	99.9980
Starting Material Lot No:	1635
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,025 ± 56 µg/mL - weighted mean

Certified Density: 1.039 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{½}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{½}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,026 ± 41 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 050825

Assay Method #2 **10,022 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.000900	M	Dy	< 0.044386	O	Li	< 0.000024	M	Pr	< 0.002219	M	Te	< 0.221932
M	Sb	< 0.003699	M	Er	< 0.036989	M	Lu	< 0.002959	M	Re	< 0.007398	M	Tb	< 0.002219
M	As	< 0.073977	M	Eu	< 0.022193	O	Mg	0.047315	M	Rh	< 0.007398	M	Tl	< 0.007398
O	Ba	0.004732	M	Gd	< 0.007398	O	Mn	< 0.000300	M	Rb	< 0.007398	M	Th	< 0.007398
O	Be	< 0.000085	M	Ga	< 0.007398	O	Hg	< 0.011000	M	Ru	< 0.014795	M	Tm	< 0.002959
M	Bi	< 0.002959	M	Ge	< 0.044386	M	Mo	< 0.014795	M	Sm	< 0.007398	M	Sn	< 0.036989
O	B	< 0.000540	M	Au	< 0.022193	M	Nd	< 0.014795	O	Sc	< 0.000020	O	Ti	< 0.005000
O	Cd	< 0.004500	M	Hf	< 0.014795	O	Ni	< 0.002300	O	Se	< 0.006200	M	W	< 0.073977
s	Ca		M	Ho	< 0.003699	M	Nb	< 0.003699	O	Si	0.013519	M	U	< 0.014795
M	Ce	< 0.036989	O	In	< 0.002000	n	Os		M	Ag	< 0.014795	O	V	< 0.000900
M	Cs	< 0.002219	M	Ir	< 0.036989	M	Pd	< 0.036989	O	Na	0.021630	M	Yb	< 0.007398
O	Cr	< 0.000800	O	Fe	< 0.001100	O	P	< 0.004800	O	Sr	0.189261	M	Y	< 0.295910
O	Co	< 0.001200	M	La	< 0.003699	M	Pt	< 0.014795	O	S	0.108149	O	Zn	< 0.000190
O	Cu	< 0.004000	M	Pb	< 0.022193	O	K	0.008111	M	Ta	< 0.051784	M	Zr	< 0.036989

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.078; +2; 6; $Ca(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl and HNO_3. Avoid H_2SO_4, HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Ca Containing Samples (Preparation and Solution) - Metal (best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO_2) .The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO_3. The sulfates (gypsum, anhydrite, etc.), certain silicates and complex compounds require fusion with Na_2CO_3 followed by HCl / water dissolution. Contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	ion	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	ion	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	atom	Ge
ICP-MS 44 amu	1200 ppt	n/a	M+	16O212C, 28Si16O, 88Sr

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

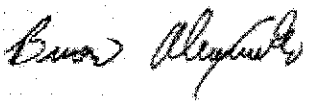
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 12, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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635012

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Chromium (+3) in 2% (v/v) HNO3**

Catalog Number:	CGCR(3)1-1, CGCR(3)1-2, and CGCR(3)1-5
Lot Number:	**E2-CR03060**
Starting Material:	Cr pieces
Starting Material Purity (%):	99.9958
Starting Material Lot No:	1604
Matrix:	2% (v/v) HNO3

received 11/20/12 JR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 998 ± 5 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**997 ± 3 µg/mL** ICP Assay NIST SRM 3112a Lot Number: 030730
	Assay Method #2	**998 ± 3 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.001480	M	Dy	< 0.032554	O	Li	< 0.000020	M	Pr	< 0.001628	M	Te	< 0.162771
M	Sb	< 0.002713	M	Er	< 0.027128	M	Lu	< 0.002170	M	Re	< 0.005426	M	Tb	< 0.001628
M	As	< 0.054257	M	Eu	< 0.016277	O	Mg	< 0.000300	M	Rh	< 0.005426	M	Tl	< 0.005426
M	Ba	< 0.054257	M	Gd	< 0.005426	M	Mn	< 0.021703	M	Rb	< 0.005426	M	Th	< 0.005426
M	Be	< 0.002713	M	Ga	< 0.005426	O	Hg	< 0.015000	M	Ru	< 0.010851	M	Tm	< 0.002170
M	Bi	< 0.002170	M	Ge	< 0.032554	M	Mo	< 0.010851	M	Sm	< 0.005426	M	Sn	< 0.027128
O	B	< 0.010000	M	Au	< 0.016277	M	Nd	< 0.010851	M	Sc	< 0.054257	O	Ti	< 0.001000
M	Cd	< 0.016277	M	Hf	< 0.010851	O	Ni	< 0.020000	M	Se	< 0.043406	M	W	< 0.054257
O	Ca	0.003885	M	Ho	< 0.002713	M	Nb	< 0.002713	O	Si	< 0.200000	M	U	< 0.010851
M	Ce	< 0.027128	M	In	< 0.054257	n	Os		M	Ag	< 0.010851	O	V	< 0.020000
M	Cs	< 0.001628	M	Ir	< 0.027128	M	Pd	< 0.027128	O	Na	0.004625	M	Yb	< 0.005426
s	Cr		O	Fe	0.022572	O	P	< 0.040000	M	Sr	< 0.002713	M	Y	< 0.217028
M	Co	< 0.016277	M	La	< 0.002713	M	Pt	< 0.010851	i	S		O	Zn	< 0.004000
M	Cu	0.006023	M	Pb	< 0.016277	O	K	0.004070	M	Ta	< 0.037980	M	Zr	< 0.027128

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 51.9961; +3; 6; $Cr(H_2O)_6^{3+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr Containing Samples (Preparation and Solution) - Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used:

A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1.
B. Fusion with $NaKSO_4$ and NaF, 2:1.
C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1.
D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2.

Nickel, iron, copper, or silver crucibles should be used for **D**. Platinum may be used for **A, B and C**);
Organic Matrices (Ash at 450EC followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 205.552 nm	0.006 / 0.0008 µg/mL	1	ion	Os
ICP-OES 284.325 nm	0.008 / 0.0007 µg/mL	1	ion	
ICP-OES 276.654 nm	0.01 / 0.001 µg/mL	1	ion	Cu, Ta, V
ICP-MS 52 amu	40 ppt	n/a	M+	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

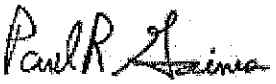
11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 13, 2012
Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Copper in 3% (v/v) HNO3**

Catalog Number:	CGCU1-1, CGCU1-2, and CGCU1-5
Lot Number:	**E2-CU02130**
Starting Material:	Cu shot
Starting Material Purity (%):	100.0000
Starting Material Lot No:	1612
Matrix:	3% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,002 ± 5 µg/mL - weighted mean

Certified Density: 1.016 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**1,001 ± 3 µg/mL** ICP Assay NIST SRM 3114 Lot Number: 011017
	Assay Method #2	**1,003 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.059973	O Li < 0.000020	M Pr < 0.002999	M Te < 0.299865
M Sb < 0.004998	M Er < 0.049978	M Lu < 0.003998	M Re < 0.009996	M Tb < 0.002999
M As < 0.099955	M Eu < 0.029987	O Mg < 0.000030	M Rh < 0.009996	M Tl < 0.009996
M Ba < 0.099955	M Gd < 0.009996	O Mn < 0.000200	M Rb < 0.009996	M Th < 0.009996
M Be < 0.004998	M Ga < 0.009996	O Hg < 0.015000	M Ru < 0.019991	M Tm < 0.003998
M Bi < 0.003998	M Ge < 0.059973	M Mo < 0.019991	M Sm < 0.009996	O Sn < 0.004000
M B < 0.699685	M Au < 0.029987	M Nd < 0.019991	M Sc < 0.099955	M Ti < 0.499775
M Cd < 0.029987	M Hf < 0.019991	O Ni < 0.003000	M Se < 0.079964	M W < 0.099955
O Ca 0.000040	M Ho < 0.004998	M Nb < 0.004998	O Si < 0.003400	M U < 0.019991
M Ce < 0.049978	M In < 0.099955	n Os	M Ag < 0.019991	O V < 0.003000
M Cs < 0.002999	M Ir < 0.049978	M Pd < 0.049978	O Na 0.000060	M Yb < 0.009996
M Cr < 0.049978	O Fe < 0.001100	O P < 0.002600	M Sr < 0.004998	M Y < 0.399820
M Co < 0.029987	M La < 0.004998	M Pt < 0.019991	n S	O Zn < 0.010000
s Cu	O Pb < 0.010000	O K < 0.001800	M Ta < 0.069969	M Zr < 0.049978

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.546; +2; 6; $Cu(H_2O)_6^{2+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 324.754 nm	0.06/.001 µg/mL		atom	Nb, U, Th, Mo, Hf
ICP-OES 224.700 nm	0.01/.001µg/mL	1	ion	Pb, Ir, Ni, W
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	atom	Th, Ta, Nb, U, Hf
ICP-MS 63 amu	10 ppt	n/a	M+	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: November 18, 2011

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 663.01

ACCREDITED Reference Material Producer Certificate 663.02

Ron Rowland
RECEIVED
5/29/12

2.0 **DESCRIPTION OF CRM** **10000 µg/mL Iron in 5% (v/v) HNO3**

Catalog Number:	CGFE10-1, CGFE10-2, and CGFE10-5
Lot Number:	**E2-FE03145**
Starting Material:	Fe powder
Starting Material Purity (%):	99.9983
Starting Material Lot No:	1618
Matrix:	5% (v/v) HNO3

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 10,032 ± 54 µg/mL - weighted mean

Certified Density: 1.053 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,023 ± 38 µg/mL**
ICP Assay NIST SRM 3126a Lot Number: 051031

Assay Method #2 **10,052 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.002700	M	Dy	< 0.039911	O	Li	< 0.000030	M	Pr	< 0.001996	M	Te	< 0.199556
M	Sb	< 0.003326	M	Er	< 0.033259	M	Lu	< 0.002661	M	Re	< 0.006652	M	Tb	< 0.001996
M	As	< 0.066519	M	Eu	< 0.019956	O	Mg	< 0.000060	M	Rh	< 0.006652	M	Tl	< 0.006652
O	Ba	< 0.000100	M	Gd	< 0.006652	O	Mn	0.054322	M	Rb	< 0.006652	M	Th	< 0.006652
O	Be	< 0.000050	M	Ga	< 0.006652	O	Hg	< 0.011000	M	Ru	< 0.013304	M	Tm	< 0.002661
M	Bi	< 0.002661	i	Ge		M	Mo	< 0.013304	M	Sm	< 0.006652	M	Sn	< 0.033259
O	B	< 0.020000	M	Au	< 0.019956	M	Nd	< 0.013304	M	Sc	< 0.066519	M	Ti	< 0.332594
M	Cd	< 0.019956	M	Hf	< 0.013304	O	Ni	0.055831	M	Se	< 0.053215	M	W	< 0.066519
O	Ca	0.004527	M	Ho	< 0.003326	M	Nb	< 0.003326	O	Si	< 0.010000	M	U	< 0.013304
M	Ce	< 0.033259	M	In	< 0.066519	n	Os		M	Ag	< 0.013304	M	V	< 0.013304
M	Cs	< 0.001996	M	Ir	< 0.033259	M	Pd	< 0.033259	O	Na	0.004678	M	Yb	< 0.006652
M	Cr	< 0.033259	s	Fe		i	P		M	Sr	< 0.003326	M	Y	< 0.266075
O	Co	0.057340	M	La	< 0.003326	M	Pt	< 0.013304	i	S		M	Zn	< 0.133038
M	Cu	< 0.039911	M	Pb	< 0.019956	O	K	< 0.001700	M	Ta	< 0.046563	M	Zr	< 0.033259

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 55.847; +3; 6; $Fe(H_2O)_6^{3+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4 ,HF and H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Fe Containing Samples (Preparation and Solution) - Metal (Soluble in HCl); Oxides (If the oxide has been at a high temperature then Na_2CO_3 fusion in Pt0 followed by HCl dissolution otherwise dissolve in dilute HCl); Ores (See Oxides above using only the fusion approach).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 238.204 nm	0.005 / 0.001 µg/mL	1	ion	Ru, Co
ICP-OES 239.562 nm	0.005 / 0.001 µg/mL	1	ion	Co, W, Cr
ICP-OES 259.940 nm	0.006 / 0.001 µg/mL	1	ion	Hf, Nb
ICP-MS 56 amu	970 ppt	n/a	M+	40Ar15N1H, 40Ar16O, 36Ar17O1H , 38Ar18O, 37Cl18O1H, 40Ca16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

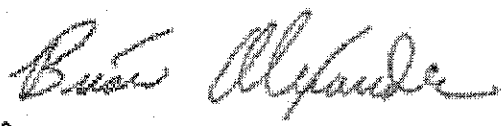
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 16, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

INORGANIC VENTURES
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tel 800.669.6789 • 540.585.3033
fax 540.585.3012
info@inorganicventures.com

381729

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **10000 µg/mL Potassium in 2% (v/v) HNO3**

Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	**F2-K03029**
Starting Material:	KNO3
Starting Material Purity (%):	99.9981
Starting Material Lot No:	B19P01
Matrix:	2% (v/v) HNO3

Received 4/17/12

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 9,979 ± 55 µg/mL - weighted mean

Certified Density: 1.024 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9,981 ± 40 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 051220

Assay Method #2 **9,971 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.000900	M	Dy	< 0.037817	O	Li	0.000065	M	Pr	< 0.001891	M	Te	< 0.189084
M	Sb	< 0.003151	M	Er	< 0.031514	M	Lu	< 0.002521	M	Re	< 0.006303	M	Tb	< 0.001891
M	As	< 0.063028	M	Eu	< 0.018908	O	Mg	0.001032	M	Rh	< 0.006303	M	Tl	< 0.006303
O	Ba	0.000055	M	Gd	< 0.006303	O	Mn	0.000161	M	Rb	0.416797	M	Th	< 0.006303
O	Be	< 0.000200	M	Ga	< 0.006303	O	Hg	< 0.015000	M	Ru	< 0.012606	M	Tm	< 0.002521
M	Bi	< 0.002521	O	Ge	< 0.001500	M	Mo	< 0.012606	M	Sm	< 0.006303	M	Sn	< 0.031514
O	B	< 0.000600	O	Au	< 0.003000	M	Nd	< 0.012606	O	Sc	< 0.000100	O	Ti	< 0.000700
M	Cd	< 0.018908	M	Hf	< 0.012606	O	Ni	0.000806	O	Se	< 0.050000	M	W	< 0.063028
O	Ca	0.003548	M	Ho	< 0.003151	M	Nb	< 0.003151	O	Si	< 0.003400	M	U	< 0.012606
M	Ce	< 0.031514	M	In	< 0.063028	n	Os		M	Ag	< 0.012606	O	V	< 0.000900
M	Cs	< 0.001891	M	Ir	< 0.031514	M	Pd	< 0.031514	O	Na	0.051613	M	Yb	< 0.006303
M	Cr	< 0.031514	O	Fe	0.000500	O	P	< 0.002500	M	Sr	< 0.003151	M	Y	< 0.252111
M	Co	< 0.018908	M	La	< 0.003151	M	Pt	< 0.012606	O	S	< 0.072000	O	Zn	0.000403
M	Cu	< 0.037817	M	Pb	< 0.018908	s	K		M	Ta	< 0.044119	M	Zr	< 0.031514

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.0983; +1; (6); K+(aq)
(Coordination Number in parentheses is assumed, not certain.)

Chemical Compatibility - Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	atom	U, Ce,
ICP-MS 39 amu	10 ppt	n/a	M+	38ArH, 23Na16O, 78Se

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 29, 2012
Expiration Date:

EXPIRES
01-2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Magnesium in 2% (v/v) HNO3**

Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	**E2-MG03106**
Starting Material:	Mg metal
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1484
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,000 ± 54 µg/mL - weighted mean

Certified Density: 1.053 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	**9,999 ± 38 µg/mL** ICP Assay NIST SRM 3131a Lot Number: 050302
	Assay Method #2	**10,001 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000600	M Dy < 0.022339	O Li 0.011947	M Pr < 0.001117	M Te < 0.111693
M Sb < 0.001862	M Er < 0.018615	M Lu < 0.001489	M Re < 0.003723	M Tb < 0.001117
M As < 0.037231	M Eu < 0.011169	s Mg	M Rh < 0.003723	M Tl < 0.003723
M Ba < 0.037231	M Gd < 0.003723	O Mn < 0.000024	M Rb < 0.003723	M Th < 0.003723
O Be < 0.000170	M Ga < 0.003723	O Hg < 0.009000	M Ru < 0.007446	M Tm < 0.001489
M Bi < 0.001489	M Ge < 0.022339	M Mo < 0.007446	M Sm < 0.003723	M Sn < 0.018615
O B < 0.003000	M Au < 0.011169	M Nd < 0.007446	M Sc < 0.037231	O Ti < 0.001100
M Cd < 0.011169	M Hf < 0.007446	O Ni < 0.002700	M Se < 0.029785	M W < 0.037231
O Ca 0.003982	M Ho < 0.001862	M Nb < 0.001862	O Si < 0.006000	M U < 0.007446
M Ce < 0.018615	M In < 0.037231	n Os	M Ag < 0.007446	M V < 0.007446
M Cs < 0.001117	M Ir < 0.018615	M Pd < 0.018615	O Na 0.011947	M Yb < 0.003723
O Cr < 0.000300	O Fe < 0.001600	O P < 0.016000	M Sr < 0.001862	M Y < 0.148924
M Co < 0.011169	M La < 0.001862	M Pt < 0.007446	n S	O Zn < 0.000900
O Cu < 0.004000	M Pb 0.004942	O K < 0.050000	M Ta < 0.026062	M Zr < 0.018615

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.305; +2; 6; $Mg(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HNO_3, and H_2SO_4 avoid HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Mg Containing Samples (Preparation and Solution) - Metal (Best dissolved in diluted HNO_3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	ion	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	ion	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	atom	U, Hf, Cr, Zr
ICP-MS 24 amu	42 ppt	n/a	M+	$^{7}Li^{17}O$, $^{48}Ti^{+2}$, $^{48}Ca^{+2}$

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

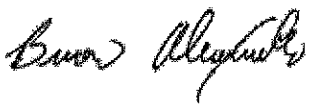
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: November 30, 2011

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Manganese in 3% (v/v) HNO3**

Catalog Number:	CGMN1-1, CGMN1-2, and CGMN1-5
Lot Number:	**E2-MN02093**
Starting Material:	Mn pieces
Starting Material Purity (%):	99.9940
Starting Material Lot No:	1573
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 5 µg/mL - weighted mean

Certified Density: 1.017 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **998 ± 3 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **1,000 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.000806	M	Dy	< 0.049987	O	Li	< 0.000020	M	Pr	< 0.002499	M	Te	< 0.249933
M	Sb	< 0.004166	M	Er	< 0.041656	M	Lu	< 0.003332	M	Re	< 0.008331	M	Tb	< 0.002499
M	As	< 0.083311	M	Eu	< 0.024993	O	Mg	0.041735	M	Rh	< 0.008331	M	Tl	< 0.008331
M	Ba	< 0.083311	M	Gd	< 0.008331	s	Mn		M	Rb	< 0.008331	M	Th	< 0.008331
M	Be	< 0.004166	O	Ga	< 0.050000	i	Hg		M	Ru	< 0.016662	M	Tm	< 0.003332
M	Bi	< 0.003332	O	Ge	< 0.003000	M	Mo	< 0.016662	M	Sm	< 0.008331	M	Sn	< 0.041656
O	B	0.002646	M	Au	< 0.024993	M	Nd	< 0.016662	M	Sc	< 0.083311	O	Ti	< 0.002000
M	Cd	< 0.024993	M	Hf	< 0.016662	M	Ni	< 0.066649	M	Se	< 0.066649	M	W	< 0.083311
O	Ca	0.003247	M	Ho	< 0.004166	M	Nb	< 0.004166	O	Si	< 0.050000	M	U	< 0.016662
M	Ce	< 0.041656	M	In	< 0.083311	n	Os		M	Ag	< 0.016662	M	V	< 0.016662
M	Cs	< 0.002499	M	Ir	< 0.041656	M	Pd	< 0.041656	O	Na	0.006375	M	Yb	< 0.008331
M	Cr	0.004208	O	Fe	< 0.010000	i	P		M	Sr	< 0.004166	M	Y	< 0.333244
M	Co	0.001804	M	La	< 0.004166	M	Pt	< 0.016662	i	S		O	Zn	< 0.000600
M	Cu	< 0.049987	M	Pb	< 0.024993	O	K	0.000842	M	Ta	< 0.058318	M	Zr	< 0.041656

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of “working reference samples”
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.
Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.9380; +2; **6**; Mn(H2O)62+
Chemical Compatibility - Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3/LDPE container.
Mn Containing Samples (Preparation and Solution) - Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H2SO4 and heat to SO3 fumes - dense white fumes).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	ion	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	ion	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	ion	Co
ICP-MS 55 amu	10 ppt	n/a	M+	40Ar14N1H, 39K16O, 37Cl18O, 40Ar15N, 38Ar17O, 36Ar18O1H , 38Ar16O1H, 37Cl17O1H, 23Na32S

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 03, 2012
Expiration Date:

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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tel: 800.669.6799 · 540.585.3030
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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Sodium in 2% (v/v) HNO3**

Catalog Number:	CGNA10-1, CGNA10-2, and CGNA10-5
Lot Number:	**E2-NA03095**
Starting Material:	Na2CO3
Starting Material Purity (%):	99.9994
Starting Material Lot No:	C18157
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,986 ± 55 µg/mL - weighted mean

Certified Density: 1.033 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9,983 ± 39 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 010728

Assay Method #2 **9,998 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.002434	M	Dy	< 0.051831	O	Li	< 0.000030	M	Pr	< 0.002592	M	Te	< 0.259157
M	Sb	< 0.004319	M	Er	< 0.043193	M	Lu	< 0.003455	M	Re	< 0.008639	M	Tb	< 0.002592
M	As	< 0.086386	M	Eu	< 0.025916	O	Mg	0.003361	M	Rh	< 0.008639	M	Tl	< 0.008639
O	Ba	0.001043	M	Gd	< 0.008639	O	Mn	< 0.000030	M	Rb	< 0.008639	M	Th	< 0.008639
O	Be	< 0.000200	M	Ga	< 0.008639	O	Hg	< 0.015000	M	Ru	< 0.017277	M	Tm	< 0.003455
M	Bi	< 0.003455	O	Ge	< 0.001500	M	Mo	< 0.017277	M	Sm	< 0.008639	M	Sn	< 0.043193
O	B	< 0.000600	M	Au	< 0.025916	M	Nd	< 0.017277	O	Sc	< 0.000020	O	Ti	< 0.000700
M	Cd	< 0.025916	M	Hf	< 0.017277	O	Ni	< 0.002300	O	Se	< 0.050000	M	W	< 0.086386
O	Ca	0.026656	M	Ho	< 0.004319	M	Nb	< 0.004319	O	Si	0.008113	M	U	< 0.017277
M	Ce	< 0.043193	M	In	< 0.086386	n	Os		M	Ag	< 0.017277	O	V	< 0.000900
M	Cs	< 0.002592	M	Ir	< 0.043193	M	Pd	< 0.043193	S	Na		M	Yb	< 0.008639
M	Cr	< 0.043193	O	Fe	< 0.001100	O	P	< 0.040000	O	Sr	0.000174	M	Y	< 0.345543
M	Co	< 0.025916	M	La	< 0.004319	M	Pt	< 0.017277	O	S	< 0.072000	O	Zn	0.000116
O	Cu	< 0.001400	M	Pb	< 0.025916	O	K	0.023179	M	Ta	< 0.060470	M	Zr	< 0.043193

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of “working reference samples”
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.98977; +1; (6); Na+(aq) largely ionic in nature (Coordination Number in parentheses is assumed, not certain.)

Chemical Compatibility - Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	atom	Pd, Zn
ICP-MS 23 amu	310 ppt	n/a	M+	46Ti+2 , 46Ca+2

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: December 12, 2011

Expiration Date:

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Nickel in 2% (v/v) HNO3**

Catalog Number:	CGNI1-1, CGNI1-2, and CGNI1-5
Lot Number:	**E2-NI02074**
Starting Material:	Ni pieces
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1559
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,003 ± 5 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**1,002 ± 3 µg/mL** ICP Assay NIST SRM 3136 Lot Number: 000612
	Assay Method #2	**1,003 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.003000	M	Dy	< 0.070404	O	Li	< 0.000020	M	Pr	< 0.003520	M	Te	< 0.352022
M	Sb	< 0.005867	M	Er	< 0.058670	M	Lu	< 0.004694	M	Re	< 0.011734	M	Tb	< 0.003520
O	As	< 0.005400	M	Eu	< 0.035202	O	Mg	0.000033	M	Rh	< 0.011734	M	Tl	< 0.011734
M	Ba	< 0.117341	M	Gd	< 0.011734	M	Mn	< 0.046936	M	Rb	< 0.011734	M	Th	< 0.011734
O	Be	< 0.002000	M	Ga	< 0.011734	O	Hg	< 0.011000	M	Ru	< 0.023468	M	Tm	< 0.004694
M	Bi	< 0.004694	M	Ge	< 0.070404	M	Mo	< 0.023468	M	Sm	< 0.011734	M	Sn	< 0.058670
O	B	< 0.009900	M	Au	< 0.035202	M	Nd	< 0.023468	M	Sc	< 0.117341	M	Ti	< 0.586704
M	Cd	< 0.035202	M	Hf	< 0.023468	s	Ni		O	Se	< 0.006000	M	W	< 0.117341
O	Ca	0.000327	M	Ho	< 0.005867	M	Nb	< 0.005867	O	Si	< 0.003400	M	U	< 0.023468
M	Ce	< 0.058670	M	In	< 0.117341	n	Os		M	Ag	< 0.023468	M	V	< 0.023468
M	Cs	< 0.003520	M	Ir	< 0.058670	M	Pd	< 0.058670	O	Na	0.000435	M	Yb	< 0.011734
M	Cr	< 0.058670	O	Fe	0.000762	O	P	< 0.100000	M	Sr	< 0.005867	M	Y	< 0.469363
O	Co	< 0.002000	M	La	< 0.005867	M	Pt	< 0.023468	O	S	< 0.025000	M	Zn	< 0.234682
M	Cu	< 0.070404	M	Pb	< 0.035202	O	K	0.000163	M	Ta	< 0.082139	M	Zr	< 0.058670

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69; +2; 6; $Ni(H_2O)_6^{2+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ni Containing Samples (Preparation and Solution) - Metal (Soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	ion	Si
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	atom	Cr, Re, Os, Nb, Ag, Pt, Fe
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	ion	Sb, Ta, Co
ICP-MS 60 amu	100 ppt	n/a	M+	43Ca16O1H , 44Ca16O, 23Na37Cl

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

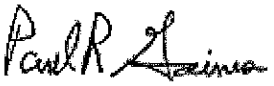
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 10, 2012

Expiration Date: EXPIRES 01 DEC 2013*

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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381731

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	**DESCRIPTION OF CRM**	**1000 µg/mL Lead in 0.5% (v/v) HNO3**
	Catalog Number:	CGPB1-1, CGPB1-2, and CGPB1-5
	Lot Number:	**F2-PB03035**
	Starting Material:	Pb(NO3)2
	Starting Material Purity (%):	99.9998
	Starting Material Lot No:	1717
	Matrix:	0.5% (v/v) HNO3

Received 4/17/12

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,001 ± 5 µg/mL - weighted mean

Certified Density: 1.002 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1		
	Assay Method #1	**1,000 ± 3 µg/mL** ICP Assay NIST SRM 3128 Lot Number: 101026
	Assay Method #2	**1,002 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.000477	M	Dy	< 0.017590	O	Li	0.000136	M	Pr	< 0.000880	M	Te	< 0.087952
M	Sb	< 0.001466	M	Er	< 0.014659	M	Lu	< 0.001173	M	Re	< 0.002932	M	Tb	< 0.000880
M	As	< 0.029317	M	Eu	< 0.008795	O	Mg	0.000102	O	Rh	< 0.009000	O	Tl	< 0.022000
O	Ba	0.000545	M	Gd	< 0.002932	M	Mn	< 0.011727	M	Rb	< 0.002932	M	Th	< 0.002932
M	Be	< 0.001466	M	Ga	< 0.002932	O	Hg	< 0.015000	M	Ru	< 0.005863	M	Tm	< 0.001173
O	Bi	< 0.020000	M	Ge	< 0.017590	M	Mo	< 0.005863	M	Sm	< 0.002932	M	Sn	< 0.014659
O	B	< 0.040000	M	Au	< 0.008795	M	Nd	< 0.005863	M	Sc	< 0.029317	M	Ti	< 0.146587
M	Cd	< 0.008795	M	Hf	< 0.005863	O	Ni	< 0.003000	M	Se	< 0.023454	M	W	< 0.029317
O	Ca	0.000682	M	Ho	< 0.001466	M	Nb	< 0.001466	O	Si	< 0.003400	M	U	< 0.005863
M	Ce	< 0.014659	M	In	< 0.029317	n	Os		M	Ag	< 0.005863	M	V	< 0.005863
M	Cs	< 0.000880	M	Ir	< 0.014659	M	Pd	< 0.014659	O	Na	< 0.006000	M	Yb	< 0.002932
M	Cr	< 0.014659	O	Fe	0.000545	O	P	< 0.005000	O	Sr	0.000204	M	Y	< 0.117270
M	Co	< 0.008795	M	La	< 0.001466	M	Pt	< 0.005863	O	S	< 0.100000	O	Zn	< 0.000200
M	Cu	< 0.017590	s	Pb		O	K	< 0.001800	M	Ta	< 0.020522	M	Zr	< 0.014659

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.2; +2; 6; $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) - Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	ion	Co
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	ion	Bi, Nb
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	atom	W, Ir, Hf, Sb, Th
ICP-MS 208 amu	5 ppt	n/a	M+	192Pt16O, 192Os16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 10, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Zinc in 2% (v/v) HNO3**

Catalog Number:	CGZN1-1, CGZN1-2, and CGZN1-5
Lot Number:	**F2-ZN02075**
Starting Material:	Zn shot
Starting Material Purity (%):	99.9999
Starting Material Lot No:	1676 1677
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,000 ± 5 µg/mL - weighted mean

Certified Density: 1.007 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
$\sum s_i$ = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **998 ± 3 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 080123

Assay Method #2 **1,001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.007000	M Dy < 0.031427	O Li < 0.000030	M Pr < 0.001571	M Te < 0.157134
M Sb < 0.002619	M Er < 0.026189	M Lu < 0.002095	M Re < 0.005238	M Tb < 0.001571
M As < 0.052378	M Eu < 0.015713	M Mg 0.000330	M Rh < 0.005238	M Tl 0.000020
M Ba < 0.052378	M Gd < 0.005238	O Mn < 0.000300	M Rb < 0.005238	M Th < 0.005238
M Be < 0.002619	M Ga < 0.005238	O Hg < 0.010000	M Ru < 0.010476	M Tm < 0.002095
M Bi < 0.002095	M Ge < 0.031427	M Mo < 0.010476	M Sm < 0.005238	M Sn < 0.026189
O B < 0.001000	M Au < 0.015713	M Nd < 0.010476	M Sc < 0.052378	M Ti < 0.261891
M Cd < 0.015713	M Hf < 0.010476	O Ni < 0.000900	M Se < 0.041903	M W < 0.052378
O Ca 0.000134	M Ho < 0.002619	M Nb < 0.002619	O Si < 0.004000	M U < 0.010476
M Ce < 0.026189	M In < 0.052378	n Os	M Ag < 0.010476	M V < 0.010476
M Cs < 0.001571	M Ir < 0.026189	M Pd < 0.026189	O Na 0.000153	M Yb < 0.005238
O Cr < 0.001000	O Fe < 0.001000	O P < 0.003000	M Sr < 0.002619	M Y < 0.209513
M Co < 0.015713	M La < 0.002619	M Pt < 0.010476	O S < 0.020000	s Zn
O Cu < 0.000500	M Pb < 0.015713	O K < 0.003000	M Ta < 0.036665	M Zr < 0.026189

M - Checked by ICP-MS O - Checked by ICP-OES I - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± °4C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39; +2; 4; Zn(OH)(aq)1+

Chemical Compatibility - Stable in HCl, HNO3, H2SO4 ,HF, H3PO4 Avoid basic media that promotes the formation of insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Zn Containing Samples (Preparation and Solution) - Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl /HNO3); Organic based (Dry ash at 450EC and dissolve ash in HCl) (Sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 213.856 nm	0.002 / 0.0004 µg/mL	1	atom	Ni, Cu, V
ICP-OES 202.548 nm	0.004 / 0.0002 µg/mL	1	ion	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006 / 0.0006 µg/mL	1	ion	Sb, Ta, Bi, Os
ICP-MS 66 amu	7 ppt	n/a	M+	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 13, 2012

Expiration Date: EXPIRES: 01 Dec 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

Chemical Testing
Cert #2495.02

Catalog Number: ZCAL-60-250 **Lot No.** 17-147CR

Description: Custom Claritas Standard

Matrix: 5% HNO_3 / Tr. Tart. Acid / Tr. HF

This CLARITAS PPT® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for inorganic spectroscopic instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared from high purity single element concentrates of individual elements using Class A laboratory ware to give precise concentrations.

Instrumental Analysis by ICP Spectrometer:

Analyte	Labeled	Uncertainty	SRM	Analyte	Labeled	Uncertainty	SRM
Ca	1000 mg/L	±5 mg/L	3109a*	Co	2 mg/L	±0.01 mg/L	3113*
K	1000 mg/L	±5 mg/L	3141a*	Cr	2 mg/L	±0.01 mg/L	3112a*
Mg	1000 mg/L	±5 mg/L	3131a*	Cu	2 mg/L	±0.01 mg/L	3114*
Na	1000 mg/L	±5 mg/L	3152a*	Mo	2 mg/L	±0.01 mg/L	3134*
Fe	500 mg/L	±3 mg/L	3126a*	Ni	2 mg/L	±0.01 mg/L	3136*
Si	100 mg/L	±0.5 mg/L	3150*	Pb	2 mg/L	±0.01 mg/L	3128*
Al	10 mg/L	±0.05 mg/L	3101a*	Sb	2 mg/L	±0.01 mg/L	3102a*
Mn	10 mg/L	±0.05 mg/L	3132*	Se	2 mg/L	±0.01 mg/L	3149*
Ag	2 mg/L	±0.01 mg/L	3151*	Sn	2 mg/L	±0.01 mg/L	3161a*
As	2 mg/L	±0.01 mg/L	3103a*	Sr	2 mg/L	±0.01 mg/L	3153a*
B	2 mg/L	±0.01 mg/L	3107*	Tl	2 mg/L	±0.01 mg/L	3162a*
Ba	2 mg/L	±0.01 mg/L	3104a*	Tl	2 mg/L	±0.01 mg/L	3158*
Be	2 mg/L	±0.01 mg/L	3105a*	V	2 mg/L	±0.01 mg/L	3165*
Cd	2 mg/L	±0.01 mg/L	3108*	Zn	2 mg/L	±0.01 mg/L	3168a*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

SPEX CertiPrep Reference Multi: Lot# ALL8

Trace Metallic Impurities in the Actual Solution via ICP/ICP-MS Analysis:

Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L
Au	<0.7	Ga	<3	Ir	20	Pd	<2	Sc	<1	Tm	<0.1
Bi	6	Gd	<0.01	La	1	Pr	<0.05	Sm	<0.4	U	<0.2
Ce	1	Ge	<6	Li	<30	Pt	<1	Ta	20	W	<7
Cs	<0.3	Hf	0.2	Lu	<0.05	Rb	40	Tb	0.1	Y	0.4
Dy	<0.2	Hg	<4	Nb	2	Re	<0.4	Te	<6	Yb	<0.3
Er	<0.2	Ho	<0.1	Nd	<0.2	Rh	<0.8	Th	0.4	Zr	<50
Eu	<0.1	In	<6	P	<400	Ru	<0.8				

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867 and others. This CRM is guaranteed stable and accurate to ±0.5% of the labeled value. This includes uncertainty components due to preparation, measurement, homogeneity, short-term and long-term stability, as well as transpiration loss. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly closed and stored under ambient laboratory conditions.

Date of Certification: DEC 2012 Certifying Officer:

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Rec 3B13

CERTIFICATE OF ANALYSIS

773262

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **Custom Solution**

Catalog No.: TAPITT-MSICSAB-1

Lot Number: **F2-MEB415033**

Matrix: 3% HNO3(v/v)

10 µg/mL ea:
Ba, Be, Pb, Sr, Tl, V

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.07 µg/mL	Beryllium, Be	10.00 ± 0.07 µg/mL	Lead, Pb	10.00 ± 0.06 µg/mL
Strontium, Sr	10.00 ± 0.06 µg/mL	Thallium, Tl	10.00 ± 0.06 µg/mL	Vanadium, V	10.00 ± 0.06 µg/mL

Certified Density: 1.014 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Pb	ICP Assay	3128	030721
Pb	EDTA	928	928
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

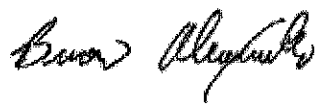
Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director



Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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Rec 3B13

CERTIFICATE OF ANALYSIS

773263

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-MSICSAB-2

Lot Number: **G2-MEB467043**

Matrix: 3% HNO3(v/v), tr. HF

250 µg/mL ea:
Si,

50 µg/mL ea:
Sn,

25 µg/mL ea:
B, Se,

10 µg/mL ea:
Sb

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	10.00 ± 0.06 µg/mL	Boron, B	24.98 ± 0.17 µg/mL	Selenium, Se	25.01 ± 0.21 µg/mL
Silicon, Si	249.9 ± 1.6 µg/mL	Tin, Sn	50.04 ± 0.36 µg/mL		

Certified Density: 1.018 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	070514
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 08, 2013

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

INORGANIC VENTURES™
300 Technology Drive
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inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-ICPMS

Lot Number: **G2-MEB455121**

Matrix: 0.7% HNO3(v/v)

200 µg/mL ea:
Al, Ba,

100 µg/mL ea:
B, Fe, Sr,

50 µg/mL ea:
Co, Mn, Ni, V, Zn,

25 µg/mL ea:
Cu,

20 µg/mL ea:
Cr3,

5 µg/mL ea:
Ag, Be, Cd, Tl,

4 µg/mL ea:
As,

2 µg/mL ea:
Pb,

1 µg/mL ea:
Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	200.1 ± 1.3 µg/mL	Arsenic, As	4.001 ± 0.026 µg/mL	Barium, Ba	200.0 ± 1.3 µg/mL
Beryllium, Be	5.001 ± 0.028 µg/mL	Boron, B	100.0 ± 0.7 µg/mL	Cadmium, Cd	5.001 ± 0.032 µg/mL
Chromium+3, Cr3	20.01 ± 0.13 µg/mL	Cobalt, Co	50.02 ± 0.33 µg/mL	Copper, Cu	25.00 ± 0.17 µg/mL
Iron, Fe	100.0 ± 0.6 µg/mL	Lead, Pb	2.000 ± 0.013 µg/mL	Manganese, Mn	50.01 ± 0.32 µg/mL
Nickel, Ni	50.01 ± 0.33 µg/mL	Selenium, Se	1.001 ± 0.007 µg/mL	Silver, Ag	5.001 ± 0.032 µg/mL
Strontium, Sr	100.0 ± 0.6 µg/mL	Thallium, Tl	5.001 ± 0.032 µg/mL	Vanadium, V	50.00 ± 0.35 µg/mL
Zinc, Zn	50.00 ± 0.33 µg/mL				

Certified Density: 1.005 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma(s_i)^2]^{\frac{1}{2}}$

2 = the coverage factor.

$[\Sigma(s_i)^2]^{\frac{1}{2}}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Al	ICP Assay	3101a	060502
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	ICP Assay	3104a	070222
Be	ICP Assay	3105a	090514
Cd	EDTA	928	928
Co	EDTA	928	928
Cr3	ICP Assay	3112a	030730
Cu	EDTA	928	928
Fe	EDTA	928	928
Mn	EDTA	928	928
Ni	EDTA	928	928
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	EDTA	928	928
Zn	EDTA	928	928

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	Volhard	999b	999b
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Be	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	060531
Co	ICP Assay	3113	00630
Cr3	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	011017
Fe	ICP Assay	3126a	051031
Mn	ICP Assay	3132	050429
Ni	ICP Assay	3136	000612
Pb	ICP Assay	3128	101026
Se	Calculated		See Sec. 4.2
Sr	ICP Assay	3153a	990906
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	992706
Zn	ICP Assay	3168a	080123

4.2 **BALANCE CALIBRATION -** All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION -** All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION -** An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 09, 2013

Expiration Date: EXPIRES 01/2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Brian Alexander

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-ICPMS

Lot Number: **E2-MEB379097**

Matrix: 0.7% HNO3(v/v)

200 µg/mL ea:
Al, Ba,

100 µg/mL ea:
B, Fe, Sr,

50 µg/mL ea:
Co, Mn, Ni, V, Zn,

25 µg/mL ea:
Cu,

20 µg/mL ea:
Cr3,

5 µg/mL ea:
Ag, Be, Cd, Tl,

4 µg/mL ea:
As,

2 µg/mL ea:
Pb,

1 µg/mL ea:
Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	200.0 ± 1.1 µg/mL	Arsenic, As	4.001 ± 0.016 µg/mL	Barium, Ba	200.0 ± 1.5 µg/mL
Beryllium, Be	5.000 ± 0.030 µg/mL	Boron, B	100.0 ± 0.5 µg/mL	Cadmium, Cd	5.000 ± 0.020 µg/mL
Chromium+3, Cr3	20.01 ± 0.15 µg/mL	Cobalt, Co	50.00 ± 0.33 µg/mL	Copper, Cu	25.01 ± 0.07 µg/mL
Iron, Fe	100.0 ± 0.6 µg/mL	Lead, Pb	2.001 ± 0.004 µg/mL	Manganese, Mn	50.00 ± 0.38 µg/mL
Nickel, Ni	50.01 ± 0.31 µg/mL	Selenium, Se	1.000 ± 0.004 µg/mL	Silver, Ag	5.000 ± 0.025 µg/mL
Strontium, Sr	100.1 ± 0.5 µg/mL	Thallium, Tl	5.000 ± 0.020 µg/mL	Vanadium, V	50.00 ± 0.39 µg/mL
Zinc, Zn	50.00 ± 0.16 µg/mL				

Certified Density: 1.006 g/mL (measured at 20 ± 1° C)

uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $\frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$ Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Al	ICP Assay	3101a	060502
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	ICP Assay	3104a	070222
Be	ICP Assay	3105a	892707
Cd	EDTA	928	928
Co	EDTA	928	928
Cr3	ICP Assay	3112a	030730
Cu	EDTA	928	928
Fe	EDTA	928	928
Mn	EDTA	928	928
Ni	EDTA	928	928
Pb	EDTA	928	928
Se	ICP Assay	3149	992106
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	EDTA	928	928
Zn	EDTA	928	928

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	Volhard	999b	999b
Al	EDTA	928	928
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Be	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	060531
Co	ICP Assay	3113	00630
Cr3	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	011017
Fe	ICP Assay	3126a	051031
Mn	ICP Assay	3132	050429
Ni	ICP Assay	3136	000612
Pb	ICP Assay	3128	030721
Se	Calculated		See Sec. 4.2
Sr	ICP Assay	3153a	990906
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	992706
Zn	ICP Assay	3168a	080123

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

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Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001 Quality Management System Registration**
- QMI File Number 010105

10.2 **ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"**
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"**
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission**
- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission**
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 16, 2011

Expiration Date: EXPIRES 01 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Donna Senn

Certificate Approved By: Madeline Gozzi
Quality Control Supervisor

Madeline Gozzi

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

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CERTIFICATE OF ANALYSIS

CH 2/14/13

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-A

Lot Number: **G2-MEB458093**

Matrix: 3% HNO3(v/v)

5,000 µg/mL ea:
Ca, K, Mg, Na

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Calcium, Ca	5,000 ± 35 µg/mL	Magnesium, Mg	5,000 ± 33 µg/mL	Potassium, K	5,000 ± 37 µg/mL
Sodium, Na	5,000 ± 34 µg/mL				

Certified Density: 1.073 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

· The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ca	ICP Assay	3109a	050825	Ca	EDTA	928	928
K	Gravimetric		See Sec. 4.2	K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302	Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2	Na	ICP Assay	3152a	010728

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 01, 2013

Expiration Date: EXPIRES 01 MAR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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CERTIFICATE OF ANALYSIS

CH 2/14/13

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-C

Lot Number: **G2-MEB458094**

Matrix: 3% HNO3(v/v), tr. HF

1,000 µg/mL ea:
Si,

200 µg/mL ea:
Sn,

100 µg/mL ea:
Mo, Ti,

50 µg/mL ea:
Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	50.02 ± 0.38 µg/mL	Molybdenum, Mo	100.0 ± 0.7 µg/mL	Silicon, Si	1,000 ± 7 µg/mL
Tin, Sn	200.0 ± 1.4 µg/mL	Titanium, Ti	100.1 ± 0.7 µg/mL		

Certified Density: 1.020 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

· The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2	Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2	Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2	Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2	Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808				

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep Tightly sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

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10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 01, 2013

Expiration Date: EXPIRES 01 MAR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-22281-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAP	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAP	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAP	4	E871008
TestAmerica Pittsburgh	Illinois	NELAP	5	002602
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAP	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAP	1	203011
TestAmerica Pittsburgh	New Jersey	NELAP	2	PA005
TestAmerica Pittsburgh	New York	NELAP	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAP	3	02-00416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014
TestAmerica Pittsburgh	US Fish & Wildlife	Federal		LE94312A-1
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAP	8	STLP
TestAmerica Pittsburgh	Virginia	NELAP	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0245M-0001-SO	240-22281-1
079SB-0324M-0001-SO	240-22281-3
079SB-0247M-0001-SO	240-22281-4
079SB-0325M-0001-SO	240-22281-6
079SB-0249M-0001-SO	240-22281-7
079SB-0250M-0001-SO	240-22281-8
079SB-0251M-0001-SO	240-22281-9
079SB-0252M-0001-SO	240-22281-10
079SB-0253M-0001-SO	240-22281-11
07PSS-0254-0001-SO	240-22281-12
07PSS-0255-0001-SO	240-22281-13
07PSS-0276-0001-SO	240-22281-14
07PSS-0277-0001-SO	240-22281-15
07PSS-0285-0001-SO	240-22281-16
07PSS-0286-0001-SO	240-22281-17
07PSS-0303-0001-SO	240-22281-18
07PSS-0304-0001-SO	240-22281-19
079SB-0267M-0001-SO	240-22281-20
079SB-0269M-0001-SO	240-22281-22
079SB-0322M-0001-SO	240-22281-23
079SB-0271M-0001-SO	240-22281-25
079SB-0272M-0001-SO	240-22281-26
079SB-0273M-0001-SO	240-22281-27
079SB-0323M-0001-SO	240-22281-28
079SB-0274M-0001-SO	240-22281-29
079SB-0275M-0001-SO	240-22281-30
079SB-0278M-0001-SO	240-22281-31
079SB-0279M-0001-SO	240-22281-32
079SB-0280M-0001-SO	240-22281-33
079SB-0281M-0001-SO	240-22281-34
079SB-0282M-0001-SO	240-22281-35
079SB-0283M-0001-SO	240-22281-36
079SB-0284M-0001-SO	240-22281-37
079SB-0296M-0001-SO	240-22281-38
079SB-0297M-0001-SO	240-22281-39
079SB-0298M-0001-SO	240-22281-40
079SB-0299M-0001-SO	240-22281-41
079SB-0300M-0001-SO	240-22281-42
079SB-0301M-0001-SO	240-22281-43
079SB-0302M-0001-SO	240-22281-44

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22281-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0245M-0001-SO	240-22281-1
079SB-0324M-0001-SO	240-22281-3
079SB-0247M-0001-SO	240-22281-4
079SB-0325M-0001-SO	240-22281-6
079SB-0249M-0001-SO	240-22281-7
079SB-0250M-0001-SO	240-22281-8
079SB-0251M-0001-SO	240-22281-9
079SB-0252M-0001-SO	240-22281-10
079SB-0253M-0001-SO	240-22281-11
07PSS-0254-0001-SO	240-22281-12
07PSS-0255-0001-SO	240-22281-13
07PSS-0276-0001-SO	240-22281-14
07PSS-0277-0001-SO	240-22281-15
07PSS-0285-0001-SO	240-22281-16
07PSS-0286-0001-SO	240-22281-17
07PSS-0303-0001-SO	240-22281-18
07PSS-0304-0001-SO	240-22281-19
079SB-0267M-0001-SO	240-22281-20
079SB-0269M-0001-SO	240-22281-22
079SB-0322M-0001-SO	240-22281-23
079SB-0271M-0001-SO	240-22281-25
079SB-0272M-0001-SO	240-22281-26
079SB-0273M-0001-SO	240-22281-27
079SB-0323M-0001-SO	240-22281-28
079SB-0274M-0001-SO	240-22281-29
079SB-0275M-0001-SO	240-22281-30
079SB-0278M-0001-SO	240-22281-31
079SB-0279M-0001-SO	240-22281-32
079SB-0280M-0001-SO	240-22281-33
079SB-0281M-0001-SO	240-22281-34
079SB-0282M-0001-SO	240-22281-35
079SB-0283M-0001-SO	240-22281-36
079SB-0284M-0001-SO	240-22281-37
079SB-0296M-0001-SO	240-22281-38
079SB-0297M-0001-SO	240-22281-39
079SB-0298M-0001-SO	240-22281-40
079SB-0299M-0001-SO	240-22281-41
079SB-0300M-0001-SO	240-22281-42
079SB-0301M-0001-SO	240-22281-43
079SB-0302M-0001-SO	240-22281-44

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0245M-0001-SO
Lab Sample ID: 240-22281-1
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:19
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.016	0.10	0.034	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0324M-0001-SO
Lab Sample ID: 240-22281-3
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:16
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0247M-0001-SO
Lab Sample ID: 240-22281-4
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:17
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.031	0.095	0.031	0.013	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0325M-0001-SO
Lab Sample ID: 240-22281-6
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:18
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.017	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0249M-0001-SO
Lab Sample ID: 240-22281-7
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:49
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0250M-0001-SO
Lab Sample ID: 240-22281-8
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:07
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.030	0.090	0.030	0.013	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0251M-0001-SO
Lab Sample ID: 240-22281-9
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:58
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0252M-0001-SO
Lab Sample ID: 240-22281-10
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:22
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.038	0.12	0.038	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0253M-0001-SO
Lab Sample ID: 240-22281-11
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:23
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.017	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0254-0001-SO
Lab Sample ID: 240-22281-12
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:20
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 90.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.036	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0255-0001-SO
Lab Sample ID: 240-22281-13
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:26
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 85.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.12	0.040	0.017	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0276-0001-SO
Lab Sample ID: 240-22281-14
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:04
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 86.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.042	0.13	0.042	0.018	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0277-0001-SO
Lab Sample ID: 240-22281-15
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:05
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 92.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.040	0.12	0.040	0.017	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0285-0001-SO
Lab Sample ID: 240-22281-16
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:54
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 82.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.050	0.12	0.039	0.017	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0286-0001-SO
Lab Sample ID: 240-22281-17
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:55
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 80.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.067	0.12	0.040	0.017	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0303-0001-SO
Lab Sample ID: 240-22281-18
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:12
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 84.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.046	0.12	0.039	0.017	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0304-0001-SO
Lab Sample ID: 240-22281-19
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:15
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 76.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.13	0.043	0.018	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0267M-0001-SO
Lab Sample ID: 240-22281-20
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:53
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.023	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0269M-0001-SO
Lab Sample ID: 240-22281-22
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:52
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.034	0.10	0.034	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0322M-0001-SO
Lab Sample ID: 240-22281-23
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:55
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.017	0.12	0.039	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0271M-0001-SO
Lab Sample ID: 240-22281-25
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 09:52
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.021	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0272M-0001-SO
Lab Sample ID: 240-22281-26
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 10:49
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0273M-0001-SO
Lab Sample ID: 240-22281-27
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:03
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.019	0.10	0.034	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0323M-0001-SO
Lab Sample ID: 240-22281-28
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:54
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.036	0.11	0.036	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0274M-0001-SO
Lab Sample ID: 240-22281-29
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:37
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.032	0.097	0.032	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0275M-0001-SO
Lab Sample ID: 240-22281-30
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:18
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0278M-0001-SO
Lab Sample ID: 240-22281-31
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:26
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.049	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0279M-0001-SO
Lab Sample ID: 240-22281-32
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:29
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.036	0.11	0.036	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0280M-0001-SO
Lab Sample ID: 240-22281-33
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:38
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.095	0.031	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0281M-0001-SO
Lab Sample ID: 240-22281-34
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:23
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.051	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0282M-0001-SO
Lab Sample ID: 240-22281-35
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:22
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.029	0.098	0.032	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0283M-0001-SO
Lab Sample ID: 240-22281-36
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:32
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0284M-0001-SO
Lab Sample ID: 240-22281-37
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:03
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0296M-0001-SO
Lab Sample ID: 240-22281-38
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:36
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.038	0.12	0.038	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0297M-0001-SO
Lab Sample ID: 240-22281-39
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:40
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0298M-0001-SO
Lab Sample ID: 240-22281-40
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:38
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.015	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0299M-0001-SO
Lab Sample ID: 240-22281-41
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:41
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0300M-0001-SO
Lab Sample ID: 240-22281-42
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:35
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0301M-0001-SO
Lab Sample ID: 240-22281-43
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:48
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0302M-0001-SO
Lab Sample ID: 240-22281-44
Lab Name: TestAmerica Canton
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:19
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.033	0.10	0.033	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0245M-0001-SO
Lab Sample ID: 240-22281-1
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:19
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.097	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	4500	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	5.0	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	25	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.26	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	260	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.046	0.097	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	6.0	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	4.8	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	6.4	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	10000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	940	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	270	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	26	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	10	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	5.2	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.084	0.097	0.019	0.0099	mg/Kg	J		1	6020/DOD
Vanadium	7.9	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	19	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	420	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.067	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0324M-0001-SO
Lab Sample ID: 240-22281-3
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:16
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.011	0.10	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	6800	3.0	0.60	0.28	mg/Kg		J	1	6020/DOD
Arsenic	6.5	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	54	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.43	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	640	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	9.7	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	8.3	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	11	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	18000	5.0	2.0	1.1	mg/Kg		J	1	6020/DOD
Magnesium	1700	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	880	0.50	0.030	0.016	mg/Kg		Q J	1	6020/DOD
Sodium	35	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	16	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	8.2	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U	J	1	6020/DOD
Thallium	0.11	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	11	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	32	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	680	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.10	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0247M-0001-SO
Lab Sample ID: 240-22281-4
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:17
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.098	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	2100	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	4.7	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	45	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.14	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	210	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.055	0.098	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	7.8	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	4.5	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	3.6	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	6800	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	450	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	950	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	24	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	11	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	3.6	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.19	0.20	0.098	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.061	0.098	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	4.2	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	21	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	350	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.098	0.49	0.098	0.050	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0325M-0001-SO
Lab Sample ID: 240-22281-6
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:18
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.097	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	1900	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	4.3	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	29	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.12	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	480	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.060	0.097	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	7.4	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	4.7	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	3.8	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	6000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	480	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	2300	4.9	0.29	0.15	mg/Kg		D Q	10	6020/DOD
Sodium	20	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	12	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	3.4	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.074	0.19	0.097	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.061	0.097	0.019	0.0099	mg/Kg	J		1	6020/DOD
Vanadium	4.7	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	19	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	320	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.097	0.49	0.097	0.049	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0249M-0001-SO
Lab Sample ID: 240-22281-7
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:49
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.096	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	2900	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	2.9	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	15	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.18	0.096	0.0096	0.0072	mg/Kg			1	6020/DOD
Calcium	200	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.044	0.096	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	4.8	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	6.8	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	4.4	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	7400	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	670	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	160	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	19	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	11	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	4.4	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.096	0.19	0.096	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.062	0.096	0.019	0.0098	mg/Kg	J		1	6020/DOD
Vanadium	4.9	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	16	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	410	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.096	0.48	0.096	0.049	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0250M-0001-SO
Lab Sample ID: 240-22281-8
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:07
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.099	0.030	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	3400	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	3.3	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	15	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.19	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	130	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.051	0.099	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	5.2	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	4.3	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	4.4	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	7700	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	720	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	130	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	19	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	8.5	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	4.3	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.062	0.099	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	6.2	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	20	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	400	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.099	0.50	0.099	0.050	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0251M-0001-SO
Lab Sample ID: 240-22281-9
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:58
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.098	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	4700	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	4.1	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	25	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.23	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	330	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.074	0.098	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	7.7	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	5.2	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	6.9	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	10000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1100	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	220	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	26	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	11	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	5.6	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.079	0.098	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	7.7	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	28	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	520	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.098	0.49	0.098	0.050	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0252M-0001-SO
Lab Sample ID: 240-22281-10
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 18:22
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.097	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	4500	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	12	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	20	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.24	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	150	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.066	0.097	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	7.2	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	3.9	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	6.4	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	11000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	900	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	150	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	23	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	11	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	5.1	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	7.7	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	22	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	520	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.070	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0253M-0001-SO
Lab Sample ID: 240-22281-11
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:23
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.10	0.030	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	6500	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	8.1	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	44	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.35	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	200	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.088	0.10	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	9.0	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	7.5	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	11	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	15000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	390	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	30	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	16	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	7.6	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	12	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	28	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	620	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.092	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0254-0001-SO
Lab Sample ID: 240-22281-12
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:20
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 90.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.050	0.11	0.032	0.012	mg/Kg	J	Q	1	6020/DOD
Aluminum	6500	3.2	0.65	0.31	mg/Kg			1	6020/DOD
Arsenic	20	0.11	0.054	0.019	mg/Kg			1	6020/DOD
Barium	11000	1.1	0.022	0.012	mg/Kg		J Q	1	6020/DOD
Beryllium	2.0	0.11	0.011	0.0081	mg/Kg			1	6020/DOD
Calcium	2200	11	2.7	1.4	mg/Kg			1	6020/DOD
Cadmium	0.29	0.11	0.032	0.014	mg/Kg			1	6020/DOD
Chromium	14	0.22	0.043	0.024	mg/Kg			1	6020/DOD
Cobalt	41	0.054	0.011	0.0026	mg/Kg		Q	1	6020/DOD
Copper	92	0.22	0.065	0.036	mg/Kg		Q	1	6020/DOD
Iron	18000	5.4	2.2	1.2	mg/Kg			1	6020/DOD
Magnesium	1000	11	2.2	1.2	mg/Kg			1	6020/DOD
Manganese	280000	54	3.2	1.7	mg/Kg		D Q J	100	6020/DOD
Sodium	3700	11	5.4	2.9	mg/Kg			1	6020/DOD
Nickel	52	0.11	0.032	0.012	mg/Kg			1	6020/DOD
Lead	17	0.11	0.032	0.017	mg/Kg		Q	1	6020/DOD
Antimony	0.50	0.22	0.11	0.049	mg/Kg			1	6020/DOD
Thallium	0.76	0.11	0.022	0.011	mg/Kg			1	6020/DOD
Vanadium	23	0.11	0.065	0.032	mg/Kg			1	6020/DOD
Zinc	41	0.54	0.22	0.070	mg/Kg		Q	1	6020/DOD
Potassium	3800	11	6.5	3.4	mg/Kg			1	6020/DOD
Selenium	0.25	0.54	0.11	0.055	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0255-0001-SO
Lab Sample ID: 240-22281-13
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 17:26
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 85.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.016	0.11	0.034	0.013	mg/Kg	J	Q	1	6020/DOD
Aluminum	11000	3.4	0.68	0.32	mg/Kg			1	6020/DOD
Arsenic	7.7	0.11	0.057	0.021	mg/Kg			1	6020/DOD
Barium	1000	1.1	0.023	0.012	mg/Kg		Q	1	6020/DOD
Beryllium	0.54	0.11	0.011	0.0085	mg/Kg			1	6020/DOD
Calcium	640	11	2.8	1.5	mg/Kg			1	6020/DOD
Cadmium	0.091	0.11	0.034	0.015	mg/Kg	J		1	6020/DOD
Chromium	12	0.23	0.045	0.025	mg/Kg			1	6020/DOD
Cobalt	5.7	0.057	0.011	0.0027	mg/Kg		Q	1	6020/DOD
Copper	17	0.23	0.068	0.037	mg/Kg		Q	1	6020/DOD
Iron	20000	5.7	2.3	1.2	mg/Kg			1	6020/DOD
Magnesium	1700	11	2.3	1.2	mg/Kg			1	6020/DOD
Manganese	19000	5.7	0.34	0.18	mg/Kg		D Q	10	6020/DOD
Sodium	300	11	5.7	3.0	mg/Kg			1	6020/DOD
Nickel	13	0.11	0.034	0.013	mg/Kg			1	6020/DOD
Lead	11	0.11	0.034	0.017	mg/Kg		Q	1	6020/DOD
Antimony	0.11	0.23	0.11	0.052	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.11	0.023	0.012	mg/Kg			1	6020/DOD
Vanadium	20	0.11	0.068	0.034	mg/Kg			1	6020/DOD
Zinc	29	0.57	0.23	0.073	mg/Kg		Q	1	6020/DOD
Potassium	660	11	6.8	3.6	mg/Kg			1	6020/DOD
Selenium	0.23	0.57	0.11	0.058	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0276-0001-SO
Lab Sample ID: 240-22281-14
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:04
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 86.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.11	0.033	0.013	mg/Kg	J	Q	1	6020/DOD
Aluminum	10000	3.3	0.67	0.32	mg/Kg			1	6020/DOD
Arsenic	14	0.11	0.056	0.020	mg/Kg			1	6020/DOD
Barium	120	1.1	0.022	0.012	mg/Kg		Q	1	6020/DOD
Beryllium	2.1	0.11	0.011	0.0084	mg/Kg			1	6020/DOD
Calcium	53000	11	2.8	1.5	mg/Kg			1	6020/DOD
Cadmium	0.23	0.11	0.033	0.015	mg/Kg			1	6020/DOD
Chromium	53	0.22	0.045	0.025	mg/Kg			1	6020/DOD
Cobalt	3.6	0.056	0.011	0.0027	mg/Kg		Q	1	6020/DOD
Copper	15	0.22	0.067	0.037	mg/Kg		Q	1	6020/DOD
Iron	8000	5.6	2.2	1.2	mg/Kg			1	6020/DOD
Magnesium	13000	11	2.2	1.2	mg/Kg			1	6020/DOD
Manganese	4400	5.6	0.33	0.18	mg/Kg		D Q	10	6020/DOD
Sodium	360	11	5.6	3.0	mg/Kg			1	6020/DOD
Nickel	12	0.11	0.033	0.013	mg/Kg			1	6020/DOD
Lead	200	0.11	0.033	0.017	mg/Kg		Q	1	6020/DOD
Antimony	0.073	0.22	0.11	0.051	mg/Kg	J		1	6020/DOD
Thallium	0.058	0.11	0.022	0.011	mg/Kg	J		1	6020/DOD
Vanadium	7.6	0.11	0.067	0.033	mg/Kg			1	6020/DOD
Zinc	38	0.56	0.22	0.072	mg/Kg		Q	1	6020/DOD
Potassium	730	11	6.7	3.5	mg/Kg			1	6020/DOD
Selenium	0.92	0.56	0.11	0.057	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0277-0001-SO
Lab Sample ID: 240-22281-15
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:05
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 92.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.051	0.11	0.032	0.012	mg/Kg	J	Q	1	6020/DOD
Aluminum	18000	3.2	0.64	0.31	mg/Kg			1	6020/DOD
Arsenic	110	0.11	0.054	0.019	mg/Kg			1	6020/DOD
Barium	340	1.1	0.021	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	4.9	0.11	0.011	0.0080	mg/Kg			1	6020/DOD
Calcium	100000	11	2.7	1.4	mg/Kg			1	6020/DOD
Cadmium	0.27	0.11	0.032	0.014	mg/Kg			1	6020/DOD
Chromium	16	0.21	0.043	0.024	mg/Kg			1	6020/DOD
Cobalt	3.9	0.054	0.011	0.0026	mg/Kg		Q	1	6020/DOD
Copper	87	0.21	0.064	0.035	mg/Kg		Q	1	6020/DOD
Iron	5300	5.4	2.1	1.2	mg/Kg			1	6020/DOD
Magnesium	29000	11	2.1	1.2	mg/Kg			1	6020/DOD
Manganese	42000	54	3.2	1.7	mg/Kg		D Q	100	6020/DOD
Sodium	1200	11	5.4	2.8	mg/Kg			1	6020/DOD
Nickel	8.0	0.11	0.032	0.012	mg/Kg			1	6020/DOD
Lead	470	0.11	0.032	0.017	mg/Kg		Q	1	6020/DOD
Antimony	0.11	0.21	0.11	0.049	mg/Kg	U		1	6020/DOD
Thallium	0.068	0.11	0.021	0.011	mg/Kg	J		1	6020/DOD
Vanadium	11	0.11	0.064	0.032	mg/Kg			1	6020/DOD
Zinc	67	0.54	0.21	0.069	mg/Kg		Q	1	6020/DOD
Potassium	2400	11	6.4	3.4	mg/Kg			1	6020/DOD
Selenium	1.5	0.54	0.11	0.055	mg/Kg			1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0285-0001-SO
Lab Sample ID: 240-22281-16
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:54
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 82.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.034	0.12	0.035	0.013	mg/Kg	J	Q	1	6020/DOD
Aluminum	10000	3.5	0.71	0.34	mg/Kg			1	6020/DOD
Arsenic	4.9	0.12	0.059	0.021	mg/Kg			1	6020/DOD
Barium	77	1.2	0.024	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	0.52	0.12	0.012	0.0089	mg/Kg			1	6020/DOD
Calcium	350	12	3.0	1.6	mg/Kg			1	6020/DOD
Cadmium	0.17	0.12	0.035	0.016	mg/Kg			1	6020/DOD
Chromium	16	0.24	0.047	0.026	mg/Kg			1	6020/DOD
Cobalt	9.9	0.059	0.012	0.0028	mg/Kg		Q	1	6020/DOD
Copper	10	0.24	0.071	0.039	mg/Kg		Q	1	6020/DOD
Iron	16000	5.9	2.4	1.3	mg/Kg			1	6020/DOD
Magnesium	3500	12	2.4	1.3	mg/Kg			1	6020/DOD
Manganese	320	0.59	0.035	0.019	mg/Kg		Q	1	6020/DOD
Sodium	38	12	5.9	3.1	mg/Kg			1	6020/DOD
Nickel	19	0.12	0.035	0.013	mg/Kg			1	6020/DOD
Lead	13	0.12	0.035	0.018	mg/Kg		Q	1	6020/DOD
Antimony	0.12	0.24	0.12	0.054	mg/Kg	U		1	6020/DOD
Thallium	0.14	0.12	0.024	0.012	mg/Kg			1	6020/DOD
Vanadium	17	0.12	0.071	0.035	mg/Kg			1	6020/DOD
Zinc	41	0.59	0.24	0.077	mg/Kg		Q	1	6020/DOD
Potassium	630	12	7.1	3.7	mg/Kg			1	6020/DOD
Selenium	0.27	0.59	0.12	0.060	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0286-0001-SO
Lab Sample ID: 240-22281-17
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:55
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 80.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.12	0.037	0.014	mg/Kg	J	Q	1	6020/DOD
Aluminum	15000	3.7	0.74	0.35	mg/Kg			1	6020/DOD
Arsenic	8.9	0.12	0.061	0.022	mg/Kg			1	6020/DOD
Barium	69	1.2	0.025	0.013	mg/Kg		Q	1	6020/DOD
Beryllium	0.63	0.12	0.012	0.0092	mg/Kg			1	6020/DOD
Calcium	140	12	3.1	1.6	mg/Kg			1	6020/DOD
Cadmium	0.12	0.12	0.037	0.016	mg/Kg			1	6020/DOD
Chromium	18	0.25	0.049	0.027	mg/Kg			1	6020/DOD
Cobalt	12	0.061	0.012	0.0029	mg/Kg		Q	1	6020/DOD
Copper	15	0.25	0.074	0.040	mg/Kg		Q	1	6020/DOD
Iron	23000	6.1	2.5	1.3	mg/Kg			1	6020/DOD
Magnesium	3600	12	2.5	1.3	mg/Kg			1	6020/DOD
Manganese	620	0.61	0.037	0.019	mg/Kg		Q	1	6020/DOD
Sodium	41	12	6.1	3.3	mg/Kg			1	6020/DOD
Nickel	18	0.12	0.037	0.014	mg/Kg			1	6020/DOD
Lead	13	0.12	0.037	0.019	mg/Kg		Q	1	6020/DOD
Antimony	0.12	0.25	0.12	0.056	mg/Kg	U		1	6020/DOD
Thallium	0.17	0.12	0.025	0.012	mg/Kg			1	6020/DOD
Vanadium	27	0.12	0.074	0.037	mg/Kg			1	6020/DOD
Zinc	50	0.61	0.25	0.079	mg/Kg		Q	1	6020/DOD
Potassium	870	12	7.4	3.9	mg/Kg			1	6020/DOD
Selenium	0.45	0.61	0.12	0.062	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0303-0001-SO
Lab Sample ID: 240-22281-18
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:12
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 84.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.041	0.12	0.035	0.013	mg/Kg	J	Q	1	6020/DOD
Aluminum	10000	3.5	0.69	0.33	mg/Kg			1	6020/DOD
Arsenic	110	0.12	0.058	0.021	mg/Kg			1	6020/DOD
Barium	72	1.2	0.023	0.012	mg/Kg		Q	1	6020/DOD
Beryllium	0.66	0.12	0.012	0.0086	mg/Kg			1	6020/DOD
Calcium	830	12	2.9	1.5	mg/Kg			1	6020/DOD
Cadmium	0.16	0.12	0.035	0.015	mg/Kg			1	6020/DOD
Chromium	14	0.23	0.046	0.026	mg/Kg			1	6020/DOD
Cobalt	8.2	0.058	0.012	0.0028	mg/Kg		Q	1	6020/DOD
Copper	10	0.23	0.069	0.038	mg/Kg		Q	1	6020/DOD
Iron	29000	5.8	2.3	1.2	mg/Kg			1	6020/DOD
Magnesium	1600	12	2.3	1.2	mg/Kg			1	6020/DOD
Manganese	1000	0.58	0.035	0.018	mg/Kg		Q	1	6020/DOD
Sodium	170	12	5.8	3.1	mg/Kg			1	6020/DOD
Nickel	10	0.12	0.035	0.013	mg/Kg			1	6020/DOD
Lead	26	0.12	0.035	0.018	mg/Kg		Q	1	6020/DOD
Antimony	0.12	0.23	0.12	0.053	mg/Kg	U		1	6020/DOD
Thallium	0.10	0.12	0.023	0.012	mg/Kg	J		1	6020/DOD
Vanadium	34	0.12	0.069	0.034	mg/Kg			1	6020/DOD
Zinc	28	0.58	0.23	0.075	mg/Kg		Q	1	6020/DOD
Potassium	1900	12	6.9	3.6	mg/Kg			1	6020/DOD
Selenium	0.49	0.58	0.12	0.059	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07PSS-0304-0001-SO
Lab Sample ID: 240-22281-19
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:15
Reporting Basis: DRY
Date Received: 03/21/2013 17:24
% Solids: 76.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.025	0.13	0.038	0.014	mg/Kg	J	Q	1	6020/DOD
Aluminum	12000	3.8	0.76	0.36	mg/Kg			1	6020/DOD
Arsenic	82	0.13	0.063	0.023	mg/Kg			1	6020/DOD
Barium	57	1.3	0.025	0.014	mg/Kg		Q	1	6020/DOD
Beryllium	0.55	0.13	0.013	0.0095	mg/Kg			1	6020/DOD
Calcium	320	13	3.2	1.7	mg/Kg			1	6020/DOD
Cadmium	0.20	0.13	0.038	0.017	mg/Kg			1	6020/DOD
Chromium	16	0.25	0.051	0.028	mg/Kg			1	6020/DOD
Cobalt	5.4	0.063	0.013	0.0030	mg/Kg		Q	1	6020/DOD
Copper	17	0.25	0.076	0.042	mg/Kg		Q	1	6020/DOD
Iron	25000	6.3	2.5	1.4	mg/Kg			1	6020/DOD
Magnesium	2200	13	2.5	1.4	mg/Kg			1	6020/DOD
Manganese	130	0.63	0.038	0.020	mg/Kg		Q	1	6020/DOD
Sodium	590	13	6.3	3.4	mg/Kg			1	6020/DOD
Nickel	15	0.13	0.038	0.014	mg/Kg			1	6020/DOD
Lead	11	0.13	0.038	0.019	mg/Kg		Q	1	6020/DOD
Antimony	0.13	0.25	0.13	0.058	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.13	0.025	0.013	mg/Kg	J		1	6020/DOD
Vanadium	26	0.13	0.076	0.038	mg/Kg			1	6020/DOD
Zinc	35	0.63	0.25	0.082	mg/Kg		Q	1	6020/DOD
Potassium	3300	13	7.6	4.0	mg/Kg			1	6020/DOD
Selenium	0.21	0.63	0.13	0.064	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0267M-0001-SO
Lab Sample ID: 240-22281-20
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:53
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.018	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	8400	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	51	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	58	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.57	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	3800	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.10	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	12	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	7.3	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	12	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	18000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2900	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	390	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	240	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	12	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	13	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	36	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1300	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.22	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0269M-0001-SO
Lab Sample ID: 240-22281-22
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:52
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.099	0.030	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	2300	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	27	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	39	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.19	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	1400	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.035	0.099	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	4.6	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	2.7	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	6400	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	980	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	5000	5.0	0.30	0.16	mg/Kg		D Q	10	6020/DOD
Sodium	130	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	6.8	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	160	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.049	0.099	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	5.0	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	17	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	490	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.099	0.50	0.099	0.050	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0322M-0001-SO
Lab Sample ID: 240-22281-23
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:55
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	7200	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	36	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	48	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.48	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	1900	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.084	0.099	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	10	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	6.3	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	12	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	17000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2300	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	280	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	240	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	16	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	9.6	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	11	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	39	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1100	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.11	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0271M-0001-SO
Lab Sample ID: 240-22281-25
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 09:52
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	3700	3.0	0.59	0.28	mg/Kg		J	1	6020/DOD
Arsenic	5.6	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	27	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.24	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	670	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.034	0.099	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	6.2	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	2.3	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	2.9	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	6100	5.0	2.0	1.1	mg/Kg		J	1	6020/DOD
Magnesium	640	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	210	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	20	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	5.9	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	3.8	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U	J	1	6020/DOD
Thallium	0.049	0.099	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	6.3	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	11	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	350	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.058	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0272M-0001-SO
Lab Sample ID: 240-22281-26
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 10:49
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.10	0.030	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	990	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	8.8	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	7.7	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.088	0.10	0.010	0.0075	mg/Kg	J		1	6020/DOD
Calcium	170	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	4.5	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	1.9	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	2.0	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	15000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	410	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	300	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	24	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	6.4	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	2.5	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.18	0.20	0.10	0.046	mg/Kg	J		1	6020/DOD
Thallium	0.058	0.10	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	2.6	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	56	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	280	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.10	0.50	0.10	0.051	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0273M-0001-SO
Lab Sample ID: 240-22281-27
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:03
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.10	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	8600	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	32	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	87	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.45	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	550	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	13	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	7.8	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	29	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	17000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	5600	5.0	0.30	0.16	mg/Kg		D Q	10	6020/DOD
Sodium	690	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	20	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	190	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.063	0.20	0.10	0.046	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	14	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	38	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1900	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.11	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0323M-0001-SO
Lab Sample ID: 240-22281-28
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:54
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.012	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	3800	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	43	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	48	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.30	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	2900	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.060	0.099	0.030	0.013	mg/Kg	J		1	6020/DOD
Chromium	7.3	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	3.1	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	8000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1700	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	5000	5.0	0.30	0.16	mg/Kg		D Q	10	6020/DOD
Sodium	180	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	8.9	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	210	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.073	0.099	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	7.1	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	22	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	780	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.061	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0274M-0001-SO
Lab Sample ID: 240-22281-29
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:37
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.098	0.029	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	5900	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	110	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	35	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.28	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	310	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.091	0.098	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	9.9	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	5.5	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	12	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	13000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1500	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	1400	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	150	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	13	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	36	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.10	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	10	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	34	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1600	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.064	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0275M-0001-SO
Lab Sample ID: 240-22281-30
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 11:18
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.096	0.029	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	9100	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	11	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	58	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.52	0.096	0.0096	0.0072	mg/Kg			1	6020/DOD
Calcium	1800	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.096	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	14	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	8.3	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	17	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	22000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2700	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	320	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	54	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	18	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.096	0.19	0.096	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.096	0.019	0.0098	mg/Kg			1	6020/DOD
Vanadium	15	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	42	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	900	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.19	0.48	0.096	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0278M-0001-SO
Lab Sample ID: 240-22281-31
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:26
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.015	0.098	0.029	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	7700	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	12	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	42	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.39	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	480	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.098	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	11	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	6.8	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	11	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	17000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2000	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	350	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	54	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	10	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	13	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	55	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	850	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.11	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0279M-0001-SO
Lab Sample ID: 240-22281-32
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:29
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.098	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	2600	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	14	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	22	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.18	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	1600	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.096	0.098	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	4.3	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	3.8	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	4.9	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	6600	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	890	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	680	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	45	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	11	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	9.0	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.067	0.098	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	4.3	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	68	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	400	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.098	0.49	0.098	0.050	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0280M-0001-SO
Lab Sample ID: 240-22281-33
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:38
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.099	0.030	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	5200	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	34	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.28	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	210	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	11	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	5.9	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	9.4	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	13000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1800	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	190	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	28	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	20	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	6.2	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.10	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	8.4	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	73	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	730	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.099	0.50	0.099	0.050	mg/Kg	U		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0281M-0001-SO
Lab Sample ID: 240-22281-34
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 15:23
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.012	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	4900	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	10	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	35	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.27	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	390	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.10	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	6.8	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	4.4	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	4.7	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	9200	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	930	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	430	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	22	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	12	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	5.4	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.086	0.099	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	9.2	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	71	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	390	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.11	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0282M-0001-SO
Lab Sample ID: 240-22281-35
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:22
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.016	0.10	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	7200	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	12	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	45	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.37	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	1100	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.17	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	10	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	7.4	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	12	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	16000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2200	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	240	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	44	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	20	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	8.0	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.097	0.10	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	12	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	84	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	830	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.087	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0283M-0001-SO
Lab Sample ID: 240-22281-36
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:32
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.011	0.097	0.029	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	8200	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	38	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.38	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	130	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.097	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	11	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	7.1	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	15	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	18000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1900	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	190	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	160	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	8.5	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	13	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	58	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	1100	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.11	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0284M-0001-SO
Lab Sample ID: 240-22281-37
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 16:03
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.011	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	6500	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	15	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	26	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.31	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	74	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	8.9	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	5.2	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	10	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	14000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2000	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	220	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	28	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	13	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	7.1	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	11	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	55	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	700	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.15	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0296M-0001-SO
Lab Sample ID: 240-22281-38
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:36
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.017	0.10	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	6800	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	18	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	42	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.41	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	780	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.14	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	10	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	6.9	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	13	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	20000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1700	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	270	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	240	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	16	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	9.4	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	12	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	48	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1300	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.12	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0297M-0001-SO
Lab Sample ID: 240-22281-39
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:40
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.011	0.10	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	2900	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	21	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	20	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.19	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	870	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	7.4	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	9.2	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	6.9	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	11000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	870	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	350	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	150	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	20	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	5.8	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.076	0.10	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	5.8	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	63	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	550	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.080	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0298M-0001-SO
Lab Sample ID: 240-22281-40
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:38
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.016	0.099	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	8800	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	36	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	53	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.42	0.099	0.0099	0.0074	mg/Kg			1	6020/DOD
Calcium	170	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.11	0.099	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	13	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	7.0	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	15	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	20000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1900	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	230	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	300	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	10	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.11	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	15	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	40	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	3300	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.14	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0299M-0001-SO
Lab Sample ID: 240-22281-41
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:41
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.097	0.029	0.011	mg/Kg	U	Q	1	6020/DOD
Aluminum	4300	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	46	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	25	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.22	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	130	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.098	0.097	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	7.4	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	6.8	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	8.0	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	10000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1000	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	160	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	190	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	15	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	6.4	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.065	0.097	0.019	0.0099	mg/Kg	J		1	6020/DOD
Vanadium	7.4	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	39	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	1000	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.070	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0300M-0001-SO
Lab Sample ID: 240-22281-42
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:35
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.018	0.098	0.029	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	6300	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	15	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	41	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.40	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	1500	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.21	0.098	0.029	0.013	mg/Kg			1	6020/DOD
Chromium	10	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	13	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	18000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2100	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	330	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	260	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	25	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	8.9	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.097	0.098	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	10	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	82	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	870	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.11	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0301M-0001-SO
Lab Sample ID: 240-22281-43
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 14:48
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.012	0.095	0.029	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	4300	2.9	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	8.1	0.095	0.048	0.017	mg/Kg			1	6020/DOD
Barium	27	0.95	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.23	0.095	0.0095	0.0071	mg/Kg			1	6020/DOD
Calcium	250	9.5	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.076	0.095	0.029	0.013	mg/Kg	J		1	6020/DOD
Chromium	6.1	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	5.8	0.048	0.0095	0.0023	mg/Kg		Q	1	6020/DOD
Copper	5.6	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	10000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	780	9.5	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	450	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	26	9.5	4.8	2.5	mg/Kg			1	6020/DOD
Nickel	8.3	0.095	0.029	0.011	mg/Kg			1	6020/DOD
Lead	5.9	0.095	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.095	0.19	0.095	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.068	0.095	0.019	0.0097	mg/Kg	J		1	6020/DOD
Vanadium	8.4	0.095	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	23	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	360	9.5	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.064	0.48	0.095	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0302M-0001-SO
Lab Sample ID: 240-22281-44
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/20/2013 12:19
Reporting Basis: WET
Date Received: 03/21/2013 17:24

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.016	0.10	0.030	0.011	mg/Kg	J	Q	1	6020/DOD
Aluminum	6200	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	82	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	46	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.36	0.10	0.010	0.0075	mg/Kg			1	6020/DOD
Calcium	99	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.13	0.10	0.030	0.013	mg/Kg			1	6020/DOD
Chromium	9.6	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	8.8	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	15	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	19000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	190	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	250	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	17	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	35	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.18	0.20	0.10	0.046	mg/Kg	J		1	6020/DOD
Thallium	0.50	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	10	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	44	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1900	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.17	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00339

Analyte	ICV 240-79547/7-A 03/27/2013 09:34				CCV 240-79547/10-A 03/27/2013 09:45				CCV 240-79547/10-A 03/27/2013 10:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.66		2.50	106	4.97		5.00	99	5.03		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00339

Analyte	CCV 240-79547/10-A 03/27/2013 10:21				CCV 240-79547/10-A 03/27/2013 10:38							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.06		5.00	101	5.05		5.00	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	ICV 240-80224/7-A 04/02/2013 11:59				CCV 240-80224/10-A 04/02/2013 14:14				CCV 240-80224/10-A 04/02/2013 14:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.47		2.50	99	5.04		5.00	101	5.07		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	CCV 240-80224/10-A 04/02/2013 14:56				CCV 240-80224/10-A 04/02/2013 15:16				CCV 240-80224/10-A 04/02/2013 15:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.06		5.00	101	5.06		5.00	101	5.05		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	CCV 240-80224/10-A 04/02/2013 15:52				CCV 240-80224/10-A 04/02/2013 16:03							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.06		5.00	101	5.04		5.00	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	ICV 240-80224/7-A 04/03/2013 08:02				CCV 240-80224/10-A 04/03/2013 11:16				CCV 240-80224/10-A 04/03/2013 11:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.49		2.50	99	5.15		5.00	103	5.14		5.00	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00345

Analyte	CCV 240-80224/10-A 04/03/2013 11:48											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.17		5.00	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: CCVHL1_00002

Analyte	ICV 180-70234/5 04/27/2013 22:20				CCV 180-70234/10 04/27/2013 23:02							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	383		400	96	467000		500000	93				
Barium	77.7		80.0	97	15400		15000	103				
Chromium	78.8		80.0	98	21100		20000	106				
Copper	81.5		80.0	102	20200		20000	101				
Iron	19200		20000	96	504000		500000	101				
Lead	77.2		80.0	97	19700		20000	98				
Manganese	384		400	96	21400		20000	107				
Nickel	79.4		80.0	99	10400		10000	104				
Zinc	79.8		80.0	100	20100		20000	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: CCVHL2_00002

Analyte	ICV 180-70234/5 04/27/2013 22:20				CCV 180-70234/11 04/27/2013 23:11							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	38300		40000	96	951000		1000000	95				
Magnesium	38800		40000	97	933000		1000000	93				
Potassium	38900		40000	97	468000		500000	94				
Sodium	39300		40000	98	468000		500000	94				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	ICV 180-70234/5 04/27/2013 22:20				CCV 180-70234/36 04/28/2013 02:39				CCV 180-70234/48 04/28/2013 04:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	383		400	96	489		500	98	493		500	99
Antimony	77.2		80.0	96	96.0		100	96	95.5		100	96
Arsenic	79.4		80.0	99	102		100	102	100		100	100
Barium	77.7		80.0	97	96.4		100	96	97.0		100	97
Beryllium	79.4		80.0	99	105		100	105	105		100	105
Cadmium	78.1		80.0	98	97.9		100	98	97.6		100	98
Calcium	38300		40000	96	49200		50000	98	50100		50000	100
Chromium	78.8		80.0	98	102		100	102	101		100	101
Cobalt	79.2		80.0	99	104		100	104	103		100	103
Copper	81.5		80.0	102	106		100	106	106		100	106
Iron	19200		20000	96	25700		25000	103	26100		25000	104
Lead	77.2		80.0	97	96.8		100	97	95.9		100	96
Magnesium	38800		40000	97	50800		50000	102	51400		50000	103
Manganese	384		400	96	488		500	98	479		500	96
Nickel	79.4		80.0	99	107		100	107	105		100	105
Potassium	38900		40000	97	49500		50000	99	50200		50000	100
Selenium	81.3		80.0	102	101		100	101	101		100	101
Silver	79.7		80.0	100	99.0		100	99	98.1		100	98
Sodium	39300		40000	98	50700		50000	101	51300		50000	103
Thallium	79.8		80.0	100	97.0		100	97	96.5		100	96
Vanadium	78.6		80.0	98	99.8		100	100	99.5		100	99
Zinc	79.8		80.0	100	101		100	101	101		100	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	CCV 180-70234/60 04/28/2013 05:56				CCV 180-70234/64 04/28/2013 06:29				CCV 180-70234/76 04/28/2013 08:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	495		500	99	496		500	99	499		500	100
Antimony	95.4		100	95	95.4		100	95	95.7		100	96
Arsenic	101		100	101	102		100	102	101		100	101
Barium	98.5		100	98	98.6		100	99	98.5		100	98
Beryllium	108		100	108	108		100	108	107		100	107
Cadmium	96.9		100	97	96.8		100	97	97.9		100	98
Calcium	49600		50000	99	49400		50000	99	49500		50000	99
Chromium	102		100	102	103		100	103	102		100	102
Cobalt	103		100	103	104		100	104	104		100	104
Copper	106		100	106	109		100	109	107		100	107
Iron	25800		25000	103	25700		25000	103	25600		25000	103
Lead	95.8		100	96	94.6		100	95	95.5		100	96
Magnesium	50900		50000	102	50800		50000	102	50800		50000	102
Manganese	481		500	96	482		500	96	484		500	97
Nickel	107		100	107	108		100	108	107		100	107
Potassium	49800		50000	100	50000		50000	100	49900		50000	100
Selenium	101		100	101	102		100	102	103		100	103
Silver	98.3		100	98	99.0		100	99	98.7		100	99
Sodium	51100		50000	102	51000		50000	102	50900		50000	102
Thallium	96.0		100	96	95.1		100	95	96.0		100	96
Vanadium	100		100	100	101		100	101	101		100	101
Zinc	99.6		100	100	100		100	100	99.7		100	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	CCV 180-70234/88 04/28/2013 09:47				CCV 180-70234/96 04/28/2013 10:53				CCV 180-70234/100 04/28/2013 11:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	504		500	101	503		500	101	504		500	101
Antimony	93.4		100	93	94.8		100	95	94.4		100	94
Arsenic	99.8		100	100	99.7		100	100	100		100	100
Barium	98.5		100	99	98.4		100	98	99.1		100	99
Beryllium	105		100	105	106		100	106	105		100	105
Cadmium	96.1		100	96	98.1		100	98	95.3		100	95
Calcium	49100		50000	98	49300		50000	99	49000		50000	98
Chromium	102		100	102	101		100	101	102		100	102
Cobalt	103		100	103	103		100	103	104		100	104
Copper	105		100	105	105		100	105	106		100	106
Iron	25400		25000	102	25500		25000	102	25400		25000	102
Lead	94.1		100	94	93.9		100	94	92.6		100	93
Magnesium	50500		50000	101	50600		50000	101	50400		50000	101
Manganese	478		500	96	480		500	96	475		500	95
Nickel	107		100	107	104		100	104	107		100	107
Potassium	49300		50000	99	49900		50000	100	49800		50000	100
Selenium	98.4		100	98	98.5		100	99	98.1		100	98
Silver	99.6		100	100	102		100	102	97.6		100	98
Sodium	50800		50000	102	50400		50000	101	50500		50000	101
Thallium	94.9		100	95	94.5		100	95	93.3		100	93
Vanadium	101		100	101	101		100	101	101		100	101
Zinc	96.5		100	96	95.8		100	96	96.1		100	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00039

Analyte	CCV 180-70234/112 04/28/2013 15:07				CCV 180-70234/115 04/28/2013 15:32							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	512		500	102	515		500	103				
Antimony	94.9		100	95	94.1		100	94				
Arsenic	101		100	101	100		100	100				
Barium	100		100	100	100		100	100				
Beryllium	107		100	107	106		100	106				
Cadmium	95.9		100	96	95.1		100	95				
Calcium	49600		50000	99	49200		50000	98				
Chromium	102		100	102	104		100	104				
Cobalt	105		100	105	105		100	105				
Copper	107		100	107	108		100	108				
Iron	25700		25000	103	25600		25000	102				
Lead	91.5		100	91	91.2		100	91				
Magnesium	50900		50000	102	50900		50000	102				
Manganese	475		500	95	477		500	95				
Nickel	107		100	107	107		100	107				
Potassium	50200		50000	100	50200		50000	100				
Selenium	98.0		100	98	98.4		100	98				
Silver	99.5		100	100	97.4		100	97				
Sodium	51100		50000	102	50900		50000	102				
Thallium	92.4		100	92	92.1		100	92				
Vanadium	103		100	103	103		100	103				
Zinc	96.6		100	97	96.7		100	97				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICV Source: MICVX_00003 Concentration Units: ug/L

CCV Source: MCCV1X_00041

Analyte	ICV 180-70234/5 04/27/2013 22:20				CCV 180-70234/12 04/27/2013 23:21				CCV 180-70234/24 04/28/2013 01:01			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	383		400	96	492		500	98	465		500	93
Antimony	77.2		80.0	96	95.2		100	95	96.5		100	96
Arsenic	79.4		80.0	99	99.4		100	99	99.6		100	100
Barium	77.7		80.0	97	97.2		100	97	95.3		100	95
Beryllium	79.4		80.0	99	100		100	100	104		100	104
Cadmium	78.1		80.0	98	98.0		100	98	99.0		100	99
Calcium	38300		40000	96	49500		50000	99	49800		50000	100
Chromium	78.8		80.0	98	97.8		100	98	99.7		100	100
Cobalt	79.2		80.0	99	99.3		100	99	101		100	101
Copper	81.5		80.0	102	101		100	101	104		100	104
Iron	19200		20000	96	25200		25000	101	25900		25000	104
Lead	77.2		80.0	97	96.3		100	96	96.6		100	97
Magnesium	38800		40000	97	50700		50000	101	49200		50000	98
Manganese	384		400	96	504		500	101	501		500	100
Nickel	79.4		80.0	99	102		100	102	103		100	103
Potassium	38900		40000	97	50200		50000	100	48800		50000	98
Selenium	81.3		80.0	102	101		100	101	101		100	101
Silver	79.7		80.0	100	98.6		100	99	99.0		100	99
Sodium	39300		40000	98	50800		50000	102	49700		50000	99
Thallium	79.8		80.0	100	96.9		100	97	97.0		100	97
Vanadium	78.6		80.0	98	97.2		100	97	98.0		100	98
Zinc	79.8		80.0	100	98.7		100	99	101		100	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Method: 7471/DOD Instrument ID: H1

Lab Sample ID: CRA 240-79547/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00339

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.171	J	85	

Lab Sample ID: CRA 240-79547/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00339

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.154	J	77	

Lab Sample ID: CRA 240-80224/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00345

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.210		105	

Lab Sample ID: CRA 240-80224/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00345

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.196	J	98	

Lab Sample ID: CRA 240-80224/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00345

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.161	J	81	

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Method: 7471/DOD Instrument ID: H1

Lab Sample ID: CRA 240-80224/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00345

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.196	J	98	

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-70234/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.962	J	96	80-120
Aluminum	30.0	34.5		115	80-120
Arsenic	1.00	0.900	J	90	80-120
Barium	10.0	9.79	J	98	80-120
Beryllium	1.00	0.989	J	99	80-120
Calcium	100	102		102	80-120
Cadmium	1.00	1.08		108	80-120
Chromium	2.00	1.96	J	98	80-120
Cobalt	0.500	0.499	J	100	80-120
Copper	2.00	2.20		110	80-120
Iron	50.0	53.3		107	80-120
Magnesium	100	100		100	80-120
Manganese	5.00	5.18		104	80-120
Sodium	100	104		104	80-120
Nickel	1.00	1.06		106	80-120
Lead	1.00	0.969	J	97	80-120
Antimony	2.00	1.94	J	97	80-120
Thallium	1.00	0.944	J	94	80-120
Vanadium	1.00	0.898	J	90	80-120
Zinc	5.00	5.60		112	80-120
Potassium	100	101		101	80-120
Selenium	5.00	4.36	J	87	80-120

Lab Sample ID: CRI 180-70234/62 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.977	J	98	80-120
Aluminum	30.0	35.0		117	80-120
Arsenic	1.00	1.19		119	80-120
Barium	10.0	9.68	J	97	80-120
Beryllium	1.00	1.08		108	80-120
Calcium	100	99.1	J	99	80-120
Cadmium	1.00	1.01		101	80-120
Chromium	2.00	1.99	J	99	80-120

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-70234/62 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	0.500	0.526		105	80-120
Copper	2.00	2.31		116	80-120
Iron	50.0	54.3		109	80-120
Magnesium	100	95.8	J	96	80-120
Manganese	5.00	5.19		104	80-120
Sodium	100	120		120	80-120
Nickel	1.00	1.11		111	80-120
Lead	1.00	0.920	J	92	80-120
Antimony	2.00	1.94	J	97	80-120
Thallium	1.00	0.900	J	90	80-120
Vanadium	1.00	0.947	J	95	80-120
Zinc	5.00	5.55		111	80-120
Selenium	5.00	4.45	J	89	80-120

Lab Sample ID: CRI 180-70234/63 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Potassium	100	80.5	J	80	80-120

Lab Sample ID: CRI 180-70234/98 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.957	J	96	80-120
Aluminum	30.0	35.9		120	80-120
Arsenic	1.00	1.18		118	80-120
Barium	10.0	9.64	J	96	80-120
Beryllium	1.00	1.01		101	80-120
Calcium	100	96.7	J	97	80-120
Cadmium	1.00	1.02		102	80-120
Chromium	2.00	2.02		101	80-120

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-70234/98 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	0.500	0.541		108	80-120
Copper	2.00	2.31		115	80-120
Iron	50.0	56.3		113	80-120
Magnesium	100	96.0	J	96	80-120
Manganese	5.00	5.25		105	80-120
Sodium	100	118		118	80-120
Nickel	1.00	1.14		114	80-120
Lead	1.00	0.889	J	89	80-120
Antimony	2.00	1.86	J	93	80-120
Thallium	1.00	0.870	J	87	80-120
Vanadium	1.00	0.970	J	97	80-120
Zinc	5.00	5.43		109	80-120
Potassium	100	70.9	J	71	80-120
Selenium	5.00	4.89	J	98	80-120

Lab Sample ID: CRI 180-70234/114 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Manganese	5.00	5.52		110	80-120

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-79547/8-A 03/27/2013 09:36		CCB 240-79547/11-A 03/27/2013 09:47		CCB 240-79547/11-A 03/27/2013 10:05		CCB 240-79547/11-A 03/27/2013 10:23	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-79547/11-A 03/27/2013 10:41							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-80224/8-A 04/02/2013 12:00		CCB 240-80224/11-A 04/02/2013 14:15		CCB 240-80224/11-A 04/02/2013 14:39		CCB 240-80224/11-A 04/02/2013 14:58	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-80224/11-A 04/02/2013 15:17		CCB 240-80224/11-A 04/02/2013 15:35		CCB 240-80224/11-A 04/02/2013 15:54		CCB 240-80224/11-A 04/02/2013 16:05	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-80224/8-A 04/03/2013 08:03		CCB 240-80224/11-A 04/03/2013 11:18		CCB 240-80224/11-A 04/03/2013 11:37		CCB 240-80224/11-A 04/03/2013 11:50	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-70234/6 04/27/2013 22:28		CCB1 180-70234/13 04/27/2013 23:31		CCB2 180-70234/25 04/28/2013 01:09		CCB3 180-70234/37 04/28/2013 02:47	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	5.0	U	5.0	U	5.0	U
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.15	U	0.15	U	0.15	U
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	20	U	20	U	20	U	20	U
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.050	U	0.050	U
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	20	U	20	U
Lead	1.0	0.30	U	0.30	U	0.245	J	0.30	U
Magnesium	100	22	U	22	U	22	U	22	U
Manganese	5.0	0.30	U	0.30	U	0.283	J	0.30	U
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	34.0	J	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB4 180-70234/49 04/28/2013 04:26		CCB5 180-70234/61 04/28/2013 06:04		CCB6 180-70234/65 04/28/2013 06:37		CCB7 180-70234/77 04/28/2013 08:16	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	5.0	U	5.0	U	2.65	J
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.15	U	0.15	U	0.0980	J
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	20	U	20	U	20	U	20	U
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.050	U	0.050	U
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	20	U	20	U
Lead	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Magnesium	100	22	U	22	U	22	U	22	U
Manganese	5.0	0.290	J	0.906	J	0.746	J	1.37	J
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	55	U	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB8 180-70234/89 04/28/2013 09:55		CCB9 180-70234/97 04/28/2013 11:01		CCB10 180-70234/101 04/28/2013 11:34		CCB11 180-70234/113 04/28/2013 15:15	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	2.62	J	3.50	J	3.53	J	5.0	U
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.100	J	0.15	U	0.15	U
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	20	U	20	U	20	U	20	U
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.050	U	0.050	U
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	20	U	20	U
Lead	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Magnesium	100	22	U	22	U	22	U	22	U
Manganese	5.0	1.07	J	1.24	J	1.26	J	0.424	J
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	55	U	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB12 180-70234/116 04/28/2013 15:40							
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U						
Antimony	2.0	0.90	U						
Arsenic	1.0	0.50	U						
Barium	10	0.15	U						
Beryllium	1.0	0.090	U						
Cadmium	1.0	0.30	U						
Calcium	100	20	U						
Chromium	2.0	1.0	U						
Cobalt	0.50	0.050	U						
Copper	2.0	0.50	U						
Iron	50	20	U						
Lead	1.0	0.30	U						
Magnesium	100	22	U						
Manganese	5.0	0.471	J						
Nickel	1.0	0.35	U						
Potassium	100	60	U						
Selenium	5.0	1.0	U						
Silver	1.0	0.20	U						
Sodium	100	55	U						
Thallium	1.0	0.20	U						
Vanadium	1.0	0.60	U						
Zinc	5.0	2.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-79493/1-A

Instrument Code: H1 Batch No.: 79644

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-79941/1-A

Instrument Code: H1 Batch No.: 80366

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-80130/1-A

Instrument Code: H1 Batch No.: 80366

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-80281/1-A

Instrument Code: H1 Batch No.: 80457

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-68111/1-A

Instrument Code: M Batch No.: 70234

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.029	U	Q	6020_DoD
7429-90-5	Aluminum	0.58	U		6020_DoD
7440-38-2	Arsenic	0.049	U		6020_DoD
7440-39-3	Barium	0.019	U	Q	6020_DoD
7440-41-7	Beryllium	0.0097	U		6020_DoD
7440-70-2	Calcium	2.4	U		6020_DoD
7440-43-9	Cadmium	0.029	U		6020_DoD
7440-47-3	Chromium	0.039	U		6020_DoD
7440-48-4	Cobalt	0.0097	U	Q	6020_DoD
7440-50-8	Copper	0.058	U	Q	6020_DoD
7439-89-6	Iron	1.9	U		6020_DoD
7439-95-4	Magnesium	1.9	U		6020_DoD
7439-96-5	Manganese	0.029	U	Q	6020_DoD
7440-23-5	Sodium	4.67	J		6020_DoD
7440-02-0	Nickel	0.029	U		6020_DoD
7439-92-1	Lead	0.029	U	Q	6020_DoD
7440-36-0	Antimony	0.097	U		6020_DoD
7440-28-0	Thallium	0.019	U		6020_DoD
7440-62-2	Vanadium	0.058	U		6020_DoD
7440-66-6	Zinc	0.0689	J	Q	6020_DoD
7440-09-7	Potassium	5.8	U		6020_DoD
7782-49-2	Selenium	0.097	U		6020_DoD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-68272/1-A

Instrument Code: M Batch No.: 70234

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.028	U	Q	6020_DoD
7429-90-5	Aluminum	0.55	U		6020_DoD
7440-38-2	Arsenic	0.0240	J		6020_DoD
7440-39-3	Barium	0.018	U	Q	6020_DoD
7440-41-7	Beryllium	0.0092	U		6020_DoD
7440-70-2	Calcium	2.3	U		6020_DoD
7440-43-9	Cadmium	0.028	U		6020_DoD
7440-47-3	Chromium	0.037	U		6020_DoD
7440-48-4	Cobalt	0.0092	U	Q	6020_DoD
7440-50-8	Copper	0.055	U	Q	6020_DoD
7439-89-6	Iron	1.8	U		6020_DoD
7439-95-4	Magnesium	1.8	U		6020_DoD
7439-96-5	Manganese	0.028	U	Q	6020_DoD
7440-23-5	Sodium	3.06	J		6020_DoD
7440-02-0	Nickel	0.028	U		6020_DoD
7439-92-1	Lead	0.028	U	Q	6020_DoD
7440-36-0	Antimony	0.092	U		6020_DoD
7440-28-0	Thallium	0.018	U		6020_DoD
7440-62-2	Vanadium	0.055	U		6020_DoD
7440-66-6	Zinc	0.0757	J	Q	6020_DoD
7440-09-7	Potassium	5.5	U		6020_DoD
7782-49-2	Selenium	0.092	U		6020_DoD

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Lab Sample ID: ICSA 180-70234/8 Instrument ID: M

Lab File ID: M30427A.xml ICS Source: MICSAX_00029

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100000**	**100200**	**100**
Antimony		**0.266**	
Arsenic		**0.112**	
Barium		**0.378**	
Beryllium		**-0.0020**	
Cadmium		**0.206**	
Calcium	**100000**	**108300**	**108**
Chromium		**0.0560**	
Cobalt		**0.0770**	
Copper		**1.46**	
Iron	**100000**	**107000**	**107**
Lead		**0.486**	
Magnesium	**100000**	**103500**	**104**
Manganese		**0.454**	
Nickel		**-0.0980**	
Potassium	**100000**	**106100**	**106**
Selenium		**0.0370**	
Silver		**0.844**	
Sodium	**100000**	**105200**	**105**
Thallium		**0.0210**	
Vanadium		**-0.409**	
Zinc		**3.42**	
Boron		*-0.146*	
Molybdenum	*2000*	*2309*	*115*
Silicon		*26.0*	
Strontium		*4.97*	
Tin		*0.178*	
Titanium	*2000*	*2313*	*116*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Lab Sample ID: ICSAB 180-70234/9 Instrument ID: M

Lab File ID: M30427A.xml ICS Source: MICSABX_00033

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100000**	**96407**	**96**
Antimony	**20.0**	**20.3**	**102**
Arsenic	**20.0**	**21.4**	**107**
Barium	**20.0**	**21.0**	**105**
Beryllium	**20.0**	**19.9**	**100**
Cadmium	**20.0**	**20.4**	**102**
Calcium	**100000**	**105733**	**106**
Chromium	**20.0**	**20.0**	**100**
Cobalt	**20.0**	**20.0**	**100**
Copper	**20.0**	**20.9**	**104**
Iron	**100000**	**104033**	**104**
Lead	**20.0**	**21.2**	**106**
Magnesium	**100000**	**100260**	**100**
Manganese	**22.5**	**21.2**	**94**
Nickel	**20.0**	**19.3**	**97**
Potassium	**100000**	**102633**	**103**
Selenium	**50.0**	**51.6**	**103**
Silver	**20.0**	**21.3**	**106**
Sodium	**100000**	**101823**	**102**
Thallium	**20.0**	**20.8**	**104**
Vanadium	**20.0**	**20.2**	**101**
Zinc	**25.0**	**22.9**	**92**
Boron	*50.0*	*45.9*	*92*
Molybdenum	*2000*	*2234*	*112*
Silicon	*500*	*508*	*102*
Strontium	*25.0*	*26.0*	*104*
Tin	*100*	*102*	*102*
Titanium	*2000*	*2243*	*112*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0267M-0001-SO MS Lab ID: 240-22281-20 MS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.180		0.023	J	0.175	90	80-120		7471/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0298M-0001-SO MS Lab ID: 240-22281-40 MS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.199		0.015	J	0.179	103	80-120		7471/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0324M-0001-SO MS
Lab ID: 240-22281-3 MS
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.34		0.011	J	4.95	88	75-125	Q	6020/DOD
Aluminum	10500		6800		198	1866	70-130	4	6020/DOD
Arsenic	9.42		6.5		3.96	73	23-131		6020/DOD
Barium	234		54		198	91	10-199	Q	6020/DOD
Beryllium	4.77		0.43		4.95	88	58-112		6020/DOD
Calcium	5000		640		4950	88	70-130		6020/DOD
Cadmium	4.21		0.11		4.95	83	58-110		6020/DOD
Chromium	30.5		9.7		19.8	105	10-199		6020/DOD
Cobalt	52.4		8.3		49.5	89	55-110	Q	6020/DOD
Copper	32.8		11		24.8	87	10-199	Q	6020/DOD
Iron	17500		18000		99.0	-631	70-130	4	6020/DOD
Magnesium	6470		1700		4950	96	70-130		6020/DOD
Manganese	975		880		49.5	193	10-199	Q 4	6020/DOD
Sodium	4680		35		4950	94	70-130		6020/DOD
Nickel	61.1		16		49.5	91	10-176		6020/DOD
Lead	10.1		8.2		1.98	97	10-199	Q 4	6020/DOD
Antimony	19.2		0.10	U	49.5	39	75-125	J	6020/DOD
Thallium	4.60		0.11		4.95	91	82-110		6020/DOD
Vanadium	61.3		11		49.5	101	39-129		6020/DOD
Zinc	70.0		32		49.5	77	10-199	Q	6020/DOD
Potassium	5570		680		4950	99	70-130		6020/DOD
Selenium	0.710		0.10	J	0.990	61	39-116		6020/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0271M-0001-SO MS Lab ID: 240-22281-25 MS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.39		0.015	J	4.90	89	75-125	Q	6020/DOD
Aluminum	7030		3700		196	1695	70-130	4	6020/DOD
Arsenic	8.25		5.6		3.92	68	23-131		6020/DOD
Barium	205		27		196	91	10-199	Q	6020/DOD
Beryllium	4.58		0.24		4.90	88	58-112		6020/DOD
Calcium	5060		670		4900	89	70-130		6020/DOD
Cadmium	4.24		0.034	J	4.90	86	58-110		6020/DOD
Chromium	27.6		6.2		19.6	109	10-199		6020/DOD
Cobalt	47.2		2.3		49.0	92	55-110	Q	6020/DOD
Copper	25.8		2.9		24.5	94	10-199	Q	6020/DOD
Iron	6210		6100		98.0	88	70-130	4	6020/DOD
Magnesium	5380		640		4900	97	70-130		6020/DOD
Manganese	220		210		49.0	22	10-199	Q 4	6020/DOD
Sodium	4550		20		4900	92	70-130		6020/DOD
Nickel	52.7		5.9		49.0	95	10-176		6020/DOD
Lead	5.37		3.8		1.96	80	10-199	Q	6020/DOD
Antimony	25.7		0.099	U	49.0	52	75-125	J	6020/DOD
Thallium	4.47		0.049	J	4.90	90	82-110		6020/DOD
Vanadium	55.9		6.3		49.0	101	39-129		6020/DOD
Zinc	51.8		11		49.0	83	10-199	Q	6020/DOD
Potassium	5040		350		4900	96	70-130		6020/DOD
Selenium	0.810		0.058	J	0.980	77	39-116		6020/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 079SB-0324M-0001-SO MSD Lab ID: 240-22281-3 MSD

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Silver	4.19		4.85	86	75-125	4	20	Q	6020/DOD
Aluminum	11100		194	2243	70-130	6	20	4	6020/DOD
Arsenic	10.5		3.88	102	23-131	11	20		6020/DOD
Barium	249		194	101	10-199	6	20	Q	6020/DOD
Beryllium	4.74		4.85	89	58-112	1	20		6020/DOD
Calcium	5200		4850	94	70-130	4	20		6020/DOD
Cadmium	4.18		4.85	84	58-110	1	20		6020/DOD
Chromium	30.8		19.4	109	10-199	1	20		6020/DOD
Cobalt	53.1		48.5	92	55-110	1	20	Q	6020/DOD
Copper	32.9		24.3	89	10-199	0	20	Q	6020/DOD
Iron	20000		97.1	1907	70-130	13	20	4	6020/DOD
Magnesium	6480		4850	98	70-130	0	20		6020/DOD
Manganese	2330		48.5	2995	10-199	82	20	D Q 4 J	6020/DOD
Sodium	4560		4850	93	70-130	2	20		6020/DOD
Nickel	61.5		48.5	94	10-176	1	20		6020/DOD
Lead	11.1		1.94	150	10-199	9	20	Q 4	6020/DOD
Antimony	17.3		48.5	36	75-125	10	20	J	6020/DOD
Thallium	4.51		4.85	91	82-110	2	20		6020/DOD
Vanadium	61.1		48.5	103	39-129	0	20		6020/DOD
Zinc	70.7		48.5	80	10-199	1	20	Q	6020/DOD
Potassium	5500		4850	99	70-130	1	20		6020/DOD
Selenium	0.719		0.971	63	39-116	1	20		6020/DOD

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 079SB-0271M-0001-SO MSD
Lab ID: 240-22281-25 MSD
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22281-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Silver	4.46		4.95	90	75-125	2	20	Q	6020/DOD
Aluminum	7050		198	1687	70-130	0	20	4	6020/DOD
Arsenic	8.59		3.96	76	23-131	4	20		6020/DOD
Barium	208		198	92	10-199	2	20	Q	6020/DOD
Beryllium	4.62		4.95	88	58-112	1	20		6020/DOD
Calcium	5100		4950	89	70-130	1	20		6020/DOD
Cadmium	4.25		4.95	85	58-110	0	20		6020/DOD
Chromium	28.0		19.8	110	10-199	1	20		6020/DOD
Cobalt	48.1		49.5	92	55-110	2	20	Q	6020/DOD
Copper	26.2		24.8	94	10-199	2	20	Q	6020/DOD
Iron	6470		99.0	352	70-130	4	20	4	6020/DOD
Magnesium	5470		4950	98	70-130	2	20		6020/DOD
Manganese	215		49.5	11	10-199	2	20	Q 4	6020/DOD
Sodium	4700		4950	95	70-130	3	20		6020/DOD
Nickel	53.2		49.5	96	10-176	1	20		6020/DOD
Lead	5.63		1.98	92	10-199	5	20	Q	6020/DOD
Antimony	27.7		49.5	56	75-125	7	20	J	6020/DOD
Thallium	4.61		4.95	92	82-110	3	20		6020/DOD
Vanadium	57.8		49.5	104	39-129	3	20		6020/DOD
Zinc	52.2		49.5	83	10-199	1	20	Q	6020/DOD
Potassium	5210		4950	98	70-130	3	20		6020/DOD
Selenium	0.845		0.990	80	39-116	4	20		6020/DOD

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0324M-0001-SO PDS Lab ID: 240-22281-3 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.15		0.011	J	5.00	103	80-120	Q	6020/DOD
Aluminum	6710		6800		200	-43	80-120		6020/DOD
Arsenic	9.87		6.5		4.00	84	80-120		6020/DOD
Barium	239		54		200	92	80-120	Q	6020/DOD
Beryllium	5.11		0.43		5.00	94	80-120		6020/DOD
Calcium	5480		640		5000	97	80-120		6020/DOD
Cadmium	4.73		0.11		5.00	92	80-120		6020/DOD
Chromium	29.4		9.7		20.0	99	80-120		6020/DOD
Cobalt	58.7		8.3		50.0	101	80-120	Q	6020/DOD
Copper	36.1		11		25.0	99	80-120	Q	6020/DOD
Iron	17600		18000		100	-480	80-120		6020/DOD
Magnesium	6630		1700		5000	99	80-120		6020/DOD
Manganese	903		880		50.0	48	80-120	Q	6020/DOD
Sodium	5090		35		5000	101	80-120		6020/DOD
Nickel	66.3		16		50.0	100	80-120		6020/DOD
Lead	10.1		8.2		2.00	92	80-120	Q	6020/DOD
Antimony	44.3		0.10	U	50.0	89	80-120		6020/DOD
Thallium	5.20		0.11		5.00	102	80-120		6020/DOD
Vanadium	60.6		11		50.0	99	80-120		6020/DOD
Zinc	73.7		32		50.0	84	80-120	Q	6020/DOD
Potassium	5460		680		5000	96	80-120		6020/DOD
Selenium	0.960		0.10	J	1.00	86	80-120		6020/DOD

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0271M-0001-SO PDS Lab ID: 240-22281-25 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.21		0.015	J	4.95	105	80-120	Q	6020/DOD
Aluminum	3830		3700		198	62	80-120		6020/DOD
Arsenic	9.27		5.6		3.96	93	80-120		6020/DOD
Barium	221		27		198	98	80-120	Q	6020/DOD
Beryllium	5.12		0.24		4.95	99	80-120		6020/DOD
Calcium	5610		670		4950	100	80-120		6020/DOD
Cadmium	4.79		0.034	J	4.95	96	80-120		6020/DOD
Chromium	26.2		6.2		19.8	101	80-120		6020/DOD
Cobalt	53.2		2.3		49.5	103	80-120	Q	6020/DOD
Copper	28.6		2.9		24.8	104	80-120	Q	6020/DOD
Iron	6140		6100		99.0	14	80-120		6020/DOD
Magnesium	5700		640		4950	102	80-120		6020/DOD
Manganese	258		210		49.5	97	80-120	Q	6020/DOD
Sodium	5110		20		4950	103	80-120		6020/DOD
Nickel	57.2		5.9		49.5	104	80-120		6020/DOD
Lead	5.83		3.8		1.98	102	80-120	Q	6020/DOD
Antimony	46.1		0.099	U	49.5	93	80-120		6020/DOD
Thallium	5.05		0.049	J	4.95	101	80-120		6020/DOD
Vanadium	57.2		6.3		49.5	103	80-120		6020/DOD
Zinc	54.8		11		49.5	88	80-120	Q	6020/DOD
Potassium	5250		350		4950	99	80-120		6020/DOD
Selenium	0.982		0.058	J	0.990	93	80-120		6020/DOD

SSR = Spiked Sample Result

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

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0267M-0001-SO DU Lab ID: 240-22281-20 DU

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.11	0.023	J	0.035	U	NC		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0298M-0001-SO DU Lab ID: 240-22281-40 DU

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.11	0.015	J	0.0158	J	5		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0324M-0001-SO DU Lab ID: 240-22281-3 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.099	0.011	J	0.030	U	NC	Q	6020/DOD
Aluminum	3.0	6800		6650		2		6020/DOD
Arsenic	0.099	6.5		6.47		0.8		6020/DOD
Barium	0.99	54		60.6		12	Q	6020/DOD
Beryllium	0.099	0.43		0.478		11		6020/DOD
Calcium	9.9	640		716		12		6020/DOD
Cadmium	0.099	0.11		0.114		5		6020/DOD
Chromium	0.20	9.7		9.45		2		6020/DOD
Cobalt	0.050	8.3		8.64		4	Q	6020/DOD
Copper	0.20	11		11.2		0.7	Q	6020/DOD
Iron	5.0	18000		19000		5		6020/DOD
Magnesium	9.9	1700		1640		3		6020/DOD
Manganese	0.50	880		875		0.5	Q	6020/DOD
Sodium	9.9	35		35.8		1		6020/DOD
Nickel	0.099	16		16.4		2		6020/DOD
Lead	0.099	8.2		8.40		2	Q	6020/DOD
Antimony	0.20	0.10	U	0.099	U	NC		6020/DOD
Thallium	0.099	0.11		0.109		4		6020/DOD
Vanadium	0.099	11		11.1		0.4		6020/DOD
Zinc	0.50	32		31.7		0.2	Q	6020/DOD
Potassium	9.9	680		652		4		6020/DOD
Selenium	0.50	0.10	J	0.146	J	33		6020/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0271M-0001-SO DU Lab ID: 240-22281-25 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.096	0.015	J	0.0136	J	7	Q	6020/DOD
Aluminum	2.9	3700		3390		9		6020/DOD
Arsenic	0.096	5.6		5.20		7		6020/DOD
Barium	0.96	27		24.9		7	Q	6020/DOD
Beryllium	0.096	0.24		0.231		5		6020/DOD
Calcium	9.6	670		698		4		6020/DOD
Cadmium	0.096	0.034	J	0.0304	J	12		6020/DOD
Chromium	0.19	6.2		5.96		3		6020/DOD
Cobalt	0.048	2.3		2.03		13	Q	6020/DOD
Copper	0.19	2.9		2.88		0.7	Q	6020/DOD
Iron	4.8	6100		5720		7		6020/DOD
Magnesium	9.6	640		618		3		6020/DOD
Manganese	0.48	210		206		2	Q	6020/DOD
Sodium	9.6	20		20.1		1		6020/DOD
Nickel	0.096	5.9		5.62		4		6020/DOD
Lead	0.096	3.8		3.35		13	Q	6020/DOD
Antimony	0.19	0.099	U	0.096	U	NC		6020/DOD
Thallium	0.096	0.049	J	0.0462	J	7		6020/DOD
Vanadium	0.096	6.3		5.79		9		6020/DOD
Zinc	0.48	11		10.6		6	Q	6020/DOD
Potassium	9.6	350		326		6		6020/DOD
Selenium	0.48	0.058	J	0.0872	J	41		6020/DOD

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-79493/2-A

Lab Name: TestAmerica Canton Job No.: 240-22281-1

Sample Matrix: Solid LCS Source: MTHGCALW_00338

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.888		107	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-79941/2-A

Lab Name: TestAmerica Canton Job No.: 240-22281-1

Sample Matrix: Solid LCS Source: MTHGCALW_00342

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.822		99	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-80130/2-A

Lab Name: TestAmerica Canton Job No.: 240-22281-1

Sample Matrix: Solid LCS Source: MTHGCALW_00343

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.810		97	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-80281/2-A

Lab Name: TestAmerica Canton Job No.: 240-22281-1

Sample Matrix: Solid LCS Source: MTHGCALW_00345

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.871		105	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-68111/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.59	4.21		92	60	114	Q	6020/DOD
Aluminum	183	168		92	80	120		6020/DOD
Arsenic	3.67	3.11		85	73	110		6020/DOD
Barium	183	164		90	70	110	Q	6020/DOD
Beryllium	4.59	3.92		85	79	110		6020/DOD
Calcium	4590	4450		97	80	120		6020/DOD
Cadmium	4.59	3.96		86	74	110		6020/DOD
Chromium	18.3	18.1		99	70	110		6020/DOD
Cobalt	45.9	46.1		100	74	110	Q	6020/DOD
Copper	22.9	23.6		103	73	110	Q	6020/DOD
Iron	91.7	96.5		105	80	120		6020/DOD
Magnesium	4590	4290		93	80	120		6020/DOD
Manganese	45.9	42.9		94	80	120	Q	6020/DOD
Sodium	4590	4300		94	80	120		6020/DOD
Nickel	45.9	47.1		103	75	110		6020/DOD
Lead	1.83	1.68		92	75	110	Q	6020/DOD
Antimony	45.9	39.7		86	68	113		6020/DOD
Thallium	4.59	4.14		90	71	110		6020/DOD
Vanadium	45.9	45.0		98	72	110		6020/DOD
Zinc	45.9	39.4		86	72	113	Q	6020/DOD
Potassium	4590	4320		94	80	120		6020/DOD
Selenium	0.917	0.757		83	65	110		6020/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-68272/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.90	4.34		89	60	114	Q	6020/DOD
Aluminum	196	182		93	80	120		6020/DOD
Arsenic	3.92	3.27		83	73	110		6020/DOD
Barium	196	179		91	70	110	Q	6020/DOD
Beryllium	4.90	4.32		88	79	110		6020/DOD
Calcium	4900	4570		93	80	120		6020/DOD
Cadmium	4.90	4.24		86	74	110		6020/DOD
Chromium	19.6	19.0		97	70	110		6020/DOD
Cobalt	49.0	48.6		99	74	110	Q	6020/DOD
Copper	24.5	24.9		102	73	110	Q	6020/DOD
Iron	98.0	99.2		101	80	120		6020/DOD
Magnesium	4900	4570		93	80	120		6020/DOD
Manganese	49.0	44.1		90	80	120	Q	6020/DOD
Sodium	4900	4600		94	80	120		6020/DOD
Nickel	49.0	49.6		101	75	110		6020/DOD
Lead	1.96	1.84		94	75	110	Q	6020/DOD
Antimony	49.0	41.7		85	68	113		6020/DOD
Thallium	4.90	4.51		92	71	110		6020/DOD
Vanadium	49.0	47.5		97	72	110		6020/DOD
Zinc	49.0	40.6		83	72	113	Q	6020/DOD
Potassium	4900	4540		93	80	120		6020/DOD
Selenium	0.980	0.827		84	65	110		6020/DOD

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-22281-3

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22281-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.011	J	0.15	U	NC	Q	6020/DOD
Aluminum	6800		6860		1.0	D	6020/DOD
Arsenic	6.5		6.76		3.6	D	6020/DOD
Barium	54		55.5		2.8	D Q	6020/DOD
Beryllium	0.43		0.474	J	11	D V	6020/DOD
Calcium	640		650		2.1	D	6020/DOD
Cadmium	0.11		0.0970	J	NC	D	6020/DOD
Chromium	9.7		9.69		0.27	D	6020/DOD
Cobalt	8.3		8.30		0.49	D Q	6020/DOD
Copper	11		11.6		3.0	D Q	6020/DOD
Iron	18000		18100		0.17	D	6020/DOD
Magnesium	1700		1610		5.1	D	6020/DOD
Manganese	880		867		1.4	D Q	6020/DOD
Sodium	35		52.1		NC	D	6020/DOD
Nickel	16		16.4		2.0	D	6020/DOD
Lead	8.2		8.16		0.63	D Q	6020/DOD
Antimony	0.10	U	0.50	U	NC		6020/DOD
Thallium	0.11		0.113	J	NC	D	6020/DOD
Vanadium	11		11.1		0.77	D	6020/DOD
Zinc	32		35.4		12	D Q V	6020/DOD
Potassium	680		686		0.70	D	6020/DOD
Selenium	0.10	J	0.50	U	NC		6020/DOD

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-22281-25

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22281-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.015	J	0.15	U	NC	Q	6020/DOD
Aluminum	3700		3800		2.5	D	6020/DOD
Arsenic	5.6		6.29		12	V D	6020/DOD
Barium	27		27.1		1.6	Q D	6020/DOD
Beryllium	0.24		0.271	J	NC	D	6020/DOD
Calcium	670		683		1.9	D	6020/DOD
Cadmium	0.034	J	0.15	U	NC		6020/DOD
Chromium	6.2		6.23		1.3	D	6020/DOD
Cobalt	2.3		2.36		2.4	Q D	6020/DOD
Copper	2.9		3.05		4.9	Q D	6020/DOD
Iron	6100		6280		2.6	D	6020/DOD
Magnesium	640		660		3.8	D	6020/DOD
Manganese	210		203		3.1	Q D	6020/DOD
Sodium	20		33.0	J	NC	D	6020/DOD
Nickel	5.9		6.15		5.0	D	6020/DOD
Lead	3.8		3.72		2.5	Q D	6020/DOD
Antimony	0.099	U	0.50	U	NC		6020/DOD
Thallium	0.049	J	0.099	U	NC		6020/DOD
Vanadium	6.3		6.47		2.2	D	6020/DOD
Zinc	11		12.9		16	Q V D	6020/DOD
Potassium	350		328		5.3	D	6020/DOD
Selenium	0.058	J	0.50	U	NC		6020/DOD

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Leach Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD DL Date: 01/26/2010 16:34

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Aluminum	27	3	0.2849
Antimony	121	0.2	0.0459
Arsenic	75	0.1	0.0181
Barium	137	1	0.0107
Beryllium	9	0.1	0.0075
Cadmium	111	0.1	0.0132
Calcium	44	10	1.326
Chromium	52	0.2	0.0223
Cobalt	59	0.05	0.0024
Copper	65	0.2	0.033
Iron	56	5	1.077
Lead	208	0.1	0.0154
Magnesium	26	10	1.079
Manganese	55	0.5	0.0159
Nickel	60	0.1	0.0113
Potassium	39	10	3.155
Selenium	82	0.5	0.0509
Silver	107	0.1	0.0114
Sodium	23	10	2.658
Thallium	205	0.1	0.0102
Vanadium	51	0.1	0.0299
Zinc	66	0.5	0.0648

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD XMDL Date: 01/26/2010 16:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27	30	2.5662
Antimony	121	2	0.459
Arsenic	75	1	0.2908
Barium	137	10	0.098
Beryllium	9	1	0.0451
Cadmium	111	1	0.132
Calcium	44	100	9.357
Chromium	52	2	0.5433
Cobalt	59	0.5	0.0263
Copper	65	2	0.2443
Iron	56	50	10.77
Lead	208	1	0.154
Magnesium	26	100	10.8
Manganese	55	5	0.159
Nickel	60	1	0.1749
Potassium	39	100	31.6
Selenium	82	5	0.509
Silver	107	1	0.114
Sodium	23	100	26.8
Thallium	205	1	0.102
Vanadium	51	1	0.299
Zinc	66	5	0.9609

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-22281-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7471/DOD

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 240-22281-1

SDG No.:

Instrument ID: M Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2500	6020/DOD
Aluminum		450000	6020/DOD
Arsenic		4500	6020/DOD
Barium		13500	6020/DOD
Beryllium		9000	6020/DOD
Calcium		1500000	6020/DOD
Cadmium		13500	6020/DOD
Chromium		13500	6020/DOD
Cobalt		13500	6020/DOD
Copper		20000	6020/DOD
Iron		450000	6020/DOD
Magnesium		1500000	6020/DOD
Manganese		25000	6020/DOD
Sodium		450000	6020/DOD
Nickel		13500	6020/DOD
Lead		20000	6020/DOD
Antimony		13500	6020/DOD
Thallium		13500	6020/DOD
Vanadium		13500	6020/DOD
Zinc		25000	6020/DOD
Potassium		450000	6020/DOD
Selenium		4500	6020/DOD

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-79493/1-A	03/26/2013 14:25	79493	0.60		100
LCS 240-79493/2-A	03/26/2013 14:25	79493	0.60		100
240-22281-12	03/26/2013 14:25	79493	0.63		100
240-22281-13	03/26/2013 14:25	79493	0.58		100
240-22281-14	03/26/2013 14:25	79493	0.54		100
240-22281-15	03/26/2013 14:25	79493	0.54		100
240-22281-16	03/26/2013 14:25	79493	0.61		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-79941/1-A	03/29/2013 14:30	79941	0.60		100
LCS 240-79941/2-A	03/29/2013 14:30	79941	0.60		100
240-22281-1	03/29/2013 14:30	79941	0.59		100
240-22281-3	03/29/2013 14:30	79941	0.54		100
240-22281-4	03/29/2013 14:30	79941	0.63		100
240-22281-6	03/29/2013 14:30	79941	0.57		100
240-22281-7	03/29/2013 14:30	79941	0.56		100
240-22281-8	03/29/2013 14:30	79941	0.67		100
240-22281-9	03/29/2013 14:30	79941	0.54		100
240-22281-10	03/29/2013 14:30	79941	0.52		100
240-22281-11	03/29/2013 14:30	79941	0.53		100
240-22281-17	03/29/2013 14:30	79941	0.61		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-80130/1-A	04/01/2013 16:25	80130	0.60		100
LCS 240-80130/2-A	04/01/2013 16:25	80130	0.60		100
240-22281-20	04/01/2013 16:25	80130	0.57		100
240-22281-20 DU	04/01/2013 16:25	80130	0.57		100
240-22281-20 MS	04/01/2013 16:25	80130	0.57		100
240-22281-22	04/01/2013 16:25	80130	0.59		100
240-22281-23	04/01/2013 16:25	80130	0.51		100
240-22281-25	04/01/2013 16:25	80130	0.57		100
240-22281-26	04/01/2013 16:25	80130	0.53		100
240-22281-27	04/01/2013 16:25	80130	0.58		100
240-22281-28	04/01/2013 16:25	80130	0.55		100
240-22281-29	04/01/2013 16:25	80130	0.62		100
240-22281-30	04/01/2013 16:25	80130	0.57		100
240-22281-31	04/01/2013 16:25	80130	0.56		100
240-22281-32	04/01/2013 16:25	80130	0.55		100
240-22281-33	04/01/2013 16:25	80130	0.63		100
240-22281-34	04/01/2013 16:25	80130	0.57		100
240-22281-35	04/01/2013 16:25	80130	0.61		100
240-22281-36	04/01/2013 16:25	80130	0.53		100
240-22281-37	04/01/2013 16:25	80130	0.54		100
240-22281-38	04/01/2013 16:25	80130	0.52		100
240-22281-39	04/01/2013 16:25	80130	0.56		100
240-22281-18	04/01/2013 16:25	80130	0.60		100
240-22281-19	04/01/2013 16:25	80130	0.60		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-80281/1-A	04/02/2013 15:00	80281	0.60		100
LCS 240-80281/2-A	04/02/2013 15:00	80281	0.60		100
240-22281-40	04/02/2013 15:00	80281	0.56		100
240-22281-40 DU	04/02/2013 15:00	80281	0.56		100
240-22281-40 MS	04/02/2013 15:00	80281	0.56		100
240-22281-41	04/02/2013 15:00	80281	0.56		100
240-22281-42	04/02/2013 15:00	80281	0.54		100
240-22281-43	04/02/2013 15:00	80281	0.54		100
240-22281-44	04/02/2013 15:00	80281	0.60		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-68111/1-A	04/03/2013 10:33	68111	00001.03		100
LCS 180-68111/2-A	04/03/2013 10:33	68111	00001.09		100
240-22281-1	04/03/2013 10:33	68111	00001.03		100
240-22281-3	04/03/2013 10:33	68111	00001.00		100
240-22281-3 DU	04/03/2013 10:33	68111	00001.01		100
240-22281-3 MS	04/03/2013 10:33	68111	00001.01		100
240-22281-3 MSD	04/03/2013 10:33	68111	00001.03		100
240-22281-4	04/03/2013 10:33	68111	00001.02		100
240-22281-6	04/03/2013 10:33	68111	00001.03		100
240-22281-7	04/03/2013 10:33	68111	00001.04		100
240-22281-8	04/03/2013 10:33	68111	00001.01		100
240-22281-9	04/03/2013 10:33	68111	00001.02		100
240-22281-10	04/03/2013 10:33	68111	00001.03		100
240-22281-11	04/03/2013 10:33	68111	00001.00		100
240-22281-12	04/03/2013 10:33	68111	00001.03		100
240-22281-13	04/03/2013 10:33	68111	00001.03		100
240-22281-14	04/03/2013 10:33	68111	00001.04		100
240-22281-15	04/03/2013 10:33	68111	00001.01		100
240-22281-16	04/03/2013 10:33	68111	00001.02		100
240-22281-17	04/03/2013 10:33	68111	00001.01		100
240-22281-18	04/03/2013 10:33	68111	00001.03		100
240-22281-19	04/03/2013 10:33	68111	00001.03		100
240-22281-20	04/03/2013 10:33	68111	00001.01		100
240-22281-22	04/03/2013 10:33	68111	00001.01		100
240-22281-23	04/03/2013 10:33	68111	00001.01		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-68272/1-A	04/04/2013 10:41	68272	00001.09		100
LCS 180-68272/2-A	04/04/2013 10:41	68272	00001.02		100
240-22281-25	04/04/2013 10:41	68272	00001.01		100
240-22281-25 DU	04/04/2013 10:41	68272	00001.04		100
240-22281-25 MS	04/04/2013 10:41	68272	00001.02		100
240-22281-25 MSD	04/04/2013 10:41	68272	00001.01		100
240-22281-26	04/04/2013 10:41	68272	00001.00		100
240-22281-27	04/04/2013 10:41	68272	00001.00		100
240-22281-28	04/04/2013 10:41	68272	00001.01		100
240-22281-29	04/04/2013 10:41	68272	00001.02		100
240-22281-30	04/04/2013 10:41	68272	00001.04		100
240-22281-31	04/04/2013 10:41	68272	00001.02		100
240-22281-32	04/04/2013 10:41	68272	00001.02		100
240-22281-33	04/04/2013 10:41	68272	00001.01		100
240-22281-34	04/04/2013 10:41	68272	00001.01		100
240-22281-35	04/04/2013 10:41	68272	00001.00		100
240-22281-36	04/04/2013 10:41	68272	00001.03		100
240-22281-37	04/04/2013 10:41	68272	00001.01		100
240-22281-38	04/04/2013 10:41	68272	00001.00		100
240-22281-39	04/04/2013 10:41	68272	00001.00		100
240-22281-40	04/04/2013 10:41	68272	00001.01		100
240-22281-41	04/04/2013 10:41	68272	00001.03		100
240-22281-42	04/04/2013 10:41	68272	00001.02		100
240-22281-43	04/04/2013 10:41	68272	00001.05		100
240-22281-44	04/04/2013 10:41	68272	00001.00		100

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
STD01REP1 240-79644/1 IC			09:09	X																				
STD02REP1 240-79644/2 IC			09:10	X																				
STD03REP1 240-79644/3 IC			09:12	X																				
STD04REP1 240-79644/4 IC			09:14	X																				
STD05REP1 240-79644/5 IC			09:15	X																				
STD06REP1 240-79644/6 IC			09:17	X																				
ZZZZZZ			09:21																					
IC 240-79547/1-A			09:24	X																				
IC 240-79547/2-A			09:26	X																				
IC 240-79547/3-A			09:28	X																				
IC 240-79547/4-A			09:29	X																				
IC 240-79547/5-A			09:31	X																				
IC 240-79547/6-A			09:33	X																				
ICV 240-79547/7-A	1		09:34	X																				
ICB 240-79547/8-A	1		09:36	X																				
CRA 240-79547/9-A			09:37																					
CRA 240-79547/9-A	1		09:41	X																				
CCV 240-79547/10-A	1		09:45	X																				
CCB 240-79547/11-A	1		09:47	X																				
MB 240-79493/1-A	1	T	09:48	X																				
LCS 240-79493/2-A	1	T	09:50	X																				
ZZZZZZ			09:51																					
ZZZZZZ			09:53																					
ZZZZZZ			09:54																					
ZZZZZZ			09:56																					
ZZZZZZ			09:57																					
ZZZZZZ			09:58																					
ZZZZZZ			10:00																					
ZZZZZZ			10:01																					
CCV 240-79547/10-A	1		10:03	X																				
CCB 240-79547/11-A	1		10:05	X																				
ZZZZZZ			10:06																					
ZZZZZZ			10:07																					
ZZZZZZ			10:09																					
ZZZZZZ			10:10																					
ZZZZZZ			10:12																					
ZZZZZZ			10:13																					
ZZZZZZ			10:15																					
ZZZZZZ			10:16																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			10:18																					
240-22281-12	1	T	10:20	X																				
CCV 240-79547/10-A	1		10:21	X																				
CCB 240-79547/11-A	1		10:23	X																				
240-22281-13	1	T	10:24	X																				
240-22281-14	1	T	10:26	X																				
240-22281-15	1	T	10:27	X																				
240-22281-16	1	T	10:28	X																				
CRA 240-79547/9-A	1		10:30	X																				
ZZZZZZ			10:31																					
ZZZZZZ			10:33																					
ZZZZZZ			10:34																					
ZZZZZZ			10:36																					
ZZZZZZ			10:37																					
CCV 240-79547/10-A	1		10:38	X																				
CCB 240-79547/11-A	1		10:41	X																				
ZZZZZZ			10:43																					
ZZZZZZ			10:44																					
ZZZZZZ			10:45																					
ZZZZZZ			10:47																					
ZZZZZZ			10:48																					
ZZZZZZ			10:50																					
ZZZZZZ			10:51																					
ZZZZZZ			10:53																					
ZZZZZZ			10:54																					
ZZZZZZ			10:56																					
CCV 240-79547/10-A			10:57																					
CCB 240-79547/11-A			10:58																					
ZZZZZZ			11:00																					
ZZZZZZ			11:01																					
ZZZZZZ			11:03																					
ZZZZZZ			11:05																					
ZZZZZZ			11:07																					
ZZZZZZ			11:08																					
ZZZZZZ			11:10																					
ZZZZZZ			11:11																					
ZZZZZZ			11:13																					
ZZZZZZ			11:15																					
CCV 240-79547/10-A			11:16																					
CCB 240-79547/11-A			11:18																					
ZZZZZZ			11:19																					
ZZZZZZ			11:21																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			11:23																				
ZZZZZZ			11:24																				
ZZZZZZ			11:25																				
ZZZZZZ			11:27																				
ZZZZZZ			11:29																				
ZZZZZZ			11:30																				
ZZZZZZ			11:31																				
ZZZZZZ			11:32																				
CCV 240-79547/10-A			11:34																				
CCB 240-79547/11-A			11:35																				
ZZZZZZ			11:37																				
ZZZZZZ			11:38																				
ZZZZZZ			11:40																				
ZZZZZZ			11:41																				
ZZZZZZ			11:43																				
CCV 240-79547/10-A			11:45																				
CCB 240-79547/11-A			11:46																				
CCV 240-79547/10-A			17:04																				
CCB 240-79547/11-A			17:05																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
ZZZZZZ			17:13																				
ZZZZZZ			17:15																				
ZZZZZZ			17:16																				
ZZZZZZ			17:18																				
ZZZZZZ			17:19																				
CCV 240-79547/10-A			17:21																				
CCB 240-79547/11-A			17:22																				
ZZZZZZ			17:23																				
ZZZZZZ			17:25																				
ZZZZZZ			17:27																				
ZZZZZZ			17:28																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:33																				
ZZZZZZ			17:34																				
ZZZZZZ			17:36																				
ZZZZZZ			17:37																				
CCV 240-79547/10-A			17:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 03/27/2013 09:09 End Date: 03/28/2013 12:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 240-79547/11-A			17:40																				
ZZZZZZ			17:41																				
ZZZZZZ			17:43																				
ZZZZZZ			17:44																				
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:49																				
ZZZZZZ			17:51																				
ZZZZZZ			17:52																				
ZZZZZZ			17:54																				
ZZZZZZ			17:56																				
CCV 240-79547/10-A			17:57																				
CCB 240-79547/11-A			17:59																				
ZZZZZZ			18:00																				
ZZZZZZ			18:01																				
ZZZZZZ			18:03																				
ZZZZZZ			18:04																				
ZZZZZZ			18:05																				
ZZZZZZ			18:07																				
ZZZZZZ			18:08																				
ZZZZZZ			18:09																				
ZZZZZZ			18:11																				
ZZZZZZ			18:12																				
CCV 240-79547/10-A			18:14																				
CCB 240-79547/11-A			18:15																				
ZZZZZZ			18:17																				
ZZZZZZ			18:18																				
ZZZZZZ			18:20																				
ZZZZZZ			18:21																				
ZZZZZZ			18:23																				
ZZZZZZ			18:24																				
ZZZZZZ			18:26																				
ZZZZZZ			18:27																				
CCV 240-79547/10-A			18:29																				
CCB 240-79547/11-A			18:30																				
CCV 240-79547/10-A			12:09																				
CCB 240-79547/11-A			12:10																				
CRA 240-79547/9-A			12:12																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 240-80224/1-A			11:51	X																			
IC 240-80224/2-A			11:52	X																			
IC 240-80224/3-A			11:53	X																			
IC 240-80224/4-A			11:54	X																			
IC 240-80224/5-A			11:56	X																			
IC 240-80224/6-A			11:57	X																			
ICV 240-80224/7-A	1		11:59	X																			
ICB 240-80224/8-A	1		12:00	X																			
CRA 240-80224/9-A	1		12:02	X																			
CCV 240-80224/10-A			12:04																				
CCB 240-80224/11-A			12:06																				
ZZZZZZ			12:08																				
ZZZZZZ			12:09																				
ZZZZZZ			12:10																				
ZZZZZZ			12:12																				
ZZZZZZ			12:13																				
ZZZZZZ			12:15																				
ZZZZZZ			12:16																				
ZZZZZZ			12:17																				
ZZZZZZ			12:19																				
ZZZZZZ			12:20																				
CCV 240-80224/10-A			12:22																				
CCB 240-80224/11-A			12:23																				
ZZZZZZ			12:24																				
ZZZZZZ			12:26																				
ZZZZZZ			12:27																				
ZZZZZZ			12:29																				
ZZZZZZ			12:31																				
ZZZZZZ			12:32																				
ZZZZZZ			12:34																				
ZZZZZZ			12:37																				
ZZZZZZ			12:39																				
ZZZZZZ			12:40																				
CCV 240-80224/10-A			12:41																				
CCB 240-80224/11-A			12:43																				
ZZZZZZ			12:44																				
ZZZZZZ			12:45																				
ZZZZZZ			12:47																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
ZZZZZZ			12:52																				
ZZZZZZ			12:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			12:55																				
ZZZZZZ			12:56																				
ZZZZZZ			12:58																				
CCV 240-80224/10-A			12:59																				
CCB 240-80224/11-A			13:01																				
ZZZZZZ			13:03																				
ZZZZZZ			13:05																				
ZZZZZZ			13:07																				
ZZZZZZ			13:08																				
ZZZZZZ			13:09																				
ZZZZZZ			13:11																				
ZZZZZZ			13:12																				
ZZZZZZ			13:13																				
ZZZZZZ			13:15																				
ZZZZZZ			13:17																				
CCV 240-80224/10-A			13:18																				
CCB 240-80224/11-A			13:19																				
ZZZZZZ			13:21																				
ZZZZZZ			13:22																				
ZZZZZZ			13:23																				
ZZZZZZ			13:25																				
CCV 240-80224/10-A			13:27																				
CCB 240-80224/11-A			13:28																				
ZZZZZZ			13:29																				
ZZZZZZ			13:31																				
ZZZZZZ			13:32																				
ZZZZZZ			13:34																				
ZZZZZZ			13:35																				
ZZZZZZ			13:36																				
ZZZZZZ			13:38																				
CCV 240-80224/10-A			13:40																				
CCB 240-80224/11-A			13:41																				
ZZZZZZ			13:43																				
ZZZZZZ			13:44																				
ZZZZZZ			13:46																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:50																				
ZZZZZZ			13:51																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
ZZZZZZ			13:57																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 240-80224/10-A			13:58																				
CCB 240-80224/11-A			13:59																				
ZZZZZZ			14:01																				
ZZZZZZ			14:02																				
ZZZZZZ			14:03																				
ZZZZZZ			14:04																				
ZZZZZZ			14:06																				
ZZZZZZ			14:07																				
ZZZZZZ			14:09																				
ZZZZZZ			14:10																				
ZZZZZZ			14:11																				
ZZZZZZ			14:12																				
CCV 240-80224/10-A	1		14:14	X																			
CCB 240-80224/11-A	1		14:15	X																			
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
ZZZZZZ			14:19																				
ZZZZZZ			14:20																				
ZZZZZZ			14:22																				
MB 240-79941/1-A	1	T	14:23	X																			
LCS 240-79941/2-A	1	T	14:24	X																			
ZZZZZZ			14:27																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
CCV 240-80224/10-A			14:31																				
CCB 240-80224/11-A			14:33																				
CCV 240-80224/10-A	1		14:38	X																			
CCB 240-80224/11-A	1		14:39	X																			
ZZZZZZ			14:41																				
ZZZZZZ			14:42																				
ZZZZZZ			14:44																				
ZZZZZZ			14:45																				
ZZZZZZ			14:47																				
ZZZZZZ			14:48																				
ZZZZZZ			14:49																				
ZZZZZZ			14:51																				
ZZZZZZ			14:52																				
240-22281-1	1	T	14:54	X																			
CCV 240-80224/10-A	1		14:56	X																			
CCB 240-80224/11-A	1		14:58	X																			
240-22281-3	1	T	15:00	X																			
240-22281-4	1	T	15:02	X																			

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
240-22281-6	1	T	15:03	X																			
240-22281-7	1	T	15:04	X																			
240-22281-8	1	T	15:07	X																			
240-22281-9	1	T	15:08	X																			
240-22281-10	1	T	15:09	X																			
240-22281-11	1	T	15:11	X																			
240-22281-17	1	T	15:12	X																			
MB 240-80130/1-A	1	T	15:14	X																			
CCV 240-80224/10-A	1		15:16	X																			
CCB 240-80224/11-A	1		15:17	X																			
LCS 240-80130/2-A	1	T	15:19	X																			
240-22281-20	1	T	15:20	X																			
240-22281-20 DU	1	T	15:21	X																			
240-22281-20 MS	1	T	15:23	X																			
240-22281-22	1	T	15:24	X																			
240-22281-23	1	T	15:26	X																			
240-22281-25	1	T	15:27	X																			
240-22281-26	1	T	15:29	X																			
240-22281-27	1	T	15:30	X																			
240-22281-28	1	T	15:32	X																			
CCV 240-80224/10-A	1		15:33	X																			
CCB 240-80224/11-A	1		15:35	X																			
240-22281-29	1	T	15:36	X																			
240-22281-30	1	T	15:38	X																			
240-22281-31	1	T	15:40	X																			
240-22281-32	1	T	15:42	X																			
240-22281-33	1	T	15:43	X																			
240-22281-34	1	T	15:45	X																			
240-22281-35	1	T	15:46	X																			
240-22281-36	1	T	15:48	X																			
240-22281-37	1	T	15:49	X																			
240-22281-38	1	T	15:51	X																			
CCV 240-80224/10-A	1		15:52	X																			
CCB 240-80224/11-A	1		15:54	X																			
240-22281-39	1	T	15:56	X																			
240-22281-18	1	T	15:58	X																			
240-22281-19	1	T	15:59	X																			
CRA 240-80224/9-A	1		16:00	X																			
CRA 240-80224/9-A			16:02																				
CCV 240-80224/10-A	1		16:03	X																			
CCB 240-80224/11-A	1		16:05	X																			

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/02/2013 11:51 End Date: 04/02/2013 16:05

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/03/2013 07:47 End Date: 04/03/2013 12:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 240-80224/1-A			07:47	X																			
IC 240-80224/2-A			07:48	X																			
IC 240-80224/3-A			07:50	X																			
IC 240-80224/4-A			07:52	X																			
IC 240-80224/5-A			07:54	X																			
IC 240-80224/6-A			07:55	X																			
ICV 240-80224/7-A	1		08:02	X																			
ICB 240-80224/8-A	1		08:03	X																			
CRA 240-80224/9-A	1		08:05	X																			
CCV 240-80224/10-A			08:06																				
CCB 240-80224/11-A			08:07																				
ZZZZZZ			08:09																				
ZZZZZZ			08:10																				
ZZZZZZ			08:11																				
ZZZZZZ			08:13																				
ZZZZZZ			08:14																				
ZZZZZZ			08:15																				
ZZZZZZ			08:17																				
ZZZZZZ			08:18																				
ZZZZZZ			08:19																				
ZZZZZZ			08:21																				
CCV 240-80224/10-A			08:22																				
CCB 240-80224/11-A			08:24																				
ZZZZZZ			08:25																				
ZZZZZZ			08:27																				
ZZZZZZ			08:28																				
ZZZZZZ			08:30																				
ZZZZZZ			08:31																				
ZZZZZZ			08:33																				
ZZZZZZ			08:34																				
ZZZZZZ			08:36																				
ZZZZZZ			08:37																				
CCV 240-80224/10-A			08:39																				
CCB 240-80224/11-A			08:41																				
ZZZZZZ			08:42																				
ZZZZZZ			08:44																				
ZZZZZZ			08:46																				
ZZZZZZ			08:47																				
ZZZZZZ			08:48																				
ZZZZZZ			08:50																				
ZZZZZZ			08:51																				
ZZZZZZ			08:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/03/2013 07:47 End Date: 04/03/2013 12:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			08:55																				
ZZZZZZ			08:56																				
CCV 240-80224/10-A			08:58																				
CCB 240-80224/11-A			08:59																				
ZZZZZZ			09:01																				
ZZZZZZ			09:03																				
ZZZZZZ			09:04																				
ZZZZZZ			09:06																				
ZZZZZZ			09:07																				
ZZZZZZ			09:08																				
ZZZZZZ			09:10																				
ZZZZZZ			09:11																				
ZZZZZZ			09:12																				
ZZZZZZ			09:14																				
CCV 240-80224/10-A			09:15																				
CCB 240-80224/11-A			09:17																				
ZZZZZZ			09:18																				
ZZZZZZ			09:19																				
ZZZZZZ			09:21																				
ZZZZZZ			09:23																				
ZZZZZZ			09:24																				
ZZZZZZ			09:26																				
ZZZZZZ			09:27																				
ZZZZZZ			09:29																				
ZZZZZZ			09:31																				
ZZZZZZ			09:32																				
CCV 240-80224/10-A			09:33																				
CCB 240-80224/11-A			09:35																				
ZZZZZZ			09:36																				
ZZZZZZ			09:38																				
ZZZZZZ			09:39																				
ZZZZZZ			09:41																				
ZZZZZZ			09:42																				
ZZZZZZ			09:44																				
ZZZZZZ			09:45																				
ZZZZZZ			09:46																				
ZZZZZZ			09:48																				
ZZZZZZ			09:49																				
CCV 240-80224/10-A			09:51																				
CCB 240-80224/11-A			09:52																				
ZZZZZZ			09:53																				
ZZZZZZ			09:55																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/03/2013 07:47 End Date: 04/03/2013 12:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			09:56																				
ZZZZZZ			09:59																				
ZZZZZZ			10:00																				
ZZZZZZ			10:01																				
ZZZZZZ			10:03																				
CCV 240-80224/10-A			10:05																				
CCB 240-80224/11-A			10:06																				
ZZZZZZ			10:08																				
ZZZZZZ			10:10																				
ZZZZZZ			10:11																				
ZZZZZZ			10:13																				
ZZZZZZ			10:14																				
ZZZZZZ			10:15																				
ZZZZZZ			10:17																				
ZZZZZZ			10:18																				
ZZZZZZ			10:19																				
ZZZZZZ			10:21																				
CCV 240-80224/10-A			10:22																				
CCB 240-80224/11-A			10:23																				
ZZZZZZ			10:25																				
ZZZZZZ			10:26																				
ZZZZZZ			10:28																				
ZZZZZZ			10:29																				
ZZZZZZ			10:31																				
ZZZZZZ			10:32																				
ZZZZZZ			10:34																				
ZZZZZZ			10:35																				
ZZZZZZ			10:37																				
ZZZZZZ			10:38																				
CCV 240-80224/10-A			10:39																				
CCB 240-80224/11-A			10:41																				
ZZZZZZ			10:43																				
ZZZZZZ			10:44																				
ZZZZZZ			10:46																				
ZZZZZZ			10:47																				
ZZZZZZ			10:49																				
ZZZZZZ			10:50																				
ZZZZZZ			10:51																				
ZZZZZZ			10:53																				
ZZZZZZ			10:54																				
ZZZZZZ			10:56																				
CCV 240-80224/10-A			10:57																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/03/2013 07:47 End Date: 04/03/2013 12:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 240-80224/11-A			10:59																				
ZZZZZZ			11:00																				
ZZZZZZ			11:02																				
ZZZZZZ			11:03																				
ZZZZZZ			11:04																				
ZZZZZZ			11:06																				
ZZZZZZ			11:07																				
ZZZZZZ			11:09																				
ZZZZZZ			11:10																				
ZZZZZZ			11:12																				
ZZZZZZ			11:15																				
CCV 240-80224/10-A	1		11:16	X																			
CCB 240-80224/11-A	1		11:18	X																			
ZZZZZZ			11:20																				
ZZZZZZ			11:22																				
ZZZZZZ			11:24																				
ZZZZZZ			11:25																				
ZZZZZZ			11:26																				
ZZZZZZ			11:28																				
ZZZZZZ			11:30																				
ZZZZZZ			11:31																				
MB 240-80281/1-A	1	T	11:33	X																			
LCS 240-80281/2-A	1	T	11:34	X																			
CCV 240-80224/10-A	1		11:35	X																			
CCB 240-80224/11-A	1		11:37	X																			
240-22281-40	1	T	11:38	X																			
240-22281-40 DU	1	T	11:39	X																			
240-22281-40 MS	1	T	11:41	X																			
240-22281-41	1	T	11:42	X																			
240-22281-42	1	T	11:43	X																			
240-22281-43	1	T	11:45	X																			
240-22281-44	1	T	11:46	X																			
CCV 240-80224/10-A	1		11:48	X																			
CCB 240-80224/11-A	1		11:50	X																			
ZZZZZZ			11:51																				
ZZZZZZ			11:52																				
ZZZZZZ			11:54																				
ZZZZZZ			11:55																				
ZZZZZZ			11:56																				
ZZZZZZ			11:58																				
ZZZZZZ			12:00																				
ZZZZZZ			12:02																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/03/2013 07:47 End Date: 04/03/2013 12:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			12:03																				
ZZZZZZ			12:05																				
CCV 240-80224/10-A			12:06																				
CCB 240-80224/11-A			12:08																				
ZZZZZZ			12:09																				
ZZZZZZ			12:10																				
ZZZZZZ			12:13																				
ZZZZZZ			12:14																				
ZZZZZZ			12:15																				
CRA 240-80224/9-A	1		12:17	X																			
ZZZZZZ			12:18																				
CCV 240-80224/10-A			12:20																				
CCB 240-80224/11-A			12:21																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/27/2013 17:04 End Date: 04/28/2013 15:40

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ITUNE 180-70234/1			17:04																				
STD1 180-70234/2 IC	1		22:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-70234/3 IC	1		22:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-70234/4 IC	1		22:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-70234/5	1		22:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-70234/6	1		22:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70234/7	1		22:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 180-70234/8	1		22:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 180-70234/9	1		22:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70234/10	1		23:02		X		X					X	X	X			X		X	X			
CCV 180-70234/11	1		23:11						X						X	X		X					
CCV 180-70234/12	1		23:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1 180-70234/13	1		23:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			23:39																				
ZZZZZZ			23:47																				
ZZZZZZ			23:55																				
ZZZZZZ			00:03																				
ZZZZZZ			00:11																				
ZZZZZZ			00:20																				
ZZZZZZ			00:28																				
ZZZZZZ			00:36																				
ZZZZZZ			00:44																				
ZZZZZZ			00:52																				
CCV 180-70234/24	1		01:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB2 180-70234/25	1		01:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			01:17																				
ZZZZZZ			01:25																				
MB 180-68111/1-A	1	T	01:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-68111/2-A	1	T	01:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-1	1	T	01:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3	1	T	01:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3 SD	5	T	02:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3 DU	1	T	02:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3 MS	1	T	02:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3 MSD	1	T	02:31	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCV 180-70234/36	1		02:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB3 180-70234/37	1		02:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3 PDS	1	T	02:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-4	1	T	03:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-6	1	T	03:12	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22281-7	1	T	03:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-8	1	T	03:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/27/2013 17:04 End Date: 04/28/2013 15:40

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
240-22281-9	1	T	03:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-10	1	T	03:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-11	1	T	03:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-12	1	T	04:01	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22281-13	1	T	04:09	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCV 180-70234/48	1		04:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB4 180-70234/49	1		04:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-14	1	T	04:34	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22281-15	1	T	04:42	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22281-16	1	T	04:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-17	1	T	04:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-18	1	T	05:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-19	1	T	05:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-20	1	T	05:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-22	1	T	05:31	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22281-23	1	T	05:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-68272/1-A	1	T	05:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70234/60	1		05:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB5 180-70234/61	1		06:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70234/62	1		06:13	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
CRI 180-70234/63	1		06:21												X								
CCV 180-70234/64	1		06:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB6 180-70234/65	1		06:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-68272/2-A	1	T	06:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-25	1	T	06:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-25 SD	5	T	07:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-25 DU	1	T	07:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-25 MS	1	T	07:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-25 MSD	1	T	07:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-25 PDS	1	T	07:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-26	1	T	07:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-27	1	T	07:51	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
240-22281-28	1	T	08:00	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCV 180-70234/76	1		08:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB7 180-70234/77	1		08:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-29	1	T	08:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-30	1	T	08:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-31	1	T	08:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-32	1	T	08:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-33	1	T	08:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-34	1	T	09:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-35	1	T	09:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/27/2013 17:04 End Date: 04/28/2013 15:40

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
240-22281-36	1	T	09:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-37	1	T	09:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-38	1	T	09:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70234/88	1		09:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB8 180-70234/89	1		09:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-39	1	T	10:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-40	1	T	10:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-41	1	T	10:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-42	1	T	10:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-43	1	T	10:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-44	1	T	10:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70234/96	1		10:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB9 180-70234/97	1		11:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70234/98	1		11:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70234/99			11:18																				
CCV 180-70234/100	1		11:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB10 180-70234/101	1		11:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22281-3 MSD	10	T	13:10														X						
240-22281-6	10	T	13:18														X						
ZZZZZZ			13:26																				
240-22281-14	10	T	13:34														X						
240-22281-15	100	T	13:43														X						
240-22281-22	10	T	13:51														X						
240-22281-27	10	T	13:59														X						
240-22281-13	10	T	14:17														X						
240-22281-12	100	T	14:25														X						
240-22281-28	10	T	14:34														X						
CCV 180-70234/112	1		15:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB11 180-70234/113	1		15:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70234/114	1		15:23														X						
CCV 180-70234/115	1		15:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB12 180-70234/116	1		15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/27/2013 17:04 End Date: 04/28/2013 15:40

Lab Sample ID	D/F	Type	Time	Analytes																				
				V	Zn																			
ITUNE 180-70234/1			17:04																					
STD1 180-70234/2 IC	1		22:06	X	X																			
STD2 180-70234/3 IC	1		22:11	X	X																			
STD3 180-70234/4 IC	1		22:15	X	X																			
ICV 180-70234/5	1		22:20	X	X																			
ICB 180-70234/6	1		22:28	X	X																			
CRI 180-70234/7	1		22:37	X	X																			
ICSA 180-70234/8	1		22:45	X	X																			
ICSAB 180-70234/9	1		22:53	X	X																			
CCV 180-70234/10	1		23:02		X																			
CCV 180-70234/11	1		23:11																					
CCV 180-70234/12	1		23:21	X	X																			
CCB1 180-70234/13	1		23:31	X	X																			
ZZZZZZ			23:39																					
ZZZZZZ			23:47																					
ZZZZZZ			23:55																					
ZZZZZZ			00:03																					
ZZZZZZ			00:11																					
ZZZZZZ			00:20																					
ZZZZZZ			00:28																					
ZZZZZZ			00:36																					
ZZZZZZ			00:44																					
ZZZZZZ			00:52																					
CCV 180-70234/24	1		01:01	X	X																			
CCB2 180-70234/25	1		01:09	X	X																			
ZZZZZZ			01:17																					
ZZZZZZ			01:25																					
MB 180-68111/1-A	1	T	01:33	X	X																			
LCS 180-68111/2-A	1	T	01:42	X	X																			
240-22281-1	1	T	01:50	X	X																			
240-22281-3	1	T	01:58	X	X																			
240-22281-3 SD	5	T	02:06	X	X																			
240-22281-3 DU	1	T	02:14	X	X																			
240-22281-3 MS	1	T	02:22	X	X																			
240-22281-3 MSD	1	T	02:31	X	X																			
CCV 180-70234/36	1		02:39	X	X																			
CCB3 180-70234/37	1		02:47	X	X																			
240-22281-3 PDS	1	T	02:55	X	X																			
240-22281-4	1	T	03:04	X	X																			
240-22281-6	1	T	03:12	X	X																			
240-22281-7	1	T	03:20	X	X																			
240-22281-8	1	T	03:28	X	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/27/2013 17:04 End Date: 04/28/2013 15:40

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
240-22281-9	1	T	03:36	X	X																		
240-22281-10	1	T	03:45	X	X																		
240-22281-11	1	T	03:53	X	X																		
240-22281-12	1	T	04:01	X	X																		
240-22281-13	1	T	04:09	X	X																		
CCV 180-70234/48	1		04:17	X	X																		
CCB4 180-70234/49	1		04:26	X	X																		
240-22281-14	1	T	04:34	X	X																		
240-22281-15	1	T	04:42	X	X																		
240-22281-16	1	T	04:50	X	X																		
240-22281-17	1	T	04:59	X	X																		
240-22281-18	1	T	05:07	X	X																		
240-22281-19	1	T	05:15	X	X																		
240-22281-20	1	T	05:23	X	X																		
240-22281-22	1	T	05:31	X	X																		
240-22281-23	1	T	05:40	X	X																		
MB 180-68272/1-A	1	T	05:48	X	X																		
CCV 180-70234/60	1		05:56	X	X																		
CCB5 180-70234/61	1		06:04	X	X																		
CRI 180-70234/62	1		06:13	X	X																		
CRI 180-70234/63	1		06:21																				
CCV 180-70234/64	1		06:29	X	X																		
CCB6 180-70234/65	1		06:37	X	X																		
LCS 180-68272/2-A	1	T	06:46	X	X																		
240-22281-25	1	T	06:54	X	X																		
240-22281-25 SD	5	T	07:02	X	X																		
240-22281-25 DU	1	T	07:10	X	X																		
240-22281-25 MS	1	T	07:18	X	X																		
240-22281-25 MSD	1	T	07:27	X	X																		
240-22281-25 PDS	1	T	07:35	X	X																		
240-22281-26	1	T	07:43	X	X																		
240-22281-27	1	T	07:51	X	X																		
240-22281-28	1	T	08:00	X	X																		
CCV 180-70234/76	1		08:08	X	X																		
CCB7 180-70234/77	1		08:16	X	X																		
240-22281-29	1	T	08:24	X	X																		
240-22281-30	1	T	08:33	X	X																		
240-22281-31	1	T	08:41	X	X																		
240-22281-32	1	T	08:49	X	X																		
240-22281-33	1	T	08:57	X	X																		
240-22281-34	1	T	09:06	X	X																		
240-22281-35	1	T	09:14	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 04/27/2013 17:04 End Date: 04/28/2013 15:40

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
240-22281-36	1	T	09:22	X	X																		
240-22281-37	1	T	09:30	X	X																		
240-22281-38	1	T	09:39	X	X																		
CCV 180-70234/88	1		09:47	X	X																		
CCB8 180-70234/89	1		09:55	X	X																		
240-22281-39	1	T	10:03	X	X																		
240-22281-40	1	T	10:12	X	X																		
240-22281-41	1	T	10:20	X	X																		
240-22281-42	1	T	10:28	X	X																		
240-22281-43	1	T	10:36	X	X																		
240-22281-44	1	T	10:45	X	X																		
CCV 180-70234/96	1		10:53	X	X																		
CCB9 180-70234/97	1		11:01	X	X																		
CRI 180-70234/98	1		11:10	X	X																		
CRI 180-70234/99			11:18																				
CCV 180-70234/100	1		11:26	X	X																		
CCB10 180-70234/101	1		11:34	X	X																		
240-22281-3 MSD	10	T	13:10																				
240-22281-6	10	T	13:18																				
ZZZZZZ			13:26																				
240-22281-14	10	T	13:34																				
240-22281-15	100	T	13:43																				
240-22281-22	10	T	13:51																				
240-22281-27	10	T	13:59																				
240-22281-13	10	T	14:17																				
240-22281-12	100	T	14:25																				
240-22281-28	10	T	14:34																				
CCV 180-70234/112	1		15:07	X	X																		
CCB11 180-70234/113	1		15:15	X	X																		
CRI 180-70234/114	1		15:23																				
CCV 180-70234/115	1		15:32	X	X																		
CCB12 180-70234/116	1		15:40	X	X																		

Prep Types
T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/27/2013 End Date: 04/28/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-70234/2 IC	22:06	100		100		100		100		100	
STD2 180-70234/3 IC	22:11	78		71		71		67		72	
STD3 180-70234/4 IC	22:15	81		78		79		78		82	
ICV 180-70234/5	22:20	77		73		73		70		75	
ICB 180-70234/6	22:28	95		93		94		94		95	
CRI 180-70234/7	22:37	95		93		102		94		95	
ICSA 180-70234/8	22:45	68		57		57		55		62	
ICSAB 180-70234/9	22:53	69		56		57		54		62	
CCV 180-70234/10	23:02	73		59		57		62		70	
CCV 180-70234/11	23:11	77		84		85		72		79	
CCV 180-70234/12	23:21	78		73		74		73		77	
CCB1 180-70234/13	23:31	93		91		94		96		97	
CCV 180-70234/24	01:01	64		53		56		57		59	
CCB2 180-70234/25	01:09	85		94		83		86		82	
MB 180-68111/1-A	01:33	89		85		84		91		87	
LCS 180-68111/2-A	01:42	63		50		49		56		54	
240-22281-1	01:50	62		56		0		60		60	
240-22281-3	01:58	61		56		0		59		59	
240-22281-3 SD	02:06	67		61		74		68		66	
240-22281-3 DU	02:14	61		57		0		60		60	
240-22281-3 MS	02:22	56		54		0		53		55	
240-22281-3 MSD	02:31	57		55		0		53		55	
CCV 180-70234/36	02:39	61		54		56		58		58	
CCB3 180-70234/37	02:47	85		82		82		91		81	
240-22281-3 PDS	02:55	57		53		0		49		55	
240-22281-4	03:04	62		57		0		62		62	
240-22281-6	03:12	64		59		0		63		63	
240-22281-7	03:20	62		58		0		62		63	
240-22281-8	03:28	62		58		0		63		62	
240-22281-9	03:36	62		58		0		61		61	
240-22281-10	03:45	61		58		0		61		62	
240-22281-11	03:53	61		59		0		61		62	
240-22281-12	04:01	45		44		0		39		48	
240-22281-13	04:09	53		49		0		51		53	
CCV 180-70234/48	04:17	55		49		51		54		54	
CCB4 180-70234/49	04:26	84		83		72		84		84	
240-22281-14	04:34	50		45		0		44		50	
240-22281-15	04:42	44		43		0		38		45	
240-22281-16	04:50	52		47		0		51		52	
240-22281-17	04:59	53		49		0		52		54	
240-22281-18	05:07	50		47		0		49		52	
240-22281-19	05:15	50		46		0		49		51	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/27/2013 End Date: 04/28/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
240-22281-20	05:23	52		49		0		51		53	
240-22281-22	05:31	56		51		0		55		56	
240-22281-23	05:40	51		48		0		51		52	
MB 180-68272/1-A	05:48	59		54		58		63		61	
CCV 180-70234/60	05:56	54		48		51		53		53	
CCB5 180-70234/61	06:04	85		80		80		88		80	
CRI 180-70234/62	06:13	71		62		69		70		68	
CRI 180-70234/63	06:21	65		55		73		70		67	
CCV 180-70234/64	06:29	56		51		53		55		55	
CCB6 180-70234/65	06:37	89		88		81		87		81	
LCS 180-68272/2-A	06:46	56		48		47		54		51	
240-22281-25	06:54	53		49		0		53		54	
240-22281-25 SD	07:02	55		50		55		56		56	
240-22281-25 DU	07:10	53		48		0		53		53	
240-22281-25 MS	07:18	49		45		0		44		48	
240-22281-25 MSD	07:27	49		44		0		43		47	
240-22281-25 PDS	07:35	49		44		0		42		47	
240-22281-26	07:43	53		48		0		53		53	
240-22281-27	07:51	53		49		0		47		52	
240-22281-28	08:00	55		49		0		52		53	
CCV 180-70234/76	08:08	53		47		49		51		52	
CCB7 180-70234/77	08:16	83		83		74		84		82	
240-22281-29	08:24	50		46		0		49		50	
240-22281-30	08:33	50		47		0		46		51	
240-22281-31	08:41	50		47		0		50		51	
240-22281-32	08:49	52		47		0		52		52	
240-22281-33	08:57	51		46		0		49		51	
240-22281-34	09:06	51		46		0		51		51	
240-22281-35	09:14	50		47		0		49		51	
240-22281-36	09:22	50		46		0		49		50	
240-22281-37	09:30	51		47		0		50		51	
240-22281-38	09:39	49		45		0		47		49	
CCV 180-70234/88	09:47	51		46		47		48		50	
CCB8 180-70234/89	09:55	80		82		74		89		84	
240-22281-39	10:03	51		46		0		49		51	
240-22281-40	10:12	47		44		0		42		47	
240-22281-41	10:20	49		45		0		49		49	
240-22281-42	10:28	49		46		0		46		49	
240-22281-43	10:36	50		46		0		51		50	
240-22281-44	10:45	47		43		0		42		47	
CCV 180-70234/96	10:53	50		44		46		45		49	
CCB9 180-70234/97	11:01	85		78		71		92		82	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/27/2013 End Date: 04/28/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
CRI 180-70234/98	11:10	66		57		59		66		62	
CRI 180-70234/99	11:18	61		53		65		65		61	
CCV 180-70234/100	11:26	54		49		50		53		53	
CCB10 180-70234/101	11:34	84		84		76		92		86	
240-22281-3 MSD	13:10	53		48		55		54		53	
240-22281-6	13:18	54		50		53		57		54	
240-22281-12	13:26	55		51		55		58		56	
240-22281-14	13:34	56		52		57		58		56	
240-22281-15	13:43	61		57		60		65		61	
240-22281-22	13:51	64		62		64		70		66	
240-22281-27	13:59	56		50		55		57		54	
240-22281-13	14:17	56		52		56		59		56	
240-22281-12	14:25	51		44		47		49		49	
240-22281-28	14:34	53		48		51		54		52	
CCV 180-70234/112	15:07	53		47		48		49		50	
CCB11 180-70234/113	15:15	85		84		72		86		81	
CRI 180-70234/114	15:23	66		62		63		69		63	
CCV 180-70234/115	15:32	52		46		48		50		50	
CCB12 180-70234/116	15:40	83		84		73		86		83	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/27/2013 End Date: 04/28/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-70234/2 IC	22:06	100		100		100					
STD2 180-70234/3 IC	22:11	77		77		72					
STD3 180-70234/4 IC	22:15	85		85		86					
ICV 180-70234/5	22:20	80		80		75					
ICB 180-70234/6	22:28	95		96		95					
CRI 180-70234/7	22:37	96		96		96					
ICSA 180-70234/8	22:45	66		66		64					
ICSAB 180-70234/9	22:53	67		67		65					
CCV 180-70234/10	23:02	63		63		66					
CCV 180-70234/11	23:11	81		81		64					
CCV 180-70234/12	23:21	82		84		79					
CCB1 180-70234/13	23:31	99		100		101					
CCV 180-70234/24	01:01	66		67		66					
CCB2 180-70234/25	01:09	88		88		92					
MB 180-68111/1-A	01:33	92		93		95					
LCS 180-68111/2-A	01:42	66		67		63					
240-22281-1	01:50	69		69		65					
240-22281-3	01:58	72		71		63					
240-22281-3 SD	02:06	72		72		70					
240-22281-3 DU	02:14	74		72		64					
240-22281-3 MS	02:22	67		66		57					
240-22281-3 MSD	02:31	69		68		56					
CCV 180-70234/36	02:39	64		65		63					
CCB3 180-70234/37	02:47	85		86		88					
240-22281-3 PDS	02:55	68		67		58					
240-22281-4	03:04	69		69		66					
240-22281-6	03:12	71		71		67					
240-22281-7	03:20	70		70		66					
240-22281-8	03:28	70		70		66					
240-22281-9	03:36	70		70		65					
240-22281-10	03:45	70		70		66					
240-22281-11	03:53	71		71		65					
240-22281-12	04:01	52		54		44					
240-22281-13	04:09	60		60		57					
CCV 180-70234/48	04:17	61		62		61					
CCB4 180-70234/49	04:26	85		86		83					
240-22281-14	04:34	56		57		53					
240-22281-15	04:42	52		53		46					
240-22281-16	04:50	60		61		58					
240-22281-17	04:59	61		61		58					
240-22281-18	05:07	59		60		57					
240-22281-19	05:15	61		61		56					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/27/2013 End Date: 04/28/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
240-22281-20	05:23	63		63		57					
240-22281-22	05:31	63		64		61					
240-22281-23	05:40	62		63		58					
MB 180-68272/1-A	05:48	67		68		71					
CCV 180-70234/60	05:56	59		60		59					
CCB5 180-70234/61	06:04	87		88		85					
CRI 180-70234/62	06:13	71		72		76					
CRI 180-70234/63	06:21	71		72		76					
CCV 180-70234/64	06:29	61		62		62					
CCB6 180-70234/65	06:37	88		89		85					
LCS 180-68272/2-A	06:46	61		62		56					
240-22281-25	06:54	61		62		60					
240-22281-25 SD	07:02	62		63		66					
240-22281-25 DU	07:10	61		61		60					
240-22281-25 MS	07:18	56		56		53					
240-22281-25 MSD	07:27	55		55		52					
240-22281-25 PDS	07:35	55		56		53					
240-22281-26	07:43	60		61		59					
240-22281-27	07:51	62		61		54					
240-22281-28	08:00	61		61		57					
CCV 180-70234/76	08:08	58		59		57					
CCB7 180-70234/77	08:16	82		83		85					
240-22281-29	08:24	58		59		55					
240-22281-30	08:33	61		61		54					
240-22281-31	08:41	59		60		55					
240-22281-32	08:49	60		60		57					
240-22281-33	08:57	59		60		55					
240-22281-34	09:06	59		59		56					
240-22281-35	09:14	59		59		55					
240-22281-36	09:22	59		59		54					
240-22281-37	09:30	59		59		55					
240-22281-38	09:39	58		58		53					
CCV 180-70234/88	09:47	56		56		54					
CCB8 180-70234/89	09:55	84		85		83					
240-22281-39	10:03	60		59		55					
240-22281-40	10:12	56		56		51					
240-22281-41	10:20	57		57		53					
240-22281-42	10:28	58		58		53					
240-22281-43	10:36	57		58		54					
240-22281-44	10:45	56		56		50					
CCV 180-70234/96	10:53	55		56		57					
CCB9 180-70234/97	11:01	80		81		81					

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 04/27/2013 End Date: 04/28/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
CRI 180-70234/98	11:10	66		67		71					
CRI 180-70234/99	11:18	64		65		66					
CCV 180-70234/100	11:26	59		60		61					
CCB10 180-70234/101	11:34	86		87		85					
240-22281-3 MSD	13:10	59		59		64					
240-22281-6	13:18	59		59		61					
240-22281-12	13:26	61		61		67					
240-22281-14	13:34	60		61		64					
240-22281-15	13:43	64		64		66					
240-22281-22	13:51	69		69		74					
240-22281-27	13:59	59		59		59					
240-22281-13	14:17	61		61		66					
240-22281-12	14:25	53		53		53					
240-22281-28	14:34	58		58		64					
CCV 180-70234/112	15:07	55		55		52					
CCB11 180-70234/113	15:15	83		84		85					
CRI 180-70234/114	15:23	66		66		70					
CCV 180-70234/115	15:32	55		56		57					
CCB12 180-70234/116	15:40	82		83		85					

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : 7471:

Run Date: 3-27-13 Analyst: RLT Instrument: H1

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?				✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?				✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: Susan J Girard Date/Time: 3-27-13 3-26-13 Reviewed from 9:24 to 11:46

Analyst: Susan J Girard Date/Time: _____ Reviewed from 17:04 to 12:12 (3-28)

Comments: _____

Level II

Reviewer: [signature] Date/Time: 3/27/2013 Reviewed from 9:24 to 11:46

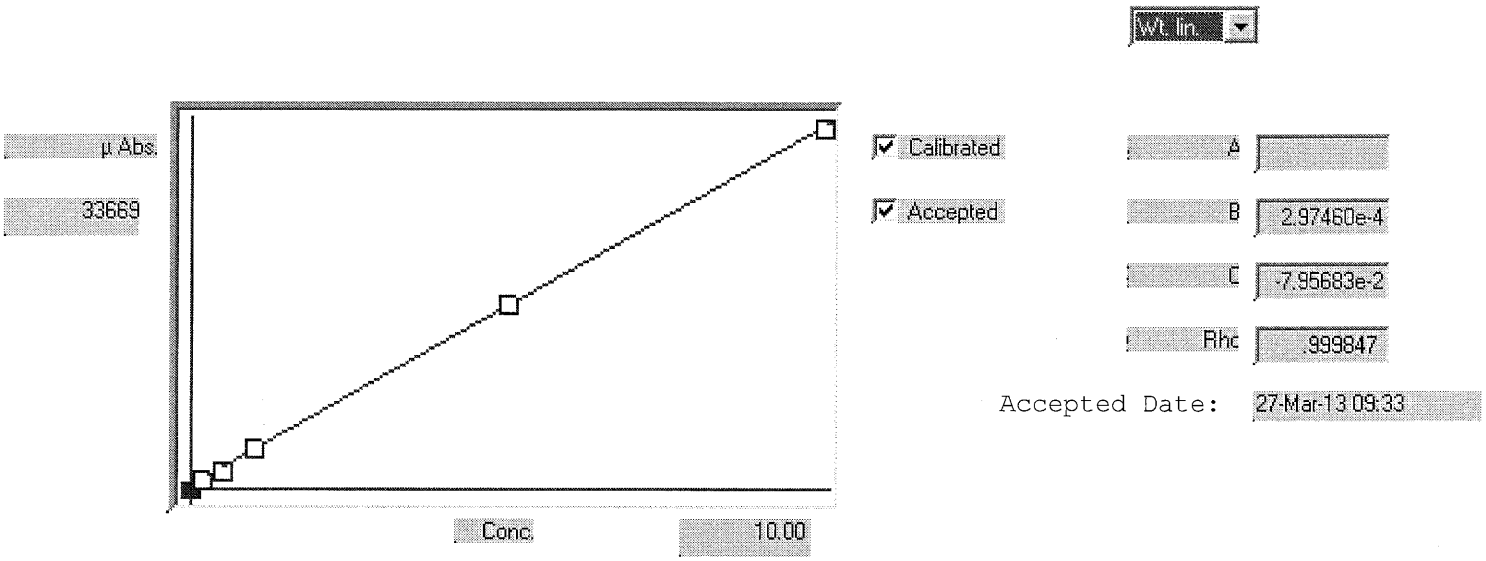
Reviewer: [signature] Date/Time: 3/28/2013 Reviewed from 7:04 to 12:12

Comments _____

Curve Date 3-26-13 Curve Time 4:20 - 4:50 DILUTION H20 NA

Revised 11/29/2012

Protocol: 0327AHG1



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.0528	-.0528	91	0	90				
02	.20000	.1765	-.0235	862	0%	861				
03	.50000	.4740	-.0260	1861	0%	1861				
04	1.0000	1.049	.0490	3794	0%	3794				
05	5.0000	5.118	.1176	17473	0%	17472				
06	10.000	9.936	-.0644	33670	0%	33669				
07										
08										
09										
10										

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 09:09:19 27 Mar 13 HG

Hg .0000 ppb 64

*** Standard: 2 Rep: 1 Seq: 2 09:10:56 27 Mar 13 HG

Hg .2000 ppb 849

Recalibrate

*** Standard: 3 Rep: 1 Seq: 3 09:12:26 27 Mar 13 HG

Hg .5000 ppb 1776

*** Standard: 4 Rep: 1 Seq: 4 09:14:08 27 Mar 13 HG

Hg 1.000 ppb 3535

*** Standard: 5 Rep: 1 Seq: 5 09:15:38 27 Mar 13 HG

Hg 5.000 ppb 17185

*** Standard: 6 Rep: 1 Seq: 6 09:17:18 27 Mar 13 HG

Hg 10.00 ppb 33513

*** Check Standard: 2 Ck2ICV Seq: 7 09:21:35 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	H	110.7	2.766	2.500	ppb	.0000

*** Standard: 1 Rep: 1 Seq: 8 09:24:49 27 Mar 13 HG

Hg .0000 ppb 90

*** Standard: 2 Rep: 1 Seq: 9 09:26:55 27 Mar 13 HG

Hg .2000 ppb 861

*** Standard: 3 Rep: 1 Seq: 10 09:28:14 27 Mar 13 HG

Hg .5000 ppb 1861

*** Standard: 4 Rep: 1 Seq: 11 09:29:30 27 Mar 13 HG

Hg 1.000 ppb 3794

*** Standard: 5 Rep: 1 Seq: 12 09:31:17 27 Mar 13 HG

Hg 5.000 ppb 17472

*** Standard: 6 Rep: 1 Seq: 13 09:33:09 27 Mar 13 HG

Hg 10.00 ppb 33669

*** Check Standard: 2 Ck2ICV Seq: 14 09:34:58 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.2	2.656	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 15 09:36:14 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0677	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 16 09:37:51 27 Mar 13 HG

Rerun

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		65.81	.1316	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 4 Ck4CRA\MRL Seq: 17 09:41:52 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		85.30	.1706	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 18 09:45:27 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.43	4.972	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 19 09:47:24 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0843	.2000	ppb	.0000

*** Sample ID: Seq: 20 09:48:40 27 Mar 13 HG
mb 240-79493/1-a

Hg	-.0593	ppb	.0000	-.0593

*** Sample ID: Seq: 21 09:50:06 27 Mar 13 HG
lcs 240-79493/2-a

Hg	5.325	ppb	.0000	5.325

*** Sample ID: Seq: 22 09:51:32 27 Mar 13 HG
240-22274-c-3-a

Hg	.1441	ppb	.0000	.1441

*** Sample ID: Seq: 23 09:53:10 27 Mar 13 HG
240-22274-c-3-b du

Hg	.1581	ppb	.0000	.1581

*** Sample ID: Seq: 24 09:54:51 27 Mar 13 HG
240-22274-c-3-c ms

Hg	1.281	ppb	.0000	1.281

*** Sample ID: Seq: 25 09:56:07 27 Mar 13 HG
240-22274-e-2-a

Hg	.1313	ppb	.0000	.1313

*** Sample ID: Seq: 26 09:57:24 27 Mar 13 HG
240-22274-c-4-a

Hg	.1290	ppb	.0000	.1290

*** Sample ID: Seq: 27 09:58:45 27 Mar 13 HG
240-22274-c-5-a

Hg	.1159	ppb	.0000	.1159

*** Sample ID: Seq: 28 10:00:20 27 Mar 13 HG
240-22274-c-6-a

Hg	.1697	ppb	.0000	.1697

*** Sample ID: Seq: 29 10:01:40 27 Mar 13 HG
240-22274-c-14-a

Hg	.0599	ppb	.0000	.0599

*** Check Standard: 6 Ck6CCV Seq: 30 10:03:47 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.7	5.034	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 31 10:05:02 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.1173	.2000	ppb	.0000

*** Sample ID: Seq: 32 10:06:24 27 Mar 13 HG
240-22274-c-15-a

Hg	.1114	ppb	.0000	.1114

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 33 10:07:40 27 Mar 13 HG
240-22274-c-23-a
Hg .1849 ppb .0000 .1849

*** Sample ID: Seq: 34 10:09:34 27 Mar 13 HG
240-22274-c-24-a
Hg .0891 ppb .0000 .0891

*** Sample ID: Seq: 35 10:10:49 27 Mar 13 HG
240-22274-c-32-a
Hg .1239 ppb .0000 .1239

*** Sample ID: Seq: 36 10:12:07 27 Mar 13 HG
240-22274-c-33-a
Hg .1126 ppb .0000 .1126

*** Sample ID: Seq: 37 10:13:54 27 Mar 13 HG
240-22141-c-19-a
Hg .1563 ppb .0000 .1563

*** Sample ID: Seq: 38 10:15:10 27 Mar 13 HG
240-22141-c-20-a
Hg .0796 ppb .0000 .0796

*** Sample ID: Seq: 39 10:16:26 27 Mar 13 HG
240-22141-c-28-a
Hg .2241 ppb .0000 .2241

*** Sample ID: Seq: 40 10:18:33 27 Mar 13 HG
240-22141-c-29-a
Hg .1385 ppb .0000 .1385

*** Sample ID: Seq: 41 10:20:09 27 Mar 13 HG
240-22281-b-12-a
Hg .2024 ppb .0000 .2024

*** Check Standard: 6 Ck6CCV Seq: 42 10:21:46 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.062	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 43 10:23:02 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0073	.2000	ppb	.0000

*** Sample ID: Seq: 44 10:24:48 27 Mar 13 HG
240-22281-b-13-a
Hg .1718 ppb .0000 .1718

*** Sample ID: Seq: 45 10:26:08 27 Mar 13 HG
240-22281-b-14-a
Hg .0814 ppb .0000 .0814

*** Sample ID: Seq: 46 10:27:34 27 Mar 13 HG
240-22281-b-15-a
Hg .0576 ppb .0000 .0576

*** Sample ID: Seq: 47 10:28:54 27 Mar 13 HG
240-22281-b-16-a
Hg .2539 ppb .0000 .2539

*** Sample ID: Seq: 48 10:30:13 27 Mar 13 HG
CRA
Hg .1542 ppb .0000 .1542

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 49	10:31:29 27 Mar 13	HG		
				mb 240-79159/1-a				
Hg	-.0216	ppb	.0000	-.0216				
*** Sample ID:				Seq: 50	10:33:09 27 Mar 13	HG		
				lcs 240-79159/2-a				
Hg	5.458	ppb	.0000	5.458				
*** Sample ID:				Seq: 51	10:34:37 27 Mar 13	HG		
				240-22185-e-2-g				
Hg	-.0183	ppb	.0000	-.0183				
*** Sample ID:				Seq: 52	10:36:24 27 Mar 13	HG		
				240-22185-e-2-h ms				
Hg	1.112	ppb	.0000	1.112				
*** Sample ID:				Seq: 53	10:37:41 27 Mar 13	HG		
				240-22185-e-2-i msd				
Hg	1.125	ppb	.0000	1.125				

*** Check Standard: 6 Ck6CCV Seq: 54 10:38:58 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.054	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 55 10:41:47 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0385	.2000	ppb	.0000

*** Sample ID:				Seq: 56	10:43:02 27 Mar 13	HG		
				240-22185-d-3-c				
Hg	-.0352	ppb	.0000	-.0352				
*** Sample ID:				Seq: 57	10:44:29 27 Mar 13	HG		
				240-22174-e-7-b				
Hg	.0016	ppb	.0000	.0016				
*** Sample ID:				Seq: 58	10:45:58 27 Mar 13	HG		
				240-22174-e-11-b				
Hg	.0817	ppb	.0000	.0817				
*** Sample ID:				Seq: 59	10:47:39 27 Mar 13	HG		
				240-22266-f-1-b				
Hg	.1899	ppb	.0000	.1899				
*** Sample ID:				Seq: 60	10:48:58 27 Mar 13	HG		
				240-22266-g-2-b				
Hg	.0825	ppb	.0000	.0825				
*** Sample ID:				Seq: 61	10:50:26 27 Mar 13	HG		
				240-22266-f-3-b				
Hg	.0263	ppb	.0000	.0263				
*** Sample ID:				Seq: 62	10:51:53 27 Mar 13	HG		
				240-22266-f-4-b				
Hg	.1010	ppb	.0000	.1010				
*** Sample ID:				Seq: 63	10:53:22 27 Mar 13	HG		
				240-22266-f-5-b				
Hg	.2592	ppb	.0000	.2592				
*** Sample ID:				Seq: 64	10:54:52 27 Mar 13	HG		
				240-22266-f-6-b				
Hg	.0495	ppb	.0000	.0495				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 65	10:56:08 27 Mar 13	HG		
				240-22184-c-1-d				
Hg	.0567	ppb	.0000	.0567				
*** Check Standard: 6 Ck6CCV				Seq: 66	10:57:27 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.3	5.067	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 67	10:58:48 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0924	.2000	ppb	.0000			
*** Sample ID:				Seq: 68	11:00:34 27 Mar 13	HG		
				240-22184-c-2-d				
Hg	-.0174	ppb	.0000	-.0174				
*** Sample ID:				Seq: 69	11:01:55 27 Mar 13	HG		
				240-22184-c-3-d				
Hg	.0385	ppb	.0000	.0385				
*** Sample ID:				Seq: 70	11:03:45 27 Mar 13	HG		
				lb 240-78934/1-c				
Hg	-.0698	ppb	.0000	-.0698				
*** Sample ID:				Seq: 71	11:05:55 27 Mar 13	HG		
				mb 240-79168/2-a				
Hg	-.0659	ppb	.0000	-.0659				
*** Sample ID:				Seq: 72	11:07:26 27 Mar 13	HG		
				lcs 240-79168/3-a				
Hg	5.423	ppb	.0000	5.423				
*** Sample ID:				Seq: 73	11:08:45 27 Mar 13	HG		
				240-22019-c-1-m				
Hg	-.0412	ppb	.0000	-.0412				
*** Sample ID:				Seq: 74	11:10:21 27 Mar 13	HG		
				240-22019-c-1-n ms				
Hg	4.783	ppb	.0000	4.783				
*** Sample ID:				Seq: 75	11:11:38 27 Mar 13	HG		
				240-22019-c-1-o msd				
Hg	4.686	ppb	.0000	4.686				
*** Sample ID:				Seq: 76	11:13:34 27 Mar 13	HG		
				mb 240-79340/1-a				
Hg	-.0016	ppb	.0000	-.0016				
*** Sample ID:				Seq: 77	11:15:10 27 Mar 13	HG		
				lcs 240-79340/2-a				
Hg	5.791	ppb	.0000	5.791				
*** Check Standard: 6 Ck6CCV				Seq: 78	11:16:41 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		102.3	5.114	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 79	11:18:30 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0352	.2000	ppb	.0000			
*** Sample ID:				Seq: 80	11:19:46 27 Mar 13	HG		
				240-22317-o-3-a				
Hg	.0504	ppb	.0000	.0504				

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 81	11:21:26 27 Mar 13	HG		
				240-22317-o-3-b ms				
Hg	1.249	ppb	.0000	1.249				
*** Sample ID:				Seq: 82	11:23:13 27 Mar 13	HG		
				240-22317-o-3-c msd				
Hg	1.272	ppb	.0000	1.272				
*** Sample ID:				Seq: 83	11:24:30 27 Mar 13	HG		
				240-22317-f-1-a				
Hg	.0531	ppb	.0000	.0531				
*** Sample ID:				Seq: 84	11:25:52 27 Mar 13	HG		
				240-22317-f-2-a				
Hg	.0504	ppb	.0000	.0504				
*** Sample ID:				Seq: 85	11:27:50 27 Mar 13	HG		
				240-22294-d-1-b				
Hg	.1861	ppb	.0000	.1861				
*** Sample ID:				Seq: 86	11:29:06 27 Mar 13	HG		
				240-22294-d-2-b				
Hg	.0305	ppb	.0000	.0305				
*** Sample ID:				Seq: 87	11:30:23 27 Mar 13	HG		
				240-22294-d-3-b				
Hg	.0189	ppb	.0000	.0189				
*** Sample ID:				Seq: 88	11:31:41 27 Mar 13	HG		
				240-22294-d-4-b				
Hg	.2503	ppb	.0000	.2503				
*** Sample ID:				Seq: 89	11:32:57 27 Mar 13	HG		
				240-22296-d-1-b				
Hg	.0120	ppb	.0000	.0120				

*** Check Standard: 6 Ck6CCV Seq: 90 11:34:18 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.1	5.106	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 91 11:35:33 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0555	.2000	ppb	.0000

*** Sample ID:				Seq: 92	11:37:32 27 Mar 13	HG		
				240-22296-d-2-b				
Hg	.0695	ppb	.0000	.0695				
*** Sample ID:				Seq: 93	11:38:49 27 Mar 13	HG		
				240-22296-d-3-b				
Hg	.0477	ppb	.0000	.0477				
*** Sample ID:				Seq: 94	11:40:06 27 Mar 13	HG		
				240-22297-c-4-a				
Hg	.5951	ppb	.0000	.5951				
*** Sample ID:				Seq: 95	11:41:43 27 Mar 13	HG		
				240-22297-c-5-a				
Hg	.7072	ppb	.0000	.7072				
*** Sample ID:				Seq: 96	11:43:05 27 Mar 13	HG		
				240-22335-b-1-a				
Hg	.3184	ppb	.0000	.3184				

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 97 11:45:06 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.059	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 98 11:46:22 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0745	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 99 17:04:13 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.40	4.820	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 100 17:05:42 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0846	.2000	ppb	.0000

*** Sample ID: Seq: 101 17:06:57 27 Mar 13 HG
mb 240-79646/1-a

Hg	-.0522	ppb	.0000	-.0522

*** Sample ID: Seq: 102 17:08:25 27 Mar 13 HG
lcs 240-79646/2-a

Hg	5.543	ppb	.0000	5.543

*** Sample ID: Seq: 103 17:09:50 27 Mar 13 HG
240-22141-b-1-b

Hg	.3318	ppb	.0000	.3318

*** Sample ID: Seq: 104 17:11:18 27 Mar 13 HG
240-22141-b-1-c du

Hg	.3274	ppb	.0000	.3274

*** Sample ID: Seq: 105 17:12:35 27 Mar 13 HG
240-22141-b-1-d ms

Hg	1.647	ppb	.0000	1.647

*** Sample ID: Seq: 106 17:13:55 27 Mar 13 HG
240-22141-b-2-b

Hg	.2375	ppb	.0000	.2375

*** Sample ID: Seq: 107 17:15:15 27 Mar 13 HG
240-22141-b-3-b

Hg	.6201	ppb	.0000	.6201

*** Sample ID: Seq: 108 17:16:42 27 Mar 13 HG
240-22141-b-4-b

Hg	.2310	ppb	.0000	.2310

*** Sample ID: Seq: 109 17:18:00 27 Mar 13 HG
240-22141-b-5-b

Hg	.2152	ppb	.0000	.2152

*** Sample ID: Seq: 110 17:19:17 27 Mar 13 HG
240-22141-b-6-b

Hg	.2563	ppb	.0000	.2563

*** Check Standard: 6 Ck6CCV Seq: 111 17:21:07 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.86	4.893	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 112 17:22:29 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0046	.2000	ppb	.0000

*** Sample ID: Seq: 113 17:23:59 27 Mar 13 HG
240-22141-b-7-b

Hg	.2899	ppb	.0000	.2899

*** Sample ID: Seq: 114 17:25:59 27 Mar 13 HG
240-22141-b-8-b

Hg	.1495	ppb	.0000	.1495

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 115	17:27:20 27 Mar 13	HG		
				240-22141-b-9-b				
Hg	.2057	ppb	.0000	.2057				
*** Sample ID:				Seq: 116	17:28:37 27 Mar 13	HG		
				240-22141-b-10-b				
Hg	.2155	ppb	.0000	.2155				
*** Sample ID:				Seq: 117	17:30:33 27 Mar 13	HG		
				240-22141-b-11-b				
Hg	.2247	ppb	.0000	.2247				
*** Sample ID:				Seq: 118	17:31:50 27 Mar 13	HG		
				240-22141-b-12-b				
Hg	.1287	ppb	.0000	.1287				
*** Sample ID:				Seq: 119	17:33:09 27 Mar 13	HG		
				240-22141-b-13-b				
Hg	.1191	ppb	.0000	.1191				
*** Sample ID:				Seq: 120	17:34:47 27 Mar 13	HG		
				240-22141-b-14-b				
Hg	.1057	ppb	.0000	.1057				
*** Sample ID:				Seq: 121	17:36:13 27 Mar 13	HG		
				240-22141-b-15-b				
Hg	.0091	ppb	.0000	.0091				
*** Sample ID:				Seq: 122	17:37:32 27 Mar 13	HG		
				240-22141-b-16-b				
Hg	.0522	ppb	.0000	.0522				
*** Check Standard: 6 Ck6CCV				Seq: 123	17:38:58 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.3	5.013	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 124	17:40:13 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0727	.2000	ppb	.0000			
*** Sample ID:				Seq: 125	17:41:33 27 Mar 13	HG		
				240-22141-b-17-b				
Hg	.1643	ppb	.0000	.1643				
*** Sample ID:				Seq: 126	17:43:08 27 Mar 13	HG		
				240-22141-b-18-b				
Hg	.0855	ppb	.0000	.0855				
*** Sample ID:				Seq: 127	17:44:34 27 Mar 13	HG		
				240-22141-b-21-b				
Hg	.0888	ppb	.0000	.0888				
*** Sample ID:				Seq: 128	17:46:24 27 Mar 13	HG		
				240-22141-b-22-b				
Hg	.0159	ppb	.0000	.0159				
*** Sample ID:				Seq: 129	17:48:11 27 Mar 13	HG		
				mb 240-79642/1-a				
Hg	-.0332	ppb	.0000	-.0332				
*** Sample ID:				Seq: 130	17:49:56 27 Mar 13	HG		
				lcs 240-79642/2-a				
Hg	5.528	ppb	.0000	5.528				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 131	17:51:26 27 Mar 13	HG		
				240-22379-e-1-b				
Hg	.0656	ppb	.0000	.0656				
*** Sample ID:				Seq: 132	17:52:54 27 Mar 13	HG		
				240-22379-e-1-c ms				
Hg	1.153	ppb	.0000	1.153				
*** Sample ID:				Seq: 133	17:54:26 27 Mar 13	HG		
				240-22379-e-1-d msd				
Hg	1.122	ppb	.0000	1.122				
*** Sample ID:				Seq: 134	17:56:06 27 Mar 13	HG		
				240-22379-d-2-b				
Hg	.0216	ppb	.0000	.0216				
*** Check Standard: 6 Ck6CCV				Seq: 135	17:57:28 27 Mar 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.37	4.969	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 136	17:59:05 27 Mar 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0695	.2000	ppb	.0000			
*** Sample ID:				Seq: 137	18:00:21 27 Mar 13	HG		
				240-22379-e-3-b				
Hg	.0864	ppb	.0000	.0864				
*** Sample ID:				Seq: 138	18:01:44 27 Mar 13	HG		
				240-22379-e-4-b				
Hg	.0748	ppb	.0000	.0748				
*** Sample ID:				Seq: 139	18:03:03 27 Mar 13	HG		
				240-22386-d-9-b				
Hg	.0846	ppb	.0000	.0846				
*** Sample ID:				Seq: 140	18:04:22 27 Mar 13	HG		
				240-22410-a-55-b				
Hg	4.006	ppb	.0000	4.006				
*** Sample ID:				Seq: 141	18:05:50 27 Mar 13	HG		
				240-22410-a-56-b				
Hg	-.0198	ppb	.0000	-.0198				
*** Sample ID:				Seq: 142	18:07:20 27 Mar 13	HG		
				240-22410-a-57-b				
Hg	.0501	ppb	.0000	.0501				
*** Sample ID:				Seq: 143	18:08:38 27 Mar 13	HG		
				240-22410-b-73-b				
Hg	72.34 H	ppb	.0000	72.34				
*** Sample ID:				Seq: 144	18:09:57 27 Mar 13	HG		
				240-22410-b-74-b				
Hg	1.294	ppb	.0000	1.294				
*** Sample ID:				Seq: 145	18:11:36 27 Mar 13	HG		
				240-22410-b-76-b				
Hg	.6837	ppb	.0000	.6837				
*** Sample ID:				Seq: 146	18:12:55 27 Mar 13	HG		
				240-22410-b-77-b				
Hg	1.306	ppb	.0000	1.306				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 147 18:14:22 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.54	4.977	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 148 18:15:48 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0314	.2000	ppb	.0000

*** Sample ID: Seq: 149 18:17:15 27 Mar 13 HG
240-22410-b-78-b

Hg	.5460	ppb	.0000	.5460

*** Sample ID: Seq: 150 18:18:33 27 Mar 13 HG
240-22410-b-79-b

Hg	.1736	ppb	.0000	.1736

*** Sample ID: Seq: 151 18:20:04 27 Mar 13 HG
240-22410-b-93-b

Hg	3.021	ppb	.0000	3.021

*** Sample ID: Seq: 152 18:21:52 27 Mar 13 HG
240-22410-b-94-b

Hg	1.114	ppb	.0000	1.114

*** Sample ID: Seq: 153 18:23:23 27 Mar 13 HG
~~mb 240-79646/1-a~~ 240-22410-b-95-b

Hg	1.624	ppb	.0000	1.624

*** Sample ID: Seq: 154 18:24:39 27 Mar 13 HG
~~lcs 240-79646/2-a~~ 240-22410-b-96-b

Hg	.2887	ppb	.0000	.2887

SG 3-28-13

*** Sample ID: Seq: 155 18:26:01 27 Mar 13 HG
~~240-22141-b-1-b~~ 460-52889-d-2-b

Hg	.0013	ppb	.0000	.0013

*** Sample ID: Seq: 156 18:27:18 27 Mar 13 HG
~~240-22141-b-1-c du~~ 460-52889-C-3-b

Hg	-.0231	ppb	.0000	-.0231

*** Check Standard: 6 Ck6CCV Seq: 157 18:29:14 27 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.74	4.937	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 158 18:30:30 27 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0656	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 159 12:09:23 28 Mar 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.82	4.641	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 160 12:10:53 28 Mar 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0460	.2000	ppb	.0000

*** Sample ID: Seq: 161 12:12:09 28 Mar 13 HG

~~240-22410-b-95-b~~ CRA

Hg	.1599	ppb	.0000	.1599	SG 7-28-13

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : (7471)

Run Date: 4/2/2013 Analyst: A. Sutherland Instrument: H1

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓		~~✓~~ ADS 4/3/2013	✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/3/2013 Reviewed from 11:51 to 16:05

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: [signature] Date/Time: 4/3/13 Reviewed from 11:51 to 16:05

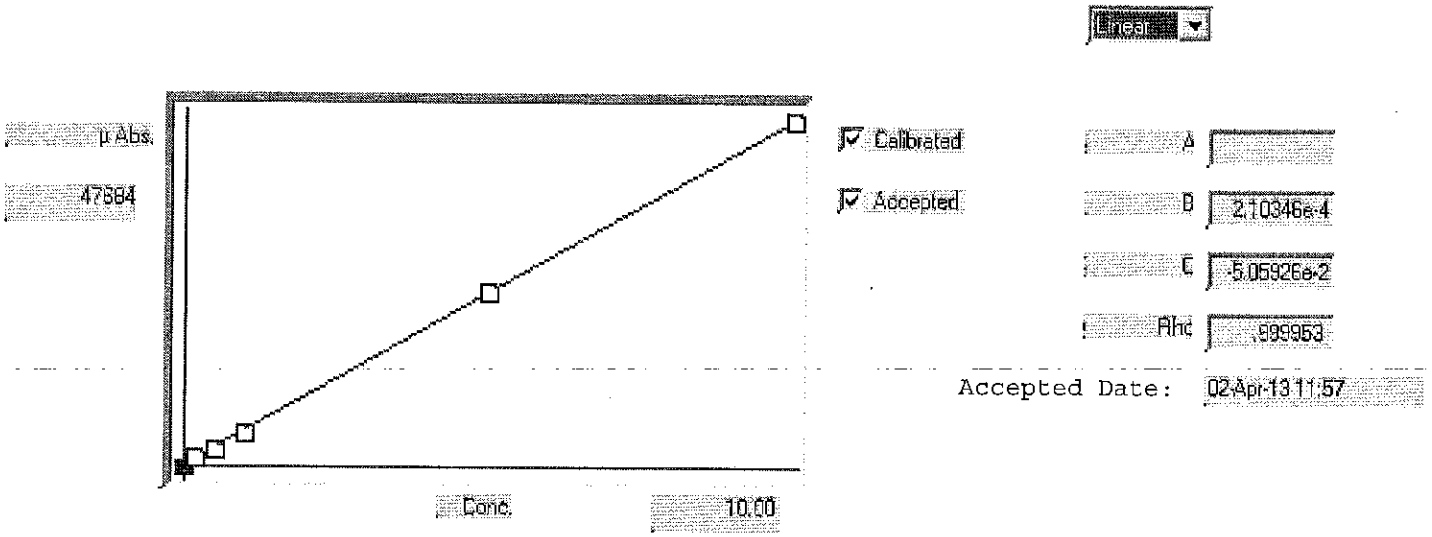
Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/2/2013 Curve Time 9:25-9:55 DILUTION H20 00013

Revised 11/29/2012

Protocol: 0402BHG1



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.0472	-.0472	16	1	16				
02	.20000	.2502	.0502	1430	0%	1430				
03	.50000	.4999	-.0001	2618	0%	2617				
04	1.0000	.9753	-.0247	4877	0%	4877				
05	5.0000	5.042	.0423	24212	0%	24212				
06	10.000	9.980	-.0204	47685	0%	47684				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 11:51:04 02 Apr 13 HG

Hg .0000 ppb 16

*** Standard: 2 Rep: 1 Seq: 2 11:52:20 02 Apr 13 HG

Hg .2000 ppb 1430

*** Standard: 3 Rep: 1 Seq: 3 11:53:37 02 Apr 13 HG

Hg .5000 ppb 2617

*** Standard: 4 Rep: 1 Seq: 4 11:54:56 02 Apr 13 HG

Hg 1.000 ppb 4877

*** Standard: 5 Rep: 1 Seq: 5 11:56:14 02 Apr 13 HG

Hg 5.000 ppb 24212

*** Standard: 6 Rep: 1 Seq: 6 11:57:51 02 Apr 13 HG

Hg 10.00 ppb 47684

*** Check Standard: 2 Ck2ICV Seq: 7 11:59:12 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.90	2.473	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 12:00:51 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	.0062	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 12:02:49 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.8	.2096	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 12:04:48 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.7	5.035	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 12:06:56 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0262	.2000	ppb	.0000

*** Sample ID: Seq: 12 12:08:23 02 Apr 13 HG
MB 240-79936/1-A
Hg -.0176 ppb .0000 -.0176

*** Sample ID: Seq: 13 12:09:41 02 Apr 13 HG
LCS 240-79936/2-A
Hg 4.941 ppb .0000 4.941

*** Sample ID: Seq: 14 12:10:59 02 Apr 13 HG
240-22471-D-1-F
Hg .0823 ppb .0000 .0823

*** Sample ID: Seq: 15 12:12:15 02 Apr 13 HG
240-22471-D-1-G MS
Hg 1.081 ppb .0000 1.081

*** Sample ID: Seq: 16 12:13:43 02 Apr 13 HG
240-22471-D-1-H MSD
Hg .9925 ppb .0000 .9925

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 17	12:15:11 02 Apr 13	HG		
				240-22471-E-2-D				
Hg	.0567	ppb	.0000	.0567				
*** Sample ID:				Seq: 18	12:16:27 02 Apr 13	HG		
				240-22471-D-3-D				
Hg	.0622	ppb	.0000	.0622				
*** Sample ID:				Seq: 19	12:17:56 02 Apr 13	HG		
				240-22471-D-4-D				
Hg	.0220	ppb	.0000	.0220				
*** Sample ID:				Seq: 20	12:19:33 02 Apr 13	HG		
				240-22471-D-5-D				
Hg	.1183	ppb	.0000	.1183				
*** Sample ID:				Seq: 21	12:20:51 02 Apr 13	HG		
				240-22471-D-6-D				
Hg	.0895	ppb	.0000	.0895				

*** Check Standard: 6 Ck6CCV Seq: 22 12:22:21 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.055	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 12:23:36 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0201	.2000	ppb	.0000

*** Sample ID:				Seq: 24	12:24:58 02 Apr 13	HG		
				240-22471-D-7-D				
Hg	.0239	ppb	.0000	.0239				
*** Sample ID:				Seq: 25	12:26:38 02 Apr 13	HG		
				240-22471-E-8-D				
Hg	.0737	ppb	.0000	.0737				
*** Sample ID:				Seq: 26	12:27:57 02 Apr 13	HG		
				240-22471-D-10-D				
Hg	.1101	ppb	.0000	.1101				
*** Sample ID:				Seq: 27	12:29:38 02 Apr 13	HG		
				240-22471-D-11-D				
Hg	-.0140	ppb	.0000	-.0140				
*** Sample ID:				Seq: 28	12:31:04 02 Apr 13	HG		
				240-22471-D-12-D				
Hg	.0948	ppb	.0000	.0948				
*** Sample ID:				Seq: 29	12:32:21 02 Apr 13	HG		
				240-22471-D-13-D				
Hg	.0918	ppb	.0000	.0918				
*** Sample ID:				Seq: 30	12:34:39 02 Apr 13	HG		
				240-22410-B-31-B				
Hg	.1572	ppb	.0000	.1572				
*** Sample ID:				Seq: 31	12:37:52 02 Apr 13	HG		
				240-22410-B-32-B				
Hg	-.0083	ppb	.0000	-.0083				
*** Sample ID:				Seq: 32	12:39:13 02 Apr 13	HG		
				240-22410-B-33-B				
Hg	.0361	ppb	.0000	.0361				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 33	12:40:34 02 Apr 13	HG		
				240-22410-B-34-B				
Hg	.0308	ppb	.0000	.0308				
*** Check Standard: 6 Ck6CCV				Seq: 34	12:41:51 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.1	5.056	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 35	12:43:08 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0514	.2000	ppb	.0000			
*** Sample ID:				Seq: 36	12:44:28 02 Apr 13	HG		
				240-22474-E-19-G				
Hg	.4054	ppb	.0000	.4054				
*** Sample ID:				Seq: 37	12:45:47 02 Apr 13	HG		
				240-22474-E-20-E				
Hg	.4322	ppb	.0000	.4322				
*** Sample ID:				Seq: 38	12:47:17 02 Apr 13	HG		
				240-22474-E-21-E				
Hg	.2330	ppb	.0000	.2330				
*** Sample ID:				Seq: 39	12:48:48 02 Apr 13	HG		
				240-22474-E-22-E				
Hg	.1804	ppb	.0000	.1804				
*** Sample ID:				Seq: 40	12:50:45 02 Apr 13	HG		
				LB 240-79835/1-C				
Hg	-.0439	ppb	.0000	-.0439				
*** Sample ID:				Seq: 41	12:52:22 02 Apr 13	HG		
				MB 240-80140/2-A				
Hg	-.0115	ppb	.0000	-.0115				
*** Sample ID:				Seq: 42	12:53:41 02 Apr 13	HG		
				LCS 240-80140/3-A				
Hg	4.741	ppb	.0000	4.741				
*** Sample ID:				Seq: 43	12:55:21 02 Apr 13	HG		
				460-52889-E-2-E				
Hg	-.0603	ppb	.0000	-.0603				
*** Sample ID:				Seq: 44	12:56:38 02 Apr 13	HG		
				460-52889-E-2-F MS				
Hg	4.554	ppb	.0000	4.554				
*** Sample ID:				Seq: 45	12:58:17 02 Apr 13	HG		
				460-52889-E-2-G MSD				
Hg	4.724	ppb	.0000	4.724				
*** Check Standard: 6 Ck6CCV				Seq: 46	12:59:59 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.8	5.040	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 47	13:01:34 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.0039	.2000	ppb	.0000			
*** Sample ID:				Seq: 48	13:03:34 02 Apr 13	HG		
				460-52889-D-3-C				
Hg	-.0464	ppb	.0000	-.0464				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 49	13:05:45 02 Apr 13	HG		
				MB 240-80092/1-A				
Hg	-.0363	ppb	.0000	-.0363				
*** Sample ID:				Seq: 50	13:07:13 02 Apr 13	HG		
				LCS 240-80092/2-A				
Hg	4.712	ppb	.0000	4.712				
*** Sample ID:				Seq: 51	13:08:31 02 Apr 13	HG		
				240-22609-C-1-B				
Hg	.0047	ppb	.0000	.0047				
*** Sample ID:				Seq: 52	13:09:48 02 Apr 13	HG		
				240-22609-C-1-C MS				
Hg	.9894	ppb	.0000	.9894				
*** Sample ID:				Seq: 53	13:11:06 02 Apr 13	HG		
				240-22609-C-1-D MSD				
Hg	1.013	ppb	.0000	1.013				
*** Sample ID:				Seq: 54	13:12:37 02 Apr 13	HG		
				240-22609-C-2-B				
Hg	.0279	ppb	.0000	.0279				
*** Sample ID:				Seq: 55	13:13:54 02 Apr 13	HG		
				240-22609-C-4-B				
Hg	.0405	ppb	.0000	.0405				
*** Sample ID:				Seq: 56	13:15:44 02 Apr 13	HG		
				240-22609-C-5-B				
Hg	.0420	ppb	.0000	.0420				
*** Sample ID:				Seq: 57	13:17:02 02 Apr 13	HG		
				240-22609-C-6-B				
Hg	.0224	ppb	.0000	.0224				
*** Check Standard: 6 Ck6CCV				Seq: 58	13:18:20 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.1	5.056	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 59	13:19:35 02 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0622	.2000	ppb	.0000			
*** Sample ID:				Seq: 60	13:21:13 02 Apr 13	HG		
				240-22609-C-7-B				
Hg	.0748	ppb	.0000	.0748				
*** Sample ID:				Seq: 61	13:22:34 02 Apr 13	HG		
				240-22609-C-8-B				
Hg	.0661	ppb	.0000	.0661				
*** Sample ID:				Seq: 62	13:23:54 02 Apr 13	HG		
				240-22609-C-9-B				
Hg	.0216	ppb	.0000	.0216				
*** Sample ID:				Seq: 63	13:25:12 02 Apr 13	HG		
				240-22535-D-1-B				
Hg	.1720	ppb	.0000	.1720				
*** Check Standard: 6 Ck6CCV				Seq: 64	13:27:08 02 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.1	5.053	5.000	ppb	.0000		

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1CCB Seq: 65 13:28:27 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0485	.2000	ppb	.0000

*** Sample ID: Seq: 66 13:29:44 02 Apr 13 HG
240-22410-B-58-B

Hg	-.0247	ppb	.0000	-.0247

*** Sample ID: Seq: 67 13:31:19 02 Apr 13 HG
240-22410-B-59-B

Hg	-.0026	ppb	.0000	-.0026

*** Sample ID: Seq: 68 13:32:37 02 Apr 13 HG
240-22410-B-60-B

Hg	-.0397	ppb	.0000	-.0397

*** Sample ID: Seq: 69 13:34:23 02 Apr 13 HG
240-22410-B-75-B

Hg	.3131	ppb	.0000	.3131

*** Sample ID: Seq: 70 13:35:40 02 Apr 13 HG
240-22410-B-97-C

Hg	1.340	ppb	.0000	1.340

*** Sample ID: Seq: 71 13:36:57 02 Apr 13 HG
240-22410-B-98-C

Hg	1.352	ppb	.0000	1.352

*** Sample ID: Seq: 72 13:38:25 02 Apr 13 HG
240-22410-B-99-C

Hg	.9023	ppb	.0000	.9023

*** Check Standard: 6 Ck6CCV Seq: 73 13:40:38 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.042	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 74 13:41:53 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0224	.2000	ppb	.0000

*** Sample ID: Seq: 75 13:43:29 02 Apr 13 HG
240-22410-B-73-B@20

Hg	2.935	ppb	.0000	2.935

*** Sample ID: Seq: 76 13:44:55 02 Apr 13 HG
MB 240-79782/1-A

Hg	-.0230	ppb	.0000	-.0230

*** Sample ID: Seq: 77 13:46:14 02 Apr 13 HG
LCS 240-79782/2-A

Hg	4.926	ppb	.0000	4.926

*** Sample ID: Seq: 78 13:47:34 02 Apr 13 HG
240-22141-B-23-B

Hg	.0407	ppb	.0000	.0407

*** Sample ID: Seq: 79 13:49:01 02 Apr 13 HG
240-22141-B-23-C MS

Hg	1.034	ppb	.0000	1.034

*** Sample ID: Seq: 80 13:50:17 02 Apr 13 HG
240-22141-B-23-D DU

Hg	.0630	ppb	.0000	.0630

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 81	13:51:44 02 Apr 13	HG		
				240-22141-B-24-B				
Hg	.0476	ppb	.0000	.0476				
*** Sample ID:				Seq: 82	13:52:59 02 Apr 13	HG		
				240-22141-B-25-B				
Hg	.0298	ppb	.0000	.0298				
*** Sample ID:				Seq: 83	13:54:14 02 Apr 13	HG		
				240-22141-B-26-B				
Hg	.0108	ppb	.0000	.0108				
*** Sample ID:				Seq: 84	13:57:00 02 Apr 13	HG		
				240-22141-B-27-B				
Hg	.0699	ppb	.0000	.0699				

*** Check Standard: 6 Ck6CCV			Seq: 85	13:58:22 02 Apr 13	HG	
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.2	5.012	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB			Seq: 86	13:59:39 02 Apr 13	HG	
Line	Flag	Found	Range(+/-)	Units	SD/RSD	
Hg		-.0401	.2000	ppb	.0000	

*** Sample ID:				Seq: 87	14:01:07 02 Apr 13	HG
				240-22141-B-30-B		
Hg	1.894	ppb	.0000	1.894		
*** Sample ID:				Seq: 88	14:02:23 02 Apr 13	HG
				240-22141-B-31-B		
Hg	.2279	ppb	.0000	.2279		
*** Sample ID:				Seq: 89	14:03:40 02 Apr 13	HG
				240-22274-B-7-B		
Hg	.0447	ppb	.0000	.0447		
*** Sample ID:				Seq: 90	14:04:58 02 Apr 13	HG
				240-22274-B-8-B		
Hg	.0009	ppb	.0000	.0009		
*** Sample ID:				Seq: 91	14:06:15 02 Apr 13	HG
				240-22274-B-9-B		
Hg	.0457	ppb	.0000	.0457		
*** Sample ID:				Seq: 92	14:07:44 02 Apr 13	HG
				240-22274-B-10-B		
Hg	.0687	ppb	.0000	.0687		
*** Sample ID:				Seq: 93	14:09:02 02 Apr 13	HG
				240-22274-B-11-B		
Hg	.0392	ppb	.0000	.0392		
*** Sample ID:				Seq: 94	14:10:18 02 Apr 13	HG
				240-22274-B-12-B		
Hg	.0941	ppb	.0000	.0941		
*** Sample ID:				Seq: 95	14:11:34 02 Apr 13	HG
				240-22274-B-13-B		
Hg	.0716	ppb	.0000	.0716		
*** Sample ID:				Seq: 96	14:12:50 02 Apr 13	HG
				240-22274-B-16-B		
Hg	.1017	ppb	.0000	.1017		

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 97 14:14:09 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.9	5.043	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 98 14:15:26 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0447	.2000	ppb	.0000

*** Sample ID: Seq: 99 14:16:43 02 Apr 13 HG
240-22274-B-17-B

Hg	.0396	ppb	.0000	.0396

*** Sample ID: Seq: 100 14:18:02 02 Apr 13 HG
240-22274-B-18-B

Hg	.1417	ppb	.0000	.1417

*** Sample ID: Seq: 101 14:19:28 02 Apr 13 HG
240-22274-B-19-B

Hg	.0769	ppb	.0000	.0769

*** Sample ID: Seq: 102 14:20:44 02 Apr 13 HG
240-22274-B-20-B

Hg	.0828	ppb	.0000	.0828

*** Sample ID: Seq: 103 14:22:05 02 Apr 13 HG
240-22274-B-21-B

Hg	.0407	ppb	.0000	.0407

*** Sample ID: Seq: 104 14:23:27 02 Apr 13 HG
MB 240-79941/1-A

Hg	-.0216	ppb	.0000	-.0216

*** Sample ID: Seq: 105 14:24:49 02 Apr 13 HG
LCS 240-79941/2-A

Hg	4.933	ppb	.0000	4.933

*** Sample ID: Seq: 106 14:27:00 02 Apr 13 HG
240-22274-B-22-B

Hg	.1063	ppb	.0000	.1063

*** Sample ID: Seq: 107 14:28:37 02 Apr 13 HG
240-22274-B-22-C DU

Hg	.0985	ppb	.0000	.0985

*** Sample ID: Seq: 108 14:30:24 02 Apr 13 HG
240-22274-B-22-D MS

Hg	1.060	ppb	.0000	1.060

Rerun cup empty

*** Check Standard: 6 Ck6CCV Seq: 109 14:31:41 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	L	24.03	1.201	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 110 14:33:37 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0813	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 111 14:38:17 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.5	5.074	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 112 14:39:44 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0516	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 113 14:41:20 02 Apr 13 HG
240-22274-B-25-B
Hg .1044 ppb .0000 .1044

*** Sample ID: Seq: 114 14:42:50 02 Apr 13 HG
240-22274-B-26-B
Hg .0089 ppb .0000 .0089

*** Sample ID: Seq: 115 14:44:16 02 Apr 13 HG
240-22274-B-27-B
Hg .0847 ppb .0000 .0847

*** Sample ID: Seq: 116 14:45:33 02 Apr 13 HG
240-22274-B-28-B
Hg .0281 ppb .0000 .0281

*** Sample ID: Seq: 117 14:47:00 02 Apr 13 HG
240-22274-B-29-B
Hg .0849 ppb .0000 .0849

*** Sample ID: Seq: 118 14:48:36 02 Apr 13 HG
240-22274-B-30-B
Hg .0508 ppb .0000 .0508

*** Sample ID: Seq: 119 14:49:54 02 Apr 13 HG
240-22274-B-31-B
Hg .0962 ppb .0000 .0962

*** Sample ID: Seq: 120 14:51:22 02 Apr 13 HG
240-22274-B-34-B
Hg .2025 ppb .0000 .2025

*** Sample ID: Seq: 121 14:52:39 02 Apr 13 HG
240-22274-B-35-B
Hg .2536 ppb .0000 .2536

*** Sample ID: Seq: 122 14:54:31 02 Apr 13 HG
240-22281-B-1-B
Hg .0958 ppb .0000 .0958

*** Check Standard: 6 Ck6CCV Seq: 123 14:56:57 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.056	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 124 14:58:45 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0437	.2000	ppb	.0000

*** Sample ID: Seq: 125 15:00:03 02 Apr 13 HG
240-22281-B-3-B
Hg .0813 ppb .0000 .0813

*** Sample ID: Seq: 126 15:02:21 02 Apr 13 HG
240-22281-B-4-B
Hg .0399 ppb .0000 .0399

*** Sample ID: Seq: 127 15:03:37 02 Apr 13 HG
240-22281-B-6-B
Hg .0996 ppb .0000 .0996

*** Sample ID: Seq: 128 15:04:55 02 Apr 13 HG
240-22281-B-7-B
Hg .0359 ppb .0000 .0359

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 129 15:07:04 02 Apr 13 HG
240-22281-B-8-B
Hg .0407 ppb .0000 .0407

*** Sample ID: Seq: 130 15:08:32 02 Apr 13 HG
240-22281-B-9-B
Hg .0197 ppb .0000 .0197

*** Sample ID: Seq: 131 15:09:52 02 Apr 13 HG
240-22281-B-10-B
Hg .0256 ppb .0000 .0256

*** Sample ID: Seq: 132 15:11:09 02 Apr 13 HG
240-22281-B-11-B
Hg .0882 ppb .0000 .0882

*** Sample ID: Seq: 133 15:12:57 02 Apr 13 HG
240-22281-B-17-A
Hg .3297 ppb .0000 .3297

*** Sample ID: Seq: 134 15:14:48 02 Apr 13 HG
MB 240-80130/1-A
Hg -.0371 ppb .0000 -.0371

*** Check Standard: 6 Ck6CCV Seq: 135 15:16:15 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.061	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 136 15:17:43 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0352	.2000	ppb	.0000

*** Sample ID: Seq: 137 15:19:02 02 Apr 13 HG
LCS 240-80130/2-A
Hg 4.857 ppb .0000 4.857

*** Sample ID: Seq: 138 15:20:31 02 Apr 13 HG
240-22281-B-20-B
Hg .1295 ppb .0000 .1295

*** Sample ID: Seq: 139 15:21:52 02 Apr 13 HG
240-22281-B-20-C DU
Hg .0754 ppb .0000 .0754

*** Sample ID: Seq: 140 15:23:09 02 Apr 13 HG
240-22281-B-20-D MS
Hg 1.026 ppb .0000 1.026

*** Sample ID: Seq: 141 15:24:26 02 Apr 13 HG
240-22281-B-22-B
Hg .0354 ppb .0000 .0354

*** Sample ID: Seq: 142 15:26:17 02 Apr 13 HG
240-22281-B-23-B
Hg .0853 ppb .0000 .0853

*** Sample ID: Seq: 143 15:27:46 02 Apr 13 HG
240-22281-B-25-B
Hg .1192 ppb .0000 .1192

*** Sample ID: Seq: 144 15:29:14 02 Apr 13 HG
240-22281-B-26-B
Hg .0064 ppb .0000 .0064

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 145 15:30:37 02 Apr 13 HG
240-22281-B-27-B

Hg	.1084	ppb	.0000	.1084

*** Sample ID: Seq: 146 15:32:26 02 Apr 13 HG
240-22281-B-28-B

Hg	.0380	ppb	.0000	.0380

*** Check Standard: 6 Ck6CCV Seq: 147 15:33:54 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.0	5.052	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 148 15:35:39 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0119	.2000	ppb	.0000

*** Sample ID: Seq: 149 15:36:55 02 Apr 13 HG
240-22281-B-29-B

Hg	.0302	ppb	.0000	.0302

*** Sample ID: Seq: 150 15:38:17 02 Apr 13 HG
240-22281-B-30-B

Hg	.0609	ppb	.0000	.0609

*** Sample ID: Seq: 151 15:40:45 02 Apr 13 HG
240-22281-B-31-B

Hg	.2761	ppb	.0000	.2761

*** Sample ID: Seq: 152 15:42:06 02 Apr 13 HG
240-22281-B-32-B

Hg	.0744	ppb	.0000	.0744

*** Sample ID: Seq: 153 15:43:28 02 Apr 13 HG
240-22281-B-33-B

Hg	.1124	ppb	.0000	.1124

*** Sample ID: Seq: 154 15:45:11 02 Apr 13 HG
240-22281-B-34-B

Hg	.2895	ppb	.0000	.2895

*** Sample ID: Seq: 155 15:46:38 02 Apr 13 HG
240-22281-B-35-B

Hg	.1778	ppb	.0000	.1778

*** Sample ID: Seq: 156 15:48:21 02 Apr 13 HG
240-22281-B-36-B

Hg	.0453	ppb	.0000	.0453

*** Sample ID: Seq: 157 15:49:39 02 Apr 13 HG
240-22281-B-37-B

Hg	.0990	ppb	.0000	.0990

*** Sample ID: Seq: 158 15:51:00 02 Apr 13 HG
240-22281-B-38-B

Hg	.0516	ppb	.0000	.0516

*** Check Standard: 6 Ck6CCV Seq: 159 15:52:33 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.3	5.063	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 160 15:54:54 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0056	.2000	ppb	.0000

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 161 15:56:35 02 Apr 13 HG
240-22281-B-39-B

Hg	.0327	ppb	.0000	.0327				

*** Sample ID: Seq: 162 15:58:13 02 Apr 13 HG
240-22281-B-18-A

Hg	.2321	ppb	.0000	.2321				

*** Sample ID: Seq: 163 15:59:40 02 Apr 13 HG
240-22281-B-19-A

Hg	.1600	ppb	.0000	.1600				

*** Sample ID: Seq: 164 16:00:57 02 Apr 13 HG
Ck4CRA/MRL

Hg	.1957	ppb	.0000	.1957				

*** Sample ID: Seq: 165 16:02:23 02 Apr 13 HG
Ck4CRA/MRL

Hg	.1835	ppb	.0000	.1835				

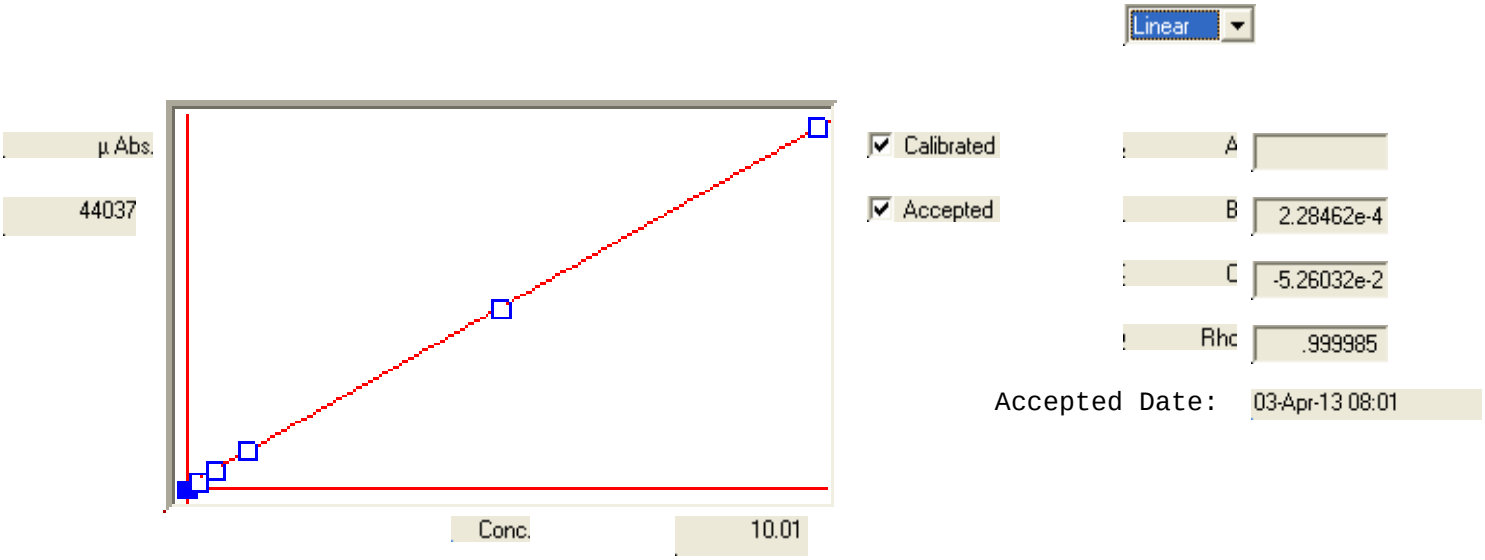
*** Check Standard: 6 Ck6CCV Seq: 166 16:03:44 02 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.039	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 167 16:05:23 02 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0331	.2000	ppb	.0000

Protocol: 0403AHG1



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.0100	.0100	275	1	274				
02	.20000	.1786	-.0214	1012	0%	1012				
03	.50000	.4911	-.0089	2380	0%	2380				
04	1.0000	1.034	.0340	4756	0%	4756				
05	5.0000	4.978	-.0219	22020	0%	22020				
06	10.000	10.01	.0082	44037	0%	44037				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 07:47:25 03 Apr 13 HG

Hg .0000 ppb 274

*** Standard: 2 Rep: 1 Seq: 2 07:48:45 03 Apr 13 HG

Hg .2000 ppb 1012

*** Standard: 3 Rep: 1 Seq: 3 07:50:25 03 Apr 13 HG

Hg .5000 ppb 2380

*** Standard: 4 Rep: 1 Seq: 4 07:52:52 03 Apr 13 HG

Hg 1.000 ppb 4756

*** Standard: 5 Rep: 1 Seq: 5 07:54:08 03 Apr 13 HG

Hg 5.000 ppb 22020

*** Standard: 6 Rep: 1 Seq: 6 07:55:25 03 Apr 13 HG

Hg 10.00 ppb 44037

*** Check Standard: 2 Ck2ICV Seq: 7 08:02:24 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.47	2.487	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 08:03:54 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0090	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 08:05:10 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		80.62	.1612	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 08:06:32 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.040	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 08:07:48 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0097	.2000	ppb	.0000

*** Sample ID: Seq: 12 08:09:04 03 Apr 13 HG
MB 240-80273/1-A

Hg	-.0362	ppb	.0000	-.0362

*** Sample ID: Seq: 13 08:10:20 03 Apr 13 HG
LCS 240-80273/2-A

Hg	5.067	ppb	.0000	5.067

*** Sample ID: Seq: 14 08:11:35 03 Apr 13 HG
240-22450-G-4-D

Hg	-.0097	ppb	.0000	-.0097

*** Sample ID: Seq: 15 08:13:01 03 Apr 13 HG
240-22450-G-4-E MS

Hg	1.034	ppb	.0000	1.034

*** Sample ID: Seq: 16 08:14:17 03 Apr 13 HG
240-22450-G-4-F MSD

Hg	1.045	ppb	.0000	1.045

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 17 08:15:32 03 Apr 13 HG
240-22450-G-5-B
Hg .0239 ppb .0000 .0239

*** Sample ID: Seq: 18 08:17:19 03 Apr 13 HG
240-22450-G-6-B
Hg .0438 ppb .0000 .0438

*** Sample ID: Seq: 19 08:18:36 03 Apr 13 HG
240-22467-B-1-E
Hg .0845 ppb .0000 .0845

*** Sample ID: Seq: 20 08:19:54 03 Apr 13 HG
240-22631-E-2-B
Hg .3296 ppb .0000 .3296

*** Sample ID: Seq: 21 08:21:32 03 Apr 13 HG
240-22631-E-3-B
Hg .1238 ppb .0000 .1238

*** Check Standard: 6 Ck6CCV Seq: 22 08:22:49 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.7	5.086	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 08:24:05 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0277	.2000	ppb	.0000

*** Sample ID: Seq: 24 08:25:40 03 Apr 13 HG
240-22631-E-4-B
Hg 1.021 ppb .0000 1.021

*** Sample ID: Seq: 25 08:27:00 03 Apr 13 HG
240-22631-E-5-B
Hg .3123 ppb .0000 .3123

*** Sample ID: Seq: 26 08:28:15 03 Apr 13 HG
240-22631-E-6-B
Hg .2928 ppb .0000 .2928

*** Sample ID: Seq: 27 08:30:42 03 Apr 13 HG
240-22631-E-7-B
Hg .5830 ppb .0000 .5830

*** Sample ID: Seq: 28 08:31:58 03 Apr 13 HG
240-22631-E-8-B
Hg .2748 ppb .0000 .2748

*** Sample ID: Seq: 29 08:33:16 03 Apr 13 HG
240-22602-E-21-B
Hg .3547 ppb .0000 .3547

*** Sample ID: Seq: 30 08:34:55 03 Apr 13 HG
240-22602-E-22-B
Hg .5640 ppb .0000 .5640

*** Sample ID: Seq: 31 08:36:25 03 Apr 13 HG
240-22602-E-23-B
Hg .0424 ppb .0000 .0424

*** Sample ID: Seq: 32 08:37:46 03 Apr 13 HG
190-327-A-1-C
Hg -.0277 ppb .0000 -.0277

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 33 08:39:47 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.060	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 34 08:41:06 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0279	.2000	ppb	.0000

*** Sample ID: Seq: 35 08:42:41 03 Apr 13 HG
MB 240-80246/1-A

Hg	-.0366	ppb	.0000	-.0366

*** Sample ID: Seq: 36 08:44:20 03 Apr 13 HG
LCS 240-80246/2-A

Hg	5.237	ppb	.0000	5.237

*** Sample ID: Seq: 37 08:46:10 03 Apr 13 HG
240-22602-M-14-D

Hg	.0635	ppb	.0000	.0635

*** Sample ID: Seq: 38 08:47:38 03 Apr 13 HG
240-22602-M-14-E MS

Hg	1.098	ppb	.0000	1.098

*** Sample ID: Seq: 39 08:48:56 03 Apr 13 HG
240-22602-M-14-F MSD

Hg	1.104	ppb	.0000	1.104

*** Sample ID: Seq: 40 08:50:31 03 Apr 13 HG
240-22602-E-2-C

Hg	.0383	ppb	.0000	.0383

*** Sample ID: Seq: 41 08:51:59 03 Apr 13 HG
240-22602-E-3-C

Hg	.2773	ppb	.0000	.2773

*** Sample ID: Seq: 42 08:53:44 03 Apr 13 HG
240-22602-E-4-C

Hg	.1005	ppb	.0000	.1005

*** Sample ID: Seq: 43 08:55:00 03 Apr 13 HG
240-22602-E-5-C

Hg	.0806	ppb	.0000	.0806

*** Sample ID: Seq: 44 08:56:37 03 Apr 13 HG
240-22602-E-6-C

Hg	.1919	ppb	.0000	.1919

*** Check Standard: 6 Ck6CCV Seq: 45 08:58:34 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.8	5.091	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 46 08:59:50 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0108	.2000	ppb	.0000

*** Sample ID: Seq: 47 09:01:09 03 Apr 13 HG
240-22602-E-7-C

Hg	.1898	ppb	.0000	.1898

*** Sample ID: Seq: 48 09:03:10 03 Apr 13 HG
240-22602-E-8-C

Hg	.2339	ppb	.0000	.2339

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 49		09:04:42 03 Apr 13			HG
				240-22602-E-9-C					
Hg	.2124	ppb	.0000	.2124					
*** Sample ID:				Seq: 50		09:06:00 03 Apr 13			HG
				240-22602-E-10-C					
Hg	.0068	ppb	.0000	.0068					
*** Sample ID:				Seq: 51		09:07:27 03 Apr 13			HG
				240-22602-E-11-C					
Hg	.8699	ppb	.0000	.8699					
*** Sample ID:				Seq: 52		09:08:44 03 Apr 13			HG
				240-22602-E-12-C					
Hg	.0045	ppb	.0000	.0045					
*** Sample ID:				Seq: 53		09:10:10 03 Apr 13			HG
				240-22602-E-13-C					
Hg	.3029	ppb	.0000	.3029					
*** Sample ID:				Seq: 54		09:11:25 03 Apr 13			HG
				240-22602-E-15-B					
Hg	.3093	ppb	.0000	.3093					
*** Sample ID:				Seq: 55		09:12:44 03 Apr 13			HG
				240-22602-E-16-B					
Hg	.5510	ppb	.0000	.5510					
*** Sample ID:				Seq: 56		09:14:10 03 Apr 13			HG
				240-22602-E-17-B					
Hg	.8692	ppb	.0000	.8692					
*** Check Standard: 6 Ck6CCV				Seq: 57		09:15:49 03 Apr 13			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		101.7	5.086	5.000	ppb	.0000			
*** Check Standard: 1 Ck1CCB				Seq: 58		09:17:05 03 Apr 13			HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.0055	.2000	ppb	.0000				
*** Sample ID:				Seq: 59		09:18:21 03 Apr 13			HG
				240-22602-E-18-B					
Hg	.0308	ppb	.0000	.0308					
*** Sample ID:				Seq: 60		09:19:39 03 Apr 13			HG
				240-22602-E-19-B					
Hg	.1964	ppb	.0000	.1964					
*** Sample ID:				Seq: 61		09:21:48 03 Apr 13			HG
				240-22602-E-20-B					
Hg	17.75 H	ppb	.0000	17.75					
*** Sample ID:				Seq: 62		09:23:27 03 Apr 13			HG
				MB 240-79772/1-A					
Hg	-.0528	ppb	.0000	-.0528					
*** Sample ID:				Seq: 63		09:24:46 03 Apr 13			HG
				LCS 240-79772/2-A					
Hg	5.121	ppb	.0000	5.121					
*** Sample ID:				Seq: 64		09:26:07 03 Apr 13			HG
				240-22410-B-11-D					
Hg	-.0055	ppb	.0000	-.0055					

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 65		09:27:37 03 Apr 13			HG
				240-22410-B-11-E MS					
Hg	1.031	ppb	.0000	1.031					
*** Sample ID:				Seq: 66		09:29:05 03 Apr 13			HG
				240-22410-B-11-F MSD					
Hg	1.088	ppb	.0000	1.088					
*** Sample ID:				Seq: 67		09:31:01 03 Apr 13			HG
				240-22410-B-12-B					
Hg	-.0083	ppb	.0000	-.0083					
*** Sample ID:				Seq: 68		09:32:43 03 Apr 13			HG
				240-22410-B-13-B					
Hg	.2983	ppb	.0000	.2983					

*** Check Standard: 6 Ck6CCV Seq: 69 09:33:59 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.9	5.095	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 70 09:35:18 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0158	.2000	ppb	.0000

*** Sample ID:				Seq: 71		09:36:53 03 Apr 13			HG
				240-22410-B-14-B					
Hg	-.0204	ppb	.0000	-.0204					
*** Sample ID:				Seq: 72		09:38:09 03 Apr 13			HG
				240-22410-B-15-B					
Hg	-.0003	ppb	.0000	-.0003					
*** Sample ID:				Seq: 73		09:39:26 03 Apr 13			HG
				240-22410-B-16-B					
Hg	.0130	ppb	.0000	.0130					
*** Sample ID:				Seq: 74		09:41:03 03 Apr 13			HG
				240-22410-B-17-B					
Hg	.0013	ppb	.0000	.0013					
*** Sample ID:				Seq: 75		09:42:52 03 Apr 13			HG
				240-22410-B-18-B					
Hg	.0890	ppb	.0000	.0890					
*** Sample ID:				Seq: 76		09:44:09 03 Apr 13			HG
				240-22410-B-19-B					
Hg	3.909	ppb	.0000	3.909					
*** Sample ID:				Seq: 77		09:45:39 03 Apr 13			HG
				240-22410-B-20-B					
Hg	.0694	ppb	.0000	.0694					
*** Sample ID:				Seq: 78		09:46:58 03 Apr 13			HG
				240-22410-B-21-B					
Hg	.0150	ppb	.0000	.0150					
*** Sample ID:				Seq: 79		09:48:14 03 Apr 13			HG
				240-22410-B-22-B					
Hg	-.0003	ppb	.0000	-.0003					
*** Sample ID:				Seq: 80		09:49:35 03 Apr 13			HG
				240-22410-B-23-B					
Hg	.0310	ppb	.0000	.0310					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 81 09:51:03 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.1	5.055	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 82 09:52:23 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0106	.2000	ppb	.0000

*** Sample ID: Seq: 83 09:53:51 03 Apr 13 HG
240-22410-B-24-B

Hg	.4112	ppb	.0000	.4112

*** Sample ID: Seq: 84 09:55:09 03 Apr 13 HG
240-22410-B-25-B

Hg	.0317	ppb	.0000	.0317

*** Sample ID: Seq: 85 09:56:39 03 Apr 13 HG
240-22410-B-26-B

Hg	.0790	ppb	.0000	.0790

*** Sample ID: Seq: 86 09:59:07 03 Apr 13 HG
240-22410-B-27-B

Hg	.0187	ppb	.0000	.0187

*** Sample ID: Seq: 87 10:00:39 03 Apr 13 HG
240-22410-B-28-B

Hg	.0043	ppb	.0000	.0043

*** Sample ID: Seq: 88 10:01:58 03 Apr 13 HG
240-22410-B-29-B

Hg	.0543	ppb	.0000	.0543

*** Sample ID: Seq: 89 10:03:36 03 Apr 13 HG
240-22410-B-30-B

Hg	.0054	ppb	.0000	.0054

*** Check Standard: 6 Ck6CCV Seq: 90 10:05:24 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.1	5.107	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 91 10:06:53 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0190	.2000	ppb	.0000

*** Sample ID: Seq: 92 10:08:48 03 Apr 13 HG
240-22602-E-20-B@4

Hg	4.359	ppb	.0000	4.359

*** Sample ID: Seq: 93 10:10:12 03 Apr 13 HG
LB 240-80171/2-C

Hg	-.0599	ppb	.0000	-.0599

*** Sample ID: Seq: 94 10:11:28 03 Apr 13 HG
MB 240-80290/2-A

Hg	-.0416	ppb	.0000	-.0416

*** Sample ID: Seq: 95 10:13:07 03 Apr 13 HG
LCS 240-80290/3-A

Hg	5.064	ppb	.0000	5.064

*** Sample ID: Seq: 96 10:14:37 03 Apr 13 HG
240-22329-A-1-P

Hg	-.0517	ppb	.0000	-.0517

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 97	10:15:58 03 Apr 13	HG		
				240-22329-A-1-Q MS				
Hg	4.894	ppb	.0000	4.894				
*** Sample ID:				Seq: 98	10:17:15 03 Apr 13	HG		
				240-22329-A-1-R MSD				
Hg	4.876	ppb	.0000	4.876				
*** Sample ID:				Seq: 99	10:18:30 03 Apr 13	HG		
				MB 240-80121/1-A				
Hg	-.0679	ppb	.0000	-.0679				
*** Sample ID:				Seq: 100	10:19:46 03 Apr 13	HG		
				LCS 240-80121/2-A				
Hg	4.873	ppb	.0000	4.873				
*** Sample ID:				Seq: 101	10:21:04 03 Apr 13	HG		
				240-22413-D-3-D				
Hg	.0527	ppb	.0000	.0527				
*** Check Standard: 6 Ck6CCV				Seq: 102	10:22:32 03 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.0	5.049	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 103	10:23:51 03 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0190	.2000	ppb	.0000			
*** Sample ID:				Seq: 104	10:25:18 03 Apr 13	HG		
				240-22413-D-3-E MS				
Hg	1.013	ppb	.0000	1.013				
*** Sample ID:				Seq: 105	10:26:45 03 Apr 13	HG		
				240-22413-D-3-F MSD				
Hg	1.105	ppb	.0000	1.105				
*** Sample ID:				Seq: 106	10:28:00 03 Apr 13	HG		
				240-22413-C-1-B				
Hg	.1169	ppb	.0000	.1169				
*** Sample ID:				Seq: 107	10:29:17 03 Apr 13	HG		
				240-22413-C-4-B				
Hg	.0445	ppb	.0000	.0445				
*** Sample ID:				Seq: 108	10:31:34 03 Apr 13	HG		
				240-22413-C-7-B				
Hg	.0162	ppb	.0000	.0162				
*** Sample ID:				Seq: 109	10:32:50 03 Apr 13	HG		
				240-22413-C-8-B				
Hg	-.0151	ppb	.0000	-.0151				
*** Sample ID:				Seq: 110	10:34:05 03 Apr 13	HG		
				240-22410-B-100-C				
Hg	.3392	ppb	.0000	.3392				
*** Sample ID:				Seq: 111	10:35:24 03 Apr 13	HG		
				240-22410-B-101-C				
Hg	.6483	ppb	.0000	.6483				
*** Sample ID:				Seq: 112	10:37:03 03 Apr 13	HG		
				240-22495-E-21-F				
Hg	.7134	ppb	.0000	.7134				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 113 10:38:21 03 Apr 13 HG
240-22495-E-22-D

Hg	.9517	ppb	.0000	.9517

*** Check Standard: 6 Ck6CCV Seq: 114 10:39:46 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.84	4.942	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 115 10:41:53 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0182	.2000	ppb	.0000

*** Sample ID: Seq: 116 10:43:18 03 Apr 13 HG
240-22495-E-23-D

Hg	1.034	ppb	.0000	1.034

*** Sample ID: Seq: 117 10:44:46 03 Apr 13 HG
240-22495-E-24-D

Hg	1.215	ppb	.0000	1.215

*** Sample ID: Seq: 118 10:46:15 03 Apr 13 HG
240-22495-E-25-D

Hg	1.184	ppb	.0000	1.184

*** Sample ID: Seq: 119 10:47:51 03 Apr 13 HG
240-22554-E-28-D

Hg	2.834	ppb	.0000	2.834

*** Sample ID: Seq: 120 10:49:16 03 Apr 13 HG
240-22554-E-29-D

Hg	1.400	ppb	.0000	1.400

*** Sample ID: Seq: 121 10:50:37 03 Apr 13 HG
240-22554-E-30-D

Hg	1.055	ppb	.0000	1.055

*** Sample ID: Seq: 122 10:51:57 03 Apr 13 HG
240-22554-E-31-D

Hg	1.175	ppb	.0000	1.175

*** Sample ID: Seq: 123 10:53:23 03 Apr 13 HG
240-22554-E-32-D

Hg	1.041	ppb	.0000	1.041

*** Sample ID: Seq: 124 10:54:50 03 Apr 13 HG
240-22554-E-33-D

Hg	.9131	ppb	.0000	.9131

*** Sample ID: Seq: 125 10:56:17 03 Apr 13 HG
240-22450-B-2-B

Hg	.0568	ppb	.0000	.0568

*** Check Standard: 6 Ck6CCV Seq: 126 10:57:53 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.8	5.141	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 127 10:59:20 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0036	.2000	ppb	.0000

*** Sample ID: Seq: 128 11:00:51 03 Apr 13 HG
240-22450-B-3-B

Hg	.0379	ppb	.0000	.0379

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 129	11:02:11 03 Apr 13	HG		
				MB 240-79808/1-A				
Hg	-.0165	ppb	.0000	-.0165				
*** Sample ID:				Seq: 130	11:03:31 03 Apr 13	HG		
				LCS 240-79808/2-A				
Hg	5.194	ppb	.0000	5.194				
*** Sample ID:				Seq: 131	11:04:48 03 Apr 13	HG		
				240-22410-B-1-D				
Hg	-.0231	ppb	.0000	-.0231				
*** Sample ID:				Seq: 132	11:06:04 03 Apr 13	HG		
				240-22410-B-1-E MS				
Hg	1.017	ppb	.0000	1.017				
*** Sample ID:				Seq: 133	11:07:30 03 Apr 13	HG		
				240-22410-B-1-F MSD				
Hg	1.194	ppb	.0000	1.194				
*** Sample ID:				Seq: 134	11:09:18 03 Apr 13	HG		
				240-22410-B-2-B				
Hg	.0239	ppb	.0000	.0239				
*** Sample ID:				Seq: 135	11:10:38 03 Apr 13	HG		
				240-22410-B-3-B				
Hg	-.0170	ppb	.0000	-.0170				
*** Sample ID:				Seq: 136	11:12:14 03 Apr 13	HG		
				240-22410-B-4-B				
Hg	.4395	ppb	.0000	.4395				
*** Sample ID:				Seq: 137	11:15:01 03 Apr 13	HG		
				240-22410-B-5-B				
Hg	.1781	ppb	.0000	.1781				

*** Check Standard: 6 Ck6CCV Seq: 138 11:16:48 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.149	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 139 11:18:13 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0021	.2000	ppb	.0000

*** Sample ID:				Seq: 140	11:20:30 03 Apr 13	HG		
				240-22410-B-6-B				
Hg	-.0110	ppb	.0000	-.0110				
*** Sample ID:				Seq: 141	11:22:09 03 Apr 13	HG		
				240-22410-B-7-B				
Hg	.0319	ppb	.0000	.0319				
*** Sample ID:				Seq: 142	11:24:09 03 Apr 13	HG		
				240-22410-B-8-B				
Hg	16.64 H	ppb	.0000	16.64				
*** Sample ID:				Seq: 143	11:25:36 03 Apr 13	HG		
				240-22410-B-9-B				
Hg	.0895	ppb	.0000	.0895				
*** Sample ID:				Seq: 144	11:26:55 03 Apr 13	HG		
				240-22410-B-10-B				
Hg	2.558	ppb	.0000	2.558				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 145 11:28:41 03 Apr 13 HG
240-22410-A-37-B

Hg	.0363	ppb	.0000	.0363				

*** Sample ID: Seq: 146 11:30:39 03 Apr 13 HG
240-22410-A-38-B

Hg	.3399	ppb	.0000	.3399				

*** Sample ID: Seq: 147 11:31:55 03 Apr 13 HG
240-22407-A-3-A

Hg	-.0288	ppb	.0000	-.0288				

*** Sample ID: Seq: 148 11:33:12 03 Apr 13 HG
MB 240-80281/1-A

Hg	-.0176	ppb	.0000	-.0176				

*** Sample ID: Seq: 149 11:34:29 03 Apr 13 HG
LCS 240-80281/2-A

Hg	5.225	ppb	.0000	5.225				

*** Check Standard: 6 Ck6CCV Seq: 150 11:35:46 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.8	5.139	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 151 11:37:17 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0060	.2000	ppb	.0000

*** Sample ID: Seq: 152 11:38:32 03 Apr 13 HG
240-22281-B-40-B

Hg	.0845	ppb	.0000	.0845				

*** Sample ID: Seq: 153 11:39:53 03 Apr 13 HG
240-22281-B-40-C DU

Hg	.0884	ppb	.0000	.0884				

*** Sample ID: Seq: 154 11:41:13 03 Apr 13 HG
240-22281-B-40-D MS

Hg	1.117	ppb	.0000	1.117				

*** Sample ID: Seq: 155 11:42:30 03 Apr 13 HG
240-22281-B-41-B

Hg	.0529	ppb	.0000	.0529				

*** Sample ID: Seq: 156 11:43:49 03 Apr 13 HG
240-22281-B-42-B

Hg	.0171	ppb	.0000	.0171				

*** Sample ID: Seq: 157 11:45:16 03 Apr 13 HG
240-22281-B-43-B

Hg	.0724	ppb	.0000	.0724				

*** Sample ID: Seq: 158 11:46:52 03 Apr 13 HG
240-22281-B-44-B

Hg	.0696	ppb	.0000	.0696				

*** Check Standard: 6 Ck6CCV Seq: 159 11:48:42 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.4	5.169	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 160 11:50:02 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0055	.2000	ppb	.0000

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 161 11:51:17 03 Apr 13 HG
240-22381-B-1-B
Hg .1123 ppb .0000 .1123

*** Sample ID: Seq: 162 11:52:53 03 Apr 13 HG
240-22381-B-2-B
Hg .0831 ppb .0000 .0831

*** Sample ID: Seq: 163 11:54:09 03 Apr 13 HG
240-22381-G-3-B
Hg .0561 ppb .0000 .0561

*** Sample ID: Seq: 164 11:55:39 03 Apr 13 HG
240-22381-B-4-B
Hg .0518 ppb .0000 .0518

*** Sample ID: Seq: 165 11:56:56 03 Apr 13 HG
240-22381-B-5-B
Hg .0566 ppb .0000 .0566

*** Sample ID: Seq: 166 11:58:14 03 Apr 13 HG
240-22381-G-6-B
Hg .1302 ppb .0000 .1302

*** Sample ID: Seq: 167 12:00:22 03 Apr 13 HG
240-22381-B-7-B
Hg .0769 ppb .0000 .0769

*** Sample ID: Seq: 168 12:02:32 03 Apr 13 HG
240-22381-B-8-B
Hg .1443 ppb .0000 .1443

*** Sample ID: Seq: 169 12:03:49 03 Apr 13 HG
240-22381-B-9-B
Hg .0422 ppb .0000 .0422

*** Sample ID: Seq: 170 12:05:07 03 Apr 13 HG
240-22381-B-10-B
Hg .0813 ppb .0000 .0813

*** Check Standard: 6 Ck6CCV Seq: 171 12:06:58 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.2	5.159	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 172 12:08:13 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0167	.2000	ppb	.0000

*** Sample ID: Seq: 173 12:09:31 03 Apr 13 HG
240-22381-B-11-B
Hg .1464 ppb .0000 .1464

*** Sample ID: Seq: 174 12:10:51 03 Apr 13 HG
240-22381-B-12-B
Hg .1272 ppb .0000 .1272

*** Sample ID: Seq: 175 12:13:11 03 Apr 13 HG
240-22381-B-13-B
Hg .1306 ppb .0000 .1306

*** Sample ID: Seq: 176 12:14:39 03 Apr 13 HG
240-22381-B-14-B
Hg .1073 ppb .0000 .1073

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 177 12:15:57 03 Apr 13 HG
240-22381-B-16-B

Hg	.1315	ppb	.0000	.1315				

*** Sample ID: Seq: 178 12:17:25 03 Apr 13 HG
Ck4CRA\MRL

Hg	.1964	ppb	.0000	.1964				

*** Sample ID: Seq: 179 12:18:52 03 Apr 13 HG
240-22410-B-8-B@4

Hg	4.099	ppb	.0000	4.099				

*** Check Standard: 6 Ck6CCV Seq: 180 12:20:28 03 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.8	5.139	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 181 12:21:54 03 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0010	.2000	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : (7471:)

Run Date: 4/3/2013 Analyst: A. Sutherland Instrument: H1

Review Items A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/3/2013 Reviewed from 7:47 to 12:21

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: Batch 80457

Level II

Reviewer: [signature] Date/Time: 4/4/13 Reviewed from 7:47 to 12:24

Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/2/2013 Curve Time 9:25-9:55 DILUTION H20 000013

Revised 11/29/2012

Dilution Corrected Concentrations

STD1 787361 INT STD 4/27/2013 10:06:01 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	97.462%	0.013	0.070	0.136	0.000	0.159	0.033	-0.032
2	22:07:27	100.412%	-0.008	0.054	-0.187	0.000	0.270	0.014	0.030
3	22:08:10	102.126%	-0.006	-0.123	0.051	0.000	-0.430	-0.047	0.002
x		100.000%	0.000	0.000	-0.000	0.000	0.000	0.000	0.000
σ		2.359%	0.012	0.107	0.167	0.000	0.376	0.042	0.031
%RSD		2.359	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	0.026	0.428	0.000	0.445	-0.128	-0.164	98.269%	-0.019
2	22:07:27	-0.009	-0.013	0.000	0.347	-0.145	0.486	100.053%	-0.049
3	22:08:10	-0.017	-0.414	0.000	-0.793	0.273	-0.322	101.678%	0.068
x		0.000	-0.000	0.000	0.000	0.000	0.000	100.000%	-0.000
σ		0.023	0.421	0.000	0.688	0.237	0.428	1.705%	0.061
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	1.705	0.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	0.002	0.010	-0.003	0.320	-0.234	-0.001	-0.005	0.001
2	22:07:27	0.003	-0.002	0.001	-0.038	0.151	0.000	0.017	-0.001
3	22:08:10	-0.006	-0.009	0.002	-0.282	0.084	0.001	-0.012	-0.001
x		0.000	0.000	-0.000	-0.000	0.000	0.000	0.000	0.000
σ		0.005	0.010	0.003	0.302	0.206	0.001	0.015	0.001
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	-0.001	-0.015	0.003	-0.023	0.009	-0.120	0.000	0.000
2	22:07:27	-0.014	0.008	-0.004	0.002	-0.034	0.027	0.000	-0.000
3	22:08:10	0.015	0.007	0.001	0.021	0.024	0.094	0.000	-0.000
x		0.000	0.000	-0.000	-0.000	-0.000	-0.000	0.000	-0.000
σ		0.014	0.013	0.004	0.022	0.030	0.109	0.000	0.000
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	97.860%	0.016	-0.010	98.081%	0.008	0.006	0.004	0.001
2	22:07:27	101.101%	-0.010	0.008	100.763%	-0.005	-0.004	-0.036	-0.023
3	22:08:10	101.039%	-0.006	0.002	101.156%	-0.002	-0.002	0.032	0.022
x		100.000%	0.000	0.000	100.000%	-0.000	-0.000	0.000	0.000
σ		1.854%	0.014	0.009	1.674%	0.007	0.005	0.034	0.022
%RSD		1.854	0.000	0.000	1.674	0.000	0.000	0.000	0.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	98.331%	0.008	0.003	-0.003	0.007	0.000	98.407%	98.498%
2	22:07:27	100.470%	0.003	-0.002	0.004	-0.001	-0.001	100.196%	100.411%
3	22:08:10	101.199%	-0.011	-0.001	-0.001	-0.006	0.001	101.397%	101.091%
x		100.000%	-0.000	0.000	-0.000	0.000	-0.000	100.000%	100.000%
σ		1.490%	0.010	0.002	0.003	0.007	0.001	1.505%	1.344%
%RSD		1.490	0.000	0.000	0.000	0.000	0.000	1.505	1.344
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:06:44	0.002	-0.001	-0.003	-0.001	-0.000	99.399%		
2	22:07:27	-0.001	-0.001	0.003	-0.002	-0.000	99.153%		
3	22:08:10	-0.001	0.002	0.000	0.003	0.000	101.447%		
x		0.000	0.000	0.000	-0.000	0.000	100.000%		
σ		0.001	0.002	0.003	0.002	0.000	1.259%		
%RSD		0.000	0.000	0.000	0.000	0.000	1.259		

STD2 781421 4/27/2013 10:11:01 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:44	78.084%	199.100	0.202	0.106	0.000	99330.000	99530.000	99810.000
2	22:12:27	77.720%	200.900	0.532	0.016	0.000	100300.000	100200.000	100200.000
3	22:13:10	76.806%	200.000	0.523	0.077	0.000	100300.000	100300.000	99990.000
x		77.537%	200.000	0.419	0.066	0.000	100000.000	100000.000	100000.000
σ		0.658%	0.922	0.188	0.046	0.000	580.700	413.100	193.200
%RSD		0.849	0.461	44.900	68.860	0.000	0.581	0.413	0.193
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:44	997.200	12.890	0.000	99290.000	98740.000	98930.000	72.843%	0.167
2	22:12:27	999.200	12.860	0.000	100600.000	101300.000	101000.000	70.725%	0.076
3	22:13:10	1004.000	12.890	0.000	100100.000	99920.000	100100.000	70.593%	0.147
x		1000.000	12.880	0.000	100000.000	100000.000	100000.000	71.387%	0.130
σ		3.252	0.018	0.000	658.300	1302.000	1030.000	1.263%	0.048
%RSD		0.325	0.138	0.000	0.658	1.302	1.030	1.769	36.890
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:44	197.800	197.700	990.100	49570.000	49600.000	198.000	198.100	198.100
2	22:12:27	201.000	201.200	1003.000	50270.000	50310.000	201.800	200.300	202.100
3	22:13:10	201.200	201.100	1007.000	50160.000	50090.000	200.200	201.600	199.900
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		1.877	1.991	8.756	373.100	361.200	1.927	1.804	2.028
%RSD		0.939	0.995	0.876	0.746	0.722	0.963	0.902	1.014
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:44	199.600	197.800	196.300	197.500	195.700	196.500	0.000	198.000
2	22:12:27	200.300	201.200	201.800	201.200	203.000	200.900	0.000	200.800
3	22:13:10	200.100	201.000	201.800	201.300	201.300	202.600	0.000	201.200
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		0.395	1.913	3.167	2.159	3.824	3.190	0.000	1.770
%RSD		0.197	0.957	1.583	1.079	1.912	1.595	0.000	0.885
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:44	72.444%	0.232	0.240	68.156%	197.700	198.000	197.900	197.900
2	22:12:27	71.312%	0.278	0.183	66.729%	200.600	201.100	201.500	201.100
3	22:13:10	70.533%	0.276	0.239	65.772%	201.700	200.900	200.600	201.000
x		71.429%	0.262	0.221	66.886%	200.000	200.000	200.000	200.000
σ		0.961%	0.026	0.033	1.200%	2.052	1.746	1.859	1.791
%RSD		1.345	10.010	14.780	1.794	1.026	0.873	0.929	0.895
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:44	73.028%	0.125	0.123	0.114	197.400	198.700	77.527%	77.912%
2	22:12:27	71.642%	0.093	0.107	0.094	201.500	201.400	76.617%	77.211%
3	22:13:10	71.612%	0.117	0.092	0.104	201.100	200.000	76.504%	77.034%
x		72.094%	0.112	0.107	0.104	200.000	200.000	76.883%	77.385%
σ		0.809%	0.017	0.016	0.010	2.257	1.348	0.561%	0.464%
%RSD		1.122	15.070	14.440	9.268	1.129	0.674	0.730	0.600
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:11:44	195.800	196.000	195.900	196.300	195.800	73.009%		
2	22:12:27	202.300	203.100	203.100	202.700	203.000	70.756%		
3	22:13:10	201.900	200.900	201.000	201.000	201.200	70.996%		
x		200.000	200.000	200.000	200.000	200.000	71.587%		
σ		3.604	3.615	3.680	3.275	3.730	1.237%		
%RSD		1.802	1.808	1.840	1.637	1.865	1.728		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:31	77.449%	0.071	203.800	203.400	0.000	53.900	37.460	36.540
2	22:17:14	81.912%	0.063	199.800	199.000	0.000	47.560	30.460	31.500
3	22:17:57	84.792%	0.067	196.400	197.600	0.000	46.690	32.180	32.570
x		81.385%	0.067	200.000	200.000	0.000	49.380	33.370	33.540
σ		3.700%	0.004	3.701	3.062	0.000	3.934	3.648	2.655
%RSD		4.546	5.847	1.850	1.531	0.000	7.967	10.930	7.917
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:31	8.876	10220.000	0.000	52.770	50.680	104.300	74.653%	204.800
2	22:17:14	8.574	9941.000	0.000	43.280	40.450	94.960	78.220%	197.500
3	22:17:57	8.502	9839.000	0.000	39.210	45.110	94.700	80.776%	197.700
x		8.651	10000.000	0.000	45.090	45.410	97.980	77.883%	200.000
σ		0.199	197.100	0.000	6.955	5.121	5.455	3.075%	4.122
%RSD		2.296	1.971	0.000	15.430	11.280	5.567	3.949	2.061
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:31	0.062	-0.025	1.225	30.430	30.270	0.076	0.145	0.260
2	22:17:14	0.030	-0.039	1.167	24.790	25.970	0.062	0.119	0.286
3	22:17:57	0.031	-0.033	1.145	24.150	24.460	0.080	0.179	0.282
x		0.041	-0.032	1.179	26.460	26.900	0.073	0.147	0.276
σ		0.018	0.007	0.042	3.457	3.016	0.010	0.030	0.014
%RSD		44.830	21.180	3.521	13.070	11.210	13.410	20.510	5.069
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:31	0.328	2.565	2.416	0.352	0.906	0.688	0.000	0.149
2	22:17:14	0.281	2.518	2.306	0.192	0.387	0.258	0.000	0.136
3	22:17:57	0.323	2.493	2.408	0.210	0.258	0.189	0.000	0.145
x		0.311	2.525	2.377	0.252	0.517	0.379	0.000	0.143
σ		0.026	0.037	0.061	0.088	0.343	0.270	0.000	0.007
%RSD		8.355	1.460	2.569	34.890	66.390	71.410	0.000	4.601
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:31	75.888%	201.300	202.300	75.164%	0.202	0.154	0.134	-0.363
2	22:17:14	79.952%	198.700	198.000	78.849%	0.150	0.151	0.042	-0.437
3	22:17:57	82.133%	200.000	199.600	80.660%	0.140	0.157	0.095	-0.497
x		79.325%	200.000	200.000	78.224%	0.164	0.154	0.090	-0.432
σ		3.169%	1.305	2.190	2.801%	0.034	0.003	0.046	0.067
%RSD		3.996	0.652	1.095	3.580	20.470	2.038	51.460	15.530
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:31	78.418%	202.000	202.800	202.600	0.243	0.348	81.519%	82.151%
2	22:17:14	82.075%	199.200	198.200	197.800	0.229	0.311	85.112%	85.535%
3	22:17:57	83.940%	198.800	199.000	199.500	0.296	0.324	86.921%	87.520%
x		81.478%	200.000	200.000	200.000	0.256	0.328	84.517%	85.069%
σ		2.809%	1.727	2.428	2.426	0.035	0.019	2.750%	2.715%
%RSD		3.447	0.864	1.214	1.213	13.730	5.742	3.253	3.192
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:16:31	0.061	0.065	0.140	0.140	0.146	82.253%		
2	22:17:14	0.058	0.063	0.136	0.123	0.132	86.432%		
3	22:17:57	0.059	0.059	0.131	0.122	0.125	88.071%		
x		0.059	0.062	0.136	0.128	0.134	85.585%		
σ		0.002	0.003	0.004	0.010	0.011	3.000%		
%RSD		2.727	4.610	3.172	7.985	7.919	3.505		

ICV 768044 4/27/2013 10:20:36 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:19	77.264%	78.790	81.700	79.690	0.000	39120.000	38770.000	38560.000
2	22:22:02	77.292%	79.100	80.990	80.620	0.000	39220.000	38840.000	38720.000
3	22:22:45	76.385%	80.170	82.810	81.090	0.000	39590.000	39090.000	39110.000
x		76.980%	99.192%	102.293%	100.583%	0.000	98.277%	97.259%	96.992%
σ		0.516%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.670	0.918	1.122	0.890	0.000	0.625	0.430	0.722
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:19	383.200	4910.000	0.000	39120.000	38190.000	38120.000	74.550%	78.260
2	22:22:02	381.400	4945.000	0.000	38520.000	37930.000	38200.000	73.109%	77.760
3	22:22:45	385.300	5007.000	0.000	39170.000	38430.000	38590.000	72.032%	79.030
x		95.836%	123.849%	0.000	97.339%	95.454%	95.758%	73.230%	97.937%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.264%	n/a
%RSD		0.508	0.992	0.000	0.920	0.645	0.665	1.726	0.817
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:19	78.370	78.620	384.100	19190.000	19110.000	78.810	79.830	81.520
2	22:22:02	78.730	78.560	379.200	19240.000	19260.000	79.110	79.140	80.270
3	22:22:45	78.630	79.070	389.000	19240.000	19250.000	79.700	79.370	81.590
x		98.221%	98.435%	96.025%	96.107%	96.044%	99.009%	99.311%	101.412%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.239	0.356	1.273	0.155	0.431	0.575	0.442	0.918
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:19	81.390	79.870	79.360	79.610	79.330	81.080	0.000	76.340
2	22:22:02	81.250	79.100	79.410	79.710	80.860	80.950	0.000	76.450
3	22:22:45	81.710	80.430	80.560	78.930	81.510	81.970	0.000	76.940
x		101.813%	99.751%	99.724%	99.271%	100.706%	101.671%	0.000	95.717%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.290	0.838	0.851	0.533	1.392	0.683	0.000	0.419
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:19	73.821%	79.660	80.510	71.666%	80.040	79.390	78.320	78.730
2	22:22:02	73.013%	80.240	81.260	70.234%	79.120	79.520	77.380	78.250
3	22:22:45	71.961%	80.600	81.710	68.899%	79.840	80.380	78.630	78.380
x		72.932%	100.209%	101.449%	70.266%	99.584%	99.703%	97.637%	98.070%
σ		0.933%	n/a	n/a	1.384%	n/a	n/a	n/a	n/a
%RSD		1.279	0.592	0.750	1.970	0.604	0.672	0.835	0.317
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:19	75.343%	78.420	76.710	76.870	77.260	77.490	79.682%	80.334%
2	22:22:02	75.259%	78.780	77.530	76.890	77.040	77.660	80.116%	80.811%
3	22:22:45	74.098%	78.490	77.330	77.550	76.640	77.850	79.107%	79.519%
x		74.900%	98.204%	96.489%	96.383%	96.225%	97.083%	79.635%	80.222%
σ		0.695%	n/a	n/a	n/a	n/a	n/a	0.506%	0.653%
%RSD		0.928	0.243	0.554	0.501	0.414	0.233	0.635	0.815
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:21:19	78.920	79.680	75.250	77.360	76.400	75.887%		
2	22:22:02	79.020	79.400	75.280	79.070	77.030	75.822%		
3	22:22:45	79.960	80.180	76.370	79.330	78.180	74.288%		
x		99.126%	99.690%	94.540%	98.236%	96.506%	75.333%		
σ		n/a	n/a	n/a	n/a	n/a	0.905%		
%RSD		0.723	0.494	0.841	1.362	1.172	1.201		

ICB 4/27/2013 10:28:53 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:36	91.660%	-0.010	0.626	0.347	0.000	3.532	1.341	1.208
2	22:30:20	94.935%	0.003	0.691	0.060	0.000	3.473	1.458	1.068
3	22:31:03	96.763%	0.000	0.334	0.045	0.000	3.230	1.423	1.513
x		94.452%	-0.002	0.550	0.151	0.000	3.412	1.407	1.263
σ		2.586%	0.007	0.190	0.170	0.000	0.160	0.060	0.228
%RSD		2.738	340.300	34.580	113.200	0.000	4.690	4.282	18.020
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:36	0.364	2.333	0.000	6.810	1.389	1.464	91.050%	-0.048
2	22:30:20	0.406	2.095	0.000	8.775	1.821	2.458	92.573%	-0.015
3	22:31:03	0.459	1.668	0.000	5.943	0.822	2.852	95.168%	-0.048
x		0.410	2.032	0.000	7.176	1.344	2.258	92.930%	-0.037
σ		0.048	0.337	0.000	1.451	0.501	0.715	2.082%	0.019
%RSD		11.630	16.560	0.000	20.220	37.270	31.660	2.241	52.070
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:36	-0.002	-0.046	0.050	0.279	0.665	0.001	-0.007	-0.000
2	22:30:20	-0.002	-0.018	0.038	0.061	-0.003	0.000	-0.006	0.011
3	22:31:03	-0.006	-0.031	0.049	0.208	1.515	0.002	0.006	0.005
x		-0.004	-0.032	0.046	0.183	0.726	0.001	-0.002	0.005
σ		0.003	0.014	0.007	0.112	0.761	0.001	0.007	0.006
%RSD		71.950	43.680	14.430	61.060	104.800	87.840	314.600	108.600
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:36	-0.012	0.089	0.089	0.011	-0.020	-0.105	0.000	0.004
2	22:30:20	-0.003	0.121	0.121	0.116	-0.018	0.415	0.000	0.005
3	22:31:03	-0.022	0.091	0.120	0.105	-0.011	0.308	0.000	0.006
x		-0.013	0.100	0.110	0.077	-0.016	0.206	0.000	0.005
σ		0.010	0.018	0.018	0.057	0.005	0.274	0.000	0.001
%RSD		76.460	17.940	16.390	74.130	28.130	133.100	0.000	21.880
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:36	91.559%	0.138	0.145	92.009%	0.001	0.012	0.016	0.012
2	22:30:20	93.607%	0.107	0.141	93.624%	0.007	0.000	0.007	0.008
3	22:31:03	95.392%	0.083	0.092	95.629%	0.006	-0.000	-0.011	-0.007
x		93.519%	0.109	0.126	93.754%	0.005	0.004	0.004	0.004
σ		1.918%	0.027	0.030	1.813%	0.003	0.007	0.013	0.010
%RSD		2.051	25.080	23.490	1.934	70.950	171.000	328.800	246.900
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:36	93.098%	-0.005	0.002	0.008	0.001	0.013	93.096%	93.760%
2	22:30:20	95.198%	0.003	0.005	0.008	0.012	-0.002	96.299%	96.121%
3	22:31:03	97.437%	0.014	0.011	0.003	0.001	0.009	96.900%	97.241%
x		95.244%	0.004	0.006	0.006	0.005	0.007	95.432%	95.707%
σ		2.170%	0.009	0.005	0.003	0.006	0.008	2.045%	1.777%
%RSD		2.278	240.600	79.610	49.150	134.000	120.700	2.143	1.857
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:29:36	0.002	0.002	0.009	0.003	0.009	93.368%		
2	22:30:20	0.005	0.001	0.010	0.004	0.007	95.235%		
3	22:31:03	0.002	0.001	0.008	0.009	0.009	96.515%		
x		0.003	0.001	0.009	0.005	0.008	95.039%		
σ		0.002	0.001	0.001	0.003	0.001	1.582%		
%RSD		54.530	50.740	13.330	58.900	14.280	1.665		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:54	93.712%	1.064	5.670	5.345	0.000	104.000	104.200	102.300
2	22:38:37	95.551%	0.972	5.029	5.246	0.000	104.100	102.100	100.300
3	22:39:20	95.190%	0.932	5.498	5.259	0.000	102.700	100.800	98.740
x		94.818%	98.940%	107.975%	105.670%	0.000	103.602%	102.400%	100.451%
σ		0.974%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.027	6.836	6.149	1.012	0.000	0.723	1.676	1.793
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:54	35.150	542.000	0.000	100.800	119.200	101.500	93.919%	5.487
2	22:38:37	34.780	528.400	0.000	105.200	106.300	105.100	91.080%	5.001
3	22:39:20	33.670	511.700	0.000	98.440	94.550	100.700	94.207%	4.650
x		115.104%	105.470%	0.000	101.476%	106.699%	102.410%	93.069%	100.923%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.728%	n/a
%RSD		2.227	2.885	0.000	3.360	11.570	2.267	1.857	8.334
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:54	0.883	1.926	5.198	54.200	53.910	0.526	1.090	2.166
2	22:38:37	0.910	1.991	5.275	54.420	54.930	0.485	1.068	2.244
3	22:39:20	0.900	1.961	5.053	51.360	51.370	0.485	1.032	2.152
x		89.792%	97.958%	1035.138%	106.651%	106.805%	99.757%	106.334%	109.360%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.488	1.677	2.178	3.206	3.430	4.797	2.728	2.270
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:54	2.247	5.642	5.958	1.072	4.774	4.586	0.000	4.386
2	22:38:37	2.225	5.647	5.668	0.911	4.817	4.327	0.000	4.309
3	22:39:20	2.125	5.501	5.311	0.716	4.662	4.162	0.000	4.249
x		109.943%	111.935%	112.916%	89.959%	95.024%	87.163%	0.000	86.290%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.968	1.484	5.747	19.790	1.684	4.900	0.000	1.589
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:54	101.727%	4.474	4.467	94.134%	0.943	0.989	1.129	1.052
2	22:38:37	102.898%	4.618	4.653	93.771%	0.972	0.974	1.028	0.988
3	22:39:20	102.536%	4.490	4.560	93.482%	0.970	1.012	1.073	1.031
x		102.387%	90.543%	91.196%	93.796%	96.188%	99.191%	107.651%	102.390%
σ		0.600%	n/a	n/a	0.327%	n/a	n/a	n/a	n/a
%RSD		0.586	1.744	2.039	0.348	1.683	1.925	4.680	3.206
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:54	94.835%	4.930	1.974	1.971	9.685	9.962	95.332%	95.542%
2	22:38:37	95.343%	5.023	1.910	1.973	9.729	9.685	95.587%	96.567%
3	22:39:20	95.498%	4.935	1.924	1.932	9.507	9.712	96.746%	96.721%
x		95.225%	99.257%	96.790%	97.937%	96.405%	97.860%	95.889%	96.276%
σ		0.347%	n/a	n/a	n/a	n/a	n/a	0.754%	0.641%
%RSD		0.364	1.058	1.738	1.165	1.217	1.561	0.786	0.666
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:37:54	0.947	0.936	0.986	0.962	0.978	96.397%		
2	22:38:37	0.921	0.941	0.976	0.991	0.976	95.824%		
3	22:39:20	0.916	0.955	0.961	0.977	0.953	96.075%		
x		92.789%	94.384%	97.420%	97.625%	96.903%	96.099%		
σ		n/a	n/a	n/a	n/a	n/a	0.287%		
%RSD		1.785	1.021	1.306	1.494	1.412	0.299		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:10	67.790%	0.004	0.381	-0.016	0.000	106400.000	105400.000	105400.000
2	22:46:53	68.068%	-0.004	0.221	-0.232	0.000	106000.000	103600.000	104300.000
3	22:47:36	69.142%	-0.004	-0.067	-0.191	0.000	103200.000	100700.000	100900.000
x		68.333%	-0.002	0.178	-0.146	0.000	105200.000	103200.000	103500.000
σ		0.714%	0.005	0.227	0.115	0.000	1764.000	2373.000	2370.000
%RSD		1.045	291.600	127.500	78.490	0.000	1.676	2.299	2.289
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:10	102200.000	26.640	0.000	108200.000	109000.000	110100.000	56.547%	2356.000
2	22:46:53	100500.000	25.840	0.000	106800.000	108100.000	108800.000	56.468%	2322.000
3	22:47:36	97850.000	25.640	0.000	103300.000	105400.000	105900.000	56.803%	2260.000
x		100200.000	26.040	0.000	106100.000	107500.000	108300.000	56.606%	2313.000
σ		2197.000	0.528	0.000	2509.000	1873.000	2170.000	0.175%	48.780
%RSD		2.193	2.026	0.000	2.364	1.742	2.004	0.310	2.109
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:10	-0.421	0.125	0.456	108900.000	109500.000	0.072	-0.021	0.884
2	22:46:53	-0.346	0.027	0.473	107400.000	107700.000	0.080	-0.105	0.881
3	22:47:36	-0.461	0.016	0.432	104800.000	105700.000	0.079	-0.170	0.871
x		-0.409	0.056	0.454	107000.000	107600.000	0.077	-0.098	0.879
σ		0.058	0.060	0.020	2091.000	1910.000	0.004	0.075	0.007
%RSD		14.280	107.100	4.497	1.953	1.775	5.643	75.860	0.759
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:10	1.634	3.472	2.244	0.031	0.356	-0.021	0.000	4.983
2	22:46:53	1.375	3.538	2.160	0.171	0.504	0.225	0.000	4.941
3	22:47:36	1.369	3.252	2.243	0.135	0.496	-0.092	0.000	4.977
x		1.459	3.421	2.216	0.112	0.452	0.037	0.000	4.967
σ		0.151	0.149	0.048	0.073	0.083	0.166	0.000	0.023
%RSD		10.370	4.370	2.173	64.580	18.370	443.800	0.000	0.456
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:10	56.603%	2198.000	2313.000	54.688%	0.881	0.816	0.296	0.194
2	22:46:53	56.755%	2204.000	2320.000	54.460%	0.843	0.841	0.183	0.191
3	22:47:36	56.846%	2179.000	2295.000	54.731%	0.808	0.771	0.140	0.155
x		56.735%	2194.000	2309.000	54.626%	0.844	0.809	0.206	0.180
σ		0.123%	13.230	12.680	0.145%	0.036	0.035	0.081	0.021
%RSD		0.216	0.603	0.549	0.266	4.292	4.347	39.270	11.900
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:10	62.065%	0.180	0.233	0.257	0.333	0.399	65.393%	65.322%
2	22:46:53	62.289%	0.189	0.273	0.231	0.435	0.379	65.388%	65.883%
3	22:47:36	62.758%	0.166	0.291	0.289	0.359	0.357	66.064%	66.806%
x		62.371%	0.178	0.266	0.259	0.376	0.378	65.615%	66.004%
σ		0.354%	0.011	0.030	0.029	0.053	0.021	0.389%	0.749%
%RSD		0.567	6.369	11.230	11.200	14.080	5.543	0.593	1.135
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:46:10	0.026	0.027	0.574	0.628	0.590	63.805%		
2	22:46:53	0.020	0.020	0.458	0.460	0.461	63.745%		
3	22:47:36	0.012	0.015	0.403	0.405	0.407	63.809%		
x		0.019	0.021	0.478	0.498	0.486	63.786%		
σ		0.007	0.006	0.087	0.116	0.094	0.036%		
%RSD		35.160	27.650	18.290	23.320	19.370	0.056		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:27	67.186%	20.610	48.330	46.800	0.000	104700.000	104500.000	103700.000
2	22:55:10	69.088%	19.220	45.370	45.240	0.000	99470.000	97960.000	97570.000
3	22:55:53	69.212%	19.920	46.460	45.780	0.000	101300.000	99530.000	99510.000
x		68.496%	99.602%	93.438%	91.878%	0.000	101.828%	100.647%	100.260%
σ		1.136%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.658	3.486	3.203	1.727	0.000	2.617	3.372	3.126
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:27	99940.000	531.100	0.000	105500.000	108000.000	108800.000	55.512%	2301.000
2	22:55:10	93710.000	492.500	0.000	100800.000	103300.000	102900.000	56.742%	2197.000
3	22:55:53	95570.000	499.900	0.000	101600.000	104600.000	105500.000	56.146%	2231.000
x		96.407%	101.567%	0.000	102.620%	105.317%	105.724%	56.134%	112.146%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.615%	n/a
%RSD		3.315	4.034	0.000	2.496	2.326	2.763	1.096	2.350
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:27	20.850	20.860	21.830	107200.000	108000.000	20.750	20.010	20.990
2	22:55:10	19.830	19.320	20.720	101600.000	101900.000	19.430	18.790	20.020
3	22:55:53	20.020	19.960	21.090	103300.000	103800.000	19.870	19.230	20.340
x		101.159%	100.230%	92.233%	104.052%	104.531%	100.073%	96.705%	102.239%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.702	3.851	2.666	2.720	2.983	3.342	3.181	2.419
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:27	21.950	23.330	23.260	21.350	53.610	52.700	0.000	26.710
2	22:55:10	20.100	21.830	21.710	21.300	50.620	50.810	0.000	25.460
3	22:55:53	20.570	23.480	21.820	21.650	52.160	51.390	0.000	25.780
x		104.363%	91.521%	89.052%	107.170%	104.258%	103.263%	0.000	129.910%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.600	3.988	3.892	0.899	2.869	1.871	0.000	2.502
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:27	55.952%	2181.000	2275.000	54.112%	21.780	21.760	20.850	20.320
2	22:55:10	57.593%	2092.000	2185.000	54.448%	20.930	20.830	20.110	19.580
3	22:55:53	57.073%	2132.000	2242.000	54.447%	21.090	20.760	20.330	20.100
x		56.872%	106.752%	111.705%	54.335%	106.343%	105.590%	102.146%	100.008%
σ		0.839%	n/a	n/a	0.194%	n/a	n/a	n/a	n/a
%RSD		1.475	2.084	2.030	0.356	2.122	2.629	1.853	1.884
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:27	61.281%	104.700	20.890	20.550	21.390	21.540	65.477%	65.620%
2	22:55:10	62.978%	100.100	19.780	20.060	20.060	20.530	67.289%	67.990%
3	22:55:53	62.697%	101.300	20.270	20.210	20.860	21.000	66.974%	67.079%
x		62.319%	102.047%	101.571%	101.368%	103.856%	105.125%	66.580%	66.896%
σ		0.910%	n/a	n/a	n/a	n/a	n/a	0.968%	1.195%
%RSD		1.460	2.315	2.728	1.252	3.230	2.387	1.454	1.787
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:54:27	21.040	21.210	21.620	21.570	21.710	63.492%		
2	22:55:10	20.240	20.230	20.570	20.430	20.540	65.739%		
3	22:55:53	20.900	20.980	21.200	21.370	21.340	64.351%		
x		103.637%	104.028%	105.635%	105.608%	105.987%	64.527%		
σ		n/a	n/a	n/a	n/a	n/a	1.134%		
%RSD		2.069	2.448	2.499	2.887	2.814	1.757		

CCV 790243 4/27/2013 11:02:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	72.070%	0.003	2.344	1.825	0.000	45.540	18.550	18.730
2	23:03:26	73.966%	0.002	2.232	1.502	0.000	44.130	18.280	18.000
3	23:04:09	73.337%	-0.005	2.032	1.647	0.000	45.050	17.590	17.910
x		73.125%	-0.000	2.203	1.658	0.000	44.910	18.140	18.210
σ		0.966%	0.004	0.158	0.162	0.000	0.716	0.495	0.447
%RSD		1.321	7437.000	7.157	9.778	0.000	1.594	2.728	2.456

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	473900.000	166.300	0.000	59.520	306.900	38.270	59.252%	1.492
2	23:03:26	463200.000	160.500	0.000	60.210	279.900	37.060	58.656%	1.819
3	23:04:09	463000.000	159.700	0.000	61.640	273.300	36.580	58.324%	1.621
x		466700.000	162.200	0.000	60.460	286.700	37.300	58.744%	1.644
σ		6222.000	3.618	0.000	1.082	17.790	0.871	0.470%	0.165
%RSD		1.333	2.231	0.000	1.790	6.204	2.335	0.800	10.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	-448.200	21430.000	21550.000	505500.000	533000.000	9.291	10550.000	18730.000
2	23:03:26	-480.500	20920.000	21230.000	499700.000	527200.000	8.828	10270.000	18210.000
3	23:04:09	-425.500	21060.000	21430.000	505500.000	529000.000	9.066	10230.000	18310.000
x		-451.400	21130.000	21410.000	503600.000	529700.000	9.062	10350.000	18420.000
σ		27.620	263.500	162.900	3322.000	2925.000	0.232	170.800	277.300
%RSD		6.118	1.247	0.761	0.660	0.552	2.555	1.650	1.506

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	20550.000	20360.000	20460.000	0.635	1.039	1.192	0.000	0.203
2	23:03:26	19980.000	19890.000	20260.000	0.512	0.756	1.054	0.000	0.184
3	23:04:09	19960.000	20180.000	20430.000	0.539	1.164	1.069	0.000	0.184
x		20160.000	20140.000	20380.000	0.562	0.986	1.105	0.000	0.190
σ		338.100	233.300	110.400	0.064	0.209	0.076	0.000	0.011
%RSD		1.677	1.158	0.542	11.440	21.200	6.849	0.000	5.867

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	56.794%	3.987	3.942	61.339%	0.457	0.425	0.035	0.003
2	23:03:26	57.560%	3.583	3.429	61.788%	0.406	0.385	-0.001	-0.001
3	23:04:09	57.202%	3.155	3.204	61.232%	0.391	0.385	-0.047	-0.008
x		57.185%	3.575	3.525	61.453%	0.418	0.398	-0.005	-0.002
σ		0.383%	0.416	0.378	0.295%	0.034	0.023	0.041	0.006
%RSD		0.670	11.640	10.730	0.479	8.167	5.719	878.700	270.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	69.256%	0.215	0.756	0.803	15610.000	15600.000	62.060%	61.739%
2	23:03:26	70.748%	0.217	0.730	0.758	15040.000	15220.000	63.287%	63.248%
3	23:04:09	69.564%	0.151	0.795	0.803	15420.000	15450.000	62.617%	63.053%
x		69.856%	0.195	0.760	0.788	15350.000	15420.000	62.655%	62.680%
σ		0.787%	0.037	0.033	0.026	286.300	194.300	0.614%	0.821%
%RSD		1.127	19.160	4.317	3.285	1.865	1.260	0.981	1.309

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:43	0.080	0.096	19220.000	20310.000	19590.000	65.809%
2	23:03:26	0.074	0.079	19240.000	20630.000	19730.000	65.828%
3	23:04:09	0.073	0.073	19180.000	20430.000	19730.000	66.640%
x		0.076	0.083	19210.000	20460.000	19680.000	66.092%
σ		0.004	0.012	30.800	158.500	82.780	0.474%
%RSD		4.868	13.950	0.160	0.775	0.421	0.717

CCV 790244 4/27/2013 11:11:41 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	75.618%	0.001	0.764	0.195	0.000	467100.000	945400.000	933800.000
2	23:13:06	77.101%	-0.006	0.759	0.089	0.000	467200.000	941800.000	929900.000
3	23:13:49	77.020%	0.001	0.676	-0.001	0.000	468300.000	949400.000	934900.000
x		76.580%	-0.001	0.733	0.094	0.000	467600.000	945500.000	932900.000
σ		0.834%	0.004	0.049	0.098	0.000	679.800	3783.000	2660.000
%RSD		1.089	351.200	6.741	104.200	0.000	0.145	0.400	0.285

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	8.959	148.800	0.000	470900.000	992300.000	947900.000	81.486%	0.721
2	23:13:06	8.608	146.600	0.000	466600.000	999900.000	954000.000	83.986%	0.805
3	23:13:49	8.310	148.700	0.000	464900.000	992300.000	950700.000	85.962%	0.956
x		8.626	148.000	0.000	467500.000	994800.000	950900.000	83.812%	0.827
σ		0.325	1.214	0.000	3110.000	4387.000	3083.000	2.243%	0.119
%RSD		3.766	0.820	0.000	0.665	0.441	0.324	2.676	14.430

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	-0.018	0.543	0.539	16.540	1448.000	0.525	-8.449	2.277
2	23:13:06	0.012	0.483	0.537	15.150	1426.000	0.472	-8.564	2.513
3	23:13:49	-0.008	0.538	0.542	13.920	1403.000	0.476	-8.216	2.546
x		-0.005	0.521	0.539	15.200	1426.000	0.491	-8.410	2.446
σ		0.016	0.034	0.003	1.311	22.190	0.029	0.178	0.147
%RSD		336.000	6.433	0.495	8.626	1.556	5.995	2.112	6.002

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	1.456	1.820	1.619	0.048	3.498	0.105	0.000	37.130
2	23:13:06	1.520	1.693	1.493	0.174	4.530	0.456	0.000	37.100
3	23:13:49	1.357	1.513	1.462	0.297	4.583	0.896	0.000	37.130
x		1.445	1.675	1.525	0.173	4.203	0.486	0.000	37.120
σ		0.082	0.154	0.083	0.125	0.612	0.397	0.000	0.019
%RSD		5.692	9.210	5.442	72.180	14.560	81.600	0.000	0.052

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	81.829%	1.376	0.949	69.868%	0.125	0.120	0.055	0.041
2	23:13:06	84.907%	1.343	0.933	71.805%	0.120	0.112	0.040	0.012
3	23:13:49	87.057%	1.434	0.836	73.947%	0.116	0.113	0.089	0.058
x		84.598%	1.384	0.906	71.873%	0.120	0.115	0.061	0.037
σ		2.628%	0.046	0.061	2.040%	0.004	0.004	0.025	0.023
%RSD		3.106	3.339	6.702	2.839	3.592	3.537	41.140	61.960

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	76.127%	0.369	0.326	0.309	1.514	1.524	79.021%	78.659%
2	23:13:06	79.154%	0.357	0.303	0.340	1.577	1.498	80.544%	81.337%
3	23:13:49	80.420%	0.288	0.305	0.344	1.530	1.536	81.951%	81.580%
x		78.567%	0.338	0.312	0.331	1.540	1.519	80.505%	80.525%
σ		2.206%	0.043	0.013	0.019	0.033	0.019	1.466%	1.621%
%RSD		2.808	12.860	4.155	5.850	2.123	1.274	1.820	2.013

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:23	0.084	0.091	0.889	0.969	0.907	63.235%
2	23:13:06	0.095	0.083	0.872	0.922	0.901	64.226%
3	23:13:49	0.093	0.089	0.867	0.915	0.891	64.863%
x		0.091	0.088	0.876	0.935	0.900	64.108%
σ		0.006	0.004	0.012	0.029	0.008	0.820%
%RSD		6.791	4.845	1.313	3.147	0.909	1.280

CCV 801624 4/27/2013 11:21:20 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	77.074%	99.410	96.030	95.400	0.000	49860.000	49940.000	49790.000
2	23:22:46	76.947%	102.500	99.830	99.930	0.000	51950.000	52230.000	51920.000
3	23:23:29	78.357%	98.590	96.330	96.500	0.000	50490.000	50600.000	50270.000
x		77.459%	100.176%	97.397%	97.276%	0.000	101.534%	101.850%	101.323%
σ		0.780%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.007	2.069	2.168	2.426	0.000	2.112	2.317	2.209

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	487.000	5103.000	0.000	49420.000	47240.000	48390.000	73.705%	97.800
2	23:22:46	505.700	5250.000	0.000	51220.000	49420.000	50760.000	72.099%	101.000
3	23:23:29	483.100	5021.000	0.000	50030.000	47980.000	49240.000	71.962%	96.430
x		98.384%	102.488%	0.000	100.450%	96.423%	98.920%	72.589%	98.418%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.969%	n/a
%RSD		2.458	2.264	0.000	1.816	2.306	2.425	1.335	2.399

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	95.910	96.730	492.700	24820.000	24890.000	98.260	101.300	100.200
2	23:22:46	99.400	99.950	516.900	25900.000	25930.000	102.000	103.000	104.100
3	23:23:29	96.250	96.750	501.300	24920.000	25050.000	97.770	100.500	100.900
x		97.187%	97.813%	100.728%	100.851%	101.156%	99.329%	101.630%	101.718%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.980	1.893	2.437	2.362	2.216	2.307	1.241	2.027

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	100.000	96.870	96.880	97.590	97.870	98.690	0.000	95.230
2	23:22:46	104.500	100.900	101.000	101.500	102.700	102.300	0.000	98.390
3	23:23:29	99.880	98.410	99.720	99.230	99.300	101.300	0.000	96.330
x		101.462%	98.742%	99.202%	99.433%	99.974%	100.766%	0.000	96.649%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.567	2.083	2.131	1.964	2.508	1.847	0.000	1.660

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	74.487%	96.900	96.430	73.671%	97.700	98.220	97.040	97.350
2	23:22:46	73.850%	102.300	103.100	71.922%	100.800	100.700	100.100	100.600
3	23:23:29	74.546%	98.820	100.200	73.366%	97.160	97.440	96.820	96.720
x		74.294%	99.343%	99.936%	72.987%	98.564%	98.796%	98.001%	98.233%
σ		0.386%	n/a	n/a	0.934%	n/a	n/a	n/a	n/a
%RSD		0.520	2.764	3.367	1.280	2.009	1.740	1.893	2.136

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	76.327%	95.560	93.790	94.320	95.870	96.200	82.081%	83.328%
2	23:22:46	76.270%	98.960	97.720	97.290	99.290	99.310	81.369%	83.028%
3	23:23:29	77.623%	95.020	94.190	94.170	95.100	96.130	83.339%	84.320%
x		76.740%	96.514%	95.233%	95.260%	96.755%	97.212%	82.263%	83.559%
σ		0.765%	n/a	n/a	n/a	n/a	n/a	0.997%	0.676%
%RSD		0.997	2.215	2.270	1.845	2.308	1.868	1.212	0.809

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:03	95.040	95.290	95.220	94.150	94.610	80.091%
2	23:22:46	98.140	98.390	98.190	97.770	97.950	79.209%
3	23:23:29	96.760	96.950	95.720	96.450	96.350	78.806%
x		96.650%	96.879%	96.377%	96.125%	96.303%	79.369%
σ		n/a	n/a	n/a	n/a	n/a	0.657%
%RSD		1.606	1.599	1.647	1.904	1.738	0.828

CCB1 4/27/2013 11:31:01 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:31:44	89.527%	-0.004	-0.628	-1.054	0.000	5.584	2.226	1.903
2	23:32:27	94.081%	0.004	-0.729	-1.291	0.000	4.881	2.202	1.942
3	23:33:10	95.690%	-0.008	-0.936	-1.336	0.000	4.559	2.012	1.837
x		93.099%	-0.003	-0.764	-1.227	0.000	5.008	2.147	1.894
σ		3.196%	0.006	0.157	0.152	0.000	0.524	0.117	0.053
%RSD		3.433	212.400	20.510	12.340	0.000	10.470	5.462	2.791
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:31:44	0.469	-0.258	0.000	20.550	3.956	3.072	88.192%	0.031
2	23:32:27	0.487	-0.633	0.000	16.800	3.271	2.097	91.984%	-0.044
3	23:33:10	0.509	-1.015	0.000	14.800	4.125	2.802	93.799%	-0.035
x		0.488	-0.635	0.000	17.380	3.784	2.657	91.325%	-0.016
σ		0.020	0.379	0.000	2.916	0.452	0.504	2.861%	0.041
%RSD		4.095	59.560	0.000	16.770	11.940	18.950	3.133	256.500
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:31:44	0.009	-0.031	0.099	2.248	1.360	0.000	0.027	0.052
2	23:32:27	-0.002	-0.020	0.087	1.376	1.306	0.003	0.015	0.045
3	23:33:10	-0.006	-0.026	0.091	1.173	1.133	0.002	0.025	0.039
x		0.000	-0.026	0.092	1.599	1.266	0.002	0.022	0.045
σ		0.008	0.005	0.006	0.571	0.119	0.001	0.006	0.007
%RSD		1975.000	21.090	6.824	35.730	9.379	89.660	27.140	14.980
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:31:44	0.019	0.152	0.121	0.011	0.091	0.034	0.000	0.006
2	23:32:27	0.029	0.137	0.079	0.029	-0.030	-0.039	0.000	0.007
3	23:33:10	-0.001	0.138	0.094	0.006	0.219	-0.009	0.000	0.005
x		0.016	0.142	0.098	0.015	0.094	-0.005	0.000	0.006
σ		0.015	0.008	0.021	0.012	0.124	0.037	0.000	0.001
%RSD		97.370	5.769	21.340	79.530	132.800	735.800	0.000	11.950
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:31:44	90.253%	0.286	0.239	93.840%	-0.024	-0.019	0.035	0.026
2	23:32:27	95.030%	0.225	0.221	96.625%	-0.027	-0.019	-0.003	0.009
3	23:33:10	95.875%	0.233	0.216	97.740%	-0.019	-0.022	-0.008	-0.003
x		93.719%	0.248	0.225	96.069%	-0.023	-0.020	0.008	0.011
σ		3.032%	0.033	0.012	2.009%	0.004	0.002	0.023	0.015
%RSD		3.235	13.440	5.505	2.091	16.750	10.120	292.600	135.900
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:31:44	93.953%	-0.033	0.076	0.069	0.005	0.009	96.535%	96.947%
2	23:32:27	98.235%	-0.028	0.074	0.072	0.016	0.005	100.160%	100.530%
3	23:33:10	98.981%	-0.039	0.068	0.068	0.009	0.010	100.976%	101.558%
x		97.056%	-0.033	0.073	0.070	0.010	0.008	99.224%	99.678%
σ		2.713%	0.005	0.004	0.002	0.005	0.003	2.364%	2.420%
%RSD		2.796	16.430	5.446	3.039	50.870	32.950	2.383	2.428
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:31:44	0.006	0.007	0.040	0.033	0.037	98.345%		
2	23:32:27	0.009	0.006	0.033	0.032	0.036	101.646%		
3	23:33:10	0.006	0.008	0.028	0.033	0.031	102.031%		
x		0.007	0.007	0.034	0.033	0.034	100.674%		
σ		0.002	0.001	0.006	0.001	0.003	2.026%		
%RSD		25.160	12.980	17.040	2.026	9.531	2.013		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	95.230%	-0.010	-1.085	-1.559	0.000	11.720	0.536	0.398
2	23:40:42	96.621%	-0.005	-1.182	-1.487	0.000	13.150	0.512	0.425
3	23:41:25	97.506%	-0.002	-1.240	-1.649	0.000	13.980	0.766	0.749
x		96.452%	-0.006	-1.169	-1.565	0.000	12.950	0.604	0.524
σ		1.147%	0.004	0.078	0.081	0.000	1.144	0.140	0.195
%RSD		1.189	69.270	6.705	5.165	0.000	8.837	23.220	37.280

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	0.591	2.478	0.000	45.200	0.449	2.284	89.280%	0.152
2	23:40:42	0.504	1.894	0.000	43.160	0.448	2.545	89.289%	0.028
3	23:41:25	0.501	1.837	0.000	44.240	-0.041	2.849	89.096%	0.072
x		0.532	2.070	0.000	44.200	0.285	2.560	89.221%	0.084
σ		0.051	0.355	0.000	1.019	0.282	0.283	0.109%	0.063
%RSD		9.611	17.150	0.000	2.306	99.060	11.050	0.122	74.530

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	-0.106	0.037	0.031	0.351	0.203	-0.007	0.026	0.387
2	23:40:42	0.014	0.017	0.024	-0.646	-0.233	-0.007	0.013	0.416
3	23:41:25	0.014	-0.001	0.030	-0.765	-0.017	-0.006	0.017	0.424
x		-0.026	0.018	0.029	-0.353	-0.015	-0.007	0.018	0.409
σ		0.069	0.019	0.004	0.613	0.218	0.001	0.007	0.020
%RSD		265.600	108.000	12.670	173.300	1430.000	9.077	35.290	4.845

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	0.092	0.263	0.257	-0.054	0.852	-0.272	0.000	0.004
2	23:40:42	0.086	0.287	0.206	-0.180	1.026	-0.564	0.000	0.002
3	23:41:25	0.067	0.288	0.200	-0.112	0.948	-0.194	0.000	0.004
x		0.082	0.280	0.221	-0.116	0.942	-0.344	0.000	0.003
σ		0.013	0.014	0.031	0.063	0.087	0.195	0.000	0.001
%RSD		16.040	5.058	14.210	54.670	9.248	56.790	0.000	37.160

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	92.515%	0.095	0.097	93.288%	0.075	0.068	-0.028	-0.026
2	23:40:42	91.551%	0.112	0.110	93.506%	0.050	0.047	-0.034	-0.025
3	23:41:25	92.262%	0.091	0.081	93.133%	0.039	0.046	-0.080	-0.052
x		92.109%	0.099	0.096	93.309%	0.054	0.053	-0.047	-0.034
σ		0.500%	0.011	0.014	0.188%	0.018	0.012	0.028	0.016
%RSD		0.543	11.130	15.040	0.201	33.670	23.330	60.200	45.760

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	94.503%	-0.007	0.032	0.029	0.003	0.003	97.764%	98.056%
2	23:40:42	95.210%	-0.044	0.034	0.043	0.001	0.015	98.617%	98.408%
3	23:41:25	95.173%	-0.058	0.027	0.021	0.010	0.014	98.045%	99.090%
x		94.962%	-0.036	0.031	0.031	0.005	0.011	98.142%	98.518%
σ		0.398%	0.026	0.004	0.011	0.005	0.007	0.435%	0.526%
%RSD		0.419	72.350	12.360	35.640	98.920	64.350	0.443	0.533

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:39:59	0.014	0.012	0.276	0.279	0.272	99.696%
2	23:40:42	0.007	0.006	0.203	0.212	0.217	98.605%
3	23:41:25	0.003	0.005	0.198	0.197	0.194	99.168%
x		0.008	0.007	0.226	0.229	0.228	99.156%
σ		0.005	0.004	0.044	0.043	0.040	0.546%
%RSD		71.390	49.900	19.380	18.890	17.520	0.550

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	90.621%	45.730	905.300	879.900	0.000	46470.000	45440.000	45950.000
2	23:48:55	91.993%	45.300	916.600	888.600	0.000	46300.000	45530.000	45630.000
3	23:49:38	91.433%	45.490	924.700	893.400	0.000	45410.000	44560.000	44770.000
x		91.349%	45.510	915.500	887.300	0.000	46060.000	45170.000	45450.000
σ		0.690%	0.212	9.788	6.836	0.000	571.900	538.200	607.700
%RSD		0.755	0.466	1.069	0.770	0.000	1.242	1.191	1.337

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	1777.000	8314.000	0.000	46860.000	46900.000	48140.000	68.057%	929.300
2	23:48:55	1766.000	8305.000	0.000	47580.000	48140.000	49180.000	65.162%	927.100
3	23:49:38	1728.000	8087.000	0.000	46360.000	47720.000	48800.000	64.124%	925.100
x		1757.000	8235.000	0.000	46940.000	47590.000	48700.000	65.781%	927.200
σ		25.590	128.600	0.000	612.500	633.400	526.800	2.039%	2.078
%RSD		1.456	1.561	0.000	1.305	1.331	1.082	3.099	0.224

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	456.400	180.800	487.000	974.900	997.400	450.400	443.200	222.200
2	23:48:55	459.700	184.700	501.200	997.800	1014.000	454.200	447.000	226.700
3	23:49:38	456.000	183.300	498.500	985.600	1001.000	450.300	444.600	225.300
x		457.400	182.900	495.600	986.100	1004.000	451.600	445.000	224.800
σ		2.039	1.941	7.501	11.460	8.771	2.184	1.922	2.316
%RSD		0.446	1.061	1.514	1.162	0.873	0.483	0.432	1.030

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	223.900	433.900	439.300	33.260	13.620	8.696	0.000	997.400
2	23:48:55	227.700	447.400	455.500	34.720	15.540	8.658	0.000	1019.000
3	23:49:38	222.900	448.100	450.400	34.410	16.690	8.412	0.000	1004.000
x		224.800	443.100	448.400	34.130	15.280	8.589	0.000	1007.000
σ		2.536	7.961	8.250	0.771	1.549	0.154	0.000	11.250
%RSD		1.128	1.797	1.840	2.259	10.130	1.795	0.000	1.117

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	65.833%	952.100	956.000	64.535%	47.630	48.220	47.630	39.450
2	23:48:55	63.843%	968.200	981.000	62.526%	48.500	48.730	47.980	38.960
3	23:49:38	62.908%	966.600	970.100	61.338%	48.040	48.190	47.880	40.050
x		64.195%	962.300	969.000	62.800%	48.060	48.380	47.830	39.490
σ		1.494%	8.872	12.540	1.616%	0.433	0.303	0.178	0.548
%RSD		2.327	0.922	1.294	2.574	0.901	0.627	0.372	1.388

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	68.422%	1988.000	458.300	456.200	1840.000	1841.000	77.401%	78.917%
2	23:48:55	67.643%	2029.000	461.200	459.600	1848.000	1838.000	76.765%	77.406%
3	23:49:38	66.603%	2005.000	459.800	457.800	1825.000	1834.000	75.352%	76.468%
x		67.556%	2007.000	459.800	457.900	1838.000	1838.000	76.506%	77.597%
σ		0.913%	20.230	1.482	1.716	11.710	3.428	1.049%	1.236%
%RSD		1.351	1.008	0.322	0.375	0.637	0.187	1.371	1.592

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:12	45.590	46.030	18.510	20.280	19.400	71.954%
2	23:48:55	46.770	47.550	18.760	20.620	19.620	69.517%
3	23:49:38	47.670	47.850	18.660	20.580	19.700	68.159%
x		46.680	47.140	18.640	20.490	19.570	69.877%
σ		1.047	0.972	0.128	0.184	0.152	1.923%
%RSD		2.244	2.062	0.685	0.898	0.778	2.751

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:21	75.787%	-0.005	734.900	716.900	0.000	403000.000	28020.000	28200.000
2	23:57:04	76.031%	-0.005	723.200	708.600	0.000	393100.000	27190.000	27370.000
3	23:57:47	74.801%	0.006	724.700	708.000	0.000	393400.000	27010.000	27050.000
x		75.540%	-0.002	727.600	711.200	0.000	396500.000	27400.000	27540.000
σ		0.651%	0.006	6.338	5.005	0.000	5662.000	541.100	597.400
%RSD		0.862	413.700	0.871	0.704	0.000	1.428	1.975	2.169
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:21	5.792	8279.000	0.000	14680.000	156900.000	160700.000	54.992%	2.058
2	23:57:04	5.577	7905.000	0.000	14440.000	155100.000	160300.000	53.436%	2.060
3	23:57:47	5.594	7844.000	0.000	14250.000	154100.000	157200.000	52.836%	1.938
x		5.655	8009.000	0.000	14460.000	155400.000	159400.000	53.755%	2.019
σ		0.120	235.600	0.000	215.900	1402.000	1922.000	1.113%	0.070
%RSD		2.115	2.942	0.000	1.493	0.902	1.205	2.070	3.460
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:21	-0.359	0.967	174.800	23620.000	22570.000	2.618	103.100	5.733
2	23:57:04	0.210	0.467	175.300	23520.000	22800.000	2.527	100.800	6.356
3	23:57:47	0.324	0.440	172.900	23460.000	22690.000	2.493	98.350	6.385
x		0.059	0.624	174.300	23530.000	22690.000	2.546	100.800	6.158
σ		0.366	0.297	1.229	84.060	115.300	0.064	2.396	0.369
%RSD		624.800	47.560	0.705	0.357	0.508	2.533	2.378	5.990
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:21	1.841	148.300	152.600	4.376	8.518	-0.607	0.000	440.400
2	23:57:04	1.848	148.000	152.100	4.332	9.838	-0.070	0.000	443.600
3	23:57:47	1.808	146.100	149.400	4.137	10.660	-0.564	0.000	435.600
x		1.832	147.500	151.400	4.282	9.673	-0.414	0.000	439.800
σ		0.021	1.238	1.694	0.127	1.081	0.298	0.000	4.054
%RSD		1.165	0.839	1.119	2.963	11.180	72.130	0.000	0.922
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:21	56.711%	6.350	6.520	51.526%	0.171	0.154	-0.008	-0.008
2	23:57:04	55.504%	6.297	6.380	50.737%	0.124	0.134	-0.036	-0.031
3	23:57:47	55.695%	6.039	6.108	50.771%	0.060	0.064	-0.033	-0.028
x		55.970%	6.229	6.336	51.012%	0.118	0.117	-0.026	-0.022
σ		0.649%	0.167	0.210	0.446%	0.055	0.047	0.015	0.013
%RSD		1.159	2.677	3.309	0.875	46.880	40.110	58.740	56.500
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:21	58.276%	10.660	0.357	0.365	599.100	600.800	66.368%	67.340%
2	23:57:04	57.813%	8.941	0.348	0.339	595.200	596.600	66.931%	68.163%
3	23:57:47	57.209%	8.192	0.335	0.325	590.800	592.200	66.598%	67.859%
x		57.766%	9.265	0.347	0.343	595.000	596.600	66.633%	67.787%
σ		0.535%	1.266	0.011	0.020	4.147	4.284	0.283%	0.416%
%RSD		0.926	13.670	3.195	5.966	0.697	0.718	0.425	0.614
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:56:21	0.128	0.122	32.100	30.120	30.880	58.835%		
2	23:57:04	0.102	0.099	31.810	29.970	30.640	59.571%		
3	23:57:47	0.090	0.084	31.330	29.350	30.180	59.750%		
x		0.106	0.102	31.750	29.810	30.570	59.385%		
σ		0.020	0.019	0.390	0.410	0.357	0.485%		
%RSD		18.460	18.850	1.230	1.376	1.167	0.816		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	72.933%	0.003	723.200	705.900	0.000	390100.000	27280.000	27390.000
2	00:05:14	72.635%	0.006	734.000	718.900	0.000	396700.000	27490.000	27800.000
3	00:05:57	71.845%	0.014	750.500	736.100	0.000	395900.000	27660.000	27840.000
x		72.471%	0.008	735.900	720.300	0.000	394200.000	27480.000	27680.000
σ		0.562%	0.006	13.760	15.150	0.000	3637.000	186.000	247.100
%RSD		0.776	76.440	1.870	2.103	0.000	0.923	0.677	0.893

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	4.400	8028.000	0.000	13840.000	147600.000	153200.000	52.922%	2.008
2	00:05:14	4.040	8139.000	0.000	14350.000	152900.000	157300.000	51.098%	1.880
3	00:05:57	4.921	8149.000	0.000	14360.000	155900.000	159900.000	49.969%	2.015
x		4.454	8105.000	0.000	14180.000	152100.000	156800.000	51.330%	1.968
σ		0.443	67.030	0.000	297.700	4188.000	3377.000	1.490%	0.076
%RSD		9.946	0.827	0.000	2.099	2.753	2.153	2.904	3.850

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	-0.352	1.064	172.400	22630.000	22170.000	2.611	99.570	5.349
2	00:05:14	-0.369	0.621	177.800	23420.000	22720.000	2.564	98.980	5.892
3	00:05:57	-0.122	0.477	180.700	23660.000	23030.000	2.663	101.700	6.105
x		-0.281	0.721	177.000	23230.000	22640.000	2.613	100.100	5.782
σ		0.138	0.306	4.218	536.600	435.000	0.050	1.432	0.390
%RSD		49.200	42.460	2.383	2.309	1.922	1.899	1.430	6.745

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	2.287	142.300	147.100	4.298	7.970	-0.656	0.000	429.000
2	00:05:14	2.150	147.200	149.100	4.298	9.024	-0.649	0.000	438.800
3	00:05:57	2.308	149.500	150.800	4.964	9.308	-0.182	0.000	440.400
x		2.248	146.300	149.000	4.520	8.767	-0.496	0.000	436.100
σ		0.086	3.696	1.833	0.385	0.705	0.272	0.000	6.173
%RSD		3.804	2.526	1.231	8.507	8.041	54.850	0.000	1.416

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	55.618%	5.834	5.811	51.298%	0.034	0.041	-0.029	-0.057
2	00:05:14	53.962%	5.626	5.789	49.539%	0.064	0.045	-0.000	-0.010
3	00:05:57	52.940%	5.856	6.023	48.659%	0.024	0.023	-0.066	-0.069
x		54.173%	5.772	5.874	49.832%	0.041	0.036	-0.032	-0.045
σ		1.351%	0.127	0.129	1.344%	0.021	0.012	0.033	0.031
%RSD		2.494	2.197	2.202	2.696	50.900	32.290	102.800	69.540

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	56.871%	5.290	0.311	0.277	573.400	579.300	66.266%	67.560%
2	00:05:14	56.200%	5.398	0.286	0.302	586.200	588.000	64.996%	66.393%
3	00:05:57	54.857%	5.381	0.344	0.309	595.700	597.100	65.078%	66.132%
x		55.976%	5.356	0.314	0.296	585.100	588.100	65.447%	66.695%
σ		1.025%	0.058	0.029	0.017	11.180	8.948	0.711%	0.760%
%RSD		1.832	1.084	9.270	5.709	1.911	1.521	1.086	1.140

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:31	0.033	0.036	30.370	28.410	29.150	59.344%
2	00:05:14	0.032	0.037	31.550	29.120	30.120	58.148%
3	00:05:57	0.035	0.039	31.670	29.410	30.340	57.731%
x		0.034	0.037	31.200	28.980	29.870	58.407%
σ		0.001	0.001	0.718	0.512	0.633	0.837%
%RSD		4.187	3.248	2.302	1.766	2.119	1.434

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	65.912%	0.000	669.600	655.200	0.000	681700.000	33230.000	33340.000
2	00:13:23	66.435%	0.016	643.700	628.800	0.000	649600.000	31760.000	32140.000
3	00:14:06	65.411%	0.001	666.800	653.600	0.000	671700.000	32600.000	32920.000
x		65.919%	0.006	660.000	645.900	0.000	667700.000	32530.000	32800.000
σ		0.512%	0.009	14.210	14.770	0.000	16420.000	737.100	605.600
%RSD		0.776	156.900	2.153	2.286	0.000	2.459	2.266	1.846
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	13.510	6926.000	0.000	14190.000	257400.000	267500.000	48.777%	2.138
2	00:13:23	12.800	6555.000	0.000	13620.000	250800.000	261000.000	47.546%	1.813
3	00:14:06	13.350	6659.000	0.000	13960.000	255300.000	265300.000	45.850%	2.319
x		13.220	6713.000	0.000	13920.000	254500.000	264600.000	47.391%	2.090
σ		0.372	191.300	0.000	288.000	3378.000	3311.000	1.469%	0.257
%RSD		2.811	2.849	0.000	2.068	1.327	1.251	3.101	12.280
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	-0.077	1.215	1018.000	8315.000	8333.000	2.664	18.980	17.270
2	00:13:23	0.057	0.496	1000.000	8107.000	8003.000	2.484	18.400	17.850
3	00:14:06	-1.464	0.394	1033.000	8319.000	8231.000	2.601	18.380	19.570
x		-0.495	0.702	1017.000	8247.000	8189.000	2.583	18.590	18.230
σ		0.842	0.447	16.390	121.100	169.100	0.091	0.342	1.198
%RSD		170.200	63.740	1.611	1.468	2.065	3.528	1.840	6.568
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	5.323	38.020	38.440	1.666	7.816	0.278	0.000	456.100
2	00:13:23	5.203	36.770	37.950	1.534	8.713	-0.162	0.000	439.500
3	00:14:06	5.098	38.400	40.640	1.529	9.104	-0.414	0.000	458.400
x		5.208	37.730	39.010	1.576	8.544	-0.100	0.000	451.300
σ		0.113	0.854	1.432	0.077	0.660	0.350	0.000	10.360
%RSD		2.169	2.263	3.672	4.910	7.730	352.000	0.000	2.296
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	51.101%	4.605	4.876	46.364%	0.007	-0.007	-0.035	-0.025
2	00:13:23	50.993%	4.546	4.800	42.829%	0.022	0.003	-0.001	-0.017
3	00:14:06	49.223%	4.588	5.008	41.402%	0.013	-0.003	-0.044	-0.033
x		50.439%	4.579	4.895	43.532%	0.014	-0.002	-0.027	-0.025
σ		1.055%	0.030	0.105	2.554%	0.008	0.005	0.022	0.008
%RSD		2.091	0.663	2.154	5.868	56.610	219.000	83.730	31.840
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	52.228%	4.641	6.455	6.618	497.000	498.100	61.124%	62.808%
2	00:13:23	52.345%	4.553	6.465	6.313	474.400	478.300	62.517%	63.109%
3	00:14:06	50.789%	4.624	6.743	6.663	494.500	496.900	60.032%	61.900%
x		51.787%	4.606	6.554	6.531	488.600	491.100	61.224%	62.606%
σ		0.866%	0.047	0.164	0.191	12.420	11.100	1.246%	0.629%
%RSD		1.673	1.010	2.495	2.921	2.541	2.261	2.034	1.005
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:12:40	0.025	0.022	6.199	6.167	6.173	53.873%		
2	00:13:23	0.026	0.020	5.728	5.726	5.756	55.789%		
3	00:14:06	0.017	0.025	6.089	6.041	6.082	53.855%		
x		0.023	0.022	6.005	5.978	6.004	54.506%		
σ		0.005	0.003	0.246	0.227	0.219	1.111%		
%RSD		21.570	12.180	4.098	3.798	3.654	2.039		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:20:51	65.226%	0.009	708.300	697.500	0.000	640500.000	33780.000	33840.000
2	00:21:33	65.716%	-0.008	687.000	675.000	0.000	613100.000	32140.000	32220.000
3	00:22:16	64.713%	0.005	695.600	683.900	0.000	624800.000	32820.000	33020.000
x		65.218%	0.002	697.000	685.500	0.000	626100.000	32910.000	33030.000
σ		0.502%	0.009	10.710	11.310	0.000	13740.000	826.700	812.500
%RSD		0.769	413.500	1.536	1.650	0.000	2.195	2.512	2.460
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:20:51	7.926	7298.000	0.000	14050.000	242100.000	252200.000	47.167%	2.099
2	00:21:33	7.440	6868.000	0.000	13350.000	232600.000	241300.000	46.780%	2.034
3	00:22:16	7.492	6994.000	0.000	13700.000	239400.000	247700.000	45.383%	2.150
x		7.619	7053.000	0.000	13700.000	238100.000	247100.000	46.443%	2.094
σ		0.267	221.300	0.000	351.900	4887.000	5484.000	0.938%	0.058
%RSD		3.500	3.138	0.000	2.568	2.053	2.219	2.020	2.772
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:20:51	0.324	1.201	443.800	20370.000	19940.000	0.620	4.565	13.610
2	00:21:33	0.037	0.539	431.300	19580.000	18720.000	0.600	4.333	13.330
3	00:22:16	-0.591	0.308	443.300	20130.000	19570.000	0.647	4.566	14.020
x		-0.076	0.683	439.500	20030.000	19410.000	0.622	4.488	13.660
σ		0.468	0.463	7.066	405.300	628.200	0.023	0.134	0.347
%RSD		612.700	67.860	1.608	2.024	3.237	3.753	2.986	2.538
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:20:51	1.587	11.480	11.540	3.869	6.786	-0.627	0.000	496.500
2	00:21:33	1.615	10.610	10.770	3.371	7.010	0.047	0.000	485.700
3	00:22:16	1.709	11.180	11.330	4.041	7.489	-0.407	0.000	492.800
x		1.637	11.090	11.210	3.760	7.095	-0.329	0.000	491.700
σ		0.064	0.440	0.398	0.348	0.359	0.344	0.000	5.504
%RSD		3.922	3.963	3.553	9.249	5.063	104.500	0.000	1.120
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:20:51	50.053%	1.802	1.818	43.078%	-0.011	-0.017	-0.097	-0.093
2	00:21:33	50.285%	1.798	1.859	46.127%	-0.019	-0.023	-0.109	-0.093
3	00:22:16	49.271%	1.726	1.826	44.716%	-0.011	-0.011	-0.103	-0.096
x		49.870%	1.775	1.834	44.640%	-0.014	-0.017	-0.103	-0.094
σ		0.531%	0.042	0.022	1.526%	0.004	0.006	0.006	0.002
%RSD		1.066	2.386	1.195	3.418	30.390	33.300	5.868	1.775
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:20:51	51.930%	3.376	4.009	3.997	574.300	578.400	60.414%	61.912%
2	00:21:33	52.424%	3.624	3.941	3.903	550.300	549.700	61.143%	62.745%
3	00:22:16	50.858%	3.703	4.093	4.091	563.800	565.300	60.804%	62.147%
x		51.737%	3.568	4.014	3.997	562.800	564.500	60.787%	62.268%
σ		0.800%	0.171	0.076	0.094	12.010	14.370	0.365%	0.430%
%RSD		1.547	4.779	1.891	2.359	2.134	2.545	0.600	0.690
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:20:51	0.015	0.011	4.156	3.977	4.089	53.388%		
2	00:21:33	0.013	0.008	3.843	3.987	3.898	55.337%		
3	00:22:16	0.012	0.009	4.155	4.113	4.108	53.660%		
x		0.014	0.009	4.052	4.026	4.032	54.128%		
σ		0.002	0.001	0.180	0.076	0.116	1.055%		
%RSD		11.790	15.020	4.450	1.888	2.886	1.949		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:01	64.411%	0.009	693.200	685.100	0.000	593400.000	31210.000	31430.000
2	00:29:44	63.074%	-0.007	713.900	704.400	0.000	596800.000	31390.000	31510.000
3	00:30:27	63.098%	0.005	720.200	701.700	0.000	597100.000	31350.000	31790.000
x		63.528%	0.002	709.100	697.100	0.000	595800.000	31320.000	31580.000
σ		0.765%	0.008	14.140	10.470	0.000	2064.000	91.180	188.000
%RSD		1.204	356.600	1.995	1.502	0.000	0.346	0.291	0.595
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:01	9.886	7316.000	0.000	13470.000	221000.000	230300.000	47.955%	1.475
2	00:29:44	9.904	7283.000	0.000	13580.000	226500.000	233400.000	46.328%	1.531
3	00:30:27	9.873	7332.000	0.000	13650.000	228700.000	237800.000	46.168%	1.800
x		9.888	7310.000	0.000	13570.000	225400.000	233800.000	46.817%	1.602
σ		0.016	24.740	0.000	91.250	3927.000	3744.000	0.988%	0.174
%RSD		0.161	0.338	0.000	0.673	1.742	1.601	2.111	10.860
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:01	-0.366	0.435	323.500	20220.000	19430.000	0.775	8.967	9.866
2	00:29:44	-0.229	0.143	334.700	20740.000	19850.000	0.780	8.853	10.580
3	00:30:27	-0.736	0.146	333.000	20590.000	19530.000	0.791	9.351	10.890
x		-0.444	0.241	330.400	20520.000	19600.000	0.782	9.057	10.450
σ		0.263	0.168	5.995	270.100	222.900	0.008	0.261	0.525
%RSD		59.160	69.650	1.815	1.316	1.137	1.050	2.879	5.026
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:01	0.830	11.740	12.150	6.187	4.374	0.096	0.000	499.000
2	00:29:44	0.992	12.080	12.130	6.683	5.321	-0.198	0.000	504.700
3	00:30:27	0.976	11.840	12.140	6.264	5.507	-0.218	0.000	510.300
x		0.933	11.890	12.140	6.378	5.067	-0.107	0.000	504.700
σ		0.089	0.176	0.013	0.267	0.608	0.176	0.000	5.632
%RSD		9.554	1.480	0.109	4.183	11.990	164.800	0.000	1.116
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:01	50.805%	1.885	2.007	48.196%	-0.021	-0.023	-0.145	-0.105
2	00:29:44	50.499%	1.991	2.055	43.425%	-0.017	-0.023	-0.079	-0.049
3	00:30:27	49.914%	2.199	2.106	43.249%	-0.026	-0.028	-0.100	-0.079
x		50.406%	2.025	2.056	44.957%	-0.021	-0.025	-0.108	-0.078
σ		0.453%	0.159	0.049	2.807%	0.005	0.003	0.034	0.028
%RSD		0.898	7.871	2.401	6.244	22.370	11.590	31.250	35.920
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:01	53.262%	2.387	0.259	0.242	724.100	728.600	62.151%	63.756%
2	00:29:44	52.082%	2.860	0.281	0.278	745.100	745.800	61.436%	62.990%
3	00:30:27	51.568%	2.895	0.279	0.262	745.700	753.500	61.190%	63.179%
x		52.304%	2.714	0.273	0.261	738.300	742.700	61.592%	63.308%
σ		0.869%	0.284	0.013	0.018	12.310	12.740	0.499%	0.399%
%RSD		1.661	10.450	4.621	7.004	1.667	1.715	0.811	0.630
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:29:01	0.013	0.006	1.121	1.109	1.090	55.981%		
2	00:29:44	0.011	0.008	1.138	1.111	1.115	55.713%		
3	00:30:27	0.004	0.007	1.167	1.161	1.153	55.186%		
x		0.009	0.007	1.142	1.127	1.119	55.627%		
σ		0.004	0.001	0.023	0.030	0.031	0.404%		
%RSD		46.470	17.930	2.007	2.625	2.810	0.727		

180-20261-C-4-D SD@5 4/28/2013 12:36:30 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	67.343%	-0.012	162.500	161.500	0.000	132300.000	6355.000	6837.000
2	00:37:56	68.469%	0.011	159.300	158.100	0.000	128000.000	6120.000	6584.000
3	00:38:39	69.187%	-0.000	156.600	154.300	0.000	126800.000	5978.000	6536.000
x		68.333%	-0.000	159.400	158.000	0.000	129100.000	6151.000	6652.000
σ		0.929%	0.011	2.958	3.623	0.000	2896.000	190.800	161.600
%RSD		1.360	3550.000	1.855	2.294	0.000	2.244	3.102	2.430

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	2.319	1592.000	0.000	2851.000	44700.000	46930.000	55.405%	0.266
2	00:37:56	2.250	1528.000	0.000	2794.000	44230.000	46130.000	55.457%	0.196
3	00:38:39	2.243	1498.000	0.000	2736.000	43180.000	45640.000	55.416%	0.107
x		2.271	1539.000	0.000	2793.000	44040.000	46230.000	55.426%	0.190
σ		0.042	47.840	0.000	57.620	778.500	650.500	0.027%	0.080
%RSD		1.856	3.108	0.000	2.063	1.768	1.407	0.049	42.200

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	0.063	0.075	67.250	4305.000	4154.000	0.166	2.206	2.392
2	00:37:56	-0.147	0.079	66.120	4205.000	4046.000	0.172	2.112	2.322
3	00:38:39	0.020	0.027	65.750	4190.000	4028.000	0.164	2.160	2.427
x		-0.022	0.060	66.380	4233.000	4076.000	0.167	2.159	2.380
σ		0.111	0.029	0.784	62.330	68.170	0.004	0.047	0.053
%RSD		515.800	47.950	1.181	1.472	1.672	2.408	2.183	2.239

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	0.266	3.546	4.027	1.458	1.828	-0.052	0.000	101.600
2	00:37:56	0.221	3.505	3.567	1.155	1.957	-0.626	0.000	99.410
3	00:38:39	0.258	3.346	3.319	1.274	1.762	-0.535	0.000	98.830
x		0.249	3.465	3.638	1.296	1.849	-0.404	0.000	99.930
σ		0.024	0.106	0.359	0.153	0.099	0.309	0.000	1.442
%RSD		9.807	3.044	9.872	11.790	5.362	76.320	0.000	1.443

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	58.415%	0.357	0.318	59.923%	-0.032	-0.035	-0.030	-0.016
2	00:37:56	59.076%	0.360	0.338	59.485%	-0.034	-0.040	-0.065	-0.047
3	00:38:39	59.236%	0.329	0.333	59.852%	-0.031	-0.038	-0.068	-0.049
x		58.909%	0.348	0.330	59.753%	-0.032	-0.038	-0.054	-0.037
σ		0.436%	0.017	0.010	0.235%	0.002	0.003	0.021	0.019
%RSD		0.739	4.973	3.051	0.394	5.716	7.712	39.210	49.760

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	60.906%	0.071	0.032	0.053	151.200	151.700	68.667%	70.093%
2	00:37:56	61.838%	0.070	0.047	0.045	150.500	150.900	69.689%	71.011%
3	00:38:39	61.935%	0.063	0.047	0.027	146.500	147.900	70.314%	71.182%
x		61.559%	0.068	0.042	0.042	149.400	150.200	69.556%	70.762%
σ		0.568%	0.005	0.008	0.013	2.540	1.979	0.831%	0.586%
%RSD		0.923	6.814	20.030	31.640	1.700	1.318	1.195	0.828

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:13	0.003	0.003	0.264	0.278	0.280	68.886%
2	00:37:56	-0.002	-0.001	0.263	0.263	0.262	69.000%
3	00:38:39	-0.000	-0.001	0.260	0.245	0.255	70.760%
x		0.000	0.001	0.262	0.262	0.265	69.549%
σ		0.002	0.002	0.002	0.017	0.013	1.051%
%RSD		1286.000	379.500	0.867	6.394	4.880	1.511

180-20261-C-4-E MS 4/28/2013 12:44:41 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	62.001%	46.030	1604.000	1559.000	0.000	651000.000	77920.000	78760.000
2	00:46:07	64.571%	43.230	1515.000	1466.000	0.000	601700.000	71740.000	72090.000
3	00:46:50	62.087%	46.890	1640.000	1596.000	0.000	657400.000	78420.000	78410.000
x		62.886%	45.380	1586.000	1540.000	0.000	636700.000	76030.000	76420.000
σ		1.460%	1.914	64.500	67.250	0.000	30480.000	3723.000	3751.000
%RSD		2.321	4.218	4.066	4.366	0.000	4.788	4.897	4.908

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	1795.000	16020.000	0.000	61620.000	273400.000	283900.000	46.279%	957.700
2	00:46:07	1649.000	14550.000	0.000	57040.000	259000.000	268600.000	47.131%	904.400
3	00:46:50	1785.000	15670.000	0.000	62300.000	281100.000	290900.000	44.021%	975.900
x		1743.000	15410.000	0.000	60320.000	271200.000	281100.000	45.810%	946.000
σ		81.720	769.400	0.000	2860.000	11240.000	11390.000	1.607%	37.170
%RSD		4.688	4.992	0.000	4.741	4.146	4.053	3.509	3.930

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	479.300	189.600	855.200	21580.000	20960.000	453.900	445.200	228.400
2	00:46:07	447.500	176.500	805.400	20370.000	19670.000	423.100	412.500	215.900
3	00:46:50	482.000	188.800	880.900	22000.000	21280.000	455.200	441.500	231.300
x		469.600	185.000	847.200	21320.000	20640.000	444.100	433.100	225.200
σ		19.210	7.367	38.350	847.400	850.900	18.150	17.910	8.201
%RSD		4.090	3.983	4.527	3.975	4.123	4.088	4.135	3.642

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	216.400	419.300	420.800	39.110	12.170	8.223	0.000	1535.000
2	00:46:07	202.500	400.300	400.700	35.880	12.300	6.948	0.000	1456.000
3	00:46:50	216.500	428.500	433.400	40.020	13.900	8.675	0.000	1571.000
x		211.800	416.000	418.300	38.330	12.790	7.948	0.000	1520.000
σ		8.033	14.380	16.480	2.177	0.962	0.895	0.000	58.840
%RSD		3.792	3.458	3.939	5.679	7.523	11.270	0.000	3.871

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	49.098%	996.900	1020.000	46.056%	45.500	45.810	45.420	36.940
2	00:46:07	50.007%	953.600	981.800	46.502%	43.270	43.440	44.170	34.660
3	00:46:50	47.915%	1059.000	1107.000	40.672%	49.290	48.980	47.140	37.530
x		49.006%	1003.000	1036.000	44.410%	46.020	46.070	45.580	36.380
σ		1.049%	52.930	64.310	3.245%	3.043	2.780	1.490	1.518
%RSD		2.141	5.276	6.205	7.307	6.612	6.033	3.270	4.173

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	50.158%	2049.000	461.600	460.100	2623.000	2625.000	59.535%	60.859%
2	00:46:07	50.964%	1965.000	445.200	441.900	2478.000	2484.000	61.355%	62.605%
3	00:46:50	49.110%	2097.000	472.000	471.900	2666.000	2661.000	58.891%	60.010%
x		50.077%	2037.000	459.600	458.000	2589.000	2590.000	59.927%	61.158%
σ		0.930%	66.890	13.530	15.080	98.510	93.590	1.278%	1.323%
%RSD		1.856	3.284	2.944	3.292	3.805	3.614	2.132	2.163

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:24	49.070	49.370	20.290	22.400	21.440	52.506%
2	00:46:07	46.920	47.470	19.150	21.100	20.110	54.715%
3	00:46:50	50.900	51.140	20.920	22.520	21.730	52.074%
x		48.970	49.330	20.120	22.010	21.090	53.098%
σ		1.992	1.837	0.896	0.788	0.864	1.417%
%RSD		4.068	3.724	4.454	3.582	4.098	2.668

180-20261-C-4-F MSD 4/28/2013 12:52:53 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:53:36	63.860%	43.310	1518.000	1490.000	0.000	626100.000	73380.000	74100.000
2	00:54:19	63.142%	44.250	1591.000	1543.000	0.000	642400.000	75180.000	75380.000
3	00:55:02	62.619%	44.900	1597.000	1557.000	0.000	638400.000	74700.000	75200.000
x		63.207%	44.150	1569.000	1530.000	0.000	635600.000	74420.000	74900.000
σ		0.623%	0.799	43.670	35.130	0.000	8461.000	932.000	693.100
%RSD		0.986	1.810	2.784	2.296	0.000	1.331	1.252	0.925
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:53:36	1701.000	15050.000	0.000	58290.000	264400.000	274200.000	46.069%	918.800
2	00:54:19	1714.000	15050.000	0.000	59850.000	275000.000	285800.000	44.287%	945.500
3	00:55:02	1721.000	15040.000	0.000	60130.000	275300.000	288000.000	43.937%	928.700
x		1712.000	15050.000	0.000	59430.000	271600.000	282700.000	44.765%	931.000
σ		10.030	7.813	0.000	992.000	6188.000	7401.000	1.143%	13.480
%RSD		0.586	0.052	0.000	1.669	2.279	2.618	2.553	1.448
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:53:36	454.800	178.500	821.600	20940.000	20210.000	428.300	422.200	219.200
2	00:54:19	465.100	183.200	850.900	21540.000	20600.000	439.200	427.300	223.200
3	00:55:02	464.000	182.600	848.200	21640.000	20900.000	435.800	420.400	221.800
x		461.300	181.400	840.200	21370.000	20570.000	434.400	423.300	221.400
σ		5.661	2.574	16.210	377.100	343.000	5.567	3.587	1.982
%RSD		1.227	1.419	1.929	1.764	1.668	1.282	0.847	0.895
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:53:36	205.600	398.200	402.900	37.290	13.030	7.620	0.000	1492.000
2	00:54:19	209.300	407.700	413.700	37.300	12.820	6.610	0.000	1533.000
3	00:55:02	207.700	410.900	414.500	37.610	13.120	7.453	0.000	1535.000
x		207.500	405.600	410.400	37.400	12.990	7.228	0.000	1520.000
σ		1.847	6.586	6.475	0.181	0.157	0.541	0.000	24.090
%RSD		0.890	1.624	1.578	0.483	1.206	7.489	0.000	1.585
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:53:36	48.828%	957.000	980.600	45.658%	43.550	43.340	43.370	34.540
2	00:54:19	47.632%	1020.000	1066.000	40.973%	47.250	46.290	46.910	36.750
3	00:55:02	46.955%	1027.000	1079.000	40.271%	47.320	46.760	47.210	36.320
x		47.805%	1001.000	1042.000	42.301%	46.040	45.460	45.830	35.870
σ		0.949%	38.450	53.460	2.929%	2.154	1.857	2.136	1.172
%RSD		1.984	3.840	5.132	6.924	4.677	4.085	4.660	3.267
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:53:36	49.778%	1985.000	442.200	440.700	2496.000	2512.000	60.240%	61.244%
2	00:54:19	48.757%	2049.000	458.000	456.100	2594.000	2597.000	59.510%	60.824%
3	00:55:02	48.417%	2057.000	460.200	455.900	2599.000	2597.000	58.537%	60.013%
x		48.984%	2030.000	453.400	450.900	2563.000	2569.000	59.429%	60.694%
σ		0.709%	39.260	9.822	8.827	58.200	49.390	0.855%	0.626%
%RSD		1.447	1.934	2.166	1.958	2.271	1.923	1.438	1.031
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:53:36	47.010	47.090	19.530	21.180	20.490	53.394%		
2	00:54:19	48.840	49.030	20.150	21.960	21.110	52.683%		
3	00:55:02	49.760	50.250	20.520	22.280	21.440	52.077%		
x		48.540	48.790	20.070	21.810	21.010	52.718%		
σ		1.398	1.590	0.502	0.568	0.487	0.659%		
%RSD		2.880	3.260	2.504	2.607	2.318	1.251		

CCV 801624 4/28/2013 1:01:05 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	63.845%	103.300	116.400	115.600	0.000	49570.000	49520.000	48980.000
2	01:02:31	63.697%	103.900	118.700	117.500	0.000	49680.000	48870.000	49070.000
3	01:03:14	64.056%	104.300	120.200	117.000	0.000	49800.000	49300.000	49520.000
x		63.866%	103.833%	118.439%	116.698%	0.000	99.369%	98.457%	98.380%
σ		0.181%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.283	0.505	1.627	0.857	0.000	0.230	0.675	0.590

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	463.300	5026.000	0.000	48490.000	47390.000	49560.000	52.877%	100.200
2	01:02:31	462.200	5014.000	0.000	48810.000	47270.000	49570.000	52.785%	98.990
3	01:03:14	468.100	5051.000	0.000	49220.000	48340.000	50190.000	52.233%	101.100
x		92.910%	100.604%	0.000	97.676%	95.334%	99.546%	52.631%	100.075%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.348%	n/a
%RSD		0.672	0.376	0.000	0.748	1.224	0.722	0.662	1.037

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	97.490	99.360	508.100	25730.000	24650.000	101.400	103.300	105.100
2	01:02:31	97.770	99.100	509.400	25790.000	24750.000	101.100	102.400	105.100
3	01:03:14	98.680	100.600	486.500	26310.000	25100.000	101.700	103.300	105.600
x		97.982%	99.670%	100.267%	103.765%	99.337%	101.411%	103.027%	105.250%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.635	0.777	2.570	1.229	0.958	0.257	0.504	0.290

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	104.200	101.300	100.700	98.790	102.500	101.500	0.000	94.900
2	01:02:31	103.600	101.200	103.300	100.000	102.200	101.400	0.000	95.520
3	01:03:14	103.400	101.600	102.100	100.100	101.200	101.500	0.000	95.730
x		103.739%	101.395%	102.037%	99.639%	101.993%	101.463%	0.000	95.384%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.382	0.214	1.254	0.736	0.662	0.068	0.000	0.457

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	55.861%	99.530	99.810	57.641%	99.230	99.570	97.480	99.760
2	01:02:31	54.989%	102.300	100.900	56.920%	98.570	99.080	98.110	100.200
3	01:03:14	55.582%	102.000	101.700	57.445%	99.280	99.740	101.400	100.600
x		55.477%	101.288%	100.780%	57.335%	99.030%	99.462%	99.010%	100.175%
σ		0.445%	n/a	n/a	0.373%	n/a	n/a	n/a	n/a
%RSD		0.803	1.510	0.925	0.650	0.401	0.346	2.150	0.419

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	58.367%	97.470	96.200	95.690	94.290	95.520	65.606%	67.160%
2	01:02:31	58.795%	97.740	96.260	96.130	94.230	94.110	66.120%	67.477%
3	01:03:14	58.800%	98.800	96.990	96.960	95.880	96.220	66.142%	67.421%
x		58.654%	98.001%	96.482%	96.260%	94.800%	95.283%	65.956%	67.353%
σ		0.249%	n/a	n/a	n/a	n/a	n/a	0.303%	0.169%
%RSD		0.424	0.717	0.455	0.670	0.991	1.130	0.460	0.251

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:48	95.940	96.640	96.110	95.860	95.980	65.705%
2	01:02:31	96.220	96.480	96.410	95.970	96.120	66.122%
3	01:03:14	97.770	97.840	97.880	97.230	97.740	65.398%
x		96.640%	96.986%	96.799%	96.354%	96.613%	65.742%
σ		n/a	n/a	n/a	n/a	n/a	0.363%
%RSD		1.020	0.766	0.980	0.790	1.015	0.553

CCB2 4/28/2013 1:09:18 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:10:01	82.454%	-0.006	8.263	8.420	0.000	34.830	1.793	1.830
2	01:10:44	84.454%	-0.003	8.024	7.587	0.000	34.300	2.016	1.611
3	01:11:27	87.006%	-0.013	7.379	7.169	0.000	32.950	1.467	1.600
x		84.638%	-0.007	7.889	7.725	0.000	34.030	1.759	1.680
σ		2.282%	0.005	0.458	0.637	0.000	0.970	0.276	0.130
%RSD		2.696	62.630	5.800	8.244	0.000	2.852	15.700	7.722
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:10:01	0.598	-0.641	0.000	-27.330	1.365	1.572	92.577%	-0.050
2	01:10:44	0.500	-2.667	0.000	-27.720	1.812	1.296	93.505%	-0.033
3	01:11:27	0.537	-3.461	0.000	-28.680	3.080	1.215	96.950%	-0.096
x		0.545	-2.256	0.000	-27.910	2.086	1.361	94.344%	-0.060
σ		0.049	1.454	0.000	0.695	0.890	0.187	2.304%	0.032
%RSD		9.021	64.450	0.000	2.491	42.650	13.730	2.442	54.420
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:10:01	0.019	-0.038	0.309	-5.871	-0.243	-0.002	0.034	0.433
2	01:10:44	-0.016	-0.026	0.271	-6.242	-0.192	-0.001	0.059	0.456
3	01:11:27	0.012	-0.037	0.268	-6.338	-0.345	0.001	0.026	0.388
x		0.005	-0.034	0.283	-6.150	-0.260	-0.000	0.040	0.426
σ		0.018	0.007	0.023	0.247	0.078	0.001	0.017	0.035
%RSD		362.700	20.370	8.063	4.012	29.830	353.200	43.300	8.208
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:10:01	-0.007	0.095	0.083	-0.565	-0.254	-1.973	0.000	0.005
2	01:10:44	-0.008	0.105	0.091	-0.625	-0.268	-1.964	0.000	0.007
3	01:11:27	0.002	0.106	0.078	-0.570	-0.328	-1.781	0.000	0.005
x		-0.004	0.102	0.084	-0.587	-0.283	-1.906	0.000	0.006
σ		0.006	0.006	0.006	0.034	0.039	0.108	0.000	0.001
%RSD		128.700	5.833	7.683	5.746	13.920	5.670	0.000	15.110
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:10:01	80.908%	0.200	0.246	83.991%	-0.032	-0.041	-0.035	-0.022
2	01:10:44	82.951%	0.244	0.209	85.446%	-0.038	-0.039	-0.048	-0.023
3	01:11:27	85.433%	0.214	0.175	87.965%	-0.037	-0.037	-0.091	-0.058
x		83.097%	0.220	0.210	85.801%	-0.035	-0.039	-0.058	-0.034
σ		2.266%	0.023	0.036	2.011%	0.003	0.002	0.029	0.020
%RSD		2.727	10.310	16.970	2.343	9.271	6.193	50.420	59.310
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:10:01	79.549%	0.039	0.094	0.074	0.008	0.007	85.724%	86.465%
2	01:10:44	81.623%	-0.018	0.091	0.084	0.012	0.011	87.980%	88.846%
3	01:11:27	84.486%	-0.034	0.068	0.079	0.009	0.011	88.971%	90.021%
x		81.886%	-0.004	0.084	0.079	0.010	0.010	87.558%	88.444%
σ		2.479%	0.038	0.014	0.005	0.002	0.002	1.664%	1.812%
%RSD		3.028	897.300	16.960	6.077	24.060	22.540	1.901	2.049
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:10:01	0.035	0.030	0.238	0.253	0.248	90.369%		
2	01:10:44	0.026	0.028	0.262	0.252	0.252	91.547%		
3	01:11:27	0.026	0.029	0.229	0.243	0.235	94.321%		
x		0.029	0.029	0.243	0.249	0.245	92.079%		
σ		0.005	0.001	0.017	0.005	0.009	2.029%		
%RSD		18.110	4.041	6.931	2.084	3.683	2.203		

180-20261-C-4-D PDS 4/28/2013 1:17:32 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:15	59.303%	46.690	1586.000	1548.000	0.000	637800.000	79290.000	79610.000
2	01:18:58	60.854%	46.720	1562.000	1513.000	0.000	622300.000	76870.000	76860.000
3	01:19:41	60.789%	45.900	1567.000	1544.000	0.000	623100.000	76840.000	76940.000
x		60.315%	46.440	1572.000	1535.000	0.000	627800.000	77670.000	77800.000
σ		0.878%	0.467	13.110	19.160	0.000	8745.000	1406.000	1566.000
%RSD		1.455	1.006	0.834	1.248	0.000	1.393	1.811	2.013
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:15	1856.000	16460.000	0.000	62840.000	266200.000	276500.000	45.854%	975.900
2	01:18:58	1798.000	15710.000	0.000	61500.000	262700.000	276600.000	45.456%	977.900
3	01:19:41	1797.000	15710.000	0.000	61590.000	265000.000	276800.000	44.749%	973.800
x		1817.000	15960.000	0.000	61980.000	264600.000	276600.000	45.353%	975.900
σ		33.740	435.500	0.000	749.100	1803.000	176.200	0.560%	2.033
%RSD		1.857	2.729	0.000	1.209	0.681	0.064	1.234	0.208
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:15	489.300	193.600	845.300	20910.000	20370.000	469.000	461.300	236.800
2	01:18:58	483.900	190.100	839.700	20700.000	20110.000	461.100	452.000	231.900
3	01:19:41	478.000	190.100	850.000	20940.000	20230.000	462.600	451.400	234.600
x		483.700	191.300	845.000	20850.000	20240.000	464.200	454.900	234.400
σ		5.645	1.996	5.144	130.600	134.300	4.188	5.574	2.456
%RSD		1.167	1.043	0.609	0.626	0.664	0.902	1.225	1.048
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:15	226.700	421.600	430.500	39.930	11.460	8.429	0.000	1537.000
2	01:18:58	219.300	420.700	426.300	39.140	11.280	8.380	0.000	1523.000
3	01:19:41	219.100	419.900	427.700	38.410	12.280	7.603	0.000	1522.000
x		221.700	420.700	428.200	39.160	11.670	8.137	0.000	1527.000
σ		4.323	0.849	2.096	0.760	0.532	0.464	0.000	8.513
%RSD		1.950	0.202	0.489	1.940	4.561	5.696	0.000	0.557
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:15	48.141%	1076.000	1104.000	42.142%	49.500	48.590	46.710	37.530
2	01:18:58	48.452%	1073.000	1107.000	42.009%	49.230	48.540	47.100	36.740
3	01:19:41	48.407%	1028.000	1057.000	44.824%	46.640	46.980	46.700	36.920
x		48.333%	1059.000	1090.000	42.992%	48.460	48.030	46.840	37.060
σ		0.168%	26.980	27.980	1.588%	1.577	0.915	0.227	0.416
%RSD		0.347	2.548	2.568	3.695	3.253	1.906	0.483	1.123
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:15	49.284%	2114.000	465.900	467.700	2642.000	2631.000	57.894%	59.477%
2	01:18:58	49.191%	2113.000	473.300	466.700	2624.000	2621.000	58.782%	60.040%
3	01:19:41	49.932%	2102.000	467.500	465.900	2601.000	2608.000	59.082%	60.393%
x		49.469%	2110.000	468.900	466.800	2622.000	2620.000	58.586%	59.970%
σ		0.404%	6.452	3.874	0.879	20.630	11.420	0.618%	0.462%
%RSD		0.816	0.306	0.826	0.188	0.787	0.436	1.054	0.770
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:18:15	50.990	51.170	20.770	22.180	21.570	52.018%		
2	01:18:58	51.060	51.290	20.700	22.300	21.560	52.487%		
3	01:19:41	50.520	50.640	20.630	22.020	21.340	53.388%		
x		50.860	51.040	20.700	22.170	21.490	52.631%		
σ		0.292	0.348	0.072	0.140	0.128	0.696%		
%RSD		0.574	0.682	0.349	0.633	0.596	1.323		

180-20261-C-5-B 4/28/2013 1:25:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:26	64.286%	-0.016	703.500	686.700	0.000	421700.000	24490.000	24570.000
2	01:27:09	64.784%	0.001	707.900	681.400	0.000	422100.000	24190.000	24400.000
3	01:27:52	64.830%	-0.003	690.800	670.800	0.000	405000.000	23550.000	23780.000
x		64.633%	-0.006	700.700	679.600	0.000	416200.000	24080.000	24250.000
σ		0.302%	0.009	8.881	8.083	0.000	9761.000	482.100	415.700
%RSD		0.467	141.900	1.267	1.189	0.000	2.345	2.002	1.714
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:26	12.390	9981.000	0.000	12390.000	157300.000	164500.000	46.253%	2.310
2	01:27:09	12.060	9767.000	0.000	12410.000	157700.000	164400.000	45.123%	2.187
3	01:27:52	11.520	9430.000	0.000	12050.000	155900.000	160600.000	44.942%	2.283
x		11.990	9726.000	0.000	12280.000	157000.000	163200.000	45.439%	2.260
σ		0.440	277.500	0.000	198.100	940.000	2251.000	0.710%	0.065
%RSD		3.672	2.853	0.000	1.613	0.599	1.380	1.563	2.856
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:26	0.093	1.402	420.400	29670.000	28260.000	4.894	211.700	20.270
2	01:27:09	0.301	0.776	421.800	29610.000	27980.000	4.684	208.200	19.690
3	01:27:52	-0.191	0.484	413.300	28970.000	27590.000	4.596	202.900	19.270
x		0.068	0.887	418.500	29420.000	27940.000	4.725	207.600	19.740
σ		0.247	0.469	4.571	390.200	338.600	0.153	4.421	0.501
%RSD		364.100	52.830	1.092	1.326	1.212	3.238	2.130	2.540
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:26	13.010	454.000	459.400	25.570	2.479	-0.061	0.000	433.900
2	01:27:09	12.550	448.500	456.900	25.710	3.017	0.163	0.000	434.900
3	01:27:52	11.910	442.200	445.100	25.240	3.038	-0.457	0.000	432.100
x		12.490	448.200	453.800	25.510	2.845	-0.118	0.000	433.600
σ		0.551	5.917	7.621	0.242	0.317	0.313	0.000	1.392
%RSD		4.409	1.320	1.679	0.950	11.150	264.700	0.000	0.321
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:26	49.582%	11.190	11.070	47.938%	-0.016	-0.024	0.899	0.810
2	01:27:09	49.213%	11.190	11.180	47.043%	-0.032	-0.020	0.897	0.869
3	01:27:52	48.672%	10.720	10.660	46.486%	-0.023	-0.024	0.693	0.799
x		49.156%	11.030	10.970	47.156%	-0.024	-0.023	0.830	0.826
σ		0.458%	0.269	0.270	0.733%	0.008	0.002	0.118	0.037
%RSD		0.931	2.435	2.465	1.554	32.980	10.810	14.250	4.539
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:26	51.183%	18.000	2.090	2.124	654.800	657.200	60.535%	62.049%
2	01:27:09	51.621%	14.810	1.733	1.651	647.800	654.400	61.313%	62.532%
3	01:27:52	50.938%	12.730	1.516	1.464	648.000	647.900	60.801%	62.361%
x		51.247%	15.180	1.780	1.746	650.200	653.200	60.883%	62.314%
σ		0.346%	2.657	0.290	0.340	3.985	4.750	0.396%	0.245%
%RSD		0.675	17.510	16.290	19.470	0.613	0.727	0.650	0.393
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:26:26	0.047	0.049	4.605	4.606	4.612	55.505%		
2	01:27:09	0.048	0.052	4.591	4.694	4.616	55.790%		
3	01:27:52	0.045	0.048	4.382	4.418	4.402	57.223%		
x		0.047	0.050	4.526	4.573	4.543	56.172%		
σ		0.002	0.002	0.125	0.141	0.122	0.921%		
%RSD		3.608	3.690	2.758	3.087	2.688	1.639		

MB 180-68111/1-A 4/28/2013 1:33:53 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	86.335%	-0.001	11.110	11.130	0.000	49.360	4.151	3.761
2	01:35:19	91.448%	-0.010	10.190	9.612	0.000	46.570	3.474	3.170
3	01:36:02	89.665%	-0.004	10.140	9.600	0.000	48.210	3.586	3.481
x		89.149%	-0.005	10.480	10.110	0.000	48.050	3.737	3.471
σ		2.595%	0.005	0.548	0.878	0.000	1.406	0.363	0.296
%RSD		2.911	96.330	5.225	8.682	0.000	2.926	9.707	8.520

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	0.359	2.105	0.000	-20.110	17.710	13.870	81.897%	0.372
2	01:35:19	0.307	1.383	0.000	-21.530	11.150	12.220	86.368%	0.222
3	01:36:02	0.379	1.411	0.000	-22.600	16.830	12.030	85.955%	0.146
x		0.348	1.633	0.000	-21.410	15.230	12.710	84.740%	0.247
σ		0.037	0.409	0.000	1.249	3.558	1.012	2.471%	0.115
%RSD		10.740	25.030	0.000	5.833	23.360	7.964	2.916	46.560

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	0.017	-0.033	0.007	-1.213	0.692	-0.001	0.094	0.958
2	01:35:19	0.018	-0.033	0.004	-2.256	0.319	-0.005	0.090	0.887
3	01:36:02	0.028	-0.024	-0.001	-1.494	0.610	-0.003	0.072	0.862
x		0.021	-0.030	0.004	-1.654	0.540	-0.003	0.086	0.902
σ		0.006	0.005	0.004	0.539	0.196	0.002	0.012	0.050
%RSD		29.970	17.510	120.800	32.610	36.310	52.610	13.580	5.508

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	0.084	0.751	0.680	-0.342	0.017	-1.254	0.000	0.032
2	01:35:19	0.089	0.695	0.659	-0.295	0.168	-1.131	0.000	0.035
3	01:36:02	0.055	0.683	0.657	-0.264	0.127	-1.035	0.000	0.033
x		0.076	0.710	0.665	-0.300	0.104	-1.140	0.000	0.033
σ		0.018	0.036	0.013	0.039	0.078	0.110	0.000	0.002
%RSD		24.290	5.120	1.911	13.000	74.660	9.656	0.000	5.008

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	81.517%	0.168	0.155	88.976%	-0.038	-0.043	-0.097	-0.066
2	01:35:19	85.093%	0.132	0.132	91.477%	-0.037	-0.039	-0.109	-0.076
3	01:36:02	84.823%	0.123	0.137	91.876%	-0.038	-0.038	-0.080	-0.058
x		83.811%	0.141	0.141	90.776%	-0.038	-0.040	-0.095	-0.067
σ		1.991%	0.024	0.012	1.572%	0.001	0.003	0.015	0.009
%RSD		2.376	17.130	8.495	1.732	1.683	6.879	15.380	13.990

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	84.038%	0.508	0.060	0.066	0.046	0.086	89.701%	90.065%
2	01:35:19	88.292%	0.550	0.064	0.070	0.053	0.057	93.641%	94.413%
3	01:36:02	87.580%	0.646	0.054	0.059	0.053	0.068	92.403%	93.345%
x		86.637%	0.568	0.059	0.065	0.050	0.070	91.915%	92.608%
σ		2.278%	0.071	0.005	0.006	0.004	0.015	2.015%	2.266%
%RSD		2.630	12.430	8.721	9.166	8.216	21.170	2.192	2.446

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:36	0.015	0.017	0.008	0.013	0.010	92.632%
2	01:35:19	0.015	0.012	0.010	0.004	0.008	97.278%
3	01:36:02	0.018	0.019	0.000	0.009	0.007	95.363%
x		0.016	0.016	0.006	0.008	0.008	95.091%
σ		0.001	0.003	0.005	0.004	0.002	2.335%
%RSD		8.269	21.620	82.720	51.400	20.060	2.455

LCS 180-68111/2-A 4/28/2013 1:42:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	62.221%	43.260	856.800	859.600	0.000	47870.000	47650.000	47770.000
2	01:43:29	64.067%	42.080	827.500	823.200	0.000	45270.000	45450.000	45300.000
3	01:44:12	63.579%	42.760	856.500	857.200	0.000	47340.000	46960.000	47160.000
x		63.289%	42.700	846.900	846.700	0.000	46820.000	46680.000	46740.000
σ		0.957%	0.593	16.820	20.370	0.000	1373.000	1126.000	1283.000
%RSD		1.512	1.390	1.986	2.406	0.000	2.932	2.411	2.744

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	1868.000	8193.000	0.000	48000.000	47510.000	49280.000	49.786%	989.900
2	01:43:29	1794.000	7753.000	0.000	45830.000	45580.000	47110.000	51.110%	944.500
3	01:44:12	1846.000	8018.000	0.000	47330.000	47210.000	49220.000	50.190%	972.300
x		1836.000	7988.000	0.000	47050.000	46770.000	48540.000	50.362%	968.900
σ		38.040	221.400	0.000	1112.000	1040.000	1239.000	0.678%	22.920
%RSD		2.072	2.772	0.000	2.363	2.224	2.553	1.347	2.366

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	501.300	202.000	478.600	1073.000	1090.000	515.600	527.800	265.600
2	01:43:29	477.400	192.600	455.900	1027.000	1033.000	487.100	496.700	251.200
3	01:44:12	493.800	197.300	468.800	1057.000	1070.000	504.000	516.000	260.600
x		490.900	197.300	467.800	1052.000	1064.000	502.200	513.500	259.100
σ		12.210	4.684	11.410	23.710	28.920	14.360	15.660	7.323
%RSD		2.488	2.374	2.440	2.253	2.717	2.860	3.049	2.826

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	263.400	436.800	438.300	34.710	8.053	8.332	0.000	1046.000
2	01:43:29	249.400	420.700	423.400	33.470	7.993	8.246	0.000	1003.000
3	01:44:12	260.400	432.500	436.800	33.480	8.185	8.189	0.000	1036.000
x		257.700	430.000	432.900	33.890	8.077	8.256	0.000	1029.000
σ		7.378	8.371	8.193	0.712	0.098	0.072	0.000	22.480
%RSD		2.863	1.947	1.893	2.101	1.219	0.872	0.000	2.185

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	48.486%	1029.000	997.500	55.527%	46.850	47.530	43.530	37.060
2	01:43:29	49.593%	980.400	959.100	56.456%	44.960	45.950	42.440	35.500
3	01:44:12	48.893%	1018.000	987.200	55.808%	46.010	46.860	43.530	36.890
x		48.991%	1009.000	981.300	55.930%	45.940	46.780	43.160	36.480
σ		0.560%	25.460	19.860	0.476%	0.947	0.795	0.629	0.855
%RSD		1.143	2.523	2.024	0.851	2.061	1.700	1.458	2.342

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	53.339%	2074.000	438.100	432.900	1829.000	1817.000	65.417%	66.140%
2	01:43:29	54.830%	1996.000	422.400	420.500	1748.000	1751.000	67.316%	68.390%
3	01:44:12	53.840%	2068.000	436.000	435.100	1806.000	1807.000	66.219%	67.393%
x		54.003%	2046.000	432.200	429.500	1794.000	1792.000	66.317%	67.308%
σ		0.759%	43.760	8.544	7.920	42.040	35.720	0.953%	1.128%
%RSD		1.406	2.139	1.977	1.844	2.343	1.994	1.437	1.675

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:46	46.160	46.500	17.960	19.610	18.700	61.607%
2	01:43:29	43.950	43.750	16.910	18.380	17.780	64.393%
3	01:44:12	45.110	45.170	17.590	19.360	18.440	63.277%
x		45.070	45.140	17.480	19.120	18.310	63.092%
σ		1.105	1.373	0.533	0.647	0.477	1.402%
%RSD		2.452	3.041	3.050	3.386	2.608	2.222

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	62.365%	2.419	23.360	23.210	0.000	269.900	9756.000	9743.000
2	01:51:40	62.062%	2.808	22.950	22.380	0.000	271.600	9797.000	9736.000
3	01:52:23	62.472%	2.812	22.100	22.080	0.000	270.500	9714.000	9700.000
x		62.300%	2.680	22.800	22.560	0.000	270.700	9756.000	9726.000
σ		0.213%	0.226	0.640	0.584	0.000	0.904	41.290	22.610
%RSD		0.341	8.430	2.805	2.588	0.000	0.334	0.423	0.233

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	46370.000	5489.000	0.000	4401.000	2776.000	2671.000	56.020%	572.700
2	01:51:40	46130.000	5466.000	0.000	4348.000	2715.000	2668.000	56.307%	565.200
3	01:52:23	45640.000	5403.000	0.000	4361.000	2767.000	2668.000	56.313%	561.400
x		46050.000	5453.000	0.000	4370.000	2753.000	2669.000	56.214%	566.400
σ		374.900	44.380	0.000	27.490	33.060	2.202	0.167%	5.764
%RSD		0.814	0.814	0.000	0.629	1.201	0.083	0.297	1.018

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	81.840	62.480	2754.000	108000.000	108400.000	50.570	107.000	66.670
2	01:51:40	80.990	61.170	2745.000	106800.000	107600.000	49.680	104.900	66.090
3	01:52:23	80.610	61.460	2741.000	106900.000	107000.000	49.100	103.600	64.820
x		81.150	61.700	2747.000	107300.000	107700.000	49.780	105.200	65.860
σ		0.626	0.688	6.796	674.300	715.200	0.744	1.692	0.948
%RSD		0.772	1.114	0.247	0.629	0.664	1.494	1.608	1.439

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	67.160	199.300	201.200	51.450	0.324	0.566	0.000	21.910
2	01:51:40	66.350	199.700	201.300	51.660	0.520	0.567	0.000	22.050
3	01:52:23	64.710	197.900	199.400	50.930	0.606	0.924	0.000	21.770
x		66.070	199.000	200.600	51.350	0.483	0.685	0.000	21.910
σ		1.248	0.927	1.079	0.372	0.144	0.206	0.000	0.144
%RSD		1.889	0.466	0.538	0.724	29.910	30.110	0.000	0.658

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	0.000	4.513	4.469	60.166%	0.060	0.037	0.544	0.435
2	01:51:40	0.000	4.581	4.537	59.815%	0.071	0.039	0.481	0.431
3	01:52:23	0.000	4.424	4.547	60.040%	0.066	0.039	0.384	0.391
x		0.000	4.506	4.518	60.007%	0.066	0.038	0.470	0.419
σ		0.000	0.079	0.043	0.178%	0.005	0.001	0.080	0.024
%RSD		0.000	1.747	0.945	0.296	8.065	2.905	17.130	5.757

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	59.647%	2.844	0.296	0.280	256.000	255.100	67.988%	68.508%
2	01:51:40	60.199%	2.347	0.285	0.277	253.400	255.200	69.230%	69.632%
3	01:52:23	60.473%	1.973	0.236	0.256	252.300	252.900	69.528%	69.626%
x		60.106%	2.388	0.273	0.271	253.900	254.400	68.915%	69.255%
σ		0.421%	0.437	0.032	0.013	1.939	1.293	0.817%	0.647%
%RSD		0.700	18.310	11.680	4.830	0.764	0.508	1.186	0.934

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:57	0.844	0.862	53.690	52.680	53.140	64.928%
2	01:51:40	0.895	0.872	53.280	52.400	53.100	65.167%
3	01:52:23	0.828	0.873	53.960	52.650	53.270	65.325%
x		0.856	0.869	53.640	52.580	53.170	65.140%
σ		0.035	0.006	0.343	0.151	0.085	0.200%
%RSD		4.140	0.685	0.639	0.288	0.160	0.307

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	59.845%	4.441	24.740	24.690	0.000	359.400	17350.000	17290.000
2	01:59:50	59.916%	4.224	24.860	24.190	0.000	355.200	17190.000	17220.000
3	02:00:33	62.049%	4.149	23.760	23.530	0.000	346.100	16430.000	16420.000
x		60.603%	4.271	24.460	24.140	0.000	353.600	16990.000	16980.000
σ		1.252%	0.151	0.605	0.586	0.000	6.812	489.400	482.300
%RSD		2.066	3.544	2.472	2.429	0.000	1.927	2.880	2.841

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	69720.000	6139.000	0.000	6954.000	6754.000	6397.000	56.080%	819.600
2	01:59:50	68570.000	6040.000	0.000	6841.000	6558.000	6404.000	56.211%	814.200
3	02:00:33	65420.000	5767.000	0.000	6641.000	6453.000	6282.000	56.747%	799.000
x		67900.000	5982.000	0.000	6812.000	6589.000	6361.000	56.346%	810.900
σ		2227.000	192.800	0.000	158.400	152.800	68.430	0.353%	10.690
%RSD		3.279	3.223	0.000	2.325	2.319	1.076	0.627	1.318

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	113.800	99.020	8909.000	184000.000	184500.000	84.460	165.100	115.800
2	01:59:50	111.100	96.240	8830.000	181500.000	183700.000	83.990	163.200	114.500
3	02:00:33	106.800	94.670	8638.000	177800.000	180200.000	81.780	155.000	110.100
x		110.600	96.640	8792.000	181100.000	182800.000	83.410	161.100	113.400
σ		3.512	2.202	139.000	3147.000	2277.000	1.434	5.373	2.999
%RSD		3.176	2.279	1.581	1.738	1.245	1.719	3.334	2.643

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	115.600	320.300	328.400	66.770	0.547	0.939	0.000	56.490
2	01:59:50	113.500	318.500	320.900	65.410	0.493	1.058	0.000	56.440
3	02:00:33	109.200	313.300	315.800	63.500	0.415	1.141	0.000	54.990
x		112.800	317.400	321.700	65.230	0.485	1.046	0.000	55.980
σ		3.295	3.651	6.358	1.641	0.066	0.102	0.000	0.851
%RSD		2.922	1.151	1.976	2.516	13.690	9.738	0.000	1.521

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	0.000	6.255	6.346	58.618%	0.115	0.059	1.043	0.891
2	01:59:50	0.000	6.447	6.256	59.040%	0.102	0.040	1.104	0.910
3	02:00:33	0.000	6.237	6.264	59.831%	0.101	0.027	1.081	0.845
x		0.000	6.313	6.288	59.163%	0.106	0.042	1.076	0.882
σ		0.000	0.116	0.050	0.616%	0.008	0.016	0.030	0.034
%RSD		0.000	1.841	0.794	1.042	7.418	38.610	2.827	3.814

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	58.545%	1.589	0.259	0.276	550.600	544.600	71.317%	69.765%
2	01:59:50	59.284%	1.537	0.248	0.268	544.100	544.100	71.819%	71.429%
3	02:00:33	60.406%	1.416	0.256	0.264	526.500	529.100	73.381%	72.493%
x		59.412%	1.514	0.254	0.269	540.400	539.300	72.172%	71.229%
σ		0.937%	0.088	0.006	0.006	12.480	8.796	1.077%	1.375%
%RSD		1.578	5.838	2.184	2.293	2.310	1.631	1.492	1.931

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:07	1.129	1.136	83.260	81.900	82.730	62.248%
2	01:59:50	1.142	1.149	84.070	82.180	83.470	62.328%
3	02:00:33	1.084	1.093	80.800	79.410	80.150	64.300%
x		1.118	1.126	82.710	81.160	82.120	62.959%
σ		0.030	0.029	1.703	1.526	1.743	1.162%
%RSD		2.709	2.617	2.058	1.880	2.123	1.845

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	65.960%	1.033	7.938	7.585	0.000	104.200	3333.000	3291.000
2	02:08:02	66.368%	0.935	6.936	7.172	0.000	104.800	3278.000	3266.000
3	02:08:45	67.041%	0.876	7.540	6.885	0.000	103.300	3141.000	3109.000
x		66.457%	0.948	7.471	7.214	0.000	104.100	3251.000	3222.000
σ		0.546%	0.080	0.504	0.352	0.000	0.742	99.150	98.430
%RSD		0.822	8.402	6.752	4.879	0.000	0.713	3.050	3.055

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	13980.000	1249.000	0.000	1395.000	1384.000	1326.000	61.719%	172.200
2	02:08:02	13960.000	1225.000	0.000	1384.000	1391.000	1310.000	60.783%	164.800
3	02:08:45	13210.000	1165.000	0.000	1336.000	1332.000	1261.000	61.337%	156.600
x		13720.000	1213.000	0.000	1372.000	1369.000	1299.000	61.280%	164.500
σ		442.300	43.460	0.000	31.510	32.020	33.930	0.471%	7.785
%RSD		3.225	3.582	0.000	2.297	2.338	2.612	0.768	4.732

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	22.720	19.840	1756.000	36930.000	36790.000	16.980	33.420	23.890
2	02:08:02	22.600	19.520	1764.000	36720.000	36660.000	16.770	33.200	24.330
3	02:08:45	21.550	18.780	1683.000	35190.000	35160.000	16.050	31.940	22.940
x		22.290	19.380	1734.000	36280.000	36210.000	16.600	32.850	23.720
σ		0.640	0.544	44.860	949.700	906.900	0.487	0.799	0.708
%RSD		2.873	2.805	2.587	2.618	2.505	2.932	2.434	2.986

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	23.970	72.260	71.610	14.030	-0.374	-0.950	0.000	9.884
2	02:08:02	23.840	71.660	72.480	13.550	-0.477	-1.239	0.000	9.858
3	02:08:45	21.870	68.580	68.950	13.000	-0.388	-1.359	0.000	9.493
x		23.230	70.830	71.010	13.520	-0.413	-1.183	0.000	9.745
σ		1.180	1.976	1.838	0.517	0.056	0.210	0.000	0.218
%RSD		5.080	2.790	2.589	3.826	13.500	17.790	0.000	2.241

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	75.044%	1.022	1.110	68.041%	-0.015	-0.018	0.217	0.180
2	02:08:02	73.824%	1.061	1.115	67.532%	-0.015	-0.025	0.151	0.122
3	02:08:45	74.339%	1.056	1.109	68.316%	-0.016	-0.018	0.214	0.167
x		74.402%	1.046	1.112	67.963%	-0.015	-0.020	0.194	0.157
σ		0.612%	0.021	0.003	0.398%	0.001	0.004	0.037	0.031
%RSD		0.823	2.024	0.291	0.585	3.437	20.600	19.140	19.510

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	65.747%	0.261	0.060	0.064	112.300	113.300	71.908%	71.512%
2	02:08:02	65.709%	0.228	0.061	0.049	112.500	112.000	71.418%	72.103%
3	02:08:45	66.627%	0.281	0.057	0.048	107.800	107.400	72.919%	73.248%
x		66.028%	0.257	0.059	0.054	110.900	110.900	72.081%	72.288%
σ		0.519%	0.027	0.002	0.009	2.680	3.120	0.766%	0.882%
%RSD		0.787	10.520	3.823	16.670	2.418	2.813	1.062	1.220

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:19	0.228	0.234	16.630	16.240	16.450	69.722%
2	02:08:02	0.233	0.228	16.930	16.590	16.660	68.753%
3	02:08:45	0.217	0.214	15.970	15.740	15.840	70.767%
x		0.226	0.225	16.510	16.190	16.320	69.748%
σ		0.008	0.010	0.493	0.425	0.425	1.007%
%RSD		3.503	4.598	2.986	2.626	2.606	1.444

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	60.022%	4.918	20.310	21.000	0.000	360.100	16740.000	16620.000
2	02:16:13	61.205%	4.766	20.620	20.530	0.000	361.200	16650.000	16590.000
3	02:16:56	61.351%	4.810	20.180	20.030	0.000	362.800	16730.000	16620.000
x		60.859%	4.832	20.370	20.520	0.000	361.400	16710.000	16610.000
σ		0.729%	0.078	0.221	0.483	0.000	1.361	48.170	15.230
%RSD		1.198	1.619	1.085	2.352	0.000	0.377	0.288	0.092

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	67020.000	5981.000	0.000	6570.000	7479.000	7196.000	57.411%	710.700
2	02:16:13	67220.000	5886.000	0.000	6551.000	7583.000	7220.000	56.944%	713.700
3	02:16:56	67410.000	5891.000	0.000	6638.000	7644.000	7264.000	56.978%	722.100
x		67210.000	5919.000	0.000	6586.000	7568.000	7227.000	57.111%	715.500
σ		197.400	53.320	0.000	46.090	83.270	34.410	0.260%	5.932
%RSD		0.294	0.901	0.000	0.700	1.100	0.476	0.456	0.829

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	110.700	94.780	8778.000	190500.000	193600.000	87.300	165.300	113.200
2	02:16:13	111.900	94.760	8830.000	191000.000	191800.000	86.210	164.900	112.500
3	02:16:56	114.100	96.670	8911.000	192600.000	195600.000	88.350	166.500	113.700
x		112.200	95.400	8840.000	191400.000	193700.000	87.290	165.600	113.100
σ		1.742	1.094	67.070	1103.000	1901.000	1.071	0.852	0.601
%RSD		1.553	1.147	0.759	0.576	0.982	1.227	0.515	0.531

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	113.400	319.100	319.100	64.500	0.554	1.455	0.000	54.420
2	02:16:13	111.200	316.900	322.900	65.150	0.592	1.578	0.000	54.170
3	02:16:56	114.700	323.800	324.400	66.420	0.608	1.393	0.000	55.790
x		113.100	319.900	322.100	65.360	0.585	1.475	0.000	54.790
σ		1.798	3.507	2.728	0.978	0.028	0.094	0.000	0.871
%RSD		1.590	1.096	0.847	1.496	4.729	6.377	0.000	1.589

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	0.000	7.334	7.090	59.946%	0.092	0.042	1.259	0.979
2	02:16:13	0.000	7.113	7.009	60.029%	0.080	0.041	1.009	0.803
3	02:16:56	0.000	7.524	7.372	58.796%	0.096	0.067	1.173	0.879
x		0.000	7.324	7.157	59.590%	0.089	0.050	1.147	0.887
σ		0.000	0.206	0.191	0.689%	0.008	0.015	0.127	0.088
%RSD		0.000	2.813	2.666	1.157	9.112	29.460	11.080	9.972

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	59.769%	1.121	0.228	0.238	612.000	613.700	72.777%	71.628%
2	02:16:13	59.958%	1.105	0.224	0.229	605.400	608.300	74.206%	73.037%
3	02:16:56	60.063%	1.107	0.244	0.232	616.400	615.300	73.694%	72.156%
x		59.930%	1.111	0.232	0.233	611.200	612.400	73.559%	72.274%
σ		0.149%	0.009	0.011	0.005	5.529	3.637	0.724%	0.712%
%RSD		0.248	0.769	4.589	1.997	0.904	0.594	0.984	0.985

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:30	1.109	1.085	85.020	83.740	84.340	63.459%
2	02:16:13	1.064	1.094	84.430	83.110	83.910	63.978%
3	02:16:56	1.129	1.113	86.100	85.350	86.160	63.111%
x		1.101	1.098	85.180	84.060	84.800	63.516%
σ		0.033	0.014	0.846	1.155	1.194	0.436%
%RSD		2.994	1.301	0.993	1.374	1.408	0.687

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	55.746%	49.090	862.000	876.200	0.000	48060.000	66010.000	66070.000
2	02:24:25	55.988%	47.860	878.700	881.100	0.000	47180.000	65640.000	65240.000
3	02:25:08	56.795%	47.530	864.800	873.600	0.000	46550.000	64630.000	64700.000
x		56.176%	48.160	868.500	877.000	0.000	47260.000	65430.000	65330.000
σ		0.550%	0.826	8.951	3.788	0.000	760.500	716.900	688.500
%RSD		0.978	1.716	1.031	0.432	0.000	1.609	1.096	1.054

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	107000.000	19600.000	0.000	56440.000	49040.000	50430.000	54.030%	1690.000
2	02:24:25	105100.000	19270.000	0.000	56200.000	49350.000	50910.000	53.838%	1677.000
3	02:25:08	105500.000	18970.000	0.000	56120.000	48960.000	50190.000	53.556%	1668.000
x		105900.000	19280.000	0.000	56250.000	49120.000	50510.000	53.808%	1678.000
σ		1016.000	311.200	0.000	170.000	205.300	364.000	0.238%	10.960
%RSD		0.960	1.614	0.000	0.302	0.418	0.721	0.443	0.653

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	625.700	310.100	9815.000	178000.000	179000.000	535.800	622.100	331.900
2	02:24:25	622.000	308.200	9846.000	175400.000	178700.000	531.100	617.900	331.400
3	02:25:08	609.600	306.600	9874.000	176400.000	177100.000	521.600	611.700	327.700
x		619.100	308.300	9845.000	176600.000	178300.000	529.500	617.200	330.300
σ		8.425	1.779	29.210	1303.000	979.800	7.195	5.219	2.260
%RSD		1.361	0.577	0.297	0.738	0.550	1.359	0.846	0.684

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	329.900	706.400	705.100	94.960	6.351	7.117	0.000	992.800
2	02:24:25	331.900	703.800	709.600	95.270	6.376	7.399	0.000	1006.000
3	02:25:08	330.500	710.100	713.500	95.100	6.446	6.999	0.000	1003.000
x		330.800	706.800	709.400	95.110	6.391	7.172	0.000	1001.000
σ		1.039	3.177	4.213	0.152	0.049	0.206	0.000	7.119
%RSD		0.314	0.450	0.594	0.160	0.769	2.867	0.000	0.711

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	0.000	901.500	897.600	53.647%	43.820	44.110	42.070	40.780
2	02:24:25	0.000	906.900	907.500	52.788%	43.880	44.050	42.560	40.240
3	02:25:08	0.000	903.000	902.500	52.714%	43.930	43.330	43.000	40.770
x		0.000	903.800	902.500	53.050%	43.880	43.830	42.540	40.600
σ		0.000	2.818	4.988	0.518%	0.053	0.435	0.466	0.310
%RSD		0.000	0.312	0.553	0.977	0.121	0.993	1.095	0.763

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	54.766%	912.700	192.700	193.500	2386.000	2387.000	66.209%	65.844%
2	02:24:25	54.810%	914.200	194.700	195.200	2375.000	2367.000	67.860%	66.535%
3	02:25:08	54.932%	913.400	193.600	193.700	2367.000	2340.000	68.060%	66.658%
x		54.836%	913.500	193.700	194.100	2376.000	2365.000	67.376%	66.346%
σ		0.086%	0.758	0.999	0.928	9.489	23.480	1.016%	0.439%
%RSD		0.157	0.083	0.516	0.478	0.399	0.993	1.508	0.662

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:42	45.540	46.250	100.900	102.100	101.600	56.865%
2	02:24:25	46.230	46.770	103.100	103.400	103.300	56.619%
3	02:25:08	45.750	46.300	101.500	102.100	102.100	57.277%
x		45.840	46.440	101.800	102.500	102.300	56.920%
σ		0.352	0.286	1.165	0.760	0.902	0.333%
%RSD		0.769	0.617	1.144	0.741	0.882	0.584

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	56.388%	49.410	876.500	880.700	0.000	47730.000	67750.000	67380.000
2	02:32:37	56.950%	49.130	875.700	877.500	0.000	47070.000	67550.000	66810.000
3	02:33:20	57.725%	47.970	868.000	868.700	0.000	46220.000	66070.000	66000.000
x		57.021%	48.840	873.400	875.600	0.000	47010.000	67130.000	66730.000
σ		0.671%	0.763	4.696	6.176	0.000	753.000	916.300	696.500
%RSD		1.177	1.563	0.538	0.705	0.000	1.602	1.365	1.044

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	116000.000	19020.000	0.000	57020.000	51920.000	53710.000	54.611%	1680.000
2	02:32:37	115400.000	18750.000	0.000	57030.000	52320.000	53890.000	54.382%	1676.000
3	02:33:20	113200.000	18370.000	0.000	55760.000	51640.000	53190.000	54.368%	1656.000
x		114800.000	18720.000	0.000	56600.000	51960.000	53600.000	54.454%	1670.000
σ		1471.000	325.200	0.000	730.000	337.700	363.900	0.136%	13.020
%RSD		1.281	1.738	0.000	1.290	0.650	0.679	0.250	0.779

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	631.700	318.200	23610.000	204800.000	208200.000	548.700	639.700	337.600
2	02:32:37	629.600	318.000	23920.000	206700.000	208200.000	549.300	636.000	337.500
3	02:33:20	627.400	314.800	23680.000	205300.000	208700.000	543.600	626.100	338.200
x		629.500	317.000	23740.000	205600.000	208400.000	547.200	633.900	337.800
σ		2.136	1.872	163.900	972.800	284.200	3.115	7.042	0.375
%RSD		0.339	0.591	0.690	0.473	0.136	0.569	1.111	0.111

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	340.700	729.000	731.000	107.800	6.673	7.979	0.000	1046.000
2	02:32:37	337.900	725.300	731.100	108.100	6.919	6.954	0.000	1056.000
3	02:33:20	337.600	729.400	727.900	107.800	6.582	7.276	0.000	1039.000
x		338.700	727.900	730.000	107.900	6.725	7.403	0.000	1047.000
σ		1.710	2.232	1.842	0.184	0.174	0.524	0.000	8.323
%RSD		0.505	0.307	0.252	0.170	2.587	7.079	0.000	0.795

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	0.000	899.700	898.900	53.119%	43.390	43.460	43.280	40.950
2	02:32:37	0.000	908.500	908.800	52.892%	43.050	43.470	43.060	40.700
3	02:33:20	0.000	893.900	897.900	52.906%	42.920	42.870	42.780	40.190
x		0.000	900.700	901.900	52.972%	43.120	43.270	43.040	40.610
σ		0.000	7.333	6.018	0.127%	0.243	0.341	0.251	0.388
%RSD		0.000	0.814	0.667	0.241	0.565	0.789	0.583	0.956

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	54.739%	836.900	177.500	177.600	2608.000	2577.000	68.875%	67.040%
2	02:32:37	55.330%	837.200	177.700	176.200	2600.000	2576.000	68.955%	67.540%
3	02:33:20	54.997%	838.000	179.300	176.700	2561.000	2553.000	70.118%	68.552%
x		55.022%	837.400	178.200	176.800	2590.000	2569.000	69.316%	67.711%
σ		0.296%	0.551	0.959	0.677	24.830	13.630	0.696%	0.770%
%RSD		0.539	0.066	0.538	0.383	0.959	0.530	1.004	1.138

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:31:55	45.990	46.280	113.400	113.600	113.800	56.020%
2	02:32:37	46.340	46.790	114.500	116.000	115.800	56.131%
3	02:33:20	45.850	46.200	113.600	114.200	114.000	56.930%
x		46.060	46.420	113.800	114.600	114.500	56.360%
σ		0.251	0.319	0.558	1.217	1.089	0.497%
%RSD		0.545	0.687	0.490	1.062	0.951	0.881

CCV 781130 4/28/2013 2:39:24 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:07	61.503%	102.900	109.800	109.700	0.000	49360.000	49760.000	49650.000
2	02:40:50	59.687%	108.900	114.600	115.400	0.000	52250.000	52290.000	52080.000
3	02:41:33	60.563%	103.600	113.800	111.300	0.000	50510.000	50530.000	50720.000
x		60.584%	105.150%	112.716%	112.150%	0.000	101.413%	101.720%	101.636%
σ		0.908%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.499	3.113	2.282	2.619	0.000	2.876	2.549	2.394
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:07	478.900	5314.000	0.000	48290.000	46510.000	48150.000	55.377%	98.480
2	02:40:50	503.700	5480.000	0.000	50710.000	48650.000	50360.000	53.225%	102.300
3	02:41:33	485.600	5301.000	0.000	49510.000	47840.000	49200.000	53.341%	99.880
x		97.875%	107.294%	0.000	99.000%	95.335%	98.472%	53.981%	100.231%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.211%	n/a
%RSD		2.622	1.860	0.000	2.444	2.264	2.241	2.243	1.944
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:07	98.320	99.780	467.700	25160.000	24250.000	102.300	105.400	105.000
2	02:40:50	102.100	103.200	515.100	26260.000	25200.000	105.400	108.600	109.000
3	02:41:33	98.850	101.700	480.800	25770.000	24880.000	104.600	106.600	106.500
x		99.763%	101.577%	97.575%	102.914%	99.105%	104.090%	106.883%	106.840%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.061	1.708	5.010	2.156	1.958	1.565	1.499	1.914
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:07	103.600	97.930	98.350	97.670	97.250	97.290	0.000	92.290
2	02:40:50	108.900	102.100	104.000	104.300	102.700	102.000	0.000	96.700
3	02:41:33	106.600	101.500	100.400	102.900	101.800	103.300	0.000	95.680
x		106.354%	100.503%	100.935%	101.598%	100.585%	100.852%	0.000	94.889%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.507	2.234	2.860	3.419	2.909	3.122	0.000	2.436
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:07	57.595%	96.370	96.140	59.507%	96.830	97.690	94.700	96.830
2	02:40:50	55.043%	105.000	103.300	56.801%	100.900	102.300	100.800	102.200
3	02:41:33	55.313%	102.700	101.500	56.843%	99.120	99.830	98.090	99.170
x		55.984%	101.359%	100.314%	57.717%	98.963%	99.928%	97.878%	99.405%
σ		1.402%	n/a	n/a	1.551%	n/a	n/a	n/a	n/a
%RSD		2.504	4.409	3.712	2.686	2.081	2.294	3.144	2.711
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:40:07	59.302%	95.740	92.810	92.620	92.420	93.920	65.281%	65.959%
2	02:40:50	57.058%	100.900	98.990	98.510	98.130	99.130	63.260%	64.149%
3	02:41:33	57.786%	98.560	96.240	95.800	96.540	96.110	63.652%	64.586%
x		58.049%	98.404%	96.012%	95.643%	95.696%	96.388%	64.064%	64.898%
σ		1.145%	n/a	n/a	n/a	n/a	n/a	1.072%	0.945%
%RSD		1.973	2.629	3.229	3.082	3.077	2.715	1.673	1.455
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:40:07	94.640	94.670	94.100	93.980	94.350	63.583%		
2	02:40:50	98.340	98.390	98.790	98.930	98.650	62.695%		
3	02:41:33	96.940	98.050	97.680	97.010	97.410	62.722%		
x		96.638%	97.035%	96.856%	96.642%	96.801%	63.000%		
σ		n/a	n/a	n/a	n/a	n/a	0.505%		
%RSD		1.932	2.121	2.534	2.582	2.285	0.801		

CCB3 4/28/2013 2:47:39 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:21	82.966%	-0.000	4.993	4.188	0.000	26.290	2.749	2.122
2	02:49:04	84.973%	-0.000	4.689	3.939	0.000	27.250	2.575	2.137
3	02:49:47	85.997%	-0.004	4.502	3.784	0.000	26.770	2.711	2.962
x		84.645%	-0.001	4.728	3.970	0.000	26.770	2.678	2.407
σ		1.542%	0.002	0.248	0.204	0.000	0.479	0.091	0.481
%RSD		1.822	144.300	5.243	5.143	0.000	1.788	3.413	19.970
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:21	0.754	2.796	0.000	-32.560	3.340	1.895	80.452%	-0.024
2	02:49:04	0.881	2.927	0.000	-32.380	1.666	2.465	81.547%	-0.026
3	02:49:47	1.003	3.266	0.000	-33.380	4.724	2.797	84.010%	-0.031
x		0.879	2.996	0.000	-32.770	3.243	2.386	82.003%	-0.027
σ		0.125	0.242	0.000	0.533	1.531	0.456	1.822%	0.003
%RSD		14.170	8.084	0.000	1.628	47.220	19.120	2.222	12.630
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:21	-0.006	-0.015	0.127	-2.423	1.369	0.003	0.014	0.070
2	02:49:04	-0.006	-0.035	0.126	-2.749	0.630	0.006	0.008	0.071
3	02:49:47	0.000	-0.024	0.150	-2.163	1.570	0.005	0.005	0.081
x		-0.004	-0.024	0.134	-2.445	1.190	0.005	0.009	0.074
σ		0.004	0.010	0.014	0.293	0.495	0.001	0.005	0.006
%RSD		95.660	40.480	10.200	12.000	41.610	27.110	51.690	8.774
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:21	0.008	0.139	0.111	-0.442	-0.569	-1.684	0.000	0.007
2	02:49:04	-0.000	0.114	0.121	-0.447	-0.528	-1.650	0.000	0.010
3	02:49:47	-0.008	0.111	0.071	-0.302	-0.475	-1.308	0.000	0.011
x		-0.000	0.122	0.101	-0.397	-0.524	-1.547	0.000	0.009
σ		0.008	0.015	0.026	0.082	0.047	0.208	0.000	0.002
%RSD		3797.000	12.620	26.180	20.690	8.934	13.450	0.000	22.720
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:21	80.534%	0.196	0.210	89.264%	-0.036	-0.038	-0.066	-0.036
2	02:49:04	82.776%	0.185	0.179	91.533%	-0.031	-0.038	-0.045	-0.024
3	02:49:47	83.779%	0.162	0.141	92.906%	-0.032	-0.039	-0.045	-0.024
x		82.363%	0.181	0.177	91.234%	-0.033	-0.038	-0.052	-0.028
σ		1.661%	0.018	0.035	1.840%	0.003	0.001	0.012	0.006
%RSD		2.017	9.734	19.570	2.016	8.348	1.993	23.640	23.140
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:48:21	79.439%	0.268	0.103	0.097	0.013	0.018	83.104%	84.038%
2	02:49:04	80.673%	0.242	0.072	0.093	0.013	0.014	84.970%	85.516%
3	02:49:47	82.651%	0.199	0.102	0.092	0.020	0.018	86.486%	86.997%
x		80.921%	0.237	0.092	0.094	0.015	0.017	84.853%	85.517%
σ		1.620%	0.035	0.018	0.002	0.004	0.002	1.694%	1.479%
%RSD		2.002	14.730	19.160	2.662	26.300	12.500	1.996	1.730
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:48:21	0.003	0.008	0.021	0.032	0.027	86.174%		
2	02:49:04	0.007	0.005	0.031	0.025	0.026	88.006%		
3	02:49:47	0.008	0.007	0.031	0.027	0.030	89.060%		
x		0.006	0.007	0.028	0.028	0.028	87.747%		
σ		0.003	0.002	0.006	0.004	0.002	1.461%		
%RSD		49.650	23.010	20.280	13.090	7.847	1.664		

240-22281-C-3-A PDS 4/28/2013 2:55:53 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	55.778%	52.770	948.800	959.300	0.000	51670.000	67520.000	67020.000
2	02:57:19	57.059%	50.130	928.000	940.500	0.000	50170.000	65830.000	65340.000
3	02:58:02	56.931%	50.440	952.500	966.000	0.000	50940.000	66390.000	66490.000
x		56.589%	51.110	943.100	955.300	0.000	50930.000	66580.000	66280.000
σ		0.706%	1.446	13.180	13.210	0.000	751.800	864.200	859.700
%RSD		1.247	2.829	1.398	1.383	0.000	1.476	1.298	1.297

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	67800.000	16070.000	0.000	54930.000	53330.000	55010.000	53.248%	1783.000
2	02:57:19	66230.000	15620.000	0.000	54140.000	52660.000	54030.000	53.489%	1747.000
3	02:58:02	67110.000	15740.000	0.000	54800.000	53470.000	55240.000	53.189%	1775.000
x		67050.000	15810.000	0.000	54620.000	53150.000	54760.000	53.309%	1768.000
σ		786.100	234.900	0.000	423.600	437.200	644.300	0.159%	18.970
%RSD		1.172	1.486	0.000	0.776	0.823	1.177	0.298	1.073

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	616.100	296.800	9122.000	179100.000	180200.000	596.200	676.300	367.900
2	02:57:19	598.500	290.000	8914.000	173200.000	176000.000	576.300	650.900	357.500
3	02:58:02	604.500	294.100	9063.000	176600.000	179500.000	587.800	662.400	363.600
x		606.400	293.700	9033.000	176300.000	178600.000	586.700	663.200	363.000
σ		8.960	3.431	107.300	2947.000	2270.000	10.000	12.710	5.200
%RSD		1.478	1.168	1.188	1.671	1.271	1.704	1.916	1.433

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	366.000	745.200	749.400	100.400	8.418	10.550	0.000	1137.000
2	02:57:19	356.600	727.600	738.800	96.320	8.154	8.638	0.000	1117.000
3	02:58:02	360.200	739.100	744.200	99.240	8.644	9.615	0.000	1140.000
x		360.900	737.300	744.200	98.670	8.405	9.601	0.000	1132.000
σ		4.763	8.938	5.267	2.120	0.245	0.957	0.000	12.570
%RSD		1.320	1.212	0.708	2.149	2.916	9.965	0.000	1.111

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	0.000	1120.000	1122.000	49.388%	51.860	51.860	48.020	37.610
2	02:57:19	0.000	1098.000	1097.000	49.448%	50.620	50.290	46.520	37.880
3	02:58:02	0.000	1116.000	1124.000	49.215%	52.040	51.710	47.270	38.060
x		0.000	1111.000	1114.000	49.350%	51.500	51.290	47.270	37.850
σ		0.000	11.670	14.940	0.121%	0.772	0.869	0.753	0.224
%RSD		0.000	1.050	1.341	0.245	1.499	1.693	1.592	0.593

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	54.226%	2140.000	442.100	443.500	2425.000	2420.000	66.567%	65.910%
2	02:57:19	55.366%	2069.000	437.800	432.400	2341.000	2340.000	68.575%	66.969%
3	02:58:02	55.070%	2120.000	449.800	447.000	2416.000	2400.000	68.331%	67.088%
x		54.887%	2109.000	443.200	441.000	2394.000	2387.000	67.824%	66.656%
σ		0.592%	36.670	6.099	7.595	46.020	41.630	1.096%	0.649%
%RSD		1.078	1.738	1.376	1.722	1.923	1.744	1.616	0.973

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	02:56:36	51.180	51.850	99.440	98.880	99.460	57.698%
2	02:57:19	50.760	50.900	98.990	98.580	99.010	58.156%
3	02:58:02	53.080	53.330	102.400	102.900	103.100	56.997%
x		51.670	52.030	100.300	100.100	100.500	57.617%
σ		1.239	1.227	1.841	2.404	2.228	0.584%
%RSD		2.398	2.358	1.836	2.402	2.217	1.013

240-22281-C-4-A 4/28/2013 3:04:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	61.889%	1.408	20.600	19.710	0.000	240.300	4613.000	4552.000
2	03:05:32	61.848%	1.497	20.020	19.570	0.000	243.200	4718.000	4679.000
3	03:06:15	62.385%	1.370	19.340	18.910	0.000	245.600	4711.000	4572.000
x		62.041%	1.425	19.980	19.390	0.000	243.000	4681.000	4601.000
σ		0.299%	0.065	0.631	0.427	0.000	2.663	58.890	68.160
%RSD		0.482	4.593	3.158	2.201	0.000	1.096	1.258	1.481

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	21430.000	4821.000	0.000	3521.000	2064.000	2040.000	57.365%	253.600
2	03:05:32	21950.000	4909.000	0.000	3660.000	2221.000	2122.000	57.017%	256.300
3	03:06:15	21950.000	4844.000	0.000	3629.000	2211.000	2151.000	56.766%	258.500
x		21780.000	4858.000	0.000	3603.000	2165.000	2105.000	57.049%	256.100
σ		303.200	45.740	0.000	72.930	88.030	57.500	0.301%	2.462
%RSD		1.392	0.942	0.000	2.024	4.065	2.732	0.528	0.961

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	41.820	78.470	9458.000	67670.000	67650.000	45.710	113.900	37.170
2	03:05:32	43.000	79.480	9733.000	69250.000	69500.000	46.660	116.700	37.860
3	03:06:15	43.350	80.140	9868.000	69970.000	69340.000	46.810	117.100	38.220
x		42.720	79.360	9686.000	68960.000	68830.000	46.390	115.900	37.750
σ		0.800	0.840	209.200	1173.000	1023.000	0.598	1.751	0.536
%RSD		1.872	1.058	2.159	1.701	1.487	1.288	1.511	1.420

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	36.220	216.100	216.900	47.210	0.091	0.279	0.000	30.180
2	03:05:32	37.620	220.500	220.300	47.230	0.040	-0.222	0.000	30.450
3	03:06:15	37.660	220.700	219.900	48.420	-0.101	0.309	0.000	31.470
x		37.170	219.100	219.000	47.620	0.010	0.122	0.000	30.700
σ		0.823	2.585	1.846	0.696	0.100	0.298	0.000	0.678
%RSD		2.213	1.180	0.843	1.460	984.400	245.100	0.000	2.208

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	0.000	12.820	12.980	61.815%	0.039	0.015	0.575	0.568
2	03:05:32	0.000	12.920	13.070	61.986%	0.039	0.026	0.601	0.513
3	03:06:15	0.000	12.990	13.170	61.233%	0.029	0.023	0.520	0.468
x		0.000	12.910	13.070	61.678%	0.036	0.021	0.565	0.516
σ		0.000	0.085	0.094	0.395%	0.006	0.006	0.042	0.050
%RSD		0.000	0.656	0.721	0.640	16.250	26.930	7.346	9.681

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	61.572%	3.853	2.317	2.342	456.600	456.800	68.308%	69.143%
2	03:05:32	61.436%	3.473	1.930	1.794	463.500	463.600	69.476%	69.373%
3	03:06:15	61.634%	3.097	1.576	1.470	467.900	467.900	68.852%	69.542%
x		61.547%	3.474	1.941	1.869	462.600	462.800	68.878%	69.353%
σ		0.101%	0.378	0.371	0.441	5.709	5.581	0.585%	0.201%
%RSD		0.165	10.890	19.110	23.580	1.234	1.206	0.849	0.289

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:49	0.629	0.604	35.920	35.270	35.640	65.800%
2	03:05:32	0.643	0.628	37.300	36.460	36.800	65.905%
3	03:06:15	0.630	0.634	36.830	36.420	36.600	66.412%
x		0.634	0.622	36.680	36.050	36.350	66.039%
σ		0.008	0.016	0.698	0.675	0.619	0.327%
%RSD		1.242	2.495	1.904	1.873	1.703	0.496

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	62.636%	1.242	16.390	15.750	0.000	203.300	5051.000	5029.000
2	03:13:46	64.354%	1.134	14.950	15.170	0.000	199.900	4963.000	4928.000
3	03:14:29	64.284%	1.288	15.090	15.570	0.000	201.700	4961.000	4941.000
x		63.758%	1.221	15.470	15.490	0.000	201.600	4992.000	4966.000
σ		0.972%	0.079	0.794	0.297	0.000	1.701	51.440	55.130
%RSD		1.525	6.449	5.130	1.919	0.000	0.844	1.030	1.110

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	19540.000	4769.000	0.000	3348.000	5178.000	4974.000	58.332%	230.300
2	03:13:46	19070.000	4689.000	0.000	3328.000	5207.000	4958.000	58.635%	232.300
3	03:14:29	19260.000	4689.000	0.000	3322.000	5125.000	4926.000	59.012%	231.100
x		19290.000	4716.000	0.000	3333.000	5170.000	4953.000	58.660%	231.200
σ		238.800	45.880	0.000	13.480	41.540	24.310	0.341%	0.990
%RSD		1.238	0.973	0.000	0.404	0.803	0.491	0.581	0.428

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	48.130	76.670	23810.000	61720.000	61640.000	48.640	126.200	38.910
2	03:13:46	48.670	76.000	23960.000	61680.000	61660.000	48.360	124.100	39.040
3	03:14:29	47.800	75.740	23890.000	61080.000	60970.000	48.400	124.000	38.570
x		48.200	76.130	23890.000	61490.000	61420.000	48.470	124.800	38.840
σ		0.440	0.482	74.150	360.400	389.100	0.152	1.250	0.241
%RSD		0.913	0.633	0.310	0.586	0.634	0.314	1.001	0.621

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	39.280	191.300	194.000	44.310	-0.122	-0.128	0.000	29.680
2	03:13:46	38.640	193.200	193.500	44.430	-0.179	-0.414	0.000	29.270
3	03:14:29	38.400	192.400	196.400	44.540	-0.070	0.128	0.000	30.070
x		38.770	192.300	194.700	44.430	-0.124	-0.138	0.000	29.670
σ		0.452	0.926	1.558	0.119	0.054	0.271	0.000	0.400
%RSD		1.165	0.482	0.801	0.267	43.950	196.600	0.000	1.347

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	0.000	14.520	14.360	63.218%	0.040	0.005	0.625	0.611
2	03:13:46	0.000	14.380	14.010	63.686%	0.030	0.007	0.596	0.551
3	03:14:29	0.000	14.210	14.120	63.046%	0.032	0.015	0.616	0.589
x		0.000	14.370	14.160	63.317%	0.034	0.009	0.613	0.584
σ		0.000	0.155	0.176	0.331%	0.005	0.005	0.015	0.030
%RSD		0.000	1.078	1.242	0.523	15.680	58.100	2.452	5.166

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	63.122%	2.316	0.796	0.766	293.700	292.500	70.035%	70.779%
2	03:13:46	63.109%	2.348	0.763	0.781	296.100	295.400	70.694%	71.224%
3	03:14:29	62.972%	2.250	0.740	0.704	295.600	295.600	71.399%	71.438%
x		63.068%	2.304	0.766	0.751	295.200	294.500	70.709%	71.147%
σ		0.083%	0.050	0.028	0.041	1.272	1.741	0.682%	0.336%
%RSD		0.132	2.170	3.690	5.458	0.431	0.591	0.965	0.472

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:03	0.596	0.621	34.420	33.660	34.100	67.373%
2	03:13:46	0.626	0.618	34.870	34.360	34.640	67.044%
3	03:14:29	0.631	0.645	35.030	34.670	34.770	67.139%
x		0.618	0.628	34.780	34.230	34.510	67.186%
σ		0.019	0.015	0.317	0.516	0.357	0.169%
%RSD		3.067	2.325	0.910	1.509	1.034	0.252

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:15	61.134%	1.879	13.880	14.450	0.000	198.900	7025.000	7059.000
2	03:21:58	62.863%	1.841	13.740	13.630	0.000	194.200	6806.000	6793.000
3	03:22:41	61.529%	1.827	14.240	13.780	0.000	198.700	6445.000	6917.000
x		61.842%	1.849	13.960	13.950	0.000	197.300	6758.000	6923.000
σ		0.906%	0.027	0.255	0.436	0.000	2.643	292.900	133.200
%RSD		1.465	1.463	1.830	3.126	0.000	1.340	4.333	1.924
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:15	31110.000	4975.000	0.000	4382.000	2165.000	2104.000	57.838%	275.000
2	03:21:58	29970.000	4795.000	0.000	4239.000	2134.000	2074.000	58.627%	266.400
3	03:22:41	30530.000	4838.000	0.000	4294.000	2151.000	2061.000	57.596%	268.500
x		30540.000	4869.000	0.000	4305.000	2150.000	2080.000	58.020%	270.000
σ		572.300	93.750	0.000	72.030	15.720	21.910	0.539%	4.444
%RSD		1.874	1.925	0.000	1.673	0.731	1.054	0.930	1.646
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:15	52.230	51.070	1694.000	78000.000	78110.000	71.350	115.700	46.420
2	03:21:58	50.720	49.730	1656.000	76200.000	75810.000	69.220	111.300	45.270
3	03:22:41	51.010	50.390	1684.000	77240.000	76830.000	70.050	113.800	45.380
x		51.320	50.400	1678.000	77150.000	76910.000	70.210	113.600	45.690
σ		0.803	0.669	19.340	900.500	1151.000	1.074	2.202	0.635
%RSD		1.564	1.328	1.152	1.167	1.497	1.529	1.939	1.391
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:15	46.540	172.300	173.300	30.750	-0.147	0.255	0.000	19.110
2	03:21:58	45.010	169.700	170.600	29.610	-0.035	0.032	0.000	19.140
3	03:22:41	44.840	168.800	170.800	29.760	0.033	-0.360	0.000	19.190
x		45.460	170.300	171.600	30.040	-0.050	-0.025	0.000	19.140
σ		0.938	1.805	1.499	0.622	0.091	0.311	0.000	0.041
%RSD		2.063	1.060	0.874	2.071	182.300	1268.000	0.000	0.212
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:15	0.000	2.827	3.035	62.170%	0.040	0.012	0.429	0.381
2	03:21:58	0.000	2.831	2.751	62.386%	0.051	0.011	0.467	0.395
3	03:22:41	0.000	2.835	2.826	61.975%	0.049	0.018	0.469	0.367
x		0.000	2.831	2.871	62.177%	0.046	0.014	0.455	0.381
σ		0.000	0.004	0.147	0.205%	0.006	0.004	0.023	0.014
%RSD		0.000	0.138	5.125	0.330	12.220	29.880	4.950	3.603
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:21:15	61.934%	1.711	0.417	0.415	152.500	153.800	68.942%	69.248%
2	03:21:58	62.992%	1.646	0.381	0.372	150.700	151.000	69.969%	70.508%
3	03:22:41	62.433%	1.688	0.397	0.382	151.200	151.200	69.950%	70.036%
x		62.453%	1.682	0.398	0.389	151.500	152.000	69.620%	69.931%
σ		0.529%	0.033	0.018	0.022	0.950	1.543	0.588%	0.637%
%RSD		0.847	1.948	4.600	5.743	0.627	1.015	0.844	0.910
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	03:21:15	0.636	0.648	46.490	46.080	46.340	65.956%		
2	03:21:58	0.635	0.632	46.030	45.460	45.810	66.344%		
3	03:22:41	0.623	0.645	46.340	45.470	45.810	66.436%		
x		0.631	0.642	46.290	45.670	45.990	66.245%		
σ		0.007	0.008	0.236	0.356	0.306	0.255%		
%RSD		1.146	1.289	0.510	0.780	0.666	0.385		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	61.275%	1.862	13.120	13.120	0.000	190.700	7332.000	7354.000
2	03:30:09	62.523%	2.004	13.220	13.100	0.000	187.400	7272.000	7244.000
3	03:30:52	62.929%	1.919	12.810	12.580	0.000	190.500	7221.000	7255.000
x		62.242%	1.928	13.050	12.930	0.000	189.500	7275.000	7284.000
σ		0.862%	0.071	0.217	0.303	0.000	1.842	55.480	60.670
%RSD		1.385	3.702	1.661	2.339	0.000	0.972	0.762	0.833

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	35050.000	5862.000	0.000	3998.000	1347.000	1283.000	57.959%	405.100
2	03:30:09	34780.000	5753.000	0.000	3976.000	1310.000	1291.000	58.448%	402.100
3	03:30:52	34590.000	5725.000	0.000	4026.000	1351.000	1299.000	58.108%	404.200
x		34810.000	5780.000	0.000	4000.000	1336.000	1291.000	58.172%	403.800
σ		233.500	72.260	0.000	25.250	22.490	8.136	0.251%	1.546
%RSD		0.671	1.250	0.000	0.631	1.684	0.630	0.431	0.383

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	62.660	52.190	1305.000	78380.000	78200.000	43.710	86.030	44.700
2	03:30:09	62.810	52.230	1306.000	78120.000	78200.000	43.590	85.010	44.380
3	03:30:52	63.500	51.740	1310.000	77960.000	78270.000	43.550	85.200	44.910
x		62.990	52.050	1307.000	78150.000	78220.000	43.620	85.410	44.660
σ		0.446	0.273	2.769	214.200	39.840	0.081	0.542	0.266
%RSD		0.708	0.525	0.212	0.274	0.051	0.186	0.635	0.596

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	44.670	205.700	206.800	33.280	0.317	0.330	0.000	12.450
2	03:30:09	44.230	206.500	209.000	32.770	0.270	0.387	0.000	12.560
3	03:30:52	44.640	206.000	209.900	33.730	0.235	0.473	0.000	12.680
x		44.510	206.100	208.600	33.260	0.274	0.397	0.000	12.560
σ		0.248	0.367	1.595	0.481	0.041	0.072	0.000	0.116
%RSD		0.556	0.178	0.765	1.445	15.000	18.060	0.000	0.921

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	0.000	4.127	3.806	62.572%	0.062	0.014	0.488	0.429
2	03:30:09	0.000	3.968	3.787	62.688%	0.067	0.015	0.514	0.400
3	03:30:52	0.000	4.069	3.836	62.152%	0.037	0.007	0.548	0.429
x		0.000	4.055	3.809	62.471%	0.055	0.012	0.517	0.420
σ		0.000	0.081	0.024	0.282%	0.016	0.005	0.030	0.017
%RSD		0.000	1.986	0.643	0.451	29.080	37.810	5.901	3.980

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	61.872%	1.359	0.302	0.341	148.900	147.300	69.343%	69.742%
2	03:30:09	62.240%	1.342	0.297	0.313	145.100	146.400	69.849%	70.236%
3	03:30:52	62.447%	1.325	0.301	0.331	147.500	146.900	70.534%	70.499%
x		62.186%	1.342	0.300	0.328	147.200	146.800	69.908%	70.159%
σ		0.291%	0.017	0.003	0.014	1.878	0.444	0.598%	0.384%
%RSD		0.468	1.237	0.899	4.230	1.276	0.303	0.855	0.548

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:29:26	0.596	0.622	42.550	41.910	42.470	65.786%
2	03:30:09	0.620	0.629	43.090	42.560	43.190	65.871%
3	03:30:52	0.620	0.622	43.100	42.580	43.210	66.298%
x		0.612	0.624	42.910	42.350	42.950	65.985%
σ		0.014	0.004	0.315	0.384	0.418	0.275%
%RSD		2.302	0.700	0.734	0.905	0.974	0.416

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	61.821%	2.384	14.690	15.660	0.000	261.200	11500.000	11320.000
2	03:38:20	61.102%	2.380	16.120	16.060	0.000	270.800	11790.000	11700.000
3	03:39:03	63.155%	2.239	14.570	14.950	0.000	253.700	11060.000	10970.000
x		62.026%	2.334	15.130	15.560	0.000	261.900	11450.000	11330.000
σ		1.042%	0.083	0.861	0.562	0.000	8.561	367.700	364.400
%RSD		1.679	3.536	5.689	3.611	0.000	3.269	3.211	3.216

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	48150.000	5675.000	0.000	5340.000	3480.000	3358.000	58.479%	535.000
2	03:38:20	49760.000	5743.000	0.000	5502.000	3633.000	3449.000	57.379%	551.600
3	03:39:03	46500.000	5388.000	0.000	5139.000	3464.000	3255.000	58.547%	527.100
x		48140.000	5602.000	0.000	5327.000	3526.000	3354.000	58.135%	537.900
σ		1635.000	188.400	0.000	182.000	93.390	96.680	0.655%	12.510
%RSD		3.396	3.364	0.000	3.416	2.649	2.882	1.128	2.326

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	78.330	79.150	2204.000	105500.000	106100.000	53.670	115.900	70.980
2	03:38:20	82.460	81.480	2293.000	108200.000	108700.000	54.620	116.700	72.360
3	03:39:03	76.290	76.400	2166.000	103800.000	103700.000	52.190	112.200	68.860
x		79.020	79.010	2221.000	105900.000	106200.000	53.490	114.900	70.730
σ		3.142	2.544	65.110	2217.000	2490.000	1.224	2.423	1.766
%RSD		3.976	3.220	2.931	2.094	2.345	2.288	2.108	2.496

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	70.970	284.400	284.900	42.940	0.302	0.352	0.000	28.660
2	03:38:20	72.000	291.800	292.500	42.840	0.265	0.363	0.000	29.820
3	03:39:03	67.860	279.000	283.300	41.030	0.098	-0.226	0.000	28.430
x		70.280	285.100	286.900	42.270	0.222	0.163	0.000	28.970
σ		2.153	6.397	4.925	1.078	0.109	0.337	0.000	0.744
%RSD		3.064	2.244	1.717	2.551	49.010	206.600	0.000	2.570

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	0.000	7.289	7.317	62.082%	0.071	0.029	0.782	0.679
2	03:38:20	0.000	7.609	7.576	60.668%	0.079	0.036	0.710	0.611
3	03:39:03	0.000	7.364	7.375	61.379%	0.089	0.039	0.760	0.643
x		0.000	7.420	7.423	61.376%	0.080	0.035	0.750	0.644
σ		0.000	0.167	0.136	0.707%	0.009	0.005	0.037	0.034
%RSD		0.000	2.254	1.830	1.152	11.420	15.440	4.945	5.301

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	61.431%	1.360	0.242	0.293	250.100	251.100	69.434%	69.628%
2	03:38:20	60.696%	1.339	0.257	0.248	255.800	256.600	69.102%	69.364%
3	03:39:03	61.744%	1.289	0.230	0.253	242.900	244.900	70.433%	70.369%
x		61.290%	1.330	0.243	0.265	249.600	250.800	69.656%	69.787%
σ		0.538%	0.036	0.014	0.025	6.446	5.858	0.693%	0.521%
%RSD		0.877	2.717	5.664	9.305	2.583	2.335	0.994	0.746

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:37	0.797	0.796	57.090	56.460	56.830	65.223%
2	03:38:20	0.816	0.823	59.140	58.230	58.800	64.173%
3	03:39:03	0.791	0.784	56.360	55.240	56.070	66.060%
x		0.801	0.801	57.530	56.640	57.240	65.152%
σ		0.013	0.020	1.442	1.506	1.410	0.946%
%RSD		1.659	2.459	2.507	2.659	2.463	1.451

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	60.787%	2.583	16.390	16.670	0.000	236.800	9405.000	9409.000
2	03:46:32	61.711%	2.481	16.520	16.010	0.000	236.000	9271.000	9239.000
3	03:47:15	61.584%	2.368	15.830	16.350	0.000	237.400	9321.000	9226.000
x		61.361%	2.477	16.250	16.350	0.000	236.700	9332.000	9291.000
σ		0.501%	0.108	0.363	0.330	0.000	0.700	67.750	102.100
%RSD		0.816	4.338	2.234	2.016	0.000	0.295	0.726	1.099

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	46170.000	5510.000	0.000	5430.000	1612.000	1528.000	58.285%	485.700
2	03:46:32	46080.000	5369.000	0.000	5365.000	1570.000	1530.000	58.177%	486.200
3	03:47:15	45510.000	5387.000	0.000	5348.000	1547.000	1526.000	58.174%	477.200
x		45920.000	5422.000	0.000	5381.000	1576.000	1528.000	58.212%	483.000
σ		359.600	76.640	0.000	43.120	32.640	1.913	0.063%	5.063
%RSD		0.783	1.414	0.000	0.801	2.071	0.125	0.108	1.048

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	80.290	75.610	1523.000	110800.000	112200.000	40.340	115.800	67.740
2	03:46:32	79.600	74.260	1513.000	110200.000	110800.000	39.560	111.100	66.300
3	03:47:15	79.110	73.700	1509.000	109900.000	110700.000	39.470	112.100	66.260
x		79.660	74.520	1515.000	110300.000	111300.000	39.790	113.000	66.770
σ		0.593	0.983	7.546	476.000	859.000	0.480	2.486	0.842
%RSD		0.745	1.318	0.498	0.431	0.772	1.207	2.200	1.262

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	67.200	232.000	231.900	125.300	0.509	0.568	0.000	16.600
2	03:46:32	65.570	229.300	230.600	122.800	0.425	0.940	0.000	16.650
3	03:47:15	66.030	228.400	232.000	121.300	0.488	0.647	0.000	16.600
x		66.270	229.900	231.500	123.100	0.474	0.718	0.000	16.620
σ		0.838	1.870	0.779	2.006	0.044	0.196	0.000	0.031
%RSD		1.264	0.814	0.337	1.629	9.242	27.310	0.000	0.187

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	0.000	7.896	8.024	61.591%	0.064	0.013	0.671	0.602
2	03:46:32	0.000	8.043	8.042	61.476%	0.070	0.008	0.685	0.529
3	03:47:15	0.000	8.017	8.077	61.238%	0.064	0.019	0.695	0.550
x		0.000	7.985	8.048	61.435%	0.066	0.013	0.684	0.561
σ		0.000	0.079	0.027	0.180%	0.004	0.006	0.012	0.037
%RSD		0.000	0.987	0.330	0.293	5.389	43.880	1.803	6.645

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	61.589%	1.184	0.282	0.292	208.900	208.200	69.201%	69.528%
2	03:46:32	61.700%	1.167	0.251	0.294	208.400	207.500	70.567%	70.743%
3	03:47:15	61.558%	1.208	0.282	0.285	205.600	205.400	70.710%	70.789%
x		61.615%	1.187	0.272	0.290	207.600	207.000	70.160%	70.353%
σ		0.075%	0.020	0.018	0.005	1.809	1.447	0.833%	0.715%
%RSD		0.121	1.727	6.670	1.693	0.871	0.699	1.188	1.016

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	03:45:49	1.121	1.093	52.590	51.290	51.790	65.946%
2	03:46:32	1.065	1.091	52.750	51.850	52.250	65.604%
3	03:47:15	1.102	1.082	52.530	51.690	52.090	65.338%
x		1.096	1.089	52.620	51.610	52.040	65.629%
σ		0.028	0.006	0.113	0.289	0.233	0.304%
%RSD		2.578	0.532	0.215	0.561	0.447	0.464

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:00	60.889%	3.618	16.280	16.890	0.000	297.500	15540.000	15440.000
2	03:54:43	62.258%	3.390	16.930	17.190	0.000	294.300	15190.000	15120.000
3	03:55:26	60.944%	3.365	17.700	17.370	0.000	299.000	15460.000	15350.000
x		61.364%	3.458	16.970	17.150	0.000	296.900	15400.000	15300.000
σ		0.775%	0.140	0.707	0.243	0.000	2.391	181.800	163.600
%RSD		1.263	4.037	4.167	1.416	0.000	0.805	1.181	1.069
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:00	65650.000	6357.000	0.000	6273.000	2035.000	1971.000	58.666%	838.200
2	03:54:43	63660.000	6112.000	0.000	6126.000	1951.000	1931.000	59.047%	819.500
3	03:55:26	65040.000	6204.000	0.000	6264.000	2074.000	1964.000	57.894%	836.100
x		64780.000	6224.000	0.000	6221.000	2020.000	1955.000	58.536%	831.300
σ		1020.000	123.400	0.000	82.200	62.880	21.530	0.588%	10.220
%RSD		1.574	1.982	0.000	1.321	3.113	1.101	1.004	1.230
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:00	116.300	91.050	3884.000	150800.000	150800.000	76.330	159.300	106.300
2	03:54:43	113.500	89.030	3800.000	147000.000	147700.000	74.510	155.500	104.000
3	03:55:26	115.200	89.950	3877.000	149700.000	150800.000	75.350	158.400	105.300
x		115.000	90.010	3854.000	149200.000	149800.000	75.390	157.700	105.200
σ		1.410	1.013	46.380	1965.000	1808.000	0.913	1.992	1.154
%RSD		1.226	1.125	1.203	1.317	1.207	1.211	1.263	1.098
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:00	106.200	276.400	281.100	82.400	0.584	1.274	0.000	27.760
2	03:54:43	104.000	274.800	276.900	80.640	0.577	0.896	0.000	27.670
3	03:55:26	105.700	279.300	281.500	81.250	0.617	0.579	0.000	28.140
x		105.300	276.800	279.800	81.430	0.593	0.916	0.000	27.860
σ		1.119	2.315	2.540	0.892	0.021	0.348	0.000	0.251
%RSD		1.063	0.836	0.908	1.095	3.562	37.950	0.000	0.901
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:00	0.000	6.108	5.947	60.936%	0.090	0.042	0.979	0.771
2	03:54:43	0.000	5.790	5.970	61.143%	0.094	0.031	0.864	0.701
3	03:55:26	0.000	5.918	5.998	60.480%	0.073	0.051	0.803	0.634
x		0.000	5.939	5.972	60.853%	0.086	0.041	0.882	0.702
σ		0.000	0.160	0.026	0.340%	0.011	0.010	0.089	0.069
%RSD		0.000	2.699	0.429	0.558	12.910	24.500	10.140	9.764
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:00	61.284%	1.160	0.242	0.284	451.200	444.200	70.727%	70.385%
2	03:54:43	61.766%	1.105	0.254	0.255	437.200	439.300	71.088%	71.825%
3	03:55:26	61.449%	1.113	0.259	0.276	443.200	444.400	71.089%	71.211%
x		61.500%	1.126	0.252	0.272	443.900	442.600	70.968%	71.140%
σ		0.245%	0.030	0.009	0.015	7.034	2.919	0.209%	0.722%
%RSD		0.398	2.652	3.544	5.517	1.585	0.659	0.294	1.015
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	03:54:00	1.133	1.139	76.490	75.240	75.940	64.729%		
2	03:54:43	1.120	1.134	76.900	75.300	76.210	65.201%		
3	03:55:26	1.122	1.132	77.770	76.270	77.140	64.354%		
x		1.125	1.135	77.050	75.600	76.430	64.761%		
σ		0.007	0.004	0.654	0.576	0.631	0.424%		
%RSD		0.605	0.326	0.850	0.762	0.826	0.655		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	45.394%	18.480	37.800	36.490	0.000	34440.000	9681.000	9668.000
2	04:02:55	45.089%	17.690	37.820	36.670	0.000	34140.000	9590.000	9640.000
3	04:03:38	45.144%	18.660	38.560	37.050	0.000	34200.000	9658.000	9643.000
x		45.209%	18.280	38.060	36.740	0.000	34260.000	9643.000	9651.000
σ		0.163%	0.517	0.436	0.289	0.000	160.000	46.970	15.370
%RSD		0.359	2.831	1.146	0.786	0.000	0.467	0.487	0.159

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	60950.000	6989.000	0.000	36140.000	22070.000	20750.000	43.966%	1374.000
2	04:02:55	60070.000	6854.000	0.000	35470.000	21840.000	20730.000	43.932%	1360.000
3	04:03:38	59780.000	6829.000	0.000	35330.000	21720.000	20740.000	42.915%	1365.000
x		60270.000	6891.000	0.000	35650.000	21880.000	20740.000	43.604%	1366.000
σ		609.300	86.070	0.000	436.600	177.700	8.781	0.597%	7.021
%RSD		1.011	1.249	0.000	1.225	0.812	0.042	1.369	0.514

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	212.800	127.000	1559000.000	171500.000	174700.000	389.300	486.200	848.700
2	04:02:55	211.700	124.700	1566000.000	171300.000	174800.000	381.700	483.000	840.700
3	04:03:38	212.600	125.800	1596000.000	172100.000	175600.000	379.300	478.600	835.300
x		212.400	125.800	1574000.000	171700.000	175000.000	383.500	482.600	841.600
σ		0.557	1.180	20140.000	411.900	474.400	5.233	3.831	6.725
%RSD		0.262	0.938	1.280	0.240	0.271	1.365	0.794	0.799

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	858.900	385.000	409.600	182.200	1.024	2.291	0.000	8749.000
2	04:02:55	857.700	385.300	392.000	182.900	0.773	2.756	0.000	8802.000
3	04:03:38	846.400	383.900	381.900	182.900	1.021	2.004	0.000	8910.000
x		854.300	384.700	394.500	182.600	0.939	2.350	0.000	8820.000
σ		6.867	0.736	14.060	0.422	0.144	0.380	0.000	82.180
%RSD		0.804	0.191	3.564	0.231	15.350	16.160	0.000	0.932

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	0.000	26.210	22.950	39.870%	0.500	0.436	2.821	2.281
2	04:02:55	0.000	25.540	23.560	39.246%	0.466	0.424	2.580	2.106
3	04:03:38	0.000	25.880	23.230	38.724%	0.419	0.405	2.655	2.107
x		0.000	25.880	23.250	39.280%	0.462	0.421	2.685	2.165
σ		0.000	0.332	0.305	0.574%	0.040	0.016	0.124	0.101
%RSD		0.000	1.283	1.311	1.461	8.769	3.747	4.601	4.652

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	47.814%	1.952	4.718	4.523	105000.000	103800.000	51.861%	53.146%
2	04:02:55	48.183%	1.875	4.618	4.518	104000.000	102900.000	52.470%	53.722%
3	04:03:38	47.695%	1.922	4.572	4.615	104800.000	104100.000	51.686%	53.571%
x		47.898%	1.916	4.636	4.552	104600.000	103600.000	52.006%	53.480%
σ		0.255%	0.039	0.075	0.055	550.500	598.500	0.411%	0.299%
%RSD		0.531	2.009	1.616	1.199	0.526	0.578	0.791	0.559

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:12	7.106	7.093	156.300	160.400	156.700	43.156%
2	04:02:55	6.970	7.083	155.200	160.500	156.900	43.605%
3	04:03:38	7.108	7.028	155.600	160.200	157.300	43.701%
x		7.061	7.068	155.700	160.400	157.000	43.487%
σ		0.079	0.035	0.513	0.177	0.302	0.291%
%RSD		1.124	0.496	0.330	0.110	0.193	0.670

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	51.653%	4.712	12.390	12.780	0.000	2693.000	15350.000	15270.000
2	04:11:07	53.154%	4.762	11.950	12.660	0.000	2656.000	15120.000	14910.000
3	04:11:50	53.173%	4.694	13.330	12.630	0.000	2655.000	15170.000	15110.000
x		52.660%	4.723	12.560	12.690	0.000	2668.000	15220.000	15100.000
σ		0.872%	0.035	0.705	0.079	0.000	21.340	120.400	179.300
%RSD		1.656	0.748	5.610	0.625	0.000	0.800	0.791	1.188

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	96570.000	5513.000	0.000	5902.000	5886.000	5666.000	48.502%	1224.000
2	04:11:07	94420.000	5377.000	0.000	5760.000	5804.000	5623.000	48.773%	1208.000
3	04:11:50	94980.000	5422.000	0.000	5799.000	5989.000	5719.000	48.578%	1224.000
x		95320.000	5437.000	0.000	5820.000	5893.000	5669.000	48.618%	1219.000
σ		1114.000	68.880	0.000	73.700	92.440	48.280	0.140%	9.173
%RSD		1.169	1.267	0.000	1.266	1.569	0.852	0.288	0.752

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	180.800	107.600	167100.000	174200.000	176300.000	50.730	117.000	149.900
2	04:11:07	178.700	105.700	166200.000	172800.000	174500.000	50.120	115.200	149.100
3	04:11:50	180.600	107.000	167300.000	174300.000	176200.000	50.200	114.800	149.600
x		180.000	106.800	166900.000	173800.000	175600.000	50.350	115.700	149.600
σ		1.123	0.954	616.000	815.400	1028.000	0.331	1.210	0.418
%RSD		0.624	0.894	0.369	0.469	0.586	0.656	1.046	0.280

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	151.200	253.500	254.300	67.530	1.997	2.016	0.000	195.100
2	04:11:07	150.400	253.100	254.700	68.210	1.891	2.044	0.000	195.700
3	04:11:50	150.400	254.100	256.600	67.790	1.478	2.095	0.000	196.400
x		150.600	253.500	255.200	67.840	1.789	2.052	0.000	195.700
σ		0.463	0.489	1.231	0.347	0.274	0.040	0.000	0.676
%RSD		0.307	0.193	0.482	0.511	15.320	1.941	0.000	0.345

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	0.000	9.667	9.668	50.839%	0.154	0.055	0.879	0.695
2	04:11:07	0.000	9.685	9.522	51.068%	0.137	0.096	0.781	0.592
3	04:11:50	0.000	9.817	9.438	51.150%	0.143	0.103	0.754	0.656
x		0.000	9.723	9.542	51.019%	0.145	0.085	0.805	0.647
σ		0.000	0.082	0.116	0.161%	0.009	0.026	0.066	0.052
%RSD		0.000	0.840	1.218	0.316	6.018	30.360	8.190	7.969

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	52.184%	1.178	0.215	0.217	8952.000	8867.000	58.907%	59.315%
2	04:11:07	52.692%	1.187	0.203	0.231	8918.000	8882.000	59.550%	60.588%
3	04:11:50	52.707%	1.175	0.216	0.257	8933.000	8858.000	60.223%	61.059%
x		52.528%	1.180	0.211	0.235	8934.000	8869.000	59.560%	60.320%
σ		0.298%	0.007	0.007	0.020	16.770	12.290	0.658%	0.902%
%RSD		0.567	0.559	3.269	8.598	0.188	0.139	1.105	1.496

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:10:25	1.129	1.161	97.930	95.430	96.540	56.266%
2	04:11:07	1.122	1.158	97.520	95.570	96.410	57.165%
3	04:11:50	1.203	1.173	98.130	96.560	97.440	57.321%
x		1.151	1.164	97.860	95.850	96.800	56.918%
σ		0.045	0.008	0.310	0.616	0.561	0.570%
%RSD		3.897	0.677	0.316	0.642	0.579	1.001

CCV 781130 4/28/2013 4:17:54 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	54.290%	107.800	104.500	103.900	0.000	52150.000	52410.000	52460.000
2	04:19:20	55.716%	102.300	102.200	101.700	0.000	50490.000	50530.000	50370.000
3	04:20:03	55.428%	106.000	101.500	102.800	0.000	51150.000	51460.000	51220.000
x		55.145%	105.358%	102.710%	102.797%	0.000	102.529%	102.932%	102.699%
σ		0.754%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.367	2.643	1.538	1.082	0.000	1.623	1.826	2.044

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	505.000	5537.000	0.000	50930.000	47950.000	50330.000	48.930%	100.800
2	04:19:20	483.000	5309.000	0.000	49710.000	47390.000	49810.000	48.925%	98.610
3	04:20:03	490.500	5383.000	0.000	50090.000	47750.000	50090.000	48.811%	100.700
x		98.559%	108.195%	0.000	100.488%	95.388%	100.154%	48.889%	100.020%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.067%	n/a
%RSD		2.268	2.157	0.000	1.244	0.596	0.524	0.137	1.222

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	102.000	102.500	484.900	26520.000	25200.000	105.700	107.900	109.500
2	04:19:20	97.550	100.000	473.500	25760.000	24620.000	102.000	103.600	105.300
3	04:20:03	98.940	100.700	479.300	26010.000	24750.000	102.300	103.900	105.200
x		99.490%	101.088%	95.850%	104.393%	99.430%	103.358%	105.129%	106.676%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.273	1.284	1.192	1.480	1.227	2.005	2.312	2.331

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	108.400	103.000	102.000	102.600	101.800	103.300	0.000	97.170
2	04:19:20	105.000	99.800	98.970	98.880	98.960	99.990	0.000	95.190
3	04:20:03	106.000	99.730	100.200	99.900	100.200	99.830	0.000	95.470
x		106.483%	100.830%	100.406%	100.450%	100.322%	101.030%	0.000	95.944%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.643	1.832	1.538	1.898	1.413	1.924	0.000	1.119

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	51.193%	100.300	99.180	53.808%	99.330	101.000	99.080	100.300
2	04:19:20	51.221%	99.380	99.270	53.288%	96.970	98.380	96.430	97.820
3	04:20:03	51.435%	100.700	99.930	53.650%	98.070	98.300	97.280	99.690
x		51.283%	100.098%	99.458%	53.582%	98.123%	99.220%	97.600%	99.270%
σ		0.133%	n/a	n/a	0.266%	n/a	n/a	n/a	n/a
%RSD		0.258	0.650	0.414	0.497	1.201	1.532	1.385	1.301

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	54.012%	97.430	96.110	95.870	97.570	98.800	59.924%	61.122%
2	04:19:20	54.276%	97.100	95.020	94.470	95.270	96.210	60.580%	61.967%
3	04:20:03	54.293%	96.250	95.500	95.120	96.760	96.080	61.118%	62.026%
x		54.194%	96.927%	95.544%	95.153%	96.535%	97.030%	60.541%	61.705%
σ		0.158%	n/a	n/a	n/a	n/a	n/a	0.598%	0.506%
%RSD		0.291	0.631	0.575	0.737	1.210	1.584	0.988	0.820

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:37	97.900	97.730	96.410	97.500	97.240	59.961%
2	04:19:20	95.360	95.310	94.970	94.320	94.680	60.929%
3	04:20:03	96.550	96.320	96.080	95.050	95.840	60.661%
x		96.605%	96.454%	95.818%	95.624%	95.920%	60.517%
σ		n/a	n/a	n/a	n/a	n/a	0.500%
%RSD		1.312	1.258	0.788	1.745	1.341	0.825

CCB4 4/28/2013 4:26:08 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	81.301%	0.003	0.088	-0.665	0.000	19.890	2.665	2.420
2	04:27:34	84.486%	-0.003	-0.293	-0.776	0.000	19.950	2.536	1.988
3	04:28:17	85.334%	0.003	-0.252	-0.736	0.000	19.770	2.792	2.637
x		83.707%	0.001	-0.152	-0.726	0.000	19.870	2.664	2.348
σ		2.126%	0.004	0.209	0.056	0.000	0.090	0.128	0.331
%RSD		2.540	444.700	137.200	7.746	0.000	0.451	4.805	14.080

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	0.990	-3.031	0.000	-36.820	5.414	1.677	81.955%	0.117
2	04:27:34	1.016	-4.176	0.000	-37.450	4.785	2.231	83.151%	-0.055
3	04:28:17	1.132	-4.053	0.000	-36.800	3.141	1.314	84.383%	-0.024
x		1.046	-3.753	0.000	-37.030	4.447	1.740	83.163%	0.013
σ		0.076	0.629	0.000	0.371	1.174	0.462	1.214%	0.092
%RSD		7.266	16.750	0.000	1.002	26.400	26.560	1.460	713.800

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	-0.010	-0.050	0.178	-5.258	0.563	0.004	-0.017	0.043
2	04:27:34	-0.001	-0.031	0.164	-5.579	0.097	-0.000	-0.010	0.047
3	04:28:17	-0.016	-0.033	0.527	-5.524	0.843	0.001	0.002	0.060
x		-0.009	-0.038	0.290	-5.454	0.501	0.002	-0.009	0.050
σ		0.008	0.010	0.206	0.172	0.377	0.002	0.009	0.009
%RSD		86.260	27.210	70.960	3.146	75.210	141.100	111.600	18.080

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	0.017	0.137	0.096	-0.505	-0.631	-1.774	0.000	0.011
2	04:27:34	0.041	0.083	0.072	-0.532	-0.563	-1.831	0.000	0.009
3	04:28:17	-0.010	0.103	0.057	-0.515	-0.690	-1.799	0.000	0.015
x		0.016	0.108	0.075	-0.517	-0.628	-1.801	0.000	0.012
σ		0.025	0.027	0.020	0.014	0.064	0.028	0.000	0.003
%RSD		158.400	25.420	26.180	2.694	10.190	1.574	0.000	25.060

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	70.703%	0.137	0.078	82.031%	-0.037	-0.043	-0.075	-0.053
2	04:27:34	72.426%	0.079	0.088	83.578%	-0.039	-0.043	-0.081	-0.053
3	04:28:17	73.901%	0.045	0.060	85.506%	-0.031	-0.045	-0.039	-0.025
x		72.343%	0.087	0.075	83.705%	-0.036	-0.044	-0.065	-0.044
σ		1.600%	0.046	0.014	1.741%	0.005	0.001	0.023	0.016
%RSD		2.212	53.170	18.570	2.080	12.630	2.874	34.660	37.280

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	81.837%	-0.088	0.062	0.040	0.008	0.023	83.158%	83.435%
2	04:27:34	83.478%	-0.072	0.045	0.050	0.007	0.025	85.570%	86.091%
3	04:28:17	85.126%	-0.090	0.056	0.049	0.034	0.046	85.987%	86.998%
x		83.480%	-0.084	0.055	0.046	0.016	0.032	84.905%	85.508%
σ		1.644%	0.010	0.009	0.005	0.015	0.013	1.527%	1.852%
%RSD		1.970	11.960	15.740	11.220	94.830	40.090	1.798	2.166

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:26:51	0.005	0.004	0.003	0.010	0.009	81.712%
2	04:27:34	0.008	0.003	0.004	0.007	0.007	83.587%
3	04:28:17	0.006	0.004	0.004	0.007	0.006	84.708%
x		0.006	0.004	0.004	0.008	0.007	83.336%
σ		0.001	0.001	0.001	0.001	0.002	1.513%
%RSD		21.620	13.570	16.250	17.590	20.910	1.816

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:06	49.257%	19.470	124.400	120.400	0.000	3293.000	120600.000	120500.000
2	04:35:49	49.952%	19.160	123.400	120.000	0.000	3264.000	119600.000	120100.000
3	04:36:32	50.329%	18.720	117.900	117.200	0.000	3145.000	115000.000	114800.000
x		49.846%	19.110	121.900	119.200	0.000	3234.000	118400.000	118500.000
σ		0.544%	0.374	3.499	1.771	0.000	77.940	3013.000	3148.000
%RSD		1.091	1.957	2.870	1.486	0.000	2.410	2.544	2.658
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:06	95690.000	22470.000	0.000	6679.000	461600.000	477800.000	44.914%	1842.000
2	04:35:49	94800.000	22200.000	0.000	6626.000	460200.000	475400.000	44.612%	1853.000
3	04:36:32	91360.000	21300.000	0.000	6455.000	451800.000	465800.000	44.882%	1775.000
x		93950.000	21990.000	0.000	6587.000	457900.000	473000.000	44.803%	1823.000
σ		2287.000	615.100	0.000	116.800	5282.000	6334.000	0.166%	41.970
%RSD		2.434	2.797	0.000	1.774	1.153	1.339	0.371	2.302
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:06	70.980	489.800	41630.000	73270.000	74580.000	32.820	112.400	133.400
2	04:35:49	70.220	484.400	41090.000	72790.000	73810.000	32.540	112.000	129.700
3	04:36:32	64.410	462.800	39760.000	69730.000	70140.000	30.910	105.900	122.200
x		68.540	479.000	40830.000	71930.000	72840.000	32.090	110.100	128.400
σ		3.596	14.280	963.800	1917.000	2371.000	1.032	3.630	5.739
%RSD		5.247	2.980	2.361	2.666	3.256	3.215	3.297	4.469
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:06	133.900	348.800	351.800	128.300	7.454	8.087	0.000	3070.000
2	04:35:49	132.300	348.500	351.200	124.100	7.264	9.346	0.000	3054.000
3	04:36:32	125.600	329.200	333.500	117.600	6.778	7.415	0.000	2794.000
x		130.600	342.200	345.500	123.300	7.165	8.283	0.000	2973.000
σ		4.391	11.200	10.390	5.363	0.349	0.980	0.000	155.000
%RSD		3.363	3.274	3.008	4.348	4.869	11.830	0.000	5.213
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:06	0.000	18.350	18.400	42.402%	0.302	0.129	2.235	1.797
2	04:35:49	0.000	18.100	18.610	42.747%	0.273	0.139	2.038	1.706
3	04:36:32	0.000	16.440	16.480	46.794%	0.241	0.120	1.833	1.544
x		0.000	17.630	17.830	43.981%	0.272	0.129	2.035	1.682
σ		0.000	1.040	1.174	2.442%	0.030	0.010	0.201	0.128
%RSD		0.000	5.896	6.582	5.553	11.120	7.515	9.858	7.605
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:06	48.857%	3.009	0.710	0.723	1108.000	1103.000	55.189%	56.050%
2	04:35:49	49.427%	2.864	0.635	0.710	1097.000	1102.000	55.688%	56.574%
3	04:36:32	50.474%	2.774	0.623	0.661	1054.000	1060.000	56.953%	57.492%
x		49.586%	2.882	0.656	0.698	1086.000	1089.000	55.943%	56.705%
σ		0.820%	0.118	0.047	0.033	28.660	24.630	0.909%	0.730%
%RSD		1.654	4.106	7.146	4.673	2.639	2.263	1.626	1.287
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	04:35:06	0.504	0.509	1762.000	1767.000	1771.000	52.698%		
2	04:35:49	0.530	0.516	1797.000	1801.000	1803.000	52.412%		
3	04:36:32	0.497	0.532	1743.000	1738.000	1748.000	53.466%		
x		0.510	0.519	1767.000	1768.000	1774.000	52.859%		
σ		0.017	0.012	27.440	31.710	27.330	0.545%		
%RSD		3.395	2.251	1.553	1.793	1.541	1.031		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	44.038%	44.730	327.900	325.300	0.000	11140.000	270400.000	269200.000
2	04:44:03	44.009%	46.450	330.900	333.800	0.000	11080.000	270200.000	268500.000
3	04:44:46	43.664%	46.650	344.400	336.700	0.000	11280.000	274400.000	271600.000
x		43.903%	45.940	334.400	331.900	0.000	11170.000	271700.000	269800.000
σ		0.208%	1.057	8.785	5.898	0.000	102.400	2347.000	1631.000
%RSD		0.474	2.301	2.627	1.777	0.000	0.917	0.864	0.604

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	163100.000	36510.000	0.000	22100.000	992300.000	939500.000	42.744%	2795.000
2	04:44:03	163800.000	36350.000	0.000	22100.000	998100.000	944600.000	42.651%	2805.000
3	04:44:46	165300.000	36770.000	0.000	22130.000	1002000.000	952600.000	42.174%	2802.000
x		164100.000	36540.000	0.000	22110.000	997500.000	945500.000	42.523%	2800.000
σ		1126.000	216.000	0.000	17.370	4969.000	6614.000	0.306%	5.224
%RSD		0.686	0.591	0.000	0.079	0.498	0.700	0.719	0.187

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	105.800	144.100	369000.000	49830.000	52550.000	36.860	75.890	811.500
2	04:44:03	106.500	144.800	370600.000	49830.000	52330.000	36.350	73.810	803.800
3	04:44:46	106.600	146.000	373200.000	49980.000	52340.000	36.890	74.670	811.500
x		106.300	145.000	370900.000	49880.000	52410.000	36.700	74.790	808.900
σ		0.414	0.978	2139.000	83.140	124.900	0.303	1.046	4.446
%RSD		0.390	0.675	0.577	0.167	0.238	0.825	1.399	0.550

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	816.800	624.600	631.300	1003.000	12.720	14.210	0.000	53760.000
2	04:44:03	808.000	620.000	628.700	989.700	12.220	13.040	0.000	53770.000
3	04:44:46	812.100	626.100	633.800	1006.000	11.740	14.090	0.000	54300.000
x		812.300	623.600	631.300	999.600	12.230	13.780	0.000	53940.000
σ		4.407	3.220	2.543	8.696	0.493	0.645	0.000	311.400
%RSD		0.542	0.516	0.403	0.870	4.031	4.682	0.000	0.577

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	0.000	132.000	133.800	37.225%	0.455	0.150	2.462	1.624
2	04:44:03	0.000	131.000	132.900	37.670%	0.483	0.165	2.713	1.832
3	04:44:46	0.000	133.000	134.400	37.476%	0.482	0.120	2.357	1.558
x		0.000	132.000	133.700	37.457%	0.474	0.145	2.511	1.671
σ		0.000	1.034	0.763	0.223%	0.016	0.023	0.183	0.143
%RSD		0.000	0.783	0.571	0.596	3.386	15.990	7.287	8.551

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	44.877%	3.484	0.254	0.251	3178.000	3172.000	51.307%	52.755%
2	04:44:03	45.419%	3.577	0.261	0.258	3183.000	3154.000	51.896%	53.217%
3	04:44:46	45.537%	3.505	0.247	0.247	3185.000	3164.000	52.015%	53.154%
x		45.278%	3.522	0.254	0.252	3182.000	3163.000	51.739%	53.042%
σ		0.352%	0.049	0.007	0.005	3.644	9.073	0.379%	0.251%
%RSD		0.778	1.384	2.894	2.132	0.115	0.287	0.732	0.473

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:43:20	0.606	0.614	4229.000	4337.000	4346.000	45.479%
2	04:44:03	0.642	0.623	4328.000	4439.000	4452.000	45.568%
3	04:44:46	0.649	0.671	4328.000	4459.000	4462.000	45.676%
x		0.632	0.636	4295.000	4412.000	4420.000	45.574%
σ		0.023	0.031	57.200	65.350	64.000	0.099%
%RSD		3.632	4.857	1.332	1.481	1.448	0.217

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:34	51.546%	4.463	13.820	13.120	0.000	321.500	29540.000	29340.000
2	04:52:16	52.204%	4.324	13.590	12.950	0.000	320.000	29250.000	29100.000
3	04:52:59	52.293%	4.320	13.310	13.110	0.000	321.400	29210.000	29070.000
x		52.014%	4.369	13.570	13.060	0.000	321.000	29330.000	29170.000
σ		0.408%	0.081	0.257	0.094	0.000	0.825	183.000	144.600
%RSD		0.785	1.864	1.896	0.719	0.000	0.257	0.624	0.496
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:34	84990.000	6836.000	0.000	5359.000	3068.000	2961.000	46.881%	1089.000
2	04:52:16	84220.000	6698.000	0.000	5294.000	3014.000	2942.000	47.286%	1079.000
3	04:52:59	84120.000	6688.000	0.000	5310.000	3096.000	2930.000	47.519%	1079.000
x		84440.000	6741.000	0.000	5321.000	3059.000	2945.000	47.228%	1083.000
σ		475.600	82.620	0.000	34.060	41.410	15.530	0.323%	5.855
%RSD		0.563	1.226	0.000	0.640	1.354	0.527	0.683	0.541
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:34	146.100	134.100	2735.000	131900.000	132500.000	84.700	163.800	87.110
2	04:52:16	144.700	131.800	2717.000	130300.000	130900.000	83.520	161.400	85.150
3	04:52:59	143.600	131.100	2715.000	131500.000	131600.000	83.490	162.300	85.380
x		144.800	132.300	2722.000	131300.000	131700.000	83.900	162.500	85.880
σ		1.221	1.555	10.850	825.700	831.100	0.692	1.207	1.071
%RSD		0.843	1.175	0.398	0.629	0.631	0.825	0.743	1.247
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:34	87.810	349.500	352.200	42.220	2.226	2.290	0.000	32.430
2	04:52:16	86.010	348.000	350.400	40.890	2.373	2.459	0.000	32.250
3	04:52:59	86.180	347.300	348.100	40.970	2.247	2.002	0.000	32.130
x		86.670	348.300	350.200	41.360	2.282	2.250	0.000	32.270
σ		0.996	1.080	2.030	0.743	0.079	0.231	0.000	0.149
%RSD		1.149	0.310	0.580	1.796	3.471	10.270	0.000	0.463
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:34	0.000	6.903	6.943	50.678%	0.286	0.216	1.460	1.367
2	04:52:16	0.000	6.774	6.726	51.053%	0.313	0.250	1.495	1.347
3	04:52:59	0.000	6.815	6.916	51.513%	0.274	0.224	1.261	1.219
x		0.000	6.831	6.862	51.081%	0.291	0.230	1.405	1.311
σ		0.000	0.066	0.119	0.418%	0.020	0.018	0.126	0.080
%RSD		0.000	0.961	1.729	0.819	6.817	7.628	8.983	6.123
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:34	51.713%	0.994	0.365	0.363	655.200	658.700	59.069%	59.843%
2	04:52:16	52.761%	0.955	0.346	0.361	648.200	646.500	60.607%	60.948%
3	04:52:59	52.756%	1.006	0.347	0.373	652.800	654.000	60.692%	61.525%
x		52.410%	0.985	0.352	0.366	652.100	653.000	60.123%	60.772%
σ		0.604%	0.027	0.011	0.007	3.582	6.160	0.914%	0.855%
%RSD		1.152	2.708	3.012	1.825	0.549	0.943	1.520	1.406
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	04:51:34	1.165	1.169	111.300	108.700	110.100	57.862%		
2	04:52:16	1.137	1.182	112.500	109.900	110.900	57.693%		
3	04:52:59	1.156	1.181	113.700	110.400	112.200	57.668%		
x		1.152	1.177	112.500	109.700	111.100	57.741%		
σ		0.014	0.007	1.211	0.912	1.024	0.106%		
%RSD		1.249	0.625	1.076	0.832	0.922	0.184		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	51.788%	5.303	13.200	13.210	0.000	336.200	30270.000	30170.000
2	05:00:29	53.308%	5.050	13.220	12.970	0.000	331.000	29580.000	29450.000
3	05:01:12	53.270%	5.124	12.340	13.160	0.000	331.400	29600.000	29650.000
x		52.789%	5.159	12.920	13.110	0.000	332.900	29820.000	29750.000
σ		0.867%	0.130	0.503	0.126	0.000	2.918	390.800	370.800
%RSD		1.642	2.524	3.896	0.963	0.000	0.877	1.311	1.246

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	127200.000	6303.000	0.000	7128.000	1264.000	1174.000	48.560%	1750.000
2	05:00:29	125400.000	6187.000	0.000	7051.000	1232.000	1177.000	49.379%	1722.000
3	05:01:12	125600.000	6200.000	0.000	7086.000	1207.000	1188.000	49.075%	1748.000
x		126100.000	6230.000	0.000	7088.000	1234.000	1180.000	49.005%	1740.000
σ		950.500	63.500	0.000	38.850	28.620	7.179	0.414%	15.410
%RSD		0.754	1.019	0.000	0.548	2.319	0.609	0.844	0.886

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	221.800	151.400	5104.000	192000.000	194200.000	96.200	147.500	126.600
2	05:00:29	217.900	148.600	5048.000	188900.000	191400.000	94.430	143.100	121.300
3	05:01:12	221.100	149.700	5135.000	191000.000	193800.000	95.250	143.600	122.700
x		220.200	149.900	5095.000	190600.000	193100.000	95.290	144.700	123.500
σ		2.068	1.398	44.190	1558.000	1514.000	0.890	2.443	2.728
%RSD		0.939	0.933	0.867	0.817	0.784	0.934	1.688	2.208

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	125.000	411.100	414.400	73.370	3.397	3.709	0.000	32.560
2	05:00:29	122.800	402.600	404.800	71.780	3.005	3.505	0.000	32.470
3	05:01:12	122.700	405.600	409.400	72.550	3.314	3.887	0.000	32.560
x		123.500	406.400	409.500	72.570	3.239	3.701	0.000	32.530
σ		1.291	4.321	4.773	0.793	0.207	0.191	0.000	0.055
%RSD		1.046	1.063	1.166	1.093	6.384	5.171	0.000	0.170

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	0.000	11.400	11.320	51.551%	0.177	0.108	0.892	0.740
2	05:00:29	0.000	11.110	11.300	52.324%	0.174	0.136	1.073	0.857
3	05:01:12	0.000	11.390	11.240	51.990%	0.169	0.128	0.863	0.764
x		0.000	11.300	11.290	51.955%	0.174	0.124	0.943	0.787
σ		0.000	0.165	0.043	0.388%	0.004	0.014	0.114	0.062
%RSD		0.000	1.456	0.379	0.747	2.381	11.550	12.060	7.866

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	52.880%	1.561	0.127	0.165	564.800	566.300	60.067%	60.596%
2	05:00:29	53.844%	1.541	0.138	0.149	558.600	554.900	61.724%	61.886%
3	05:01:12	53.760%	1.540	0.133	0.165	554.900	560.300	61.722%	61.443%
x		53.495%	1.547	0.132	0.160	559.400	560.500	61.171%	61.308%
σ		0.534%	0.012	0.005	0.009	4.988	5.663	0.956%	0.656%
%RSD		0.998	0.761	4.120	5.637	0.892	1.010	1.563	1.069

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	04:59:46	1.399	1.410	104.900	101.800	103.100	57.820%
2	05:00:29	1.366	1.406	103.800	101.000	102.300	58.531%
3	05:01:12	1.412	1.388	104.000	100.900	102.600	58.970%
x		1.392	1.401	104.200	101.300	102.600	58.440%
σ		0.024	0.012	0.619	0.487	0.386	0.580%
%RSD		1.720	0.828	0.593	0.481	0.376	0.993

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:01	49.898%	5.756	129.100	124.600	0.000	1538.000	14250.000	14110.000
2	05:08:44	49.870%	5.823	129.300	127.700	0.000	1538.000	14500.000	14390.000
3	05:09:27	51.486%	5.562	125.700	119.800	0.000	1479.000	13650.000	13580.000
x		50.418%	5.714	128.000	124.000	0.000	1518.000	14130.000	14030.000
σ		0.925%	0.135	2.017	3.966	0.000	34.320	441.800	413.600
%RSD		1.834	2.369	1.575	3.198	0.000	2.261	3.126	2.949
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:01	91070.000	4745.000	0.000	16840.000	8364.000	7193.000	46.990%	1568.000
2	05:08:44	91490.000	4763.000	0.000	17090.000	8399.000	7291.000	46.351%	1589.000
3	05:09:27	87750.000	4502.000	0.000	16340.000	8372.000	7060.000	47.029%	1518.000
x		90100.000	4670.000	0.000	16760.000	8378.000	7181.000	46.790%	1558.000
σ		2048.000	145.200	0.000	381.300	18.470	115.800	0.381%	36.280
%RSD		2.273	3.110	0.000	2.276	0.221	1.612	0.814	2.329
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:01	299.200	122.800	9064.000	254800.000	259600.000	71.990	91.060	88.040
2	05:08:44	303.500	125.800	9281.000	260000.000	264200.000	72.940	92.790	87.970
3	05:09:27	291.000	119.700	8895.000	247600.000	249700.000	69.180	86.650	83.810
x		297.900	122.800	9080.000	254100.000	257900.000	71.370	90.160	86.610
σ		6.358	3.080	193.700	6248.000	7426.000	1.958	3.167	2.418
%RSD		2.134	2.509	2.134	2.459	2.880	2.743	3.513	2.792
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:01	88.600	248.700	251.500	952.700	4.342	4.236	0.000	9089.000
2	05:08:44	87.930	252.300	253.000	973.700	4.220	4.218	0.000	9309.000
3	05:09:27	83.780	240.400	242.100	932.400	4.290	4.312	0.000	8852.000
x		86.770	247.100	248.900	952.900	4.284	4.256	0.000	9083.000
σ		2.610	6.116	5.895	20.670	0.061	0.050	0.000	228.100
%RSD		3.008	2.475	2.369	2.169	1.419	1.169	0.000	2.511
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:01	0.000	2263.000	2419.000	49.534%	0.356	0.299	1.540	1.124
2	05:08:44	0.000	2314.000	2457.000	48.921%	0.344	0.275	1.362	1.068
3	05:09:27	0.000	2186.000	2332.000	49.560%	0.359	0.250	1.357	0.954
x		0.000	2254.000	2402.000	49.338%	0.353	0.275	1.420	1.048
σ		0.000	64.620	63.960	0.362%	0.008	0.024	0.104	0.087
%RSD		0.000	2.867	2.662	0.734	2.223	8.838	7.319	8.251
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:01	51.160%	1.080	0.309	0.265	634.400	636.400	58.203%	59.028%
2	05:08:44	51.289%	1.077	0.286	0.313	637.100	638.500	58.750%	59.320%
3	05:09:27	52.840%	0.985	0.300	0.319	603.100	604.500	60.639%	60.899%
x		51.763%	1.047	0.298	0.299	624.900	626.500	59.197%	59.749%
σ		0.935%	0.054	0.012	0.029	18.890	19.040	1.278%	1.007%
%RSD		1.807	5.162	3.862	9.830	3.023	3.039	2.159	1.685
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:08:01	0.973	0.935	227.700	224.000	226.100	56.046%		
2	05:08:44	0.939	0.900	232.000	229.100	230.900	55.999%		
3	05:09:27	0.890	0.866	220.000	217.700	219.200	58.090%		
x		0.934	0.900	226.600	223.600	225.400	56.712%		
σ		0.042	0.035	6.080	5.720	5.888	1.194%		
%RSD		4.511	3.849	2.684	2.558	2.612	2.105		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	49.280%	4.238	142.400	140.500	0.000	4670.000	17530.000	17440.000
2	05:16:57	49.929%	4.353	143.400	140.800	0.000	4635.000	17480.000	17490.000
3	05:17:40	49.666%	4.381	148.200	144.200	0.000	4630.000	17510.000	17560.000
x		49.625%	4.324	144.700	141.800	0.000	4645.000	17510.000	17500.000
σ		0.327%	0.076	3.067	2.084	0.000	21.660	27.820	62.290
%RSD		0.658	1.762	2.120	1.469	0.000	0.466	0.159	0.356

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	92630.000	5008.000	0.000	26430.000	2704.000	2512.000	46.276%	993.700
2	05:16:57	92350.000	4994.000	0.000	26250.000	2792.000	2522.000	46.147%	989.500
3	05:17:40	92880.000	4949.000	0.000	26420.000	2687.000	2540.000	45.971%	989.800
x		92620.000	4983.000	0.000	26370.000	2728.000	2525.000	46.131%	991.000
σ		268.100	30.940	0.000	97.760	56.520	14.120	0.153%	2.353
%RSD		0.289	0.621	0.000	0.371	2.072	0.559	0.332	0.237

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	207.200	127.400	1026.000	197100.000	200900.000	42.790	122.300	135.400
2	05:16:57	209.600	128.100	1034.000	198300.000	200800.000	41.970	121.100	137.500
3	05:17:40	205.300	127.800	1033.000	200900.000	202900.000	42.390	120.200	137.200
x		207.400	127.800	1031.000	198800.000	201500.000	42.390	121.200	136.700
σ		2.169	0.347	4.582	1951.000	1173.000	0.413	1.025	1.092
%RSD		1.046	0.272	0.445	0.982	0.582	0.974	0.846	0.799

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	134.900	271.400	273.600	643.500	1.290	1.862	0.000	515.700
2	05:16:57	136.700	273.300	279.700	650.000	1.285	1.541	0.000	525.100
3	05:17:40	135.100	275.200	277.400	652.100	1.327	1.478	0.000	566.800
x		135.600	273.300	276.900	648.500	1.301	1.627	0.000	535.900
σ		0.984	1.897	3.073	4.458	0.023	0.206	0.000	27.150
%RSD		0.726	0.694	1.110	0.687	1.783	12.670	0.000	5.067

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	0.000	2161.000	2293.000	49.295%	0.201	0.139	1.587	1.192
2	05:16:57	0.000	2191.000	2335.000	48.533%	0.207	0.141	1.483	1.150
3	05:17:40	0.000	2202.000	2344.000	48.828%	0.196	0.125	1.563	1.248
x		0.000	2185.000	2324.000	48.885%	0.201	0.135	1.545	1.197
σ		0.000	20.840	27.280	0.385%	0.006	0.009	0.055	0.049
%RSD		0.000	0.954	1.174	0.787	2.931	6.519	3.544	4.089

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	50.352%	1.000	0.292	0.295	453.000	454.000	60.077%	60.686%
2	05:16:57	50.648%	1.047	0.284	0.285	454.100	453.200	61.125%	61.084%
3	05:17:40	50.775%	0.952	0.306	0.283	455.900	453.000	61.512%	61.501%
x		50.592%	1.000	0.294	0.288	454.300	453.400	60.905%	61.090%
σ		0.217%	0.048	0.011	0.007	1.477	0.524	0.743%	0.407%
%RSD		0.429	4.756	3.849	2.304	0.325	0.116	1.219	0.667

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:14	0.862	0.866	86.530	84.970	85.740	55.663%
2	05:16:57	0.876	0.859	87.100	84.980	86.630	55.907%
3	05:17:40	0.869	0.869	87.680	85.530	86.490	56.682%
x		0.869	0.865	87.110	85.160	86.280	56.084%
σ		0.007	0.005	0.574	0.322	0.479	0.532%
%RSD		0.823	0.633	0.659	0.378	0.555	0.949

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:25	51.188%	5.813	50.610	51.600	0.000	2457.000	29310.000	29160.000
2	05:25:08	51.836%	5.824	51.670	50.000	0.000	2397.000	28610.000	28470.000
3	05:25:51	51.836%	5.589	51.930	51.060	0.000	2436.000	28750.000	28760.000
x		51.620%	5.742	51.400	50.880	0.000	2430.000	28890.000	28800.000
σ		0.374%	0.132	0.696	0.815	0.000	30.080	369.600	344.300
%RSD		0.725	2.306	1.354	1.601	0.000	1.238	1.279	1.196
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:25	85810.000	7162.000	0.000	13240.000	37210.000	38640.000	48.681%	860.800
2	05:25:08	84040.000	6945.000	0.000	13000.000	37200.000	38450.000	48.829%	844.900
3	05:25:51	84640.000	7011.000	0.000	13140.000	36890.000	38570.000	48.905%	840.700
x		84830.000	7039.000	0.000	13130.000	37100.000	38550.000	48.805%	848.800
σ		902.200	111.100	0.000	122.700	183.700	96.190	0.114%	10.610
%RSD		1.064	1.579	0.000	0.935	0.495	0.250	0.233	1.250
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:25	132.400	120.300	3942.000	180600.000	182800.000	74.860	173.100	126.500
2	05:25:08	130.300	117.700	3837.000	176400.000	178700.000	72.580	166.100	123.400
3	05:25:51	129.600	117.900	3889.000	178900.000	180800.000	73.410	165.100	124.500
x		130.800	118.700	3890.000	178600.000	180700.000	73.620	168.100	124.800
σ		1.431	1.424	52.610	2081.000	2061.000	1.151	4.343	1.568
%RSD		1.094	1.200	1.353	1.165	1.140	1.564	2.584	1.256
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:25	127.800	369.700	377.100	520.200	1.473	2.262	0.000	700.800
2	05:25:08	124.000	366.600	370.900	511.800	1.634	1.908	0.000	692.700
3	05:25:51	124.700	368.300	375.400	514.700	1.455	2.462	0.000	697.400
x		125.500	368.200	374.400	515.500	1.521	2.211	0.000	697.000
σ		2.055	1.546	3.215	4.273	0.098	0.281	0.000	4.057
%RSD		1.638	0.420	0.859	0.829	6.477	12.690	0.000	0.582
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:25	0.000	84.160	82.910	51.188%	0.181	0.138	1.097	0.881
2	05:25:08	0.000	83.550	82.880	51.239%	0.175	0.132	0.951	0.776
3	05:25:51	0.000	83.570	84.640	51.361%	0.186	0.131	1.089	0.844
x		0.000	83.760	83.480	51.263%	0.181	0.134	1.046	0.834
σ		0.000	0.345	1.009	0.089%	0.006	0.004	0.082	0.053
%RSD		0.000	0.412	1.209	0.173	3.081	2.650	7.874	6.389
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:25	52.676%	0.902	0.201	0.200	584.200	584.100	62.348%	62.342%
2	05:25:08	53.508%	0.853	0.205	0.176	577.500	580.900	63.256%	63.556%
3	05:25:51	52.962%	0.876	0.197	0.211	591.400	586.000	63.042%	63.167%
x		53.049%	0.877	0.201	0.196	584.400	583.700	62.882%	63.022%
σ		0.423%	0.025	0.004	0.018	6.987	2.598	0.475%	0.620%
%RSD		0.796	2.826	2.025	9.334	1.196	0.445	0.755	0.983
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:24:25	1.251	1.219	118.000	116.600	117.600	56.964%		
2	05:25:08	1.223	1.239	116.300	116.500	116.900	57.556%		
3	05:25:51	1.221	1.216	118.000	117.300	118.100	57.708%		
x		1.232	1.225	117.400	116.800	117.600	57.409%		
σ		0.017	0.013	0.995	0.436	0.588	0.393%		
%RSD		1.360	1.047	0.847	0.373	0.500	0.684		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:37	55.750%	1.805	37.020	36.030	0.000	1349.000	10010.000	9921.000
2	05:33:20	56.219%	1.998	35.440	34.940	0.000	1348.000	9940.000	9934.000
3	05:34:03	55.704%	1.981	36.890	35.780	0.000	1344.000	9911.000	9943.000
x		55.891%	1.928	36.450	35.590	0.000	1347.000	9953.000	9933.000
σ		0.285%	0.107	0.879	0.573	0.000	2.806	49.740	11.020
%RSD		0.510	5.528	2.413	1.611	0.000	0.208	0.500	0.111
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:37	23500.000	6645.000	0.000	4944.000	15440.000	14270.000	51.937%	334.300
2	05:33:20	23580.000	6591.000	0.000	4966.000	15430.000	14300.000	50.655%	336.700
3	05:34:03	23420.000	6547.000	0.000	4968.000	15560.000	14480.000	49.780%	342.900
x		23500.000	6595.000	0.000	4959.000	15480.000	14350.000	50.791%	338.000
σ		83.080	48.810	0.000	13.110	75.330	118.000	1.085%	4.420
%RSD		0.354	0.740	0.000	0.264	0.487	0.823	2.136	1.308
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:37	50.020	46.220	50650.000	63380.000	63650.000	27.100	68.760	184.800
2	05:33:20	50.490	45.940	51620.000	64440.000	64820.000	27.370	68.280	183.000
3	05:34:03	50.890	47.020	51900.000	65120.000	65010.000	27.090	69.430	184.300
x		50.470	46.400	51390.000	64310.000	64490.000	27.190	68.820	184.100
σ		0.433	0.561	654.300	876.400	738.500	0.157	0.575	0.924
%RSD		0.857	1.209	1.273	1.363	1.145	0.576	0.835	0.502
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:37	182.500	166.100	168.500	276.200	-0.094	0.144	0.000	4711.000
2	05:33:20	182.900	168.900	170.700	276.900	0.093	-0.006	0.000	4841.000
3	05:34:03	183.600	172.000	175.200	279.500	0.087	0.325	0.000	4886.000
x		183.000	169.000	171.500	277.500	0.029	0.154	0.000	4812.000
σ		0.580	2.952	3.443	1.739	0.106	0.166	0.000	91.070
%RSD		0.317	1.747	2.008	0.627	371.700	107.300	0.000	1.892
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:37	0.000	68.540	68.560	56.515%	0.081	0.037	0.341	0.289
2	05:33:20	0.000	70.630	69.680	54.746%	0.071	0.044	0.421	0.347
3	05:34:03	0.000	69.910	70.260	53.801%	0.077	0.035	0.309	0.242
x		0.000	69.700	69.500	55.021%	0.076	0.039	0.357	0.293
σ		0.000	1.060	0.864	1.378%	0.005	0.004	0.058	0.053
%RSD		0.000	1.521	1.243	2.504	6.481	11.390	16.190	17.980
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:37	56.775%	1.342	0.307	0.309	386.900	388.500	63.845%	64.261%
2	05:33:20	55.655%	1.344	0.337	0.347	394.900	392.700	63.117%	64.281%
3	05:34:03	54.916%	1.357	0.330	0.342	391.100	392.700	63.154%	63.787%
x		55.782%	1.348	0.325	0.333	391.000	391.300	63.372%	64.110%
σ		0.936%	0.008	0.016	0.021	3.980	2.406	0.410%	0.279%
%RSD		1.677	0.609	4.957	6.316	1.018	0.615	0.647	0.436
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:32:37	0.487	0.479	1516.000	1559.000	1556.000	61.357%		
2	05:33:20	0.506	0.490	1533.000	1561.000	1566.000	61.452%		
3	05:34:03	0.486	0.502	1558.000	1599.000	1599.000	59.972%		
x		0.493	0.491	1536.000	1573.000	1574.000	60.927%		
σ		0.011	0.011	21.040	22.430	22.400	0.828%		
%RSD		2.313	2.335	1.370	1.426	1.423	1.359		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:50	50.800%	4.971	47.570	48.900	0.000	2445.000	23920.000	23630.000
2	05:41:33	52.100%	4.569	45.600	46.480	0.000	2337.000	22720.000	22670.000
3	05:42:16	51.385%	4.859	47.990	47.790	0.000	2416.000	23760.000	23730.000
x		51.428%	4.800	47.050	47.720	0.000	2399.000	23470.000	23340.000
σ		0.651%	0.207	1.279	1.208	0.000	55.830	651.300	586.600
%RSD		1.266	4.321	2.718	2.532	0.000	2.327	2.776	2.513
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:50	73310.000	5900.000	0.000	11560.000	19920.000	19130.000	47.424%	782.500
2	05:41:33	70530.000	5601.000	0.000	11180.000	19250.000	18450.000	48.648%	753.100
3	05:42:16	73340.000	5790.000	0.000	11550.000	20270.000	19300.000	47.454%	787.200
x		72390.000	5764.000	0.000	11430.000	19820.000	18960.000	47.842%	774.300
σ		1616.000	151.000	0.000	214.800	516.400	446.400	0.698%	18.480
%RSD		2.233	2.620	0.000	1.879	2.606	2.355	1.459	2.387
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:50	115.600	105.300	2865.000	168900.000	170700.000	64.570	160.500	120.700
2	05:41:33	110.700	101.100	2773.000	163800.000	164700.000	61.570	153.900	115.200
3	05:42:16	116.000	105.600	2870.000	169100.000	170600.000	65.330	159.800	118.800
x		114.100	104.000	2836.000	167300.000	168700.000	63.820	158.000	118.200
σ		2.976	2.531	54.320	3028.000	3426.000	1.985	3.639	2.821
%RSD		2.609	2.433	1.915	1.810	2.031	3.110	2.302	2.386
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:50	119.900	392.400	397.900	365.000	0.723	1.134	0.000	443.800
2	05:41:33	115.700	381.100	383.600	358.600	0.867	1.064	0.000	435.900
3	05:42:16	119.600	393.500	398.200	367.000	0.887	1.098	0.000	448.300
x		118.400	389.000	393.200	363.500	0.826	1.099	0.000	442.700
σ		2.333	6.872	8.365	4.357	0.090	0.035	0.000	6.306
%RSD		1.970	1.767	2.127	1.199	10.870	3.177	0.000	1.425
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:50	0.000	114.600	114.000	50.794%	0.149	0.080	0.883	0.703
2	05:41:33	0.000	111.600	110.900	50.951%	0.140	0.098	0.837	0.699
3	05:42:16	0.000	115.600	116.700	50.169%	0.167	0.101	0.835	0.625
x		0.000	113.900	113.900	50.638%	0.152	0.093	0.852	0.676
σ		0.000	2.068	2.899	0.414%	0.014	0.012	0.027	0.044
%RSD		0.000	1.815	2.546	0.817	9.101	12.460	3.215	6.514
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:50	51.653%	0.837	0.188	0.210	488.100	485.700	61.550%	62.196%
2	05:41:33	52.359%	0.803	0.206	0.199	476.200	477.800	62.446%	63.180%
3	05:42:16	52.012%	0.859	0.197	0.182	494.400	491.100	62.572%	63.058%
x		52.008%	0.833	0.197	0.197	486.200	484.800	62.189%	62.812%
σ		0.353%	0.028	0.009	0.014	9.242	6.657	0.557%	0.536%
%RSD		0.679	3.389	4.385	7.127	1.901	1.373	0.896	0.854
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:40:50	1.102	1.093	97.490	97.430	97.440	57.019%		
2	05:41:33	1.009	1.066	95.360	95.140	95.830	57.972%		
3	05:42:16	1.086	1.108	98.730	97.560	98.350	57.804%		
x		1.066	1.089	97.190	96.710	97.210	57.598%		
σ		0.050	0.021	1.705	1.362	1.272	0.509%		
%RSD		4.698	1.966	1.754	1.408	1.308	0.883		

MB 180-68272/1-A 4/28/2013 5:48:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	58.369%	-0.007	0.075	-0.428	0.000	32.960	2.671	2.490
2	05:49:45	59.680%	-0.016	0.062	-0.586	0.000	33.600	2.154	2.193
3	05:50:28	59.451%	0.015	-0.508	-0.547	0.000	33.350	2.232	2.090
x		59.167%	-0.002	-0.124	-0.520	0.000	33.300	2.352	2.258
σ		0.700%	0.016	0.333	0.082	0.000	0.319	0.279	0.208
%RSD		1.183	634.000	269.300	15.790	0.000	0.959	11.850	9.196

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	1.265	4.862	0.000	-27.330	17.750	12.040	53.612%	0.096
2	05:49:45	0.864	4.779	0.000	-27.870	8.639	7.655	54.326%	0.224
3	05:50:28	1.259	7.614	0.000	-28.000	9.362	7.614	54.787%	0.341
x		1.129	5.752	0.000	-27.730	11.920	9.105	54.242%	0.221
σ		0.230	1.613	0.000	0.356	5.065	2.546	0.592%	0.123
%RSD		20.320	28.050	0.000	1.286	42.500	27.960	1.092	55.720

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	-0.010	-0.057	0.056	2.360	1.873	-0.005	0.024	0.163
2	05:49:45	-0.005	-0.042	0.066	1.936	0.896	-0.004	0.026	0.172
3	05:50:28	-0.021	-0.043	0.200	3.066	2.440	-0.006	-0.002	0.125
x		-0.012	-0.047	0.107	2.454	1.736	-0.005	0.016	0.153
σ		0.008	0.009	0.080	0.571	0.781	0.001	0.016	0.025
%RSD		69.700	18.260	74.430	23.270	44.980	21.090	99.770	16.230

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	0.112	0.897	0.880	0.291	-0.494	-0.344	0.000	0.044
2	05:49:45	0.061	0.856	0.684	0.253	-0.454	-0.121	0.000	0.033
3	05:50:28	0.039	0.723	0.616	0.240	-0.409	-0.007	0.000	0.036
x		0.070	0.825	0.727	0.262	-0.452	-0.157	0.000	0.038
σ		0.037	0.091	0.137	0.026	0.042	0.171	0.000	0.005
%RSD		53.240	11.060	18.870	10.130	9.397	108.800	0.000	14.410

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	56.568%	0.156	0.147	62.735%	-0.041	-0.045	-0.024	-0.015
2	05:49:45	57.759%	0.087	0.090	63.618%	-0.037	-0.039	-0.072	-0.047
3	05:50:28	58.380%	0.097	0.074	63.756%	-0.041	-0.044	-0.072	-0.026
x		57.569%	0.113	0.104	63.370%	-0.040	-0.043	-0.056	-0.029
σ		0.921%	0.037	0.038	0.554%	0.003	0.003	0.028	0.016
%RSD		1.600	32.490	36.920	0.873	6.832	6.793	49.180	55.730

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	60.435%	0.661	-0.019	-0.012	0.066	0.063	65.168%	66.309%
2	05:49:45	61.097%	0.802	-0.018	-0.019	0.068	0.045	67.074%	67.735%
3	05:50:28	62.163%	0.424	-0.016	-0.019	0.057	0.044	67.554%	68.983%
x		61.232%	0.629	-0.018	-0.017	0.064	0.051	66.598%	67.676%
σ		0.872%	0.191	0.002	0.004	0.006	0.011	1.262%	1.338%
%RSD		1.424	30.360	10.380	21.720	8.964	21.180	1.895	1.977

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	05:49:02	-0.001	0.000	0.017	0.013	0.015	70.250%
2	05:49:45	-0.002	-0.001	0.011	0.016	0.015	70.962%
3	05:50:28	-0.001	-0.001	0.019	0.013	0.017	72.422%
x		-0.001	-0.001	0.016	0.014	0.016	71.211%
σ		0.001	0.001	0.004	0.002	0.001	1.107%
%RSD		56.880	98.170	26.770	12.300	7.441	1.555

CCV 781130 4/28/2013 5:56:33 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:16	54.787%	108.100	102.700	102.100	0.000	50910.000	51170.000	50840.000
2	05:57:59	53.886%	107.500	104.100	101.800	0.000	50970.000	51140.000	50930.000
3	05:58:42	53.879%	107.300	103.600	104.800	0.000	51530.000	51250.000	50860.000
x		54.184%	107.627%	103.453%	102.904%	0.000	102.274%	102.376%	101.750%
σ		0.522%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.964	0.382	0.673	1.591	0.000	0.671	0.113	0.087
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:16	496.600	5441.000	0.000	49630.000	47310.000	48870.000	49.397%	101.400
2	05:57:59	494.500	5409.000	0.000	50080.000	48010.000	49930.000	47.915%	99.630
3	05:58:42	495.200	5407.000	0.000	49680.000	48290.000	50100.000	46.890%	100.900
x		99.085%	108.384%	0.000	99.595%	95.744%	99.266%	48.067%	100.642%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.261%	n/a
%RSD		0.213	0.356	0.000	0.487	1.050	1.344	2.623	0.913
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:16	99.810	101.000	474.500	25580.000	24560.000	103.300	107.800	106.700
2	05:57:59	100.900	101.900	483.700	25800.000	24710.000	103.800	107.400	107.100
3	05:58:42	99.680	101.700	484.800	25910.000	24990.000	103.000	107.000	106.700
x		100.127%	101.542%	96.199%	103.041%	99.019%	103.334%	107.413%	106.864%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.665	0.475	1.170	0.652	0.885	0.413	0.395	0.218
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:16	106.200	99.290	97.690	100.200	100.200	100.000	0.000	95.310
2	05:57:59	105.900	99.020	99.290	101.600	101.800	101.200	0.000	97.000
3	05:58:42	106.900	100.400	99.830	100.300	102.100	101.100	0.000	96.610
x		106.317%	99.580%	98.939%	100.706%	101.374%	100.771%	0.000	96.307%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.491	0.755	1.126	0.743	1.017	0.641	0.000	0.918
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:16	51.829%	99.840	98.090	54.012%	97.670	99.390	95.880	98.770
2	05:57:59	50.105%	102.200	100.600	52.114%	98.890	99.610	97.640	99.540
3	05:58:42	49.712%	103.500	101.700	51.805%	98.470	99.760	97.120	99.060
x		50.548%	101.847%	100.125%	52.644%	98.345%	99.585%	96.881%	99.121%
σ		1.126%	n/a	n/a	1.195%	n/a	n/a	n/a	n/a
%RSD		2.228	1.838	1.855	2.270	0.628	0.185	0.936	0.394
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:16	54.231%	96.070	94.110	94.580	96.840	98.530	60.437%	61.187%
2	05:57:59	52.867%	98.130	96.000	95.580	98.540	98.950	58.660%	59.392%
3	05:58:42	52.741%	98.080	96.100	96.070	98.800	97.930	58.633%	59.678%
x		53.280%	97.429%	95.408%	95.409%	98.062%	98.469%	59.243%	60.086%
σ		0.826%	n/a	n/a	n/a	n/a	n/a	1.034%	0.964%
%RSD		1.550	1.207	1.175	0.797	1.091	0.522	1.745	1.605
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	05:57:16	94.940	94.590	94.940	93.770	94.460	59.751%		
2	05:57:59	96.900	96.590	96.370	96.830	96.700	58.861%		
3	05:58:42	96.680	96.930	96.460	96.070	96.250	58.596%		
x		96.171%	96.034%	95.921%	95.553%	95.805%	59.069%		
σ		n/a	n/a	n/a	n/a	n/a	0.605%		
%RSD		1.119	1.316	0.889	1.668	1.236	1.024		

CCB5 4/28/2013 6:04:49 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:05:32	82.567%	-0.009	-0.669	-0.986	0.000	18.640	4.130	4.315
2	06:06:14	85.206%	0.006	-0.847	-1.087	0.000	20.260	6.073	5.908
3	06:06:57	85.675%	0.009	-0.532	-1.154	0.000	20.370	5.433	5.697
x		84.483%	0.002	-0.683	-1.076	0.000	19.760	5.212	5.307
σ		1.675%	0.010	0.158	0.084	0.000	0.970	0.990	0.865
%RSD		1.983	595.900	23.160	7.848	0.000	4.907	19.000	16.300
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:05:32	1.529	-1.327	0.000	-35.400	3.434	3.007	78.675%	-0.013
2	06:06:14	1.853	-0.808	0.000	-34.200	10.470	5.546	80.016%	-0.016
3	06:06:57	1.915	0.592	0.000	-34.530	3.819	5.005	81.470%	-0.046
x		1.766	-0.514	0.000	-34.710	5.909	4.519	80.053%	-0.025
σ		0.207	0.993	0.000	0.624	3.958	1.337	1.398%	0.018
%RSD		11.740	193.100	0.000	1.797	66.980	29.590	1.746	72.520
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:05:32	0.004	-0.018	0.791	-2.595	2.220	0.006	0.003	0.042
2	06:06:14	0.010	-0.017	0.990	-1.157	3.316	0.008	0.009	0.050
3	06:06:57	0.005	-0.013	0.939	-1.630	3.246	0.007	0.021	0.050
x		0.006	-0.016	0.906	-1.794	2.927	0.007	0.011	0.047
σ		0.003	0.003	0.103	0.733	0.614	0.001	0.009	0.004
%RSD		53.420	16.390	11.410	40.850	20.960	13.720	83.230	9.335
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:05:32	0.034	0.161	0.076	-0.459	-0.772	-1.772	0.000	0.025
2	06:06:14	0.021	0.133	0.076	-0.494	-0.697	-2.167	0.000	0.035
3	06:06:57	0.003	0.096	0.138	-0.536	-0.502	-2.196	0.000	0.036
x		0.019	0.130	0.096	-0.496	-0.657	-2.045	0.000	0.032
σ		0.016	0.033	0.036	0.039	0.139	0.237	0.000	0.006
%RSD		81.770	25.310	37.400	7.844	21.210	11.590	0.000	18.570
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:05:32	77.750%	0.173	0.164	85.988%	-0.037	-0.041	-0.014	0.006
2	06:06:14	79.707%	0.139	0.154	87.684%	-0.032	-0.032	-0.089	-0.050
3	06:06:57	81.050%	0.123	0.141	88.869%	-0.033	-0.036	-0.061	-0.029
x		79.503%	0.145	0.153	87.514%	-0.034	-0.037	-0.055	-0.024
σ		1.660%	0.026	0.012	1.448%	0.002	0.005	0.038	0.028
%RSD		2.087	17.780	7.743	1.654	6.876	12.820	69.950	116.200
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:05:32	77.952%	-0.057	0.056	0.065	0.070	0.064	84.700%	86.165%
2	06:06:14	80.397%	-0.096	0.066	0.054	0.060	0.070	87.858%	88.321%
3	06:06:57	81.476%	-0.078	0.059	0.049	0.037	0.064	89.315%	89.409%
x		79.942%	-0.077	0.060	0.056	0.056	0.066	87.291%	87.965%
σ		1.805%	0.020	0.005	0.008	0.017	0.004	2.360%	1.651%
%RSD		2.258	25.420	8.852	14.310	30.730	5.760	2.703	1.877
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:05:32	0.007	0.005	0.018	0.011	0.015	82.481%		
2	06:06:14	0.007	0.011	0.022	0.014	0.019	84.916%		
3	06:06:57	0.007	0.010	0.012	0.016	0.017	86.050%		
x		0.007	0.009	0.018	0.014	0.017	84.482%		
σ		0.000	0.003	0.005	0.002	0.002	1.824%		
%RSD		6.218	34.780	29.620	16.870	12.070	2.159		

CRI 793093 4/28/2013 6:13:03 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:46	70.369%	0.988	4.710	4.670	0.000	120.900	97.430	97.270
2	06:14:29	71.429%	1.272	5.219	4.550	0.000	118.800	96.370	94.810
3	06:15:12	71.105%	0.986	4.649	4.731	0.000	118.800	93.950	95.170
x		70.968%	108.189%	97.189%	93.008%	0.000	119.506%	95.917%	95.748%
σ		0.543%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.765	15.240	6.446	1.990	0.000	1.031	1.859	1.389
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:46	35.220	531.300	0.000	66.090	100.500	98.140	61.924%	5.190
2	06:14:29	35.120	525.000	0.000	65.650	91.940	99.840	61.972%	5.112
3	06:15:12	34.710	526.900	0.000	64.760	96.720	99.330	61.619%	5.205
x		116.716%	105.553%	0.000	65.498%	96.397%	99.107%	61.838%	103.379%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.192%	n/a
%RSD		0.776	0.612	0.000	1.037	4.467	0.880	0.310	0.968
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:46	0.988	1.999	5.218	55.080	53.070	0.551	1.185	2.481
2	06:14:29	0.911	2.005	5.186	53.950	52.850	0.509	1.106	2.343
3	06:15:12	0.941	1.963	5.159	53.820	51.780	0.519	1.046	2.372
x		94.681%	99.459%	1037.562%	108.567%	105.136%	105.299%	111.251%	119.932%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		4.133	1.136	0.571	1.277	1.309	4.169	6.265	3.023
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:46	2.361	5.471	5.590	1.253	4.903	4.454	0.000	4.340
2	06:14:29	2.280	5.612	5.586	1.115	4.820	4.405	0.000	4.294
3	06:15:12	2.290	5.580	5.580	1.202	4.468	4.496	0.000	4.275
x		115.527%	111.085%	111.705%	119.003%	94.609%	89.033%	0.000	86.058%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.919	1.335	0.095	5.844	4.887	1.027	0.000	0.783
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:46	68.378%	4.608	4.393	70.203%	0.967	0.968	0.959	1.145
2	06:14:29	69.299%	4.517	4.480	70.149%	0.964	0.963	1.012	0.985
3	06:15:12	68.770%	4.453	4.619	69.985%	1.000	0.967	1.068	1.031
x		68.816%	90.517%	89.944%	70.112%	97.687%	96.615%	101.326%	105.359%
σ		0.462%	n/a	n/a	0.113%	n/a	n/a	n/a	n/a
%RSD		0.672	1.717	2.539	0.162	2.037	0.270	5.374	7.803
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:46	67.102%	4.778	1.949	1.911	9.639	9.646	71.203%	71.291%
2	06:14:29	67.862%	4.727	1.940	1.879	9.758	9.558	71.001%	72.764%
3	06:15:12	67.565%	4.835	1.936	1.915	9.935	9.825	72.016%	72.424%
x		67.510%	95.606%	97.101%	95.063%	97.773%	96.763%	71.407%	72.160%
σ		0.383%	n/a	n/a	n/a	n/a	n/a	0.538%	0.771%
%RSD		0.568	1.132	0.344	1.039	1.526	1.404	0.753	1.069
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:13:46	0.891	0.903	0.908	0.921	0.912	76.339%		
2	06:14:29	0.921	0.902	0.908	0.934	0.927	76.076%		
3	06:15:12	0.894	0.895	0.908	0.956	0.922	76.773%		
x		90.198%	90.027%	90.801%	93.694%	92.051%	76.396%		
σ		n/a	n/a	n/a	n/a	n/a	0.352%		
%RSD		1.795	0.469	0.042	1.881	0.820	0.461		

CRI 793093 4/28/2013 6:21:17 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:00	64.544%	1.080	5.544	5.094	0.000	133.000	107.800	104.700
2	06:22:43	64.795%	1.146	5.513	5.031	0.000	134.100	106.700	104.600
3	06:23:26	65.352%	1.089	5.802	4.836	0.000	135.900	106.700	106.900
x		64.897%	110.494%	112.388%	99.748%	0.000	134.340%	107.053%	105.389%
σ		0.413%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.637	3.214	2.827	2.696	0.000	1.065	0.589	1.237
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:00	38.920	583.300	0.000	80.280	124.800	111.900	55.475%	5.518
2	06:22:43	38.590	582.200	0.000	80.260	136.900	109.600	55.001%	6.010
3	06:23:26	38.720	582.700	0.000	80.830	97.230	110.300	55.009%	5.287
x		129.141%	116.546%	0.000	80.456%	119.649%	110.584%	55.162%	112.102%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.271%	n/a
%RSD		0.439	0.086	0.000	0.401	17.000	1.047	0.492	6.594
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:00	1.027	2.117	5.594	60.230	55.160	0.585	1.135	2.508
2	06:22:43	0.870	2.075	5.523	58.690	56.030	0.557	1.199	2.612
3	06:23:26	1.069	2.237	5.625	60.650	56.650	0.562	1.305	2.580
x		98.847%	107.144%	1116.105%	119.717%	111.891%	113.572%	121.270%	128.332%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		10.610	3.913	0.936	1.723	1.331	2.626	7.091	2.079
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:00	2.269	5.600	5.624	0.914	4.490	3.804	0.000	4.050
2	06:22:43	2.469	5.677	6.084	1.299	4.231	4.572	0.000	4.083
3	06:23:26	2.436	5.926	5.775	1.210	4.657	4.441	0.000	4.071
x		119.570%	114.686%	116.550%	114.087%	89.186%	85.446%	0.000	81.358%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.489	2.970	4.030	17.680	4.816	9.620	0.000	0.417
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:00	72.873%	4.307	4.357	70.403%	0.946	0.969	0.998	0.915
2	06:22:43	73.900%	4.290	4.448	70.199%	0.939	0.992	0.980	0.961
3	06:23:26	72.919%	4.410	4.509	69.639%	0.963	0.993	0.879	0.995
x		73.231%	86.717%	88.758%	70.080%	94.908%	98.472%	95.256%	95.719%
σ		0.580%	n/a	n/a	0.396%	n/a	n/a	n/a	n/a
%RSD		0.793	1.501	1.726	0.565	1.302	1.348	6.745	4.181
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:00	66.825%	4.671	1.879	1.897	9.483	9.764	70.742%	71.347%
2	06:22:43	67.857%	4.703	1.879	1.883	9.639	9.454	72.084%	72.911%
3	06:23:26	66.627%	4.956	1.893	1.962	10.110	9.700	71.345%	71.089%
x		67.103%	95.540%	94.169%	95.697%	97.431%	96.393%	71.390%	71.782%
σ		0.661%	n/a	n/a	n/a	n/a	n/a	0.672%	0.986%
%RSD		0.985	3.272	0.436	2.199	3.333	1.700	0.942	1.373
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:22:00	0.897	0.878	0.898	0.893	0.884	77.051%		
2	06:22:43	0.890	0.900	0.911	0.934	0.923	76.117%		
3	06:23:26	0.944	0.916	0.922	0.905	0.923	76.169%		
x		91.017%	89.803%	91.049%	91.060%	91.006%	76.446%		
σ		n/a	n/a	n/a	n/a	n/a	0.525%		
%RSD		3.222	2.071	1.342	2.312	2.519	0.687		

CCV 781130 4/28/2013 6:29:31 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:30:14	56.849%	108.700	100.500	102.700	0.000	51210.000	51420.000	51170.000
2	06:30:57	56.465%	107.700	101.800	101.900	0.000	50970.000	50820.000	50750.000
3	06:31:40	55.818%	107.000	102.000	103.900	0.000	50730.000	50750.000	50570.000
x		56.377%	107.767%	101.423%	102.851%	0.000	101.936%	101.992%	101.657%
σ		0.521%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.925	0.794	0.814	0.958	0.000	0.464	0.722	0.614
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:30:14	501.500	5541.000	0.000	50210.000	47980.000	49610.000	51.396%	101.600
2	06:30:57	495.000	5443.000	0.000	50150.000	47720.000	49230.000	50.564%	100.500
3	06:31:40	492.000	5395.000	0.000	49550.000	47810.000	49280.000	50.095%	100.600
x		99.233%	109.193%	0.000	99.936%	95.672%	98.745%	50.685%	100.894%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.659%	n/a
%RSD		0.978	1.366	0.000	0.734	0.275	0.422	1.299	0.614
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:30:14	102.800	103.700	483.600	25900.000	24810.000	105.800	110.300	110.900
2	06:30:57	101.500	102.400	480.800	25670.000	24770.000	104.900	107.900	107.100
3	06:31:40	100.100	102.200	480.500	25580.000	24610.000	102.500	105.100	107.000
x		101.456%	102.781%	96.324%	102.869%	98.914%	104.394%	107.786%	108.344%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.338	0.783	0.352	0.648	0.430	1.623	2.442	2.083
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:30:14	110.200	100.700	101.200	104.900	102.600	103.900	0.000	96.460
2	06:30:57	108.700	100.800	100.300	102.000	102.400	102.700	0.000	96.830
3	06:31:40	107.200	98.890	98.840	100.300	100.900	100.500	0.000	95.640
x		108.711%	100.135%	100.110%	102.429%	101.977%	102.347%	0.000	96.309%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.362	1.078	1.189	2.252	0.883	1.668	0.000	0.634
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:30:14	53.486%	100.900	98.800	56.619%	99.180	99.560	96.430	99.610
2	06:30:57	52.690%	102.400	100.900	55.211%	98.580	99.520	97.100	98.620
3	06:31:40	51.863%	103.300	101.300	53.944%	99.280	99.370	96.950	99.100
x		52.679%	102.208%	100.334%	55.258%	99.015%	99.483%	96.830%	99.112%
σ		0.812%	n/a	n/a	1.338%	n/a	n/a	n/a	n/a
%RSD		1.540	1.207	1.336	2.422	0.386	0.100	0.361	0.500
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:30:14	56.303%	97.130	94.960	95.450	97.550	98.250	61.826%	62.441%
2	06:30:57	55.359%	98.430	95.360	95.330	99.420	98.780	60.907%	61.925%
3	06:31:40	54.423%	98.910	95.850	96.340	99.540	98.900	60.599%	61.697%
x		55.362%	98.159%	95.390%	95.708%	98.839%	98.645%	61.110%	62.021%
σ		0.940%	n/a	n/a	n/a	n/a	n/a	0.638%	0.381%
%RSD		1.698	0.937	0.469	0.576	1.128	0.351	1.045	0.614
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	06:30:14	93.910	94.150	93.320	93.470	93.510	62.685%		
2	06:30:57	95.450	95.410	94.990	94.770	94.780	61.563%		
3	06:31:40	95.980	95.820	95.320	95.070	95.420	60.881%		
x		95.114%	95.125%	94.545%	94.436%	94.569%	61.709%		
σ		n/a	n/a	n/a	n/a	n/a	0.911%		
%RSD		1.135	0.914	1.132	0.900	1.029	1.476		

CCB6 4/28/2013 6:37:45 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	86.789%	-0.007	-0.690	-1.132	0.000	16.140	4.120	3.948
2	06:39:11	88.625%	0.022	-0.680	-1.256	0.000	16.090	3.241	3.303
3	06:39:54	90.127%	0.004	-0.874	-1.262	0.000	15.730	3.255	3.511
x		88.514%	0.007	-0.748	-1.217	0.000	15.990	3.539	3.587
σ		1.671%	0.015	0.109	0.073	0.000	0.225	0.503	0.329
%RSD		1.888	220.000	14.590	6.028	0.000	1.407	14.220	9.180

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	1.497	-2.610	0.000	-36.260	6.597	3.594	86.484%	-0.028
2	06:39:11	1.455	0.327	0.000	-35.940	6.514	2.652	87.386%	-0.036
3	06:39:54	1.429	-2.147	0.000	-36.760	2.394	3.410	90.025%	-0.022
x		1.460	-1.477	0.000	-36.320	5.168	3.219	87.965%	-0.029
σ		0.034	1.579	0.000	0.413	2.403	0.499	1.840%	0.007
%RSD		2.331	106.900	0.000	1.137	46.500	15.510	2.092	24.990

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	-0.000	-0.019	0.761	-1.906	2.253	0.008	0.002	0.046
2	06:39:11	-0.008	-0.021	0.746	-2.873	2.193	0.008	-0.000	0.032
3	06:39:54	-0.002	-0.025	0.730	-3.075	1.202	0.005	0.001	0.047
x		-0.003	-0.022	0.746	-2.618	1.883	0.007	0.001	0.042
σ		0.004	0.003	0.016	0.625	0.590	0.002	0.001	0.009
%RSD		126.200	14.290	2.101	23.880	31.350	28.770	150.300	20.840

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	0.011	0.106	0.071	-0.406	-0.634	-1.494	0.000	0.022
2	06:39:11	0.033	0.111	0.103	-0.498	-0.812	-1.895	0.000	0.023
3	06:39:54	-0.001	0.107	0.100	-0.507	-0.626	-1.922	0.000	0.019
x		0.014	0.108	0.091	-0.470	-0.691	-1.771	0.000	0.021
σ		0.017	0.003	0.017	0.056	0.105	0.240	0.000	0.002
%RSD		120.400	2.549	18.870	11.950	15.220	13.550	0.000	10.270

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	79.085%	0.200	0.194	84.928%	-0.029	-0.035	-0.041	-0.021
2	06:39:11	80.500%	0.189	0.153	86.547%	-0.036	-0.040	-0.022	-0.007
3	06:39:54	82.992%	0.127	0.132	88.459%	-0.033	-0.038	-0.050	-0.025
x		80.859%	0.172	0.160	86.644%	-0.033	-0.038	-0.038	-0.018
σ		1.978%	0.040	0.031	1.768%	0.004	0.003	0.014	0.009
%RSD		2.446	23.020	19.660	2.040	11.600	7.326	37.520	52.230

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	78.592%	0.025	0.077	0.086	0.054	0.037	85.175%	86.361%
2	06:39:11	80.942%	-0.014	0.081	0.077	0.062	0.054	87.827%	88.497%
3	06:39:54	82.531%	-0.030	0.088	0.081	0.049	0.057	89.594%	90.535%
x		80.688%	-0.007	0.082	0.081	0.055	0.050	87.532%	88.464%
σ		1.982%	0.028	0.005	0.005	0.007	0.011	2.224%	2.087%
%RSD		2.456	426.800	6.467	6.090	12.470	22.290	2.541	2.360

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:28	0.009	0.009	0.020	0.009	0.016	83.767%
2	06:39:11	0.011	0.006	0.011	0.015	0.012	84.601%
3	06:39:54	0.007	0.006	0.010	0.013	0.013	87.268%
x		0.009	0.007	0.013	0.012	0.013	85.212%
σ		0.002	0.002	0.006	0.003	0.002	1.829%
%RSD		21.420	25.050	41.540	23.050	14.090	2.146

LCS 180-68272/2-A 4/28/2013 6:46:01 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	55.505%	44.620	830.300	847.200	0.000	46700.000	46440.000	46300.000
2	06:47:27	55.138%	44.510	865.100	870.500	0.000	47420.000	47290.000	47080.000
3	06:48:11	56.054%	43.030	851.600	862.200	0.000	46590.000	46460.000	46360.000
x		55.566%	44.050	849.000	860.000	0.000	46900.000	46730.000	46580.000
σ		0.461%	0.886	17.540	11.840	0.000	452.900	482.500	432.900
%RSD		0.830	2.010	2.067	1.377	0.000	0.966	1.033	0.929

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	1846.000	3188.000	0.000	46370.000	45620.000	46650.000	47.694%	950.300
2	06:47:27	1876.000	3240.000	0.000	46500.000	45720.000	46810.000	47.789%	955.300
3	06:48:11	1843.000	3174.000	0.000	46110.000	45050.000	46280.000	48.213%	937.500
x		1855.000	3201.000	0.000	46330.000	45460.000	46580.000	47.899%	947.700
σ		18.160	34.910	0.000	199.900	358.100	272.500	0.276%	9.200
%RSD		0.979	1.091	0.000	0.431	0.788	0.585	0.576	0.971

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	486.400	194.400	447.900	1011.000	1040.000	497.400	507.900	256.500
2	06:47:27	489.000	194.900	453.700	1019.000	1058.000	499.200	511.300	257.000
3	06:48:11	478.100	191.400	448.100	1006.000	1037.000	489.500	498.000	251.100
x		484.500	193.600	449.900	1012.000	1045.000	495.400	505.700	254.900
σ		5.662	1.894	3.251	6.669	11.390	5.128	6.912	3.304
%RSD		1.169	0.979	0.723	0.659	1.090	1.035	1.367	1.296

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	254.600	411.100	413.900	33.110	7.157	8.285	0.000	994.600
2	06:47:27	255.900	418.500	417.300	33.810	7.570	8.457	0.000	1005.000
3	06:48:11	252.300	411.700	408.500	33.110	7.536	8.570	0.000	995.000
x		254.300	413.800	413.200	33.340	7.421	8.437	0.000	998.000
σ		1.811	4.086	4.428	0.404	0.229	0.143	0.000	5.669
%RSD		0.712	0.987	1.071	1.211	3.086	1.700	0.000	0.568

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	46.529%	959.900	932.400	53.111%	44.200	45.390	43.260	35.230
2	06:47:27	46.705%	971.600	943.300	53.498%	44.730	45.500	43.450	35.200
3	06:48:11	47.499%	960.900	937.300	54.135%	43.940	44.810	42.940	34.290
x		46.911%	964.100	937.700	53.581%	44.290	45.240	43.210	34.910
σ		0.517%	6.509	5.463	0.517%	0.404	0.370	0.257	0.537
%RSD		1.102	0.675	0.583	0.965	0.911	0.819	0.595	1.539

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	50.161%	2011.000	420.200	422.400	1823.000	1814.000	59.966%	60.826%
2	06:47:27	50.141%	2051.000	433.000	430.200	1844.000	1838.000	60.415%	61.592%
3	06:48:11	51.056%	2011.000	423.900	428.200	1808.000	1815.000	61.557%	62.412%
x		50.453%	2024.000	425.700	426.900	1825.000	1822.000	60.646%	61.610%
σ		0.523%	22.900	6.598	4.072	18.150	13.820	0.820%	0.793%
%RSD		1.036	1.131	1.550	0.954	0.994	0.758	1.352	1.287

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:44	45.070	45.580	17.860	19.240	18.550	55.764%
2	06:47:27	46.170	46.380	18.160	19.770	18.920	55.868%
3	06:48:11	45.830	46.170	18.020	19.670	18.810	56.630%
x		45.690	46.050	18.010	19.560	18.760	56.088%
σ		0.561	0.413	0.153	0.284	0.190	0.473%
%RSD		1.227	0.898	0.849	1.452	1.014	0.843

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	53.389%	2.415	17.940	17.380	0.000	202.800	6516.000	6318.000
2	06:55:41	53.318%	2.320	17.900	16.840	0.000	207.900	6646.000	6454.000
3	06:56:24	53.438%	2.639	17.730	16.510	0.000	206.500	6492.000	6498.000
x		53.382%	2.458	17.860	16.910	0.000	205.700	6551.000	6424.000
σ		0.060%	0.164	0.107	0.434	0.000	2.615	82.660	93.730
%RSD		0.113	6.666	0.601	2.567	0.000	1.271	1.262	1.459

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	36890.000	3869.000	0.000	3418.000	6682.000	6606.000	49.126%	296.700
2	06:55:41	37850.000	3968.000	0.000	3560.000	6997.000	6872.000	48.270%	302.500
3	06:56:24	37620.000	3963.000	0.000	3528.000	7031.000	6837.000	48.410%	305.100
x		37450.000	3934.000	0.000	3502.000	6903.000	6772.000	48.602%	301.400
σ		499.400	55.720	0.000	74.350	192.600	144.400	0.459%	4.279
%RSD		1.333	1.417	0.000	2.123	2.791	2.132	0.945	1.419

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	63.010	61.240	2064.000	60360.000	60220.000	22.960	58.070	29.420
2	06:55:41	64.130	62.530	2155.000	62940.000	62700.000	23.420	60.160	29.810
3	06:56:24	64.650	62.720	2134.000	62260.000	62650.000	23.610	59.260	29.650
x		63.930	62.160	2118.000	61850.000	61860.000	23.330	59.160	29.630
σ		0.837	0.805	47.340	1337.000	1416.000	0.332	1.050	0.196
%RSD		1.310	1.295	2.235	2.162	2.290	1.421	1.774	0.661

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	28.880	109.800	111.700	54.880	0.713	0.867	0.000	56.280
2	06:55:41	29.450	113.900	115.100	57.290	0.768	0.573	0.000	58.860
3	06:56:24	29.670	114.800	115.200	57.350	0.856	0.305	0.000	59.080
x		29.340	112.800	114.000	56.510	0.779	0.582	0.000	58.070
σ		0.408	2.641	1.975	1.410	0.073	0.281	0.000	1.553
%RSD		1.390	2.341	1.732	2.496	9.315	48.290	0.000	2.675

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	0.000	7.760	7.719	53.669%	0.147	0.134	0.289	0.230
2	06:55:41	0.000	7.916	8.013	53.022%	0.142	0.137	0.406	0.276
3	06:56:24	0.000	7.946	7.916	52.610%	0.153	0.130	0.342	0.271
x		0.000	7.874	7.883	53.100%	0.147	0.134	0.345	0.259
σ		0.000	0.100	0.150	0.534%	0.006	0.003	0.059	0.025
%RSD		0.000	1.265	1.898	1.005	3.862	2.441	17.000	9.726

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	54.062%	3.516	0.241	0.245	262.100	263.200	61.630%	61.851%
2	06:55:41	53.657%	3.065	0.223	0.230	269.900	271.800	61.217%	61.488%
3	06:56:24	53.231%	2.757	0.228	0.195	273.300	273.600	60.679%	61.707%
x		53.650%	3.113	0.231	0.223	268.400	269.500	61.175%	61.682%
σ		0.416%	0.382	0.010	0.026	5.708	5.555	0.477%	0.183%
%RSD		0.775	12.250	4.129	11.520	2.126	2.061	0.779	0.297

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:58	0.492	0.481	37.550	36.500	36.940	61.497%
2	06:55:41	0.472	0.496	39.490	38.580	39.010	59.898%
3	06:56:24	0.526	0.521	40.000	39.020	39.640	59.588%
x		0.497	0.499	39.010	38.030	38.530	60.327%
σ		0.027	0.020	1.294	1.349	1.413	1.024%
%RSD		5.477	4.073	3.317	3.547	3.668	1.698

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	55.029%	0.502	4.695	4.248	0.000	65.630	1375.000	1342.000
2	07:03:55	55.576%	0.516	4.470	3.891	0.000	67.130	1338.000	1330.000
3	07:04:38	55.379%	0.625	4.946	4.016	0.000	67.500	1344.000	1329.000
x		55.328%	0.548	4.704	4.051	0.000	66.750	1353.000	1333.000
σ		0.277%	0.067	0.238	0.181	0.000	0.989	20.030	7.396
%RSD		0.501	12.280	5.060	4.474	0.000	1.481	1.481	0.555
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	7727.000	804.400	0.000	667.000	1428.000	1376.000	49.800%	61.660
2	07:03:55	7626.000	787.400	0.000	661.000	1462.000	1367.000	49.409%	60.360
3	07:04:38	7671.000	785.900	0.000	662.300	1447.000	1397.000	50.096%	60.600
x		7675.000	792.600	0.000	663.400	1446.000	1380.000	49.768%	60.880
σ		50.170	10.260	0.000	3.129	17.060	15.570	0.344%	0.691
%RSD		0.654	1.294	0.000	0.472	1.180	1.129	0.692	1.135
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	13.140	12.670	409.300	12770.000	12190.000	4.783	12.620	6.396
2	07:03:55	13.000	12.580	411.700	12700.000	12120.000	4.769	12.250	6.323
3	07:04:38	13.050	12.510	410.500	12600.000	12120.000	4.775	12.390	6.185
x		13.070	12.590	410.500	12690.000	12140.000	4.776	12.420	6.301
σ		0.069	0.083	1.206	83.260	37.480	0.007	0.188	0.107
%RSD		0.530	0.657	0.294	0.656	0.309	0.152	1.511	1.699
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	6.163	26.390	26.610	12.890	-0.372	0.161	0.000	11.490
2	07:03:55	6.247	25.780	26.090	12.530	-0.327	-0.467	0.000	11.460
3	07:04:38	6.049	26.170	26.480	12.710	-0.030	-0.560	0.000	11.650
x		6.153	26.110	26.400	12.710	-0.243	-0.288	0.000	11.530
σ		0.100	0.309	0.271	0.178	0.186	0.392	0.000	0.104
%RSD		1.618	1.184	1.027	1.398	76.490	135.700	0.000	0.902
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	54.651%	1.384	1.492	55.887%	0.011	-0.005	0.108	0.080
2	07:03:55	55.023%	1.463	1.468	56.628%	-0.004	-0.006	0.060	0.034
3	07:04:38	55.201%	1.438	1.545	56.212%	-0.002	0.002	0.016	0.028
x		54.958%	1.428	1.502	56.242%	0.002	-0.003	0.062	0.048
σ		0.281%	0.041	0.040	0.372%	0.008	0.005	0.046	0.028
%RSD		0.511	2.839	2.632	0.661	532.200	156.500	74.650	59.390
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	55.551%	0.621	0.033	0.028	54.940	55.280	61.130%	62.155%
2	07:03:55	55.554%	0.582	0.048	0.039	54.540	54.120	62.124%	62.535%
3	07:04:38	56.118%	0.523	0.032	0.013	54.920	54.950	62.374%	62.861%
x		55.741%	0.575	0.037	0.027	54.800	54.780	61.876%	62.517%
σ		0.327%	0.049	0.009	0.013	0.226	0.601	0.658%	0.353%
%RSD		0.586	8.578	23.550	50.530	0.411	1.098	1.064	0.565
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	07:03:12	0.094	0.091	7.463	7.372	7.403	65.695%		
2	07:03:55	0.088	0.092	7.680	7.427	7.517	65.360%		
3	07:04:38	0.101	0.092	7.738	7.524	7.627	65.347%		
x		0.094	0.092	7.627	7.441	7.516	65.467%		
σ		0.007	0.001	0.145	0.077	0.112	0.197%		
%RSD		7.241	0.930	1.901	1.034	1.489	0.301		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:26	52.511%	2.486	12.920	12.260	0.000	210.800	6703.000	6413.000
2	07:12:09	53.283%	2.398	12.410	12.190	0.000	208.900	6609.000	6434.000
3	07:12:52	53.596%	2.333	12.270	12.040	0.000	208.800	6476.000	6447.000
x		53.130%	2.406	12.530	12.170	0.000	209.500	6596.000	6431.000
σ		0.558%	0.077	0.340	0.112	0.000	1.139	114.300	17.190
%RSD		1.051	3.207	2.716	0.916	0.000	0.544	1.732	0.267
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:26	35870.000	4186.000	0.000	3437.000	7823.000	7342.000	48.137%	307.800
2	07:12:09	35090.000	4068.000	0.000	3385.000	7590.000	7191.000	48.578%	301.200
3	07:12:52	34760.000	4022.000	0.000	3345.000	7483.000	7228.000	48.370%	301.400
x		35240.000	4092.000	0.000	3389.000	7632.000	7254.000	48.362%	303.500
σ		571.900	84.930	0.000	45.830	174.100	78.950	0.221%	3.787
%RSD		1.623	2.075	0.000	1.352	2.282	1.088	0.456	1.248
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:26	61.280	62.630	2152.000	60040.000	60050.000	21.330	59.570	30.400
2	07:12:09	59.630	61.890	2135.000	59160.000	59090.000	21.020	57.200	29.360
3	07:12:52	59.720	61.320	2134.000	59320.000	59210.000	21.110	58.490	29.270
x		60.210	61.950	2141.000	59510.000	59450.000	21.150	58.420	29.680
σ		0.928	0.657	10.210	471.000	520.200	0.160	1.184	0.629
%RSD		1.541	1.061	0.477	0.791	0.875	0.755	2.026	2.120
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:26	30.560	110.100	110.300	54.700	0.560	0.933	0.000	58.350
2	07:12:09	29.500	110.200	109.500	53.800	0.648	0.611	0.000	57.600
3	07:12:52	29.900	109.000	110.000	53.830	0.879	1.177	0.000	58.010
x		29.990	109.800	109.900	54.110	0.696	0.907	0.000	57.990
σ		0.536	0.687	0.434	0.511	0.165	0.284	0.000	0.375
%RSD		1.786	0.626	0.395	0.944	23.710	31.360	0.000	0.647
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:26	0.000	7.814	8.102	52.683%	0.135	0.130	0.270	0.259
2	07:12:09	0.000	7.918	7.744	53.114%	0.160	0.123	0.328	0.298
3	07:12:52	0.000	8.045	7.679	52.644%	0.129	0.141	0.351	0.309
x		0.000	7.926	7.842	52.813%	0.141	0.131	0.316	0.288
σ		0.000	0.116	0.228	0.261%	0.017	0.009	0.042	0.026
%RSD		0.000	1.457	2.902	0.494	11.740	6.924	13.300	9.035
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:26	53.087%	1.087	0.135	0.151	258.600	260.100	60.269%	60.478%
2	07:12:09	53.534%	1.065	0.139	0.114	260.400	258.300	61.159%	61.334%
3	07:12:52	53.267%	0.981	0.142	0.120	256.800	257.000	61.253%	61.744%
x		53.296%	1.044	0.139	0.129	258.600	258.500	60.894%	61.185%
σ		0.225%	0.056	0.004	0.020	1.798	1.564	0.543%	0.646%
%RSD		0.422	5.348	2.655	15.570	0.695	0.605	0.892	1.055
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	07:11:26	0.473	0.483	35.040	34.390	34.740	59.774%		
2	07:12:09	0.464	0.471	35.160	34.580	34.830	59.927%		
3	07:12:52	0.473	0.487	35.470	34.180	34.850	60.152%		
x		0.470	0.480	35.220	34.380	34.810	59.951%		
σ		0.006	0.008	0.225	0.201	0.058	0.190%		
%RSD		1.228	1.750	0.638	0.584	0.167	0.317		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	48.997%	47.960	889.800	903.600	0.000	47000.000	55180.000	55170.000
2	07:20:24	49.289%	46.330	891.100	900.300	0.000	46090.000	54350.000	54470.000
3	07:21:07	49.901%	45.740	887.300	900.700	0.000	46270.000	55140.000	54980.000
x		49.396%	46.680	889.400	901.500	0.000	46450.000	54890.000	54870.000
σ		0.461%	1.154	1.885	1.771	0.000	479.400	466.500	360.700
%RSD		0.934	2.471	0.212	0.197	0.000	1.032	0.850	0.657

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	72530.000	10790.000	0.000	51760.000	50530.000	51930.000	44.503%	1516.000
2	07:20:24	71160.000	10570.000	0.000	50740.000	49510.000	50620.000	44.773%	1493.000
3	07:21:07	71470.000	10640.000	0.000	51800.000	50910.000	52170.000	44.534%	1535.000
x		71720.000	10670.000	0.000	51430.000	50320.000	51570.000	44.603%	1514.000
σ		715.300	111.800	0.000	599.200	724.700	836.300	0.148%	21.030
%RSD		0.997	1.048	0.000	1.165	1.440	1.622	0.332	1.389

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	571.700	281.900	2236.000	63170.000	63410.000	478.100	536.000	261.800
2	07:20:24	565.800	280.500	2243.000	63230.000	63360.000	479.900	534.100	260.600
3	07:21:07	574.100	282.500	2267.000	63610.000	64380.000	485.400	541.400	263.500
x		570.600	281.600	2249.000	63340.000	63720.000	481.100	537.200	262.000
σ		4.304	1.040	16.040	239.300	575.600	3.787	3.757	1.493
%RSD		0.754	0.369	0.713	0.378	0.903	0.787	0.699	0.570

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	262.700	524.100	526.000	82.670	7.678	8.012	0.000	1013.000
2	07:20:24	260.800	526.600	527.900	83.950	8.197	7.600	0.000	1062.000
3	07:21:07	267.000	532.900	539.700	85.730	7.654	9.184	0.000	1076.000
x		263.500	527.900	531.200	84.120	7.843	8.265	0.000	1050.000
σ		3.188	4.540	7.423	1.539	0.307	0.822	0.000	32.790
%RSD		1.210	0.860	1.397	1.829	3.910	9.942	0.000	3.122

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	0.000	919.700	916.800	46.398%	43.580	44.020	42.470	39.850
2	07:20:24	0.000	973.800	984.100	42.906%	45.080	44.510	43.340	39.000
3	07:21:07	0.000	994.000	1001.000	42.615%	45.700	45.710	43.890	39.530
x		0.000	962.500	967.300	43.973%	44.790	44.750	43.230	39.460
σ		0.000	38.420	44.590	2.105%	1.093	0.870	0.713	0.430
%RSD		0.000	3.992	4.609	4.787	2.441	1.944	1.648	1.089

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	47.921%	1229.000	262.400	263.400	2096.000	2110.000	54.971%	55.502%
2	07:20:24	48.474%	1215.000	259.500	260.000	2059.000	2068.000	56.105%	56.346%
3	07:21:07	48.364%	1238.000	264.400	266.200	2101.000	2082.000	55.829%	56.248%
x		48.253%	1227.000	262.100	263.200	2085.000	2087.000	55.635%	56.032%
σ		0.293%	12.090	2.463	3.102	23.060	21.300	0.592%	0.462%
%RSD		0.607	0.985	0.940	1.178	1.106	1.021	1.064	0.824

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:41	45.900	45.460	54.410	54.720	54.760	52.442%
2	07:20:24	44.710	45.180	54.170	54.500	54.200	53.173%
3	07:21:07	45.990	46.290	55.070	56.350	55.490	52.608%
x		45.530	45.640	54.550	55.190	54.820	52.741%
σ		0.718	0.578	0.466	1.008	0.649	0.383%
%RSD		1.576	1.265	0.854	1.826	1.184	0.726

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	48.312%	46.840	887.800	905.400	0.000	47330.000	55970.000	55740.000
2	07:28:39	48.795%	46.170	909.700	919.100	0.000	48560.000	56500.000	55960.000
3	07:29:22	49.400%	46.900	887.500	899.600	0.000	46600.000	54650.000	54060.000
x		48.835%	46.640	895.000	908.100	0.000	47500.000	55710.000	55250.000
σ		0.545%	0.406	12.750	10.020	0.000	991.500	952.000	1040.000
%RSD		1.116	0.871	1.425	1.104	0.000	2.088	1.709	1.883

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	71850.000	11120.000	0.000	52680.000	50100.000	51520.000	43.821%	1547.000
2	07:28:39	72200.000	11090.000	0.000	53520.000	50400.000	52220.000	43.595%	1551.000
3	07:29:22	69530.000	10730.000	0.000	51700.000	49740.000	50780.000	43.994%	1521.000
x		71190.000	10980.000	0.000	52630.000	50080.000	51510.000	43.804%	1540.000
σ		1450.000	217.900	0.000	913.800	333.700	718.400	0.200%	16.320
%RSD		2.036	1.985	0.000	1.736	0.666	1.395	0.457	1.060

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	586.300	285.900	2187.000	65900.000	66200.000	492.100	545.800	267.500
2	07:28:39	585.000	281.800	2169.000	65430.000	65640.000	482.400	533.700	261.200
3	07:29:22	579.000	279.500	2165.000	64790.000	65580.000	481.700	531.200	261.200
x		583.400	282.400	2174.000	65370.000	65810.000	485.400	536.900	263.300
σ		3.906	3.255	12.020	558.300	341.700	5.841	7.788	3.664
%RSD		0.669	1.153	0.553	0.854	0.519	1.203	1.451	1.392

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	269.600	532.900	537.200	88.140	8.170	8.340	0.000	1068.000
2	07:28:39	261.800	520.900	522.600	84.560	7.791	7.429	0.000	1027.000
3	07:29:22	263.300	528.900	534.500	87.610	8.069	9.839	0.000	1069.000
x		264.900	527.600	531.500	86.770	8.010	8.536	0.000	1054.000
σ		4.136	6.136	7.774	1.933	0.196	1.217	0.000	23.920
%RSD		1.561	1.163	1.463	2.228	2.451	14.250	0.000	2.269

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	0.000	995.400	992.000	42.243%	45.660	45.290	42.940	39.370
2	07:28:39	0.000	954.300	951.100	45.283%	43.900	44.590	42.710	39.640
3	07:29:22	0.000	1007.000	1010.000	42.109%	45.580	45.200	43.270	38.580
x		0.000	985.400	984.200	43.212%	45.040	45.030	42.970	39.200
σ		0.000	27.500	30.020	1.795%	0.996	0.382	0.280	0.548
%RSD		0.000	2.791	3.050	4.154	2.210	0.849	0.650	1.399

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	47.089%	1298.000	279.300	277.700	2088.000	2098.000	54.706%	55.057%
2	07:28:39	47.020%	1325.000	282.500	283.200	2127.000	2129.000	54.589%	55.082%
3	07:29:22	47.713%	1292.000	277.200	277.900	2081.000	2083.000	54.918%	55.924%
x		47.274%	1305.000	279.700	279.600	2099.000	2104.000	54.738%	55.354%
σ		0.382%	18.010	2.640	3.119	24.920	23.310	0.167%	0.494%
%RSD		0.807	1.380	0.944	1.115	1.187	1.108	0.305	0.892

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:27:56	46.040	46.020	55.390	56.520	56.070	52.056%
2	07:28:39	47.270	47.280	57.020	58.160	57.680	51.602%
3	07:29:22	46.130	46.420	56.460	57.140	56.850	52.089%
x		46.480	46.570	56.290	57.270	56.860	51.916%
σ		0.688	0.640	0.828	0.828	0.805	0.272%
%RSD		1.481	1.375	1.471	1.446	1.415	0.523

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	48.367%	51.340	980.100	990.300	0.000	51410.000	57150.000	57120.000
2	07:36:54	48.305%	52.420	1005.000	1021.000	0.000	52160.000	58170.000	58370.000
3	07:37:37	48.882%	51.380	999.300	1008.000	0.000	51180.000	57420.000	57280.000
x		48.518%	51.710	994.700	1007.000	0.000	51580.000	57580.000	57590.000
σ		0.317%	0.614	12.980	15.580	0.000	512.200	526.900	681.900
%RSD		0.653	1.187	1.305	1.548	0.000	0.993	0.915	1.184
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	38410.000	14120.000	0.000	52490.000	54920.000	56050.000	44.210%	1316.000
2	07:36:54	39180.000	14370.000	0.000	53670.000	56700.000	57550.000	43.295%	1337.000
3	07:37:37	38440.000	14050.000	0.000	52930.000	56020.000	56420.000	43.621%	1306.000
x		38680.000	14180.000	0.000	53030.000	55880.000	56670.000	43.708%	1320.000
σ		436.300	165.100	0.000	596.700	894.800	779.800	0.464%	15.770
%RSD		1.128	1.164	0.000	1.125	1.601	1.376	1.061	1.195
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	571.100	263.700	2580.000	61290.000	61590.000	531.800	574.000	285.200
2	07:36:54	585.200	268.600	2631.000	62810.000	63440.000	546.500	585.500	290.100
3	07:37:37	577.800	262.800	2602.000	61880.000	62100.000	533.800	575.100	285.600
x		578.000	265.000	2605.000	61990.000	62380.000	537.400	578.200	287.000
σ		7.069	3.099	25.720	767.400	954.700	7.985	6.387	2.737
%RSD		1.223	1.170	0.988	1.238	1.531	1.486	1.105	0.954
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	285.800	550.600	549.800	93.730	9.011	10.340	0.000	1136.000
2	07:36:54	292.700	558.200	563.700	94.840	9.900	9.555	0.000	1173.000
3	07:37:37	289.300	552.800	561.700	92.220	9.288	9.875	0.000	1160.000
x		289.300	553.800	558.400	93.600	9.399	9.923	0.000	1156.000
σ		3.431	3.930	7.511	1.318	0.455	0.395	0.000	18.880
%RSD		1.186	0.710	1.345	1.408	4.839	3.982	0.000	1.633
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	0.000	1116.000	1124.000	42.526%	52.040	51.790	47.540	37.030
2	07:36:54	0.000	1154.000	1157.000	41.943%	53.750	52.830	49.250	37.670
3	07:37:37	0.000	1126.000	1130.000	42.106%	52.030	51.920	48.210	37.010
x		0.000	1132.000	1137.000	42.192%	52.610	52.180	48.330	37.240
σ		0.000	19.960	17.630	0.301%	0.990	0.567	0.862	0.378
%RSD		0.000	1.763	1.551	0.712	1.881	1.086	1.783	1.016
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	47.282%	2173.000	457.400	455.900	2214.000	2212.000	55.768%	56.150%
2	07:36:54	46.575%	2242.000	474.300	473.500	2270.000	2283.000	54.932%	55.800%
3	07:37:37	47.260%	2180.000	464.100	468.700	2216.000	2215.000	55.627%	56.089%
x		47.039%	2199.000	465.200	466.000	2233.000	2237.000	55.442%	56.013%
σ		0.402%	37.860	8.512	9.081	32.050	40.300	0.448%	0.187%
%RSD		0.854	1.722	1.830	1.949	1.435	1.802	0.807	0.334
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	07:36:11	49.690	50.060	57.540	57.850	57.830	53.094%		
2	07:36:54	51.450	51.940	59.480	59.900	59.830	52.317%		
3	07:37:37	50.780	51.050	58.590	59.430	59.110	52.335%		
x		50.640	51.020	58.530	59.060	58.920	52.582%		
σ		0.888	0.937	0.971	1.072	1.013	0.444%		
%RSD		1.753	1.837	1.659	1.815	1.719	0.844		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:44:24	52.808%	0.847	20.950	20.750	0.000	236.600	4052.000	4018.000
2	07:45:07	52.562%	0.792	19.470	20.390	0.000	246.500	4167.000	4157.000
3	07:45:50	53.667%	0.994	19.290	19.210	0.000	237.200	4032.000	4020.000
x		53.012%	0.877	19.900	20.120	0.000	240.100	4084.000	4065.000
σ		0.580%	0.104	0.909	0.806	0.000	5.540	72.920	79.600
%RSD		1.094	11.860	4.568	4.006	0.000	2.308	1.786	1.958
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:44:24	9792.000	2574.000	0.000	2741.000	1742.000	1653.000	48.335%	75.720
2	07:45:07	10140.000	2589.000	0.000	2880.000	1765.000	1698.000	47.475%	79.020
3	07:45:50	9731.000	2519.000	0.000	2769.000	1716.000	1668.000	48.118%	76.180
x		9889.000	2561.000	0.000	2797.000	1741.000	1673.000	47.976%	76.970
σ		223.100	36.940	0.000	73.620	24.380	22.750	0.447%	1.786
%RSD		2.256	1.443	0.000	2.632	1.400	1.360	0.932	2.321
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:44:24	25.850	44.920	2957.000	143700.000	144400.000	19.090	63.430	19.880
2	07:45:07	26.710	45.580	3090.000	149700.000	150300.000	19.890	66.640	20.640
3	07:45:50	26.450	44.250	2981.000	144900.000	146300.000	19.150	62.760	19.960
x		26.340	44.920	3009.000	146100.000	147000.000	19.380	64.270	20.160
σ		0.440	0.667	70.880	3199.000	2984.000	0.442	2.075	0.415
%RSD		1.670	1.486	2.356	2.190	2.029	2.283	3.228	2.058
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:44:24	19.970	556.700	553.100	87.320	-0.393	-0.391	0.000	13.620
2	07:45:07	20.080	573.600	575.700	89.330	-0.374	-0.690	0.000	14.300
3	07:45:50	19.720	557.500	561.300	88.150	-0.217	-0.458	0.000	13.850
x		19.920	562.600	563.400	88.270	-0.328	-0.513	0.000	13.920
σ		0.183	9.515	11.480	1.008	0.097	0.157	0.000	0.345
%RSD		0.917	1.691	2.037	1.142	29.510	30.620	0.000	2.481
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:44:24	0.000	6.177	5.911	53.478%	0.052	0.015	1.022	1.024
2	07:45:07	0.000	6.249	6.156	52.581%	0.029	0.017	1.149	1.053
3	07:45:50	0.000	5.821	5.886	52.966%	0.041	0.006	1.153	1.081
x		0.000	6.082	5.984	53.008%	0.041	0.013	1.108	1.053
σ		0.000	0.229	0.149	0.450%	0.012	0.006	0.074	0.029
%RSD		0.000	3.771	2.496	0.849	28.400	45.260	6.708	2.729
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:44:24	53.729%	5.899	2.153	2.102	76.910	76.630	59.903%	60.654%
2	07:45:07	53.138%	5.523	1.708	1.836	78.180	78.460	60.009%	60.194%
3	07:45:50	53.093%	5.076	1.426	1.437	77.200	77.270	60.899%	61.214%
x		53.320%	5.499	1.762	1.791	77.430	77.450	60.270%	60.687%
σ		0.355%	0.412	0.366	0.335	0.662	0.928	0.547%	0.511%
%RSD		0.665	7.492	20.790	18.690	0.855	1.199	0.908	0.842
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	07:44:24	0.574	0.561	24.260	23.400	23.900	59.890%		
2	07:45:07	0.584	0.598	25.290	24.840	25.090	58.998%		
3	07:45:50	0.589	0.584	24.750	24.590	24.580	59.298%		
x		0.582	0.581	24.770	24.280	24.520	59.395%		
σ		0.007	0.019	0.513	0.771	0.597	0.454%		
%RSD		1.221	3.188	2.073	3.177	2.436	0.765		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	51.435%	4.307	117.500	115.300	0.000	6959.000	25220.000	25150.000
2	07:53:19	52.632%	4.594	119.600	116.900	0.000	6947.000	25260.000	25020.000
3	07:54:03	53.707%	4.535	113.600	114.100	0.000	6820.000	24720.000	24610.000
x		52.591%	4.479	116.900	115.400	0.000	6909.000	25070.000	24930.000
σ		1.137%	0.151	3.016	1.384	0.000	76.990	299.100	283.200
%RSD		2.161	3.377	2.579	1.199	0.000	1.114	1.193	1.136

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	86630.000	4360.000	0.000	18700.000	6391.000	5516.000	48.718%	753.800
2	07:53:19	86830.000	4282.000	0.000	18860.000	6283.000	5491.000	48.895%	751.700
3	07:54:03	85400.000	4208.000	0.000	18590.000	6224.000	5409.000	49.294%	744.200
x		86280.000	4284.000	0.000	18720.000	6299.000	5472.000	48.969%	749.900
σ		775.900	76.070	0.000	135.900	84.650	55.990	0.295%	5.058
%RSD		0.899	1.776	0.000	0.726	1.344	1.023	0.602	0.674

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	138.400	130.000	55420.000	173200.000	174800.000	78.080	199.300	289.600
2	07:53:19	139.700	131.600	56270.000	176400.000	178500.000	78.830	198.200	292.100
3	07:54:03	136.200	128.300	54900.000	170600.000	171400.000	75.720	190.100	277.700
x		138.100	130.000	55530.000	173400.000	174900.000	77.540	195.900	286.500
σ		1.759	1.659	692.700	2902.000	3569.000	1.625	5.015	7.680
%RSD		1.273	1.276	1.247	1.673	2.041	2.096	2.561	2.681

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	290.100	383.100	384.800	325.700	0.380	1.510	0.000	5729.000
2	07:53:19	289.000	387.700	394.400	329.900	0.397	1.309	0.000	5870.000
3	07:54:03	277.400	372.200	375.400	314.300	0.304	0.498	0.000	5429.000
x		285.500	381.000	384.900	323.300	0.360	1.106	0.000	5676.000
σ		7.029	7.959	9.490	8.078	0.050	0.536	0.000	225.500
%RSD		2.462	2.089	2.466	2.499	13.760	48.470	0.000	3.973

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	0.000	319.600	320.700	45.811%	0.199	0.086	1.094	0.755
2	07:53:19	0.000	328.500	328.100	45.569%	0.230	0.073	1.105	0.837
3	07:54:03	0.000	302.300	300.600	50.052%	0.209	0.080	1.058	0.783
x		0.000	316.800	316.500	47.144%	0.213	0.080	1.086	0.792
σ		0.000	13.330	14.240	2.522%	0.016	0.006	0.025	0.042
%RSD		0.000	4.209	4.499	5.349	7.425	7.615	2.266	5.295

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	51.664%	2.962	0.690	0.687	862.000	862.800	60.951%	60.484%
2	07:53:19	51.441%	2.715	0.646	0.637	886.000	883.100	60.986%	60.844%
3	07:54:03	52.610%	2.534	0.553	0.537	868.800	863.900	62.509%	62.258%
x		51.905%	2.737	0.629	0.621	872.300	869.900	61.482%	61.195%
σ		0.620%	0.215	0.070	0.076	12.400	11.380	0.890%	0.938%
%RSD		1.195	7.853	11.070	12.320	1.422	1.308	1.447	1.533

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	07:52:36	1.120	1.116	1798.000	1850.000	1848.000	53.630%
2	07:53:19	1.123	1.142	1826.000	1881.000	1883.000	53.992%
3	07:54:03	1.134	1.146	1821.000	1868.000	1873.000	54.601%
x		1.126	1.134	1815.000	1866.000	1868.000	54.074%
σ		0.008	0.016	15.060	15.570	18.050	0.490%
%RSD		0.677	1.425	0.830	0.834	0.966	0.907

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:49	54.551%	2.855	47.940	48.230	0.000	1771.000	16940.000	16920.000
2	08:01:32	54.646%	3.144	51.410	49.730	0.000	1782.000	16920.000	16830.000
3	08:02:15	54.335%	3.055	48.670	50.220	0.000	1791.000	17090.000	17030.000
x		54.511%	3.018	49.340	49.400	0.000	1781.000	16980.000	16930.000
σ		0.159%	0.148	1.829	1.035	0.000	10.250	93.760	95.380
%RSD		0.292	4.912	3.706	2.095	0.000	0.576	0.552	0.564
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:49	39080.000	7515.000	0.000	7865.000	29860.000	28440.000	49.552%	461.200
2	08:01:32	38540.000	7436.000	0.000	7854.000	30080.000	28230.000	49.500%	459.200
3	08:02:15	39000.000	7488.000	0.000	7956.000	30590.000	30800.000	48.738%	462.900
x		38870.000	7480.000	0.000	7892.000	30180.000	29150.000	49.264%	461.100
σ		287.400	40.560	0.000	56.000	377.700	1426.000	0.456%	1.851
%RSD		0.739	0.542	0.000	0.710	1.251	4.891	0.926	0.401
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:49	71.440	73.790	50540.000	80670.000	80240.000	31.360	90.590	186.200
2	08:01:32	70.630	73.080	51040.000	80590.000	79910.000	31.310	90.290	182.800
3	08:02:15	72.380	74.790	51470.000	80930.000	80950.000	31.510	90.000	184.200
x		71.490	73.890	51010.000	80730.000	80370.000	31.390	90.300	184.400
σ		0.873	0.860	466.600	177.700	534.300	0.102	0.295	1.726
%RSD		1.221	1.164	0.915	0.220	0.665	0.326	0.327	0.936
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:49	184.000	224.700	226.700	435.000	0.477	0.409	0.000	4944.000
2	08:01:32	183.600	223.700	225.500	429.300	0.516	0.297	0.000	4951.000
3	08:02:15	182.700	226.400	227.200	434.700	0.660	1.151	0.000	5013.000
x		183.400	224.900	226.500	433.000	0.551	0.619	0.000	4969.000
σ		0.683	1.378	0.850	3.206	0.096	0.464	0.000	38.020
%RSD		0.372	0.613	0.375	0.740	17.490	74.990	0.000	0.765
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:49	0.000	71.400	72.050	52.453%	0.114	0.057	0.680	0.511
2	08:01:32	0.000	72.190	71.580	52.463%	0.124	0.046	0.561	0.432
3	08:02:15	0.000	72.730	73.260	51.727%	0.125	0.055	0.567	0.433
x		0.000	72.110	72.300	52.214%	0.121	0.053	0.603	0.459
σ		0.000	0.668	0.870	0.422%	0.006	0.006	0.067	0.045
%RSD		0.000	0.927	1.203	0.809	4.961	10.810	11.070	9.904
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:49	53.295%	1.946	0.430	0.430	489.000	488.700	60.428%	60.350%
2	08:01:32	53.691%	1.796	0.381	0.432	486.400	485.500	61.307%	61.279%
3	08:02:15	52.709%	1.907	0.422	0.434	490.700	491.200	60.911%	61.333%
x		53.232%	1.883	0.411	0.432	488.700	488.500	60.882%	60.987%
σ		0.494%	0.078	0.026	0.002	2.156	2.865	0.440%	0.553%
%RSD		0.929	4.141	6.444	0.433	0.441	0.587	0.723	0.906
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	08:00:49	0.715	0.739	2057.000	2117.000	2111.000	57.232%		
2	08:01:32	0.717	0.733	2091.000	2144.000	2139.000	57.061%		
3	08:02:15	0.734	0.735	2079.000	2138.000	2140.000	57.326%		
x		0.722	0.736	2075.000	2133.000	2130.000	57.206%		
σ		0.011	0.003	17.390	14.310	16.940	0.134%		
%RSD		1.479	0.408	0.838	0.671	0.795	0.235		

CCV 781130 4/28/2013 8:08:20 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	53.042%	105.100	102.400	107.300	0.000	51130.000	51170.000	50840.000
2	08:09:46	52.379%	110.000	109.100	109.300	0.000	51100.000	51490.000	51210.000
3	08:10:29	53.335%	106.600	104.700	106.500	0.000	50490.000	50610.000	50230.000
x		52.919%	107.239%	105.392%	107.703%	0.000	101.811%	102.178%	101.517%
σ		0.490%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.926	2.373	3.194	1.336	0.000	0.699	0.872	0.980

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	501.100	5433.000	0.000	49450.000	47270.000	48840.000	47.431%	98.580
2	08:09:46	501.600	5484.000	0.000	50700.000	48790.000	50350.000	46.188%	103.500
3	08:10:29	493.700	5328.000	0.000	49430.000	48370.000	49340.000	46.733%	99.490
x		99.754%	108.304%	0.000	99.720%	96.290%	99.015%	46.784%	100.512%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.623%	n/a
%RSD		0.887	1.465	0.000	1.458	1.625	1.552	1.331	2.589

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	100.600	101.600	479.500	25420.000	24620.000	103.600	107.900	107.300
2	08:09:46	101.800	103.700	490.900	25950.000	25100.000	104.700	107.300	108.700
3	08:10:29	99.950	100.900	482.100	25570.000	24640.000	102.900	105.500	106.700
x		100.760%	102.055%	96.839%	102.572%	99.150%	103.751%	106.906%	107.553%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.927	1.471	1.237	1.065	1.097	0.869	1.211	0.939

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	107.100	99.440	98.380	101.000	99.630	102.500	0.000	96.450
2	08:09:46	107.800	100.900	101.000	101.900	102.500	104.400	0.000	98.120
3	08:10:29	105.100	98.650	97.730	100.500	100.800	102.000	0.000	96.230
x		106.671%	99.652%	99.053%	101.130%	100.988%	102.968%	0.000	96.935%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.321	1.123	1.775	0.741	1.445	1.252	0.000	1.068

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	49.256%	99.070	98.320	51.745%	97.990	98.350	96.860	99.270
2	08:09:46	48.479%	102.500	102.400	50.233%	99.940	100.500	99.530	99.800
3	08:10:29	48.853%	103.100	101.900	50.608%	98.230	98.470	97.180	97.970
x		48.863%	101.577%	100.863%	50.862%	98.723%	99.117%	97.860%	99.014%
σ		0.388%	n/a	n/a	0.788%	n/a	n/a	n/a	n/a
%RSD		0.794	2.158	2.198	1.549	1.078	1.237	1.491	0.950

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	51.980%	97.280	94.480	94.860	97.080	97.570	57.972%	58.717%
2	08:09:46	51.247%	99.780	97.000	98.010	101.200	99.880	57.144%	58.702%
3	08:10:29	51.880%	98.160	95.560	95.160	97.530	97.960	57.479%	58.723%
x		51.702%	98.404%	95.678%	96.011%	98.601%	98.474%	57.532%	58.714%
σ		0.397%	n/a	n/a	n/a	n/a	n/a	0.416%	0.010%
%RSD		0.768	1.291	1.325	1.813	2.288	1.256	0.724	0.018

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:03	94.530	94.650	94.310	93.840	94.330	57.702%
2	08:09:46	97.880	97.240	96.640	95.790	96.480	57.205%
3	08:10:29	95.850	96.170	96.210	95.250	95.820	57.372%
x		96.086%	96.018%	95.720%	94.962%	95.543%	57.426%
σ		n/a	n/a	n/a	n/a	n/a	0.253%
%RSD		1.754	1.356	1.293	1.059	1.152	0.441

CCB7 4/28/2013 8:16:36 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	79.738%	0.020	0.928	0.396	0.000	17.930	4.880	4.715
2	08:18:02	83.415%	0.009	0.647	0.343	0.000	21.890	7.910	7.921
3	08:18:45	84.652%	0.009	0.508	0.219	0.000	21.440	8.603	8.149
x		82.602%	0.013	0.694	0.320	0.000	20.420	7.131	6.928
σ		2.556%	0.006	0.214	0.091	0.000	2.170	1.980	1.920
%RSD		3.095	50.510	30.860	28.370	0.000	10.630	27.760	27.720

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	1.975	-0.107	0.000	-33.390	4.424	4.057	80.728%	-0.051
2	08:18:02	2.845	-1.771	0.000	-31.130	7.411	6.053	83.355%	-0.035
3	08:18:45	3.126	-0.963	0.000	-30.610	9.265	7.938	85.468%	-0.065
x		2.649	-0.947	0.000	-31.710	7.033	6.016	83.184%	-0.050
σ		0.600	0.832	0.000	1.481	2.443	1.941	2.374%	0.015
%RSD		22.650	87.870	0.000	4.670	34.730	32.270	2.855	29.400

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	-0.011	-0.025	0.856	-2.118	3.024	0.006	0.006	0.049
2	08:18:02	0.011	-0.008	1.607	0.325	5.492	0.011	0.036	0.017
3	08:18:45	0.015	-0.018	1.645	0.398	5.789	0.011	0.025	0.055
x		0.005	-0.017	1.369	-0.465	4.768	0.010	0.022	0.040
σ		0.014	0.009	0.445	1.432	1.518	0.003	0.015	0.020
%RSD		277.800	50.440	32.470	308.000	31.840	32.350	69.030	49.950

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	0.011	0.137	0.117	-0.461	-0.720	-1.958	0.000	0.036
2	08:18:02	0.035	0.151	0.148	-0.392	-0.756	-1.793	0.000	0.120
3	08:18:45	0.028	0.127	0.177	-0.469	-0.669	-1.878	0.000	0.125
x		0.024	0.138	0.147	-0.441	-0.715	-1.876	0.000	0.093
σ		0.013	0.012	0.030	0.043	0.044	0.083	0.000	0.050
%RSD		51.150	8.755	20.390	9.644	6.131	4.404	0.000	53.650

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	71.642%	0.167	0.133	81.329%	-0.034	-0.031	-0.078	-0.047
2	08:18:02	74.202%	0.157	0.135	83.803%	-0.028	-0.031	-0.073	-0.048
3	08:18:45	75.596%	0.164	0.109	85.620%	-0.029	-0.031	-0.076	-0.049
x		73.813%	0.163	0.126	83.584%	-0.030	-0.031	-0.076	-0.048
σ		2.005%	0.005	0.015	2.154%	0.004	0.000	0.003	0.001
%RSD		2.716	2.851	11.700	2.577	11.880	1.086	3.522	1.864

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	79.149%	0.048	0.071	0.072	0.032	0.075	79.542%	80.188%
2	08:18:02	82.260%	0.034	0.080	0.094	0.110	0.114	82.770%	82.957%
3	08:18:45	83.832%	0.037	0.073	0.071	0.095	0.104	83.874%	85.239%
x		81.747%	0.040	0.074	0.079	0.079	0.098	82.062%	82.795%
σ		2.383%	0.007	0.004	0.013	0.041	0.020	2.251%	2.529%
%RSD		2.915	18.150	5.893	16.600	52.270	20.920	2.743	3.055

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:17:20	0.009	0.008	0.013	0.012	0.014	81.795%
2	08:18:02	0.010	0.011	0.050	0.051	0.046	85.342%
3	08:18:45	0.013	0.012	0.037	0.056	0.048	87.258%
x		0.010	0.010	0.033	0.040	0.036	84.799%
σ		0.002	0.002	0.019	0.024	0.019	2.772%
%RSD		19.900	21.480	57.400	61.390	52.760	3.269

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	49.600%	2.690	46.860	46.110	0.000	1511.000	14970.000	14820.000
2	08:26:19	49.330%	2.950	47.790	46.600	0.000	1526.000	15130.000	15030.000
3	08:27:02	49.963%	2.948	47.980	46.150	0.000	1493.000	14770.000	14680.000
x		49.631%	2.863	47.540	46.290	0.000	1510.000	14960.000	14840.000
σ		0.318%	0.150	0.597	0.273	0.000	16.490	181.400	175.900
%RSD		0.640	5.224	1.255	0.589	0.000	1.092	1.212	1.186

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	60090.000	3225.000	0.000	16190.000	3499.000	3089.000	46.630%	502.600
2	08:26:19	60750.000	3217.000	0.000	16490.000	3576.000	3146.000	45.545%	519.200
3	08:27:02	59640.000	3146.000	0.000	16440.000	3493.000	3103.000	46.199%	508.900
x		60160.000	3196.000	0.000	16370.000	3523.000	3113.000	46.124%	510.200
σ		556.100	43.640	0.000	157.700	46.030	29.640	0.546%	8.390
%RSD		0.924	1.365	0.000	0.964	1.307	0.952	1.185	1.644

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	105.300	101.100	14100.000	136900.000	137300.000	55.520	135.200	124.300
2	08:26:19	105.200	102.300	14290.000	138800.000	139700.000	56.060	135.500	125.700
3	08:27:02	105.200	100.400	14170.000	137100.000	137400.000	55.840	133.300	122.500
x		105.200	101.300	14190.000	137600.000	138100.000	55.810	134.700	124.100
σ		0.034	0.996	93.340	990.500	1372.000	0.270	1.208	1.601
%RSD		0.032	0.983	0.658	0.720	0.993	0.484	0.897	1.290

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	125.100	345.600	349.500	1125.000	0.827	0.828	0.000	2671.000
2	08:26:19	124.200	354.300	355.700	1136.000	0.769	0.445	0.000	2728.000
3	08:27:02	122.200	351.400	353.500	1121.000	0.617	0.674	0.000	2712.000
x		123.800	350.400	352.900	1128.000	0.738	0.649	0.000	2704.000
σ		1.473	4.431	3.155	7.918	0.108	0.193	0.000	29.300
%RSD		1.189	1.264	0.894	0.702	14.660	29.720	0.000	1.084

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	0.000	128.300	127.100	49.572%	0.158	0.093	1.039	0.787
2	08:26:19	0.000	131.800	129.200	49.072%	0.139	0.090	0.784	0.682
3	08:27:02	0.000	129.100	129.500	48.948%	0.147	0.096	0.972	0.746
x		0.000	129.700	128.600	49.197%	0.148	0.093	0.932	0.738
σ		0.000	1.836	1.306	0.330%	0.009	0.003	0.132	0.053
%RSD		0.000	1.415	1.015	0.671	6.269	3.401	14.160	7.166

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	50.233%	1.660	0.288	0.319	353.900	358.100	57.381%	58.028%
2	08:26:19	49.984%	1.640	0.317	0.322	362.500	361.400	57.965%	58.731%
3	08:27:02	50.587%	1.577	0.278	0.303	353.000	355.400	58.676%	59.032%
x		50.268%	1.625	0.294	0.315	356.500	358.300	58.007%	58.597%
σ		0.303%	0.043	0.020	0.010	5.236	2.989	0.649%	0.515%
%RSD		0.603	2.660	6.812	3.210	1.469	0.834	1.118	0.879

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:25:35	1.043	1.036	351.400	356.900	357.400	54.994%
2	08:26:19	1.056	1.048	358.200	364.000	385.000	54.847%
3	08:27:02	1.069	1.033	359.300	366.900	366.200	54.831%
x		1.056	1.039	356.300	362.600	369.500	54.891%
σ		0.013	0.008	4.280	5.125	14.060	0.090%
%RSD		1.233	0.759	1.201	1.413	3.806	0.163

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	49.704%	5.443	26.130	26.520	0.000	555.100	27510.000	27390.000
2	08:34:33	49.354%	5.496	27.280	27.870	0.000	560.300	28050.000	28120.000
3	08:35:16	49.661%	5.365	28.450	26.920	0.000	568.800	28070.000	28060.000
x		49.573%	5.434	27.290	27.100	0.000	561.400	27880.000	27860.000
σ		0.191%	0.066	1.164	0.691	0.000	6.905	320.800	403.400
%RSD		0.385	1.212	4.265	2.551	0.000	1.230	1.151	1.448

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	93900.000	4223.000	0.000	9177.000	18570.000	17920.000	47.744%	661.500
2	08:34:33	95420.000	4312.000	0.000	9463.000	19410.000	18650.000	47.034%	679.900
3	08:35:16	95280.000	4291.000	0.000	9521.000	19310.000	18670.000	47.129%	681.000
x		94860.000	4275.000	0.000	9387.000	19100.000	18410.000	47.302%	674.200
σ		841.900	46.670	0.000	184.300	455.900	426.700	0.386%	10.950
%RSD		0.887	1.092	0.000	1.964	2.387	2.317	0.815	1.624

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	148.800	138.400	3168.000	221300.000	223600.000	83.340	177.500	166.800
2	08:34:33	152.600	143.400	3334.000	231800.000	236800.000	88.310	186.700	175.700
3	08:35:16	154.300	144.500	3351.000	233400.000	236800.000	88.480	187.500	175.800
x		151.900	142.100	3284.000	228800.000	232400.000	86.710	183.900	172.800
σ		2.790	3.249	100.700	6562.000	7623.000	2.919	5.600	5.156
%RSD		1.837	2.287	3.067	2.867	3.280	3.367	3.045	2.984

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	166.700	418.100	419.200	107.200	1.259	1.625	0.000	88.220
2	08:34:33	177.600	446.100	450.000	115.400	1.355	2.484	0.000	97.660
3	08:35:16	177.400	447.500	448.900	115.500	1.273	1.798	0.000	98.620
x		173.900	437.200	439.400	112.700	1.296	1.969	0.000	94.830
σ		6.189	16.620	17.460	4.785	0.052	0.454	0.000	5.749
%RSD		3.559	3.801	3.975	4.246	4.021	23.060	0.000	6.062

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	0.000	8.672	8.632	49.707%	0.135	0.055	1.125	0.857
2	08:34:33	0.000	9.483	9.812	44.604%	0.160	0.050	1.058	0.768
3	08:35:16	0.000	9.977	9.699	44.787%	0.159	0.061	1.177	0.826
x		0.000	9.377	9.381	46.366%	0.151	0.055	1.120	0.817
σ		0.000	0.659	0.651	2.895%	0.014	0.005	0.060	0.045
%RSD		0.000	7.027	6.943	6.244	9.417	9.694	5.341	5.504

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	50.996%	1.215	0.206	0.215	593.600	593.900	60.841%	60.337%
2	08:34:33	50.525%	1.247	0.215	0.242	613.500	611.300	60.993%	60.478%
3	08:35:16	50.233%	1.235	0.207	0.231	617.300	617.200	61.283%	60.765%
x		50.585%	1.232	0.209	0.230	608.100	607.500	61.039%	60.527%
σ		0.385%	0.016	0.005	0.014	12.710	12.090	0.225%	0.218%
%RSD		0.761	1.330	2.288	6.004	2.090	1.990	0.368	0.360

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:50	1.204	1.194	116.200	115.700	115.800	55.095%
2	08:34:33	1.221	1.251	121.200	119.600	120.700	54.228%
3	08:35:16	1.310	1.272	122.600	121.200	122.500	53.998%
x		1.245	1.239	120.000	118.800	119.700	54.440%
σ		0.057	0.040	3.316	2.827	3.443	0.578%
%RSD		4.577	3.251	2.764	2.380	2.877	1.062

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	49.933%	3.983	27.110	26.720	0.000	564.100	21100.000	21010.000
2	08:42:47	50.534%	3.987	25.250	26.670	0.000	534.800	20720.000	20530.000
3	08:43:30	49.960%	3.927	27.140	27.430	0.000	567.400	21110.000	21160.000
x		50.142%	3.965	26.500	26.940	0.000	555.500	20980.000	20900.000
σ		0.340%	0.034	1.085	0.426	0.000	17.950	226.500	328.600
%RSD		0.677	0.852	4.093	1.581	0.000	3.232	1.080	1.572

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	79520.000	3562.000	0.000	8675.000	5203.000	4917.000	46.569%	615.200
2	08:42:47	77370.000	3429.000	0.000	8534.000	5055.000	4906.000	46.970%	599.100
3	08:43:30	79690.000	3548.000	0.000	8750.000	5219.000	4962.000	46.172%	609.800
x		78860.000	3513.000	0.000	8653.000	5159.000	4929.000	46.570%	608.000
σ		1296.000	73.240	0.000	109.800	90.900	29.620	0.399%	8.192
%RSD		1.643	2.085	0.000	1.268	1.762	0.601	0.857	1.347

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	131.900	109.800	3541.000	173900.000	175200.000	69.540	171.500	116.900
2	08:42:47	128.400	108.100	3469.000	170100.000	171900.000	68.120	166.200	113.500
3	08:43:30	131.400	110.900	3597.000	175400.000	177200.000	69.950	171.800	115.500
x		130.600	109.600	3536.000	173200.000	174800.000	69.200	169.800	115.300
σ		1.916	1.452	64.230	2708.000	2638.000	0.956	3.126	1.712
%RSD		1.467	1.324	1.817	1.564	1.509	1.382	1.841	1.486

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	117.500	562.900	562.200	118.300	0.716	1.132	0.000	150.800
2	08:42:47	113.500	547.900	553.100	115.700	0.652	0.753	0.000	149.800
3	08:43:30	116.000	564.100	569.400	120.000	0.862	1.403	0.000	154.300
x		115.700	558.300	561.600	118.000	0.743	1.096	0.000	151.600
σ		2.003	9.056	8.156	2.196	0.108	0.327	0.000	2.396
%RSD		1.732	1.622	1.452	1.861	14.460	29.810	0.000	1.580

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	0.000	28.450	28.760	49.503%	0.164	0.081	1.171	1.001
2	08:42:47	0.000	28.500	28.650	50.126%	0.153	0.061	1.114	0.841
3	08:43:30	0.000	29.580	29.710	49.193%	0.144	0.076	1.106	0.946
x		0.000	28.840	29.040	49.607%	0.154	0.073	1.130	0.930
σ		0.000	0.641	0.586	0.475%	0.010	0.011	0.035	0.081
%RSD		0.000	2.221	2.018	0.957	6.539	14.550	3.131	8.742

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	50.105%	1.120	0.160	0.184	435.000	433.100	58.720%	59.125%
2	08:42:47	51.160%	1.191	0.162	0.207	425.600	425.900	59.729%	59.966%
3	08:43:30	50.691%	1.134	0.180	0.194	438.000	436.800	59.901%	60.053%
x		50.652%	1.149	0.167	0.195	432.900	431.900	59.450%	59.715%
σ		0.529%	0.038	0.011	0.012	6.499	5.529	0.638%	0.513%
%RSD		1.044	3.288	6.866	5.888	1.501	1.280	1.073	0.859

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:42:04	1.195	1.193	105.100	102.900	104.200	54.406%
2	08:42:47	1.203	1.196	103.900	102.500	103.700	55.491%
3	08:43:30	1.219	1.211	107.100	105.200	106.100	54.957%
x		1.206	1.200	105.400	103.600	104.700	54.951%
σ		0.012	0.010	1.596	1.453	1.253	0.542%
%RSD		0.989	0.819	1.515	1.403	1.197	0.987

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:50:19	51.117%	1.913	22.650	22.340	0.000	467.200	9374.000	9325.000
2	08:51:01	52.577%	1.827	21.380	21.000	0.000	445.200	8857.000	8907.000
3	08:51:44	52.533%	1.866	21.580	21.900	0.000	452.400	9066.000	9052.000
x		52.076%	1.869	21.870	21.750	0.000	455.000	9099.000	9094.000
σ		0.831%	0.043	0.683	0.679	0.000	11.230	259.700	211.900
%RSD		1.595	2.307	3.124	3.123	0.000	2.467	2.855	2.330
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:50:19	26940.000	5834.000	0.000	4189.000	17330.000	16530.000	46.576%	343.800
2	08:51:01	25460.000	5497.000	0.000	3970.000	16380.000	15830.000	47.312%	327.400
3	08:51:44	25690.000	5561.000	0.000	4055.000	16850.000	16130.000	46.472%	330.700
x		26030.000	5631.000	0.000	4071.000	16850.000	16160.000	46.787%	334.000
σ		796.000	178.700	0.000	110.200	474.500	348.800	0.458%	8.645
%RSD		3.058	3.173	0.000	2.706	2.816	2.158	0.980	2.589
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:50:19	45.670	45.670	7011.000	68950.000	69160.000	39.980	116.800	52.750
2	08:51:01	42.750	42.300	6751.000	65600.000	65750.000	37.080	109.900	50.000
3	08:51:44	44.240	44.470	6930.000	67820.000	67980.000	38.550	113.000	50.590
x		44.220	44.150	6897.000	67460.000	67630.000	38.540	113.200	51.110
σ		1.461	1.708	133.000	1705.000	1731.000	1.453	3.453	1.448
%RSD		3.304	3.869	1.928	2.528	2.560	3.769	3.050	2.833
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:50:19	51.910	703.500	703.900	143.000	0.080	-0.026	0.000	780.800
2	08:51:01	49.220	673.600	677.300	136.100	-0.030	-0.040	0.000	751.700
3	08:51:44	49.790	690.900	700.500	139.600	0.034	0.042	0.000	772.500
x		50.310	689.300	693.900	139.600	0.028	-0.008	0.000	768.300
σ		1.417	14.990	14.470	3.415	0.055	0.044	0.000	14.960
%RSD		2.817	2.175	2.085	2.447	195.300	551.300	0.000	1.948
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:50:19	0.000	9.366	9.313	51.057%	0.077	0.024	1.027	0.976
2	08:51:01	0.000	8.827	8.892	52.310%	0.064	0.024	0.867	0.844
3	08:51:44	0.000	9.032	9.056	51.093%	0.080	0.021	1.038	0.987
x		0.000	9.075	9.087	51.487%	0.073	0.023	0.977	0.936
σ		0.000	0.272	0.212	0.713%	0.008	0.002	0.096	0.080
%RSD		0.000	2.993	2.334	1.385	11.210	8.532	9.819	8.504
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:50:19	51.367%	2.050	0.285	0.271	229.100	229.000	58.776%	59.016%
2	08:51:01	52.812%	1.940	0.280	0.290	218.700	218.200	60.373%	60.931%
3	08:51:44	51.731%	1.868	0.278	0.316	223.000	225.000	60.290%	60.470%
x		51.970%	1.953	0.281	0.292	223.600	224.100	59.813%	60.139%
σ		0.752%	0.092	0.004	0.023	5.238	5.469	0.899%	1.000%
%RSD		1.446	4.709	1.251	7.778	2.343	2.441	1.503	1.662
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	08:50:19	0.709	0.689	92.880	93.120	93.910	55.253%		
2	08:51:01	0.679	0.673	88.130	88.620	89.110	57.821%		
3	08:51:44	0.680	0.696	90.710	91.520	92.080	56.887%		
x		0.689	0.686	90.570	91.090	91.700	56.654%		
σ		0.017	0.012	2.379	2.278	2.420	1.300%		
%RSD		2.443	1.683	2.626	2.501	2.639	2.294		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	50.018%	3.034	20.940	22.660	0.000	286.800	18380.000	18260.000
2	08:59:17	50.803%	2.898	21.440	21.940	0.000	281.400	18090.000	17970.000
3	08:59:59	50.986%	2.619	21.260	21.660	0.000	273.500	17430.000	17310.000
x		50.602%	2.850	21.210	22.090	0.000	280.600	17970.000	17850.000
σ		0.514%	0.212	0.252	0.515	0.000	6.680	485.200	487.600
%RSD		1.016	7.432	1.187	2.331	0.000	2.381	2.700	2.732

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	54110.000	3767.000	0.000	7627.000	2280.000	2198.000	46.063%	392.100
2	08:59:17	52940.000	3648.000	0.000	7422.000	2251.000	2151.000	46.257%	390.900
3	08:59:59	51180.000	3531.000	0.000	7219.000	2229.000	2099.000	46.431%	373.100
x		52740.000	3649.000	0.000	7423.000	2253.000	2149.000	46.250%	385.400
σ		1472.000	118.000	0.000	203.800	25.730	49.750	0.184%	10.630
%RSD		2.791	3.233	0.000	2.745	1.142	2.314	0.398	2.759

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	86.110	118.700	1906.000	131900.000	132800.000	59.890	207.000	96.710
2	08:59:17	85.600	116.600	1920.000	132600.000	134000.000	60.590	203.400	96.360
3	08:59:59	81.860	112.800	1844.000	127800.000	128200.000	57.150	193.700	91.140
x		84.520	116.100	1890.000	130800.000	131600.000	59.210	201.400	94.730
σ		2.320	3.002	40.490	2586.000	3031.000	1.816	6.886	3.118
%RSD		2.745	2.586	2.143	1.977	2.302	3.066	3.419	3.291

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	96.830	739.600	741.200	107.600	-0.042	0.783	0.000	30.320
2	08:59:17	96.630	747.600	754.200	110.900	0.008	0.188	0.000	32.370
3	08:59:59	90.650	711.200	705.400	103.100	0.035	-0.384	0.000	29.210
x		94.700	732.800	733.600	107.200	0.001	0.196	0.000	30.630
σ		3.512	19.130	25.270	3.918	0.039	0.584	0.000	1.601
%RSD		3.708	2.611	3.445	3.654	6392.000	298.500	0.000	5.225

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	0.000	5.559	5.636	50.081%	0.096	0.057	1.629	1.559
2	08:59:17	0.000	6.021	6.121	45.765%	0.096	0.050	1.661	1.452
3	08:59:59	0.000	5.311	5.733	50.168%	0.105	0.037	1.427	1.311
x		0.000	5.631	5.830	48.671%	0.099	0.048	1.572	1.440
σ		0.000	0.360	0.256	2.517%	0.005	0.010	0.127	0.124
%RSD		0.000	6.401	4.397	5.172	5.280	20.900	8.067	8.627

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	50.148%	2.006	0.328	0.351	349.700	349.100	58.926%	58.614%
2	08:59:17	51.029%	1.963	0.328	0.339	343.200	344.600	59.045%	59.717%
3	08:59:59	51.396%	1.899	0.351	0.351	336.600	337.100	59.830%	60.262%
x		50.858%	1.956	0.336	0.347	343.200	343.600	59.267%	59.531%
σ		0.642%	0.054	0.013	0.007	6.555	6.042	0.491%	0.840%
%RSD		1.262	2.752	3.924	2.091	1.910	1.758	0.829	1.410

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	08:58:34	1.072	1.030	63.850	63.290	63.600	54.775%
2	08:59:17	1.030	1.060	64.080	62.540	63.430	54.987%
3	08:59:59	1.040	1.027	62.410	61.330	61.690	55.894%
x		1.047	1.039	63.450	62.390	62.910	55.219%
σ		0.022	0.018	0.905	0.985	1.057	0.594%
%RSD		2.068	1.737	1.427	1.579	1.681	1.076

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	50.888%	2.781	11.280	10.600	0.000	223.800	9387.000	9388.000
2	09:07:32	51.251%	2.742	10.280	10.230	0.000	224.000	9286.000	9316.000
3	09:08:14	51.310%	2.518	10.170	10.440	0.000	226.600	9307.000	9362.000
x		51.150%	2.680	10.580	10.420	0.000	224.800	9327.000	9355.000
σ		0.228%	0.142	0.613	0.184	0.000	1.542	53.160	36.290
%RSD		0.446	5.293	5.796	1.767	0.000	0.686	0.570	0.388

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	50040.000	3474.000	0.000	3995.000	4195.000	4015.000	46.422%	503.200
2	09:07:32	49680.000	3391.000	0.000	3936.000	4179.000	3933.000	46.447%	496.800
3	09:08:14	49590.000	3394.000	0.000	3986.000	4152.000	4016.000	46.295%	500.500
x		49770.000	3420.000	0.000	3972.000	4175.000	3988.000	46.388%	500.200
σ		241.000	47.380	0.000	32.050	21.570	47.370	0.081%	3.188
%RSD		0.484	1.385	0.000	0.807	0.517	1.188	0.175	0.637

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	94.190	68.420	4316.000	93630.000	93570.000	45.440	123.600	48.650
2	09:07:32	92.620	67.930	4273.000	92190.000	91870.000	44.100	119.600	45.960
3	09:08:14	93.080	68.280	4332.000	93190.000	93460.000	45.050	121.300	48.130
x		93.300	68.210	4307.000	93000.000	92970.000	44.860	121.500	47.580
σ		0.806	0.249	30.380	735.000	952.500	0.690	1.986	1.427
%RSD		0.864	0.365	0.705	0.790	1.025	1.537	1.634	2.998

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	48.790	723.300	723.400	103.200	1.339	1.252	0.000	35.370
2	09:07:32	47.050	709.700	713.900	100.700	1.123	0.963	0.000	34.780
3	09:08:14	47.760	725.400	730.300	103.900	1.250	1.214	0.000	35.800
x		47.870	719.400	722.500	102.600	1.237	1.143	0.000	35.320
σ		0.878	8.494	8.278	1.692	0.108	0.157	0.000	0.510
%RSD		1.834	1.181	1.146	1.649	8.765	13.770	0.000	1.444

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	0.000	8.502	8.624	51.023%	0.129	0.103	1.015	0.985
2	09:07:32	0.000	8.484	8.547	50.808%	0.121	0.072	1.042	0.962
3	09:08:14	0.000	8.988	8.909	50.074%	0.123	0.084	1.002	0.961
x		0.000	8.658	8.693	50.635%	0.124	0.086	1.020	0.969
σ		0.000	0.286	0.191	0.498%	0.004	0.016	0.021	0.014
%RSD		0.000	3.302	2.197	0.983	3.306	18.050	2.016	1.423

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	51.317%	1.332	0.141	0.153	354.400	350.700	58.130%	58.766%
2	09:07:32	50.862%	1.310	0.147	0.142	349.400	349.100	59.080%	59.513%
3	09:08:14	51.064%	1.311	0.122	0.156	352.300	351.900	58.986%	59.617%
x		51.081%	1.318	0.137	0.150	352.000	350.600	58.732%	59.299%
σ		0.228%	0.012	0.013	0.007	2.500	1.403	0.524%	0.464%
%RSD		0.447	0.908	9.646	4.927	0.710	0.400	0.892	0.783

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:49	0.859	0.869	55.790	53.960	54.620	56.119%
2	09:07:32	0.852	0.873	54.690	53.300	54.070	56.823%
3	09:08:14	0.895	0.861	56.600	55.000	55.740	55.985%
x		0.869	0.867	55.690	54.090	54.810	56.309%
σ		0.023	0.006	0.958	0.857	0.851	0.450%
%RSD		2.674	0.706	1.720	1.584	1.552	0.800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:04	49.742%	3.740	24.490	25.310	0.000	448.900	22560.000	22270.000
2	09:15:47	50.423%	3.629	25.400	25.330	0.000	445.300	22200.000	22100.000
3	09:16:30	50.835%	3.651	24.400	24.510	0.000	436.500	21750.000	21510.000
x		50.333%	3.673	24.760	25.050	0.000	443.600	22170.000	21960.000
σ		0.552%	0.059	0.555	0.464	0.000	6.370	406.200	396.300
%RSD		1.096	1.603	2.243	1.853	0.000	1.436	1.832	1.804
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:04	73440.000	2146.000	0.000	8364.000	12080.000	11460.000	46.938%	535.900
2	09:15:47	72490.000	2090.000	0.000	8411.000	12030.000	11560.000	46.612%	534.000
3	09:16:30	70770.000	2068.000	0.000	8191.000	11790.000	11170.000	46.932%	518.500
x		72230.000	2102.000	0.000	8322.000	11970.000	11400.000	46.827%	529.500
σ		1356.000	40.080	0.000	115.600	156.800	204.600	0.187%	9.568
%RSD		1.877	1.907	0.000	1.389	1.310	1.795	0.399	1.807
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:04	116.100	103.700	2376.000	157800.000	158400.000	74.480	204.700	116.300
2	09:15:47	116.700	105.100	2435.000	160600.000	162400.000	76.550	208.400	117.900
3	09:16:30	112.200	101.300	2348.000	154500.000	155000.000	72.090	196.800	112.800
x		115.000	103.400	2386.000	157600.000	158600.000	74.370	203.300	115.700
σ		2.463	1.930	44.410	3095.000	3730.000	2.234	5.927	2.637
%RSD		2.141	1.868	1.861	1.963	2.352	3.003	2.915	2.280
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:04	115.000	839.800	843.200	115.100	0.276	0.753	0.000	150.800
2	09:15:47	118.000	862.500	868.300	121.200	0.281	0.738	0.000	164.800
3	09:16:30	113.800	826.800	830.600	112.800	0.333	1.106	0.000	150.500
x		115.600	843.000	847.400	116.400	0.297	0.866	0.000	155.400
σ		2.168	18.040	19.210	4.305	0.032	0.208	0.000	8.164
%RSD		1.875	2.140	2.267	3.699	10.650	24.030	0.000	5.254
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:04	0.000	6.245	6.327	50.534%	0.159	0.068	1.718	1.520
2	09:15:47	0.000	6.555	6.750	45.303%	0.171	0.096	1.713	1.470
3	09:16:30	0.000	6.030	6.259	49.778%	0.154	0.066	1.544	1.339
x		0.000	6.277	6.445	48.538%	0.161	0.077	1.658	1.443
σ		0.000	0.264	0.266	2.827%	0.009	0.017	0.099	0.093
%RSD		0.000	4.202	4.124	5.825	5.478	21.830	5.980	6.479
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:04	50.725%	0.913	0.110	0.114	457.400	456.400	58.325%	58.661%
2	09:15:47	50.419%	0.967	0.111	0.119	458.500	458.600	58.690%	58.801%
3	09:16:30	51.278%	0.875	0.098	0.105	449.600	445.300	59.569%	59.588%
x		50.807%	0.918	0.106	0.113	455.200	453.400	58.861%	59.017%
σ		0.435%	0.046	0.007	0.007	4.850	7.131	0.640%	0.499%
%RSD		0.856	5.037	6.590	6.464	1.066	1.573	1.087	0.846
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	09:15:04	0.932	0.957	80.420	78.600	79.580	54.832%		
2	09:15:47	1.003	1.013	81.960	81.120	81.740	53.940%		
3	09:16:30	0.939	0.942	79.370	77.910	78.660	55.607%		
x		0.958	0.970	80.590	79.210	79.990	54.793%		
σ		0.039	0.037	1.304	1.691	1.584	0.834%		
%RSD		4.094	3.859	1.618	2.134	1.981	1.523		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	48.760%	4.226	40.300	41.140	0.000	1695.000	20530.000	20260.000
2	09:24:03	49.556%	3.716	40.540	40.560	0.000	1690.000	20170.000	20240.000
3	09:24:46	50.132%	3.919	41.340	40.390	0.000	1629.000	19560.000	19730.000
x		49.483%	3.954	40.730	40.700	0.000	1671.000	20090.000	20080.000
σ		0.689%	0.257	0.544	0.392	0.000	37.040	491.400	300.300
%RSD		1.392	6.490	1.337	0.962	0.000	2.216	2.447	1.496

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	85200.000	2768.000	0.000	11190.000	1480.000	1336.000	46.347%	575.100
2	09:24:03	85470.000	2679.000	0.000	11070.000	1439.000	1341.000	46.195%	569.700
3	09:24:46	82780.000	2602.000	0.000	10810.000	1426.000	1301.000	46.195%	561.100
x		84480.000	2683.000	0.000	11030.000	1448.000	1326.000	46.246%	568.600
σ		1486.000	82.910	0.000	195.500	28.280	21.680	0.088%	7.071
%RSD		1.759	3.090	0.000	1.773	1.952	1.635	0.190	1.243

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	135.300	115.200	1989.000	187600.000	188500.000	74.650	176.400	153.000
2	09:24:03	133.800	112.700	1996.000	185600.000	188200.000	72.990	173.300	150.100
3	09:24:46	132.800	112.500	1956.000	182700.000	184800.000	71.850	167.800	146.800
x		134.000	113.500	1980.000	185300.000	187200.000	73.160	172.500	150.000
σ		1.264	1.510	21.470	2497.000	2030.000	1.405	4.378	3.113
%RSD		0.944	1.331	1.084	1.348	1.085	1.921	2.538	2.076

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	150.900	601.600	615.700	110.600	0.791	1.350	0.000	113.100
2	09:24:03	150.700	603.900	611.200	108.600	0.877	1.081	0.000	113.500
3	09:24:46	147.400	596.800	598.500	107.200	0.723	1.002	0.000	110.300
x		149.700	600.800	608.500	108.800	0.797	1.144	0.000	112.300
σ		1.957	3.652	8.893	1.680	0.077	0.182	0.000	1.717
%RSD		1.308	0.608	1.462	1.544	9.690	15.930	0.000	1.529

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	0.000	72.630	72.350	48.552%	0.129	0.031	1.222	0.982
2	09:24:03	0.000	71.870	71.330	49.184%	0.112	0.030	1.120	0.901
3	09:24:46	0.000	71.290	71.550	49.133%	0.105	0.022	1.081	0.896
x		0.000	71.930	71.740	48.956%	0.115	0.028	1.141	0.926
σ		0.000	0.673	0.534	0.352%	0.012	0.005	0.073	0.048
%RSD		0.000	0.936	0.744	0.718	10.840	18.080	6.374	5.189

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	49.595%	0.820	0.114	0.134	395.700	394.600	58.193%	57.963%
2	09:24:03	50.162%	0.809	0.114	0.138	392.000	391.400	58.443%	58.929%
3	09:24:46	49.794%	0.784	0.129	0.127	389.500	391.800	59.311%	59.398%
x		49.850%	0.804	0.119	0.133	392.400	392.600	58.649%	58.763%
σ		0.287%	0.018	0.009	0.005	3.157	1.744	0.587%	0.731%
%RSD		0.577	2.286	7.283	3.974	0.804	0.444	1.001	1.245

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:20	1.299	1.282	88.430	87.330	87.900	53.522%
2	09:24:03	1.271	1.282	88.550	87.120	88.010	54.475%
3	09:24:46	1.247	1.268	88.200	86.370	87.020	54.580%
x		1.272	1.277	88.390	86.940	87.650	54.192%
σ		0.026	0.008	0.177	0.503	0.545	0.583%
%RSD		2.023	0.639	0.200	0.579	0.621	1.076

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	50.061%	3.274	17.500	17.610	0.000	280.000	20820.000	20580.000
2	09:32:20	51.079%	3.123	16.570	17.090	0.000	272.800	20100.000	20010.000
3	09:33:03	50.440%	3.066	17.360	16.920	0.000	280.500	20570.000	20220.000
x		50.527%	3.154	17.140	17.210	0.000	277.800	20500.000	20270.000
σ		0.514%	0.108	0.502	0.356	0.000	4.311	363.400	285.600
%RSD		1.018	3.410	2.927	2.069	0.000	1.552	1.773	1.409

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	66280.000	2654.000	0.000	7198.000	798.400	756.300	47.020%	524.300
2	09:32:20	64760.000	2547.000	0.000	6970.000	758.700	747.300	47.012%	511.900
3	09:33:03	65030.000	2581.000	0.000	7127.000	810.400	748.300	46.272%	512.100
x		65350.000	2594.000	0.000	7098.000	789.200	750.700	46.768%	516.100
σ		809.600	54.940	0.000	116.500	27.090	4.898	0.429%	7.112
%RSD		1.239	2.118	0.000	1.641	3.432	0.652	0.918	1.378

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	112.500	91.310	2207.000	141000.000	141400.000	53.240	135.500	106.700
2	09:32:20	109.200	89.040	2180.000	138700.000	139100.000	52.870	132.300	104.100
3	09:33:03	111.000	90.770	2198.000	140000.000	139900.000	52.350	133.700	105.500
x		110.900	90.370	2195.000	139900.000	140100.000	52.820	133.800	105.500
σ		1.632	1.190	13.870	1162.000	1206.000	0.449	1.634	1.308
%RSD		1.472	1.317	0.632	0.831	0.861	0.851	1.221	1.240

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	105.700	553.600	562.900	156.200	0.840	1.597	0.000	61.290
2	09:32:20	104.300	552.900	552.800	156.100	0.640	1.455	0.000	61.200
3	09:33:03	105.300	555.800	563.200	156.200	0.638	1.542	0.000	61.660
x		105.100	554.100	559.600	156.200	0.706	1.531	0.000	61.380
σ		0.706	1.503	5.952	0.104	0.116	0.071	0.000	0.248
%RSD		0.672	0.271	1.064	0.066	16.480	4.658	0.000	0.404

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	0.000	6.749	6.743	50.885%	0.112	0.041	1.182	0.913
2	09:32:20	0.000	6.868	6.696	50.339%	0.103	0.032	1.099	0.813
3	09:33:03	0.000	6.712	6.592	49.723%	0.108	0.036	0.997	0.837
x		0.000	6.776	6.677	50.315%	0.108	0.037	1.093	0.855
σ		0.000	0.082	0.077	0.581%	0.004	0.005	0.093	0.052
%RSD		0.000	1.207	1.157	1.155	4.113	12.250	8.475	6.112

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	50.760%	1.099	0.134	0.138	264.200	265.900	58.614%	59.171%
2	09:32:20	51.159%	1.063	0.139	0.123	261.800	260.200	59.003%	59.412%
3	09:33:03	50.857%	1.071	0.137	0.125	264.100	262.600	59.296%	59.085%
x		50.926%	1.077	0.136	0.129	263.400	262.900	58.971%	59.223%
σ		0.208%	0.019	0.002	0.008	1.349	2.834	0.343%	0.169%
%RSD		0.409	1.792	1.792	6.242	0.512	1.078	0.581	0.286

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:31:37	1.130	1.110	73.910	72.540	73.490	53.583%
2	09:32:20	1.079	1.070	71.480	70.380	71.010	55.509%
3	09:33:03	1.094	1.076	72.250	71.220	72.040	54.559%
x		1.101	1.085	72.550	71.380	72.180	54.550%
σ		0.026	0.021	1.240	1.093	1.248	0.963%
%RSD		2.381	1.971	1.709	1.531	1.728	1.766

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	48.384%	4.099	48.660	49.100	0.000	2401.000	17790.000	17610.000
2	09:40:35	48.540%	4.056	47.760	49.770	0.000	2375.000	17620.000	17630.000
3	09:41:18	49.134%	4.084	48.520	48.290	0.000	2318.000	17120.000	17000.000
x		48.686%	4.080	48.310	49.060	0.000	2365.000	17510.000	17410.000
σ		0.396%	0.022	0.479	0.741	0.000	42.170	349.400	358.800
%RSD		0.813	0.532	0.993	1.510	0.000	1.783	1.996	2.061

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	68710.000	6061.000	0.000	12980.000	8182.000	7930.000	45.295%	667.800
2	09:40:35	68630.000	6036.000	0.000	12980.000	8102.000	7930.000	45.108%	670.100
3	09:41:18	66370.000	5797.000	0.000	12500.000	7856.000	7573.000	45.814%	644.800
x		67900.000	5965.000	0.000	12820.000	8047.000	7811.000	45.406%	660.900
σ		1329.000	145.700	0.000	273.200	169.900	205.800	0.366%	14.020
%RSD		1.957	2.443	0.000	2.131	2.112	2.635	0.806	2.122

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	126.600	106.300	2661.000	200400.000	202500.000	69.640	164.300	130.500
2	09:40:35	127.800	106.600	2719.000	206000.000	208500.000	71.720	167.500	131.600
3	09:41:18	119.700	100.600	2596.000	196300.000	196700.000	66.670	156.400	124.700
x		124.700	104.500	2659.000	200900.000	202600.000	69.350	162.700	129.000
σ		4.344	3.391	61.640	4868.000	5891.000	2.536	5.706	3.690
%RSD		3.484	3.244	2.318	2.423	2.908	3.657	3.507	2.861

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	128.000	473.300	480.700	176.800	0.879	1.207	0.000	253.500
2	09:40:35	132.200	491.100	498.200	185.100	0.869	1.627	0.000	275.100
3	09:41:18	123.600	465.900	467.700	172.400	0.790	0.774	0.000	250.000
x		127.900	476.800	482.200	178.100	0.846	1.203	0.000	259.500
σ		4.287	12.940	15.320	6.459	0.049	0.426	0.000	13.560
%RSD		3.351	2.713	3.177	3.627	5.798	35.450	0.000	5.226

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	0.000	434.900	433.300	48.559%	0.160	0.069	1.400	1.109
2	09:40:35	0.000	480.400	479.100	43.895%	0.209	0.094	1.484	1.181
3	09:41:18	0.000	428.300	425.900	48.465%	0.140	0.060	1.399	1.034
x		0.000	447.900	446.100	46.973%	0.170	0.074	1.428	1.108
σ		0.000	28.400	28.810	2.666%	0.035	0.017	0.049	0.074
%RSD		0.000	6.340	6.459	5.676	20.760	23.090	3.433	6.661

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	49.112%	1.255	0.355	0.368	423.600	424.900	57.872%	58.222%
2	09:40:35	48.659%	1.301	0.365	0.361	428.400	428.000	57.848%	57.727%
3	09:41:18	49.732%	1.327	0.324	0.338	412.800	414.000	58.678%	58.244%
x		49.168%	1.294	0.348	0.356	421.600	422.300	58.133%	58.065%
σ		0.538%	0.036	0.021	0.016	7.991	7.397	0.472%	0.292%
%RSD		1.095	2.799	6.094	4.438	1.895	1.752	0.812	0.503

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:52	1.143	1.118	93.970	92.450	93.270	53.130%
2	09:40:35	1.168	1.156	97.030	94.930	95.860	52.282%
3	09:41:18	1.098	1.122	92.590	90.660	91.860	54.052%
x		1.136	1.132	94.530	92.680	93.660	53.155%
σ		0.036	0.021	2.274	2.141	2.028	0.886%
%RSD		3.155	1.827	2.406	2.310	2.166	1.666

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	51.245%	106.400	101.400	103.700	0.000	51140.000	50750.000	50820.000
2	09:48:48	51.404%	104.500	102.600	104.400	0.000	50550.000	50700.000	50360.000
3	09:49:31	51.354%	103.500	100.400	104.200	0.000	50850.000	50590.000	50450.000
x		51.335%	104.787%	101.459%	104.105%	0.000	101.699%	101.359%	101.086%
σ		0.081%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.159	1.451	1.088	0.380	0.000	0.580	0.162	0.479

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	504.200	5468.000	0.000	49650.000	47710.000	49180.000	45.824%	100.300
2	09:48:48	496.200	5371.000	0.000	49090.000	47650.000	49020.000	45.455%	102.300
3	09:49:31	511.300	5349.000	0.000	49180.000	47580.000	49140.000	45.377%	101.900
x		100.783%	107.919%	0.000	98.613%	95.295%	98.220%	45.552%	101.489%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.239%	n/a
%RSD		1.493	1.171	0.000	0.609	0.138	0.167	0.525	1.076

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	101.700	103.700	479.000	25520.000	24570.000	104.400	108.000	106.900
2	09:48:48	100.600	101.300	475.400	25310.000	24380.000	103.100	105.900	104.700
3	09:49:31	100.100	101.000	478.100	25480.000	24660.000	102.700	105.600	105.200
x		100.814%	101.964%	95.501%	101.762%	98.144%	103.404%	106.499%	105.606%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.778	1.440	0.385	0.444	0.585	0.836	1.201	1.063

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	106.500	96.540	97.020	101.300	97.360	99.700	0.000	96.200
2	09:48:48	104.400	96.080	95.570	98.550	97.480	97.240	0.000	96.140
3	09:49:31	104.600	96.730	96.020	99.640	97.380	98.180	0.000	96.210
x		105.152%	96.452%	96.201%	99.825%	97.406%	98.377%	0.000	96.185%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.076	0.347	0.769	1.380	0.063	1.261	0.000	0.041

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	47.306%	100.800	99.740	49.702%	97.610	99.210	95.290	97.320
2	09:48:48	47.209%	101.700	100.600	49.305%	97.380	97.400	95.180	96.700
3	09:49:31	46.991%	106.000	108.200	44.842%	103.700	103.000	97.920	97.780
x		47.169%	102.809%	102.822%	47.950%	99.557%	99.862%	96.128%	97.267%
σ		0.162%	n/a	n/a	2.699%	n/a	n/a	n/a	n/a
%RSD		0.342	2.731	4.519	5.628	3.596	2.845	1.611	0.560

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	49.948%	97.220	93.390	94.140	98.150	99.030	55.203%	55.558%
2	09:48:48	49.519%	98.080	93.400	93.750	98.210	98.220	55.334%	56.525%
3	09:49:31	49.755%	97.560	93.450	93.160	97.070	98.330	55.867%	56.411%
x		49.741%	97.620%	93.413%	93.681%	97.809%	98.527%	55.468%	56.165%
σ		0.215%	n/a	n/a	n/a	n/a	n/a	0.351%	0.529%
%RSD		0.432	0.447	0.033	0.528	0.657	0.441	0.633	0.941

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:06	95.190	95.190	94.480	93.450	94.330	53.646%
2	09:48:48	94.650	94.680	93.830	94.020	93.950	54.100%
3	09:49:31	94.920	94.860	94.250	93.480	93.880	54.249%
x		94.919%	94.912%	94.187%	93.650%	94.054%	53.998%
σ		n/a	n/a	n/a	n/a	n/a	0.314%
%RSD		0.282	0.271	0.351	0.342	0.257	0.582

CCB8 4/28/2013 9:55:40 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	78.179%	-0.012	-0.713	-0.984	0.000	17.980	6.218	5.774
2	09:57:06	81.339%	0.010	-0.684	-1.178	0.000	17.460	5.764	5.434
3	09:57:49	80.748%	0.019	-0.663	-1.193	0.000	19.150	7.026	7.133
x		80.088%	0.006	-0.687	-1.118	0.000	18.190	6.336	6.113
σ		1.680%	0.016	0.025	0.117	0.000	0.864	0.639	0.899
%RSD		2.098	291.200	3.657	10.420	0.000	4.747	10.080	14.710

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	2.644	-2.438	0.000	-32.560	7.218	5.198	80.084%	0.061
2	09:57:06	2.447	-2.365	0.000	-33.470	4.780	6.022	83.402%	0.011
3	09:57:49	2.770	-2.673	0.000	-32.450	6.915	6.176	83.162%	-0.002
x		2.620	-2.492	0.000	-32.830	6.304	5.799	82.216%	0.024
σ		0.163	0.161	0.000	0.562	1.329	0.526	1.850%	0.033
%RSD		6.220	6.445	0.000	1.713	21.080	9.072	2.250	140.200

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	0.004	-0.010	1.041	-0.062	3.740	0.012	0.001	0.031
2	09:57:06	0.000	-0.030	1.030	-0.955	3.711	0.008	-0.003	0.050
3	09:57:49	0.006	-0.034	1.137	1.039	5.784	0.008	0.007	0.019
x		0.003	-0.024	1.069	0.007	4.412	0.009	0.001	0.033
σ		0.003	0.013	0.059	0.999	1.189	0.003	0.005	0.016
%RSD		87.830	51.650	5.513	14220.000	26.940	27.600	338.900	47.290

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	0.011	0.158	0.152	-0.605	-0.705	-2.276	0.000	0.055
2	09:57:06	-0.018	0.141	0.138	-0.610	-0.702	-2.386	0.000	0.051
3	09:57:49	-0.005	0.167	0.169	-0.503	-0.533	-1.954	0.000	0.061
x		-0.004	0.155	0.153	-0.573	-0.647	-2.205	0.000	0.056
σ		0.014	0.013	0.016	0.060	0.098	0.224	0.000	0.005
%RSD		336.700	8.356	10.220	10.480	15.200	10.180	0.000	9.272

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	71.972%	0.143	0.167	87.250%	-0.038	-0.038	-0.109	-0.065
2	09:57:06	74.714%	0.118	0.140	90.299%	-0.036	-0.043	-0.077	-0.048
3	09:57:49	74.810%	0.139	0.123	89.930%	-0.038	-0.039	-0.038	-0.017
x		73.832%	0.134	0.143	89.159%	-0.037	-0.040	-0.075	-0.043
σ		1.612%	0.013	0.022	1.664%	0.001	0.003	0.035	0.025
%RSD		2.183	9.889	15.270	1.867	3.284	6.706	47.420	56.570

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	81.755%	-0.051	0.050	0.067	0.085	0.074	82.018%	82.299%
2	09:57:06	84.765%	-0.072	0.046	0.030	0.104	0.070	84.725%	85.883%
3	09:57:49	85.851%	-0.074	0.032	0.028	0.066	0.065	85.501%	85.435%
x		84.124%	-0.065	0.043	0.042	0.085	0.069	84.081%	84.539%
σ		2.122%	0.013	0.010	0.022	0.019	0.005	1.828%	1.953%
%RSD		2.523	19.820	22.240	52.480	22.430	6.633	2.175	2.310

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	09:56:23	0.004	0.006	0.012	0.018	0.020	80.786%
2	09:57:06	0.004	0.006	0.025	0.023	0.021	84.200%
3	09:57:49	0.008	0.008	0.024	0.024	0.025	83.870%
x		0.006	0.006	0.021	0.021	0.022	82.952%
σ		0.002	0.001	0.007	0.003	0.003	1.883%
%RSD		43.560	18.250	34.080	14.930	13.970	2.270

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	51.031%	1.910	25.340	25.050	0.000	1530.000	8455.000	8718.000
2	10:05:22	50.738%	2.020	26.340	25.270	0.000	1522.000	8874.000	8813.000
3	10:06:05	51.159%	1.908	25.510	25.770	0.000	1525.000	8737.000	8701.000
x		50.976%	1.946	25.730	25.360	0.000	1526.000	8688.000	8744.000
σ		0.216%	0.064	0.534	0.367	0.000	3.681	213.800	60.100
%RSD		0.423	3.306	2.075	1.449	0.000	0.241	2.460	0.687

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	29370.000	3115.000	0.000	5478.000	9163.000	8658.000	46.787%	264.500
2	10:05:22	29370.000	3011.000	0.000	5554.000	9093.000	8677.000	45.945%	264.400
3	10:06:05	29020.000	2828.000	0.000	5478.000	9164.000	8663.000	46.278%	265.500
x		29250.000	2985.000	0.000	5503.000	9140.000	8666.000	46.336%	264.800
σ		203.900	145.200	0.000	43.820	40.360	10.000	0.424%	0.592
%RSD		0.697	4.864	0.000	0.796	0.442	0.115	0.915	0.224

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	57.940	74.370	3494.000	107000.000	106700.000	93.400	206.000	71.900
2	10:05:22	58.610	74.220	3485.000	106600.000	106500.000	91.100	201.300	69.340
3	10:06:05	57.140	72.650	3436.000	104800.000	105000.000	90.040	200.700	68.830
x		57.890	73.740	3472.000	106100.000	106100.000	91.510	202.700	70.020
σ		0.734	0.952	31.040	1152.000	943.100	1.718	2.895	1.645
%RSD		1.267	1.292	0.894	1.085	0.889	1.878	1.428	2.349

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	70.790	636.000	646.900	211.100	0.255	0.966	0.000	161.500
2	10:05:22	68.500	628.500	627.300	205.100	0.360	0.542	0.000	154.600
3	10:06:05	67.950	622.800	628.500	202.000	0.326	0.890	0.000	153.700
x		69.080	629.100	634.200	206.100	0.314	0.799	0.000	156.600
σ		1.506	6.612	10.960	4.624	0.054	0.226	0.000	4.274
%RSD		2.181	1.051	1.729	2.244	17.070	28.220	0.000	2.730

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	0.000	124.400	123.800	46.781%	0.100	0.074	1.701	1.554
2	10:05:22	0.000	117.200	116.100	50.704%	0.131	0.071	1.499	1.446
3	10:06:05	0.000	115.000	114.500	50.604%	0.111	0.068	1.463	1.473
x		0.000	118.800	118.100	49.363%	0.114	0.071	1.554	1.491
σ		0.000	4.911	4.973	2.237%	0.016	0.003	0.128	0.056
%RSD		0.000	4.133	4.210	4.531	13.890	4.186	8.238	3.773

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	50.710%	1.717	0.280	0.255	196.100	194.700	59.846%	59.143%
2	10:05:22	50.487%	1.860	0.282	0.315	199.200	197.500	59.299%	59.085%
3	10:06:05	50.901%	1.618	0.287	0.306	194.600	194.200	59.914%	59.200%
x		50.699%	1.732	0.283	0.292	196.600	195.500	59.687%	59.143%
σ		0.207%	0.121	0.004	0.032	2.335	1.788	0.337%	0.057%
%RSD		0.409	7.006	1.343	11.050	1.188	0.915	0.565	0.097

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	10:04:39	0.749	0.755	57.880	57.070	57.760	54.538%
2	10:05:22	0.786	0.756	58.940	57.420	58.180	54.635%
3	10:06:05	0.775	0.766	58.430	57.250	57.940	54.924%
x		0.770	0.759	58.420	57.250	57.960	54.699%
σ		0.019	0.006	0.531	0.171	0.209	0.201%
%RSD		2.455	0.787	0.910	0.299	0.360	0.367

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	47.006%	4.260	114.600	113.600	0.000	3002.000	19510.000	19330.000
2	10:13:37	47.389%	4.309	117.200	114.500	0.000	2970.000	19370.000	19240.000
3	10:14:20	47.742%	4.305	118.600	114.900	0.000	2969.000	19310.000	19200.000
x		47.379%	4.291	116.800	114.300	0.000	2980.000	19400.000	19250.000
σ		0.368%	0.027	2.070	0.623	0.000	18.520	104.200	65.300
%RSD		0.776	0.629	1.772	0.545	0.000	0.621	0.537	0.339

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	89390.000	2866.000	0.000	32730.000	1872.000	1759.000	44.397%	589.400
2	10:13:37	88830.000	2830.000	0.000	32880.000	1945.000	1763.000	43.915%	590.100
3	10:14:20	88620.000	2824.000	0.000	32910.000	1885.000	1762.000	44.075%	592.600
x		88950.000	2840.000	0.000	32840.000	1901.000	1761.000	44.129%	590.700
σ		399.700	22.380	0.000	97.930	39.200	1.795	0.245%	1.663
%RSD		0.449	0.788	0.000	0.298	2.062	0.102	0.556	0.281

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	152.900	128.700	2285.000	200600.000	203300.000	71.700	172.400	156.500
2	10:13:37	152.400	129.000	2301.000	201900.000	203400.000	70.950	170.600	157.300
3	10:14:20	151.900	129.200	2297.000	201000.000	203600.000	69.530	170.500	154.900
x		152.400	129.000	2295.000	201200.000	203400.000	70.730	171.200	156.200
σ		0.466	0.256	8.168	650.000	185.700	1.105	1.084	1.215
%RSD		0.306	0.199	0.356	0.323	0.091	1.562	0.633	0.778

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	155.000	400.900	404.800	362.700	1.088	1.553	0.000	643.400
2	10:13:37	156.700	402.800	408.700	363.100	0.777	1.518	0.000	597.500
3	10:14:20	156.800	406.700	410.200	363.900	0.904	1.212	0.000	605.000
x		156.200	403.500	407.900	363.300	0.923	1.428	0.000	615.300
σ		1.008	2.985	2.778	0.611	0.156	0.188	0.000	24.600
%RSD		0.645	0.740	0.681	0.168	16.900	13.130	0.000	3.998

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	0.000	822.000	821.800	42.502%	0.169	0.070	1.267	0.848
2	10:13:37	0.000	827.700	829.000	42.441%	0.162	0.061	1.077	0.824
3	10:14:20	0.000	835.900	839.500	42.082%	0.157	0.079	0.964	0.706
x		0.000	828.500	830.100	42.342%	0.163	0.070	1.103	0.793
σ		0.000	6.993	8.889	0.227%	0.006	0.009	0.153	0.076
%RSD		0.000	0.844	1.071	0.536	3.736	13.180	13.860	9.602

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	47.232%	0.944	0.126	0.160	532.400	533.300	55.787%	55.269%
2	10:13:37	47.700%	0.890	0.164	0.175	530.200	527.200	56.459%	56.371%
3	10:14:20	47.216%	0.971	0.161	0.150	537.600	536.000	56.834%	56.143%
x		47.382%	0.935	0.150	0.162	533.400	532.200	56.360%	55.928%
σ		0.275%	0.041	0.021	0.013	3.792	4.502	0.531%	0.582%
%RSD		0.581	4.401	14.020	7.741	0.711	0.846	0.942	1.041

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:54	1.068	1.057	103.200	101.900	102.900	50.637%
2	10:13:37	1.097	1.070	103.700	101.900	103.000	50.968%
3	10:14:20	1.117	1.070	105.600	103.700	104.800	50.712%
x		1.094	1.066	104.200	102.500	103.500	50.772%
σ		0.025	0.007	1.267	1.059	1.048	0.174%
%RSD		2.252	0.678	1.216	1.033	1.013	0.342

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	48.977%	2.288	47.820	46.940	0.000	1980.000	10510.000	10490.000
2	10:21:51	48.722%	2.229	48.250	47.060	0.000	1969.000	10450.000	10430.000
3	10:22:34	49.430%	2.376	48.380	46.810	0.000	1933.000	10220.000	10290.000
x		49.043%	2.298	48.150	46.940	0.000	1961.000	10390.000	10400.000
σ		0.358%	0.074	0.293	0.127	0.000	24.310	156.900	102.700
%RSD		0.730	3.221	0.609	0.270	0.000	1.240	1.509	0.987

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	44700.000	2249.000	0.000	10450.000	1501.000	1382.000	44.657%	392.800
2	10:21:51	44030.000	2177.000	0.000	10360.000	1489.000	1340.000	44.828%	391.300
3	10:22:34	43720.000	2187.000	0.000	10290.000	1492.000	1354.000	44.026%	386.700
x		44150.000	2204.000	0.000	10370.000	1494.000	1358.000	44.504%	390.300
σ		497.900	38.830	0.000	83.210	6.201	21.420	0.423%	3.187
%RSD		1.128	1.762	0.000	0.803	0.415	1.577	0.949	0.817

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	77.640	77.250	1703.000	107200.000	107500.000	70.450	153.200	84.120
2	10:21:51	76.180	75.850	1685.000	105800.000	105800.000	69.670	149.600	83.420
3	10:22:34	75.600	74.750	1678.000	105100.000	105200.000	68.630	149.000	82.390
x		76.470	75.950	1688.000	106000.000	106200.000	69.580	150.600	83.310
σ		1.051	1.252	12.840	1099.000	1168.000	0.914	2.298	0.868
%RSD		1.375	1.649	0.761	1.036	1.100	1.313	1.526	1.042

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	83.760	402.800	405.400	477.400	0.451	0.469	0.000	752.700
2	10:21:51	83.470	396.500	400.500	471.200	0.327	1.020	0.000	750.700
3	10:22:34	81.070	400.500	402.900	464.800	0.301	0.665	0.000	751.400
x		82.770	399.900	402.900	471.100	0.360	0.718	0.000	751.600
σ		1.478	3.217	2.442	6.284	0.080	0.279	0.000	1.021
%RSD		1.786	0.804	0.606	1.334	22.190	38.900	0.000	0.136

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	0.000	290.300	289.600	48.816%	0.105	0.048	1.139	0.872
2	10:21:51	0.000	288.100	286.900	48.833%	0.101	0.064	0.927	0.777
3	10:22:34	0.000	285.800	284.400	48.505%	0.090	0.069	0.958	0.747
x		0.000	288.100	287.000	48.718%	0.099	0.060	1.008	0.799
σ		0.000	2.252	2.579	0.184%	0.008	0.011	0.115	0.065
%RSD		0.000	0.782	0.899	0.379	7.795	17.710	11.370	8.186

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	48.849%	0.890	0.145	0.146	254.300	256.500	55.967%	56.205%
2	10:21:51	48.989%	0.897	0.151	0.134	252.500	252.500	56.568%	56.549%
3	10:22:34	49.177%	0.872	0.139	0.149	250.900	250.600	57.122%	57.130%
x		49.005%	0.886	0.145	0.143	252.600	253.200	56.553%	56.628%
σ		0.165%	0.013	0.006	0.008	1.707	3.051	0.578%	0.468%
%RSD		0.336	1.468	4.176	5.678	0.676	1.205	1.021	0.826

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	10:21:09	0.668	0.679	66.440	65.110	65.640	52.379%
2	10:21:51	0.662	0.662	66.690	65.570	66.060	52.493%
3	10:22:34	0.662	0.661	65.510	64.890	64.830	53.135%
x		0.664	0.667	66.210	65.190	65.510	52.669%
σ		0.003	0.010	0.623	0.347	0.629	0.408%
%RSD		0.486	1.512	0.940	0.532	0.961	0.774

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:24	48.562%	4.081	35.110	35.280	0.000	2673.000	21870.000	21960.000
2	10:30:07	49.338%	4.104	34.470	33.490	0.000	2602.000	21110.000	21120.000
3	10:30:50	49.287%	3.986	33.170	35.100	0.000	2660.000	21760.000	21560.000
x		49.062%	4.057	34.250	34.620	0.000	2645.000	21580.000	21540.000
σ		0.434%	0.063	0.986	0.984	0.000	37.980	412.600	420.100
%RSD		0.884	1.545	2.878	2.843	0.000	1.436	1.912	1.950
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:24	65130.000	2224.000	0.000	9026.000	15950.000	15380.000	45.775%	417.400
2	10:30:07	62960.000	2080.000	0.000	8706.000	15650.000	15160.000	45.976%	404.900
3	10:30:50	63890.000	2187.000	0.000	9019.000	16340.000	15510.000	45.480%	416.900
x		64000.000	2164.000	0.000	8917.000	15980.000	15350.000	45.743%	413.100
σ		1091.000	74.880	0.000	183.000	348.500	174.400	0.249%	7.066
%RSD		1.705	3.461	0.000	2.052	2.181	1.136	0.545	1.711
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:24	106.600	105.700	3392.000	184700.000	186300.000	113.000	257.700	141.200
2	10:30:07	103.000	101.600	3249.000	176600.000	177800.000	107.000	240.700	132.000
3	10:30:50	105.400	105.800	3411.000	184300.000	186800.000	112.500	255.200	138.000
x		105.000	104.400	3351.000	181900.000	183600.000	110.800	251.200	137.100
σ		1.836	2.382	88.510	4546.000	5085.000	3.294	9.167	4.712
%RSD		1.749	2.283	2.641	2.499	2.769	2.973	3.649	3.437
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:24	141.900	851.700	866.900	153.900	0.410	0.983	0.000	101.300
2	10:30:07	130.800	802.000	811.600	142.600	0.173	1.088	0.000	92.240
3	10:30:50	138.800	864.300	870.500	152.900	0.396	1.296	0.000	102.600
x		137.200	839.300	849.700	149.800	0.326	1.122	0.000	98.710
σ		5.754	32.940	33.040	6.280	0.133	0.159	0.000	5.647
%RSD		4.195	3.925	3.888	4.192	40.730	14.210	0.000	5.720
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:24	0.000	22.500	22.520	44.232%	0.180	0.087	2.186	1.959
2	10:30:07	0.000	20.810	20.230	48.975%	0.146	0.099	2.035	1.709
3	10:30:50	0.000	22.720	22.690	43.990%	0.209	0.095	2.107	1.885
x		0.000	22.010	21.810	45.732%	0.179	0.094	2.110	1.851
σ		0.000	1.044	1.373	2.811%	0.032	0.006	0.076	0.128
%RSD		0.000	4.743	6.295	6.147	17.630	6.680	3.581	6.938
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:24	48.830%	0.683	0.141	0.103	421.600	419.900	58.081%	57.459%
2	10:30:07	49.626%	0.689	0.144	0.149	412.800	415.800	58.792%	58.511%
3	10:30:50	49.010%	0.725	0.138	0.139	421.200	423.700	58.460%	58.265%
x		49.155%	0.699	0.141	0.130	418.500	419.800	58.444%	58.078%
σ		0.417%	0.023	0.003	0.024	4.999	3.968	0.355%	0.550%
%RSD		0.849	3.318	2.108	18.600	1.194	0.945	0.608	0.948
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	10:29:24	0.976	1.015	91.740	90.430	91.200	52.119%		
2	10:30:07	0.994	0.967	90.400	89.140	90.010	53.050%		
3	10:30:50	0.979	0.992	92.050	91.150	92.040	52.810%		
x		0.983	0.991	91.390	90.240	91.080	52.659%		
σ		0.009	0.024	0.876	1.022	1.021	0.483%		
%RSD		0.949	2.454	0.958	1.132	1.121	0.918		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	49.970%	2.358	8.757	7.715	0.000	273.500	7719.000	8117.000
2	10:38:23	50.180%	2.387	8.013	8.343	0.000	279.000	7865.000	8210.000
3	10:39:06	50.450%	2.516	8.207	8.376	0.000	278.100	7958.000	8203.000
x		50.200%	2.420	8.326	8.145	0.000	276.900	7847.000	8176.000
σ		0.241%	0.084	0.386	0.372	0.000	2.933	120.700	51.610
%RSD		0.479	3.470	4.638	4.572	0.000	1.059	1.539	0.631

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	44520.000	2862.000	0.000	3725.000	2607.000	2559.000	46.254%	407.600
2	10:38:23	44820.000	2849.000	0.000	3805.000	2640.000	2617.000	45.824%	413.900
3	10:39:06	44960.000	2796.000	0.000	3800.000	2709.000	2661.000	45.365%	416.000
x		44760.000	2836.000	0.000	3777.000	2652.000	2612.000	45.815%	412.500
σ		227.800	34.850	0.000	44.730	51.720	50.670	0.444%	4.379
%RSD		0.509	1.229	0.000	1.184	1.950	1.940	0.970	1.062

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	88.280	64.360	4690.000	103900.000	103400.000	60.490	85.840	58.410
2	10:38:23	87.900	64.400	4780.000	106000.000	105600.000	60.330	87.770	59.030
3	10:39:06	88.060	64.720	4799.000	105400.000	105300.000	60.930	88.500	59.090
x		88.080	64.490	4756.000	105100.000	104800.000	60.580	87.370	58.850
σ		0.191	0.200	58.000	1069.000	1169.000	0.311	1.376	0.377
%RSD		0.217	0.310	1.219	1.017	1.116	0.513	1.575	0.641

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	58.500	236.200	241.400	83.780	1.047	0.923	0.000	57.570
2	10:38:23	58.800	240.900	243.700	85.530	1.042	0.498	0.000	59.360
3	10:39:06	58.590	243.800	243.600	85.650	1.002	0.611	0.000	59.770
x		58.630	240.300	242.900	84.990	1.030	0.677	0.000	58.900
σ		0.151	3.854	1.299	1.043	0.024	0.220	0.000	1.169
%RSD		0.258	1.604	0.535	1.227	2.349	32.540	0.000	1.984

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	0.000	6.228	6.492	51.039%	0.126	0.059	0.876	0.709
2	10:38:23	0.000	6.253	6.516	50.367%	0.129	0.088	0.795	0.643
3	10:39:06	0.000	6.623	6.572	50.113%	0.137	0.078	0.723	0.636
x		0.000	6.368	6.527	50.506%	0.131	0.075	0.798	0.662
σ		0.000	0.221	0.041	0.478%	0.006	0.015	0.077	0.040
%RSD		0.000	3.469	0.631	0.947	4.304	19.540	9.614	6.104

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	50.588%	0.670	0.128	0.148	277.300	276.600	57.147%	57.494%
2	10:38:23	50.214%	0.723	0.128	0.164	284.500	282.800	57.475%	58.008%
3	10:39:06	50.154%	0.761	0.161	0.150	282.900	285.300	57.203%	57.487%
x		50.319%	0.718	0.139	0.154	281.600	281.600	57.275%	57.663%
σ		0.235%	0.046	0.019	0.009	3.787	4.480	0.175%	0.299%
%RSD		0.467	6.339	13.610	5.600	1.345	1.591	0.306	0.519

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:40	0.696	0.699	61.280	59.820	60.710	53.362%
2	10:38:23	0.714	0.712	62.890	60.800	62.110	54.153%
3	10:39:06	0.748	0.739	63.650	61.880	63.090	53.778%
x		0.720	0.717	62.610	60.840	61.970	53.764%
σ		0.026	0.021	1.211	1.030	1.198	0.396%
%RSD		3.676	2.884	1.935	1.693	1.934	0.736

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:45:56	47.316%	3.410	56.820	55.870	0.000	2503.000	14960.000	14810.000
2	10:46:39	47.452%	3.577	56.310	55.750	0.000	2491.000	14780.000	14650.000
3	10:47:22	47.413%	3.768	57.600	55.680	0.000	2473.000	14710.000	14720.000
x		47.394%	3.585	56.910	55.760	0.000	2489.000	14820.000	14730.000
σ		0.070%	0.179	0.650	0.096	0.000	15.280	127.000	82.250
%RSD		0.149	4.989	1.143	0.172	0.000	0.614	0.858	0.559
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:45:56	62520.000	2446.000	0.000	19490.000	1098.000	1000.000	43.559%	446.200
2	10:46:39	61380.000	2411.000	0.000	19170.000	1083.000	981.100	43.336%	443.900
3	10:47:22	60790.000	2386.000	0.000	19190.000	1049.000	988.300	43.024%	439.300
x		61560.000	2414.000	0.000	19290.000	1077.000	989.900	43.306%	443.100
σ		880.300	29.970	0.000	179.000	25.170	9.749	0.269%	3.499
%RSD		1.430	1.242	0.000	0.928	2.337	0.985	0.621	0.790
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:45:56	106.600	96.690	1959.000	189400.000	190500.000	89.040	172.300	154.200
2	10:46:39	103.600	94.410	1941.000	186200.000	187500.000	86.540	170.100	152.300
3	10:47:22	102.500	95.430	1944.000	187200.000	187700.000	87.320	166.500	152.800
x		104.200	95.510	1948.000	187600.000	188600.000	87.640	169.700	153.100
σ		2.136	1.142	9.669	1622.000	1650.000	1.279	2.902	0.959
%RSD		2.049	1.195	0.496	0.865	0.875	1.460	1.710	0.626
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:45:56	155.200	445.700	450.500	832.200	0.813	1.656	0.000	217.100
2	10:46:39	153.600	440.700	444.100	818.200	0.754	1.821	0.000	213.400
3	10:47:22	150.000	439.500	443.500	815.700	0.616	1.735	0.000	215.200
x		152.900	442.000	446.000	822.000	0.728	1.738	0.000	215.200
σ		2.685	3.277	3.850	8.880	0.101	0.083	0.000	1.814
%RSD		1.755	0.741	0.863	1.080	13.880	4.761	0.000	0.843
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:45:56	0.000	626.000	625.100	42.169%	0.157	0.077	1.180	1.012
2	10:46:39	0.000	615.800	616.500	42.124%	0.149	0.081	1.239	0.937
3	10:47:22	0.000	621.100	621.000	42.100%	0.165	0.070	1.338	1.014
x		0.000	621.000	620.900	42.131%	0.157	0.076	1.252	0.988
σ		0.000	5.084	4.324	0.035%	0.008	0.006	0.080	0.044
%RSD		0.000	0.819	0.697	0.083	5.125	7.474	6.357	4.460
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:45:56	46.910%	0.649	1.843	1.824	465.700	465.800	55.388%	55.159%
2	10:46:39	47.316%	0.591	1.781	1.830	453.400	454.200	55.789%	55.853%
3	10:47:22	47.402%	0.629	1.755	1.883	454.400	450.800	55.887%	55.980%
x		47.209%	0.623	1.793	1.846	457.900	456.900	55.688%	55.664%
σ		0.263%	0.029	0.045	0.033	6.809	7.863	0.264%	0.442%
%RSD		0.557	4.730	2.507	1.766	1.487	1.721	0.475	0.794
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	10:45:56	5.119	5.068	359.100	357.200	357.700	49.408%		
2	10:46:39	4.959	4.978	351.300	348.800	349.600	49.282%		
3	10:47:22	4.974	4.980	351.300	348.500	349.400	50.068%		
x		5.017	5.008	353.900	351.500	352.200	49.586%		
σ		0.088	0.051	4.528	4.961	4.770	0.422%		
%RSD		1.764	1.025	1.279	1.411	1.354	0.852		

CCV 781130 4/28/2013 10:53:28 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	49.274%	107.200	101.000	103.200	0.000	50690.000	50850.000	51170.000
2	10:54:54	49.693%	103.700	101.500	102.200	0.000	49930.000	50200.000	50200.000
3	10:55:36	49.746%	105.900	103.300	102.800	0.000	50460.000	50170.000	50320.000
x		49.571%	105.583%	101.937%	102.712%	0.000	100.719%	100.815%	101.123%
σ		0.258%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.521	1.682	1.178	0.478	0.000	0.777	0.768	1.041

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	508.000	5439.000	0.000	49910.000	48020.000	49210.000	44.548%	101.900
2	10:54:54	501.400	5328.000	0.000	49890.000	47980.000	49200.000	43.552%	101.800
3	10:55:36	498.300	5328.000	0.000	49800.000	48140.000	49460.000	43.323%	102.400
x		100.514%	107.296%	0.000	99.736%	96.094%	98.578%	43.808%	102.039%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.651%	n/a
%RSD		0.984	1.194	0.000	0.122	0.173	0.303	1.486	0.330

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	101.100	100.800	480.900	25410.000	24440.000	102.300	104.600	106.200
2	10:54:54	100.800	101.400	480.200	25490.000	24620.000	102.500	104.200	106.400
3	10:55:36	100.900	101.200	480.200	25450.000	24640.000	102.900	104.200	103.000
x		100.932%	101.138%	96.084%	101.798%	98.280%	102.569%	104.333%	105.219%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.190	0.309	0.079	0.160	0.445	0.291	0.222	1.789

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	105.500	96.220	98.030	100.600	97.750	100.800	0.000	97.480
2	10:54:54	103.800	95.340	95.640	99.960	97.620	98.610	0.000	96.440
3	10:55:36	104.200	95.890	97.310	98.400	98.230	96.110	0.000	96.400
x		104.477%	95.816%	96.997%	99.641%	97.867%	98.507%	0.000	96.773%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.860	0.464	1.264	1.124	0.331	2.388	0.000	0.632

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	46.155%	105.600	106.200	44.553%	103.500	103.400	98.990	99.180
2	10:54:54	45.814%	102.700	101.400	47.509%	97.890	99.780	96.650	97.080
3	10:55:36	45.739%	106.500	107.500	43.267%	103.300	102.500	98.530	98.130
x		45.903%	104.933%	105.033%	45.110%	101.588%	101.917%	98.056%	98.127%
σ		0.222%	n/a	n/a	2.175%	n/a	n/a	n/a	n/a
%RSD		0.483	1.914	3.090	4.821	3.157	1.871	1.260	1.072

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	49.165%	98.400	95.570	94.620	99.170	98.810	55.635%	56.207%
2	10:54:54	48.256%	98.020	94.070	94.590	98.160	97.860	55.372%	56.001%
3	10:55:36	48.192%	98.400	94.640	95.220	97.850	98.440	54.928%	55.559%
x		48.538%	98.273%	94.761%	94.810%	98.397%	98.372%	55.312%	55.922%
σ		0.544%	n/a	n/a	n/a	n/a	n/a	0.357%	0.331%
%RSD		1.122	0.221	0.797	0.373	0.700	0.488	0.646	0.593

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	10:54:11	94.200	95.020	94.360	93.360	94.080	57.248%
2	10:54:54	93.220	94.080	93.750	93.590	93.630	57.539%
3	10:55:36	95.440	94.460	94.230	93.560	94.110	55.093%
x		94.286%	94.518%	94.115%	93.505%	93.937%	56.627%
σ		n/a	n/a	n/a	n/a	n/a	1.337%
%RSD		1.178	0.500	0.345	0.131	0.287	2.360

CCB9 4/28/2013 11:01:44 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:02:28	83.958%	0.021	-0.847	-1.383	0.000	18.780	8.023	7.760
2	11:03:11	84.600%	0.015	-0.906	-1.487	0.000	22.750	11.000	10.480
3	11:03:53	85.695%	0.003	-0.927	-1.371	0.000	18.990	7.975	7.857
x		84.751%	0.013	-0.894	-1.413	0.000	20.180	8.999	8.698
σ		0.878%	0.010	0.042	0.064	0.000	2.231	1.733	1.542
%RSD		1.036	74.070	4.678	4.509	0.000	11.060	19.250	17.730
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:02:28	3.343	-2.891	0.000	-29.920	3.549	6.726	76.547%	0.007
2	11:03:11	3.986	-2.830	0.000	-26.270	7.967	9.676	77.886%	0.103
3	11:03:53	3.166	-2.641	0.000	-28.120	11.040	6.709	79.843%	-0.078
x		3.499	-2.787	0.000	-28.100	7.519	7.704	78.092%	0.011
σ		0.432	0.130	0.000	1.823	3.767	1.708	1.658%	0.091
%RSD		12.340	4.674	0.000	6.485	50.100	22.170	2.123	841.900
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:02:28	-0.001	-0.028	1.188	2.380	7.460	0.016	0.034	0.022
2	11:03:11	-0.001	-0.008	1.325	5.619	10.100	0.022	0.022	0.038
3	11:03:53	0.005	-0.015	1.214	2.262	6.126	0.021	0.011	0.035
x		0.001	-0.017	1.243	3.420	7.896	0.020	0.022	0.032
σ		0.004	0.010	0.073	1.905	2.024	0.003	0.012	0.009
%RSD		276.200	60.140	5.853	55.680	25.630	16.380	52.540	27.500
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:02:28	-0.003	0.189	0.176	-0.399	-0.735	-1.963	0.000	0.063
2	11:03:11	0.015	0.175	0.194	-0.466	-0.721	-2.030	0.000	0.075
3	11:03:53	0.014	0.171	0.194	-0.396	-0.639	-1.759	0.000	0.070
x		0.009	0.178	0.188	-0.420	-0.699	-1.917	0.000	0.070
σ		0.011	0.010	0.010	0.040	0.052	0.141	0.000	0.006
%RSD		120.700	5.392	5.468	9.475	7.411	7.344	0.000	8.978
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:02:28	69.335%	0.145	0.110	90.197%	-0.028	-0.039	-0.075	-0.038
2	11:03:11	70.753%	0.120	0.126	91.359%	-0.028	-0.029	-0.065	-0.041
3	11:03:53	73.317%	0.084	0.070	93.466%	-0.031	-0.034	-0.061	-0.033
x		71.135%	0.116	0.102	91.674%	-0.029	-0.034	-0.067	-0.037
σ		2.018%	0.031	0.029	1.657%	0.002	0.005	0.007	0.004
%RSD		2.837	26.310	28.230	1.808	6.297	14.920	10.490	10.930
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:02:28	79.913%	-0.110	0.028	0.032	0.069	0.098	78.242%	78.793%
2	11:03:11	81.841%	-0.118	0.041	0.027	0.114	0.100	79.855%	80.697%
3	11:03:53	83.827%	-0.111	0.032	0.026	0.086	0.100	82.244%	82.588%
x		81.860%	-0.113	0.034	0.028	0.090	0.100	80.114%	80.692%
σ		1.958%	0.004	0.007	0.003	0.023	0.001	2.013%	1.897%
%RSD		2.391	3.887	20.320	11.580	25.380	1.318	2.513	2.351
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:02:28	0.011	0.011	0.034	0.034	0.037	78.043%		
2	11:03:11	0.018	0.022	0.038	0.046	0.041	80.453%		
3	11:03:53	0.009	0.009	0.031	0.028	0.031	83.319%		
x		0.013	0.014	0.034	0.036	0.037	80.605%		
σ		0.005	0.007	0.004	0.009	0.005	2.641%		
%RSD		37.280	49.260	10.850	25.280	13.700	3.277		

CRI 806392 4/28/2013 11:10:02 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	65.386%	0.855	4.797	4.228	0.000	116.800	97.360	96.150
2	11:11:28	65.604%	1.045	4.826	4.236	0.000	118.000	96.960	96.210
3	11:12:11	65.796%	1.142	4.538	4.280	0.000	118.200	98.290	95.670
x		65.595%	101.379%	94.405%	84.959%	0.000	117.670%	97.537%	96.008%
σ		0.205%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.312	14.400	3.359	0.651	0.000	0.658	0.699	0.308

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	36.630	530.400	0.000	72.000	105.000	98.230	56.789%	5.177
2	11:11:28	35.260	521.500	0.000	70.380	86.460	92.130	57.392%	4.955
3	11:12:11	35.770	520.300	0.000	70.220	96.820	99.600	57.096%	4.982
x		119.617%	104.813%	0.000	70.868%	96.108%	96.651%	57.093%	100.757%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.302%	n/a
%RSD		1.926	1.055	0.000	1.391	9.687	4.116	0.529	2.399

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	0.937	2.077	5.267	56.950	54.250	0.532	1.117	2.402
2	11:11:28	0.979	1.924	5.196	55.840	53.790	0.542	1.133	2.355
3	11:12:11	0.995	2.047	5.272	55.990	54.280	0.550	1.165	2.286
x		97.034%	100.809%	1049.007%	112.516%	108.214%	108.204%	113.825%	117.400%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.119	4.024	0.806	1.072	0.504	1.663	2.180	2.484

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	2.346	5.571	5.592	1.327	4.686	4.828	0.000	4.636
2	11:11:28	2.351	5.378	5.424	1.119	4.773	5.036	0.000	4.554
3	11:12:11	2.231	5.352	5.570	1.106	4.642	4.797	0.000	4.690
x		115.471%	108.669%	110.578%	118.381%	94.005%	97.742%	0.000	92.532%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.939	2.203	1.647	10.500	1.417	2.657	0.000	1.481

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	58.722%	4.608	4.386	65.486%	0.968	0.962	1.076	1.025
2	11:11:28	59.705%	4.717	4.606	65.987%	0.965	0.987	0.936	0.961
3	11:12:11	59.455%	4.682	4.518	65.727%	0.938	0.977	1.049	1.017
x		59.294%	93.384%	90.062%	65.733%	95.708%	97.516%	102.007%	100.111%
σ		0.511%	n/a	n/a	0.251%	n/a	n/a	n/a	n/a
%RSD		0.862	1.185	2.466	0.382	1.730	1.284	7.305	3.480

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	61.246%	4.480	1.913	1.885	9.751	9.628	64.744%	65.170%
2	11:11:28	62.776%	4.806	1.866	1.893	9.560	9.446	66.502%	67.111%
3	11:12:11	62.184%	4.827	1.797	1.941	9.791	9.857	66.976%	67.332%
x		62.069%	94.091%	92.939%	95.319%	97.007%	96.437%	66.074%	66.538%
σ		0.771%	n/a	n/a	n/a	n/a	n/a	1.176%	1.190%
%RSD		1.243	4.133	3.127	1.590	1.272	2.140	1.780	1.788

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	11:10:45	0.824	0.863	0.890	0.882	0.887	68.620%
2	11:11:28	0.883	0.870	0.864	0.863	0.877	70.876%
3	11:12:11	0.876	0.876	0.915	0.923	0.904	72.329%
x		86.113%	86.976%	88.969%	88.951%	88.919%	70.608%
σ		n/a	n/a	n/a	n/a	n/a	1.869%
%RSD		3.738	0.730	2.872	3.489	1.509	2.647

CRI 806392 4/28/2013 11:18:19 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:19:02	60.725%	1.006	4.879	4.921	0.000	126.500	104.400	103.100
2	11:19:46	60.518%	1.071	5.069	4.905	0.000	131.600	108.100	105.000
3	11:20:29	61.846%	1.082	5.000	4.351	0.000	127.300	102.900	103.300
x		61.030%	105.307%	99.659%	94.508%	0.000	128.439%	105.140%	103.785%
σ		0.715%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.171	3.867	1.931	6.864	0.000	2.159	2.535	1.017
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:19:02	38.540	566.300	0.000	79.350	104.200	105.400	53.091%	5.409
2	11:19:46	39.290	577.100	0.000	83.370	97.430	107.500	52.302%	5.776
3	11:20:29	37.520	551.700	0.000	79.760	134.000	105.900	53.300%	5.756
x		128.171%	113.007%	0.000	80.824%	111.904%	106.274%	52.898%	112.940%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.526%	n/a
%RSD		2.314	2.256	0.000	2.739	17.400	1.008	0.995	3.652
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:19:02	0.957	2.087	5.371	58.860	55.340	0.594	1.140	2.307
2	11:19:46	0.991	2.083	5.585	60.740	58.140	0.540	1.166	2.481
3	11:20:29	0.952	2.061	5.414	57.480	54.600	0.555	1.115	2.323
x		96.648%	103.850%	1091.305%	118.055%	112.054%	112.603%	114.035%	118.520%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.196	0.669	2.073	2.774	3.336	5.016	2.259	4.062
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:19:02	2.404	5.516	5.289	0.917	4.310	3.521	0.000	4.171
2	11:19:46	2.297	5.656	5.414	1.202	4.273	4.432	0.000	4.269
3	11:20:29	2.227	5.557	5.075	1.098	4.515	3.605	0.000	4.193
x		115.464%	111.529%	105.192%	107.268%	87.322%	77.048%	0.000	84.218%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.875	1.294	3.258	13.450	2.992	13.070	0.000	1.216
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:19:02	64.427%	4.281	4.096	64.907%	0.929	0.943	0.953	1.077
2	11:19:46	63.782%	4.599	4.544	63.831%	0.926	0.974	0.961	0.965
3	11:20:29	65.173%	4.564	4.350	64.918%	0.918	0.965	0.872	0.992
x		64.461%	89.626%	86.600%	64.552%	92.423%	96.056%	92.886%	101.118%
σ		0.696%	n/a	n/a	0.624%	n/a	n/a	n/a	n/a
%RSD		1.080	3.896	5.188	0.967	0.622	1.627	5.277	5.753
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:19:02	60.493%	4.691	1.816	1.899	9.682	9.677	64.061%	63.985%
2	11:19:46	59.943%	4.971	1.969	1.938	9.935	9.862	63.377%	64.109%
3	11:20:29	61.305%	4.793	1.869	1.844	9.734	9.481	65.583%	65.791%
x		60.580%	96.371%	94.241%	94.667%	97.839%	96.737%	64.340%	64.628%
σ		0.685%	n/a	n/a	n/a	n/a	n/a	1.129%	1.009%
%RSD		1.131	2.939	4.122	2.498	1.367	1.970	1.755	1.561
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:19:02	0.882	0.906	0.901	0.878	0.875	65.764%		
2	11:19:46	0.910	0.925	0.908	0.917	0.928	65.085%		
3	11:20:29	0.883	0.875	0.938	0.929	0.911	68.345%		
x		89.166%	90.211%	91.558%	90.812%	90.463%	66.398%		
σ		n/a	n/a	n/a	n/a	n/a	1.720%		
%RSD		1.793	2.805	2.128	2.980	2.992	2.590		

CCV 781130 4/28/2013 11:26:36 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:19	54.086%	106.100	99.640	102.100	0.000	50490.000	51010.000	50400.000
2	11:28:01	54.143%	104.000	100.700	100.900	0.000	50390.000	50580.000	50170.000
3	11:28:44	52.428%	106.000	103.000	102.600	0.000	50530.000	50620.000	50540.000
x		53.553%	105.344%	101.096%	101.864%	0.000	100.940%	101.470%	100.744%
σ		0.974%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.819	1.130	1.679	0.846	0.000	0.133	0.468	0.368
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:19	507.100	5493.000	0.000	49700.000	47800.000	48710.000	49.985%	102.100
2	11:28:01	502.300	5410.000	0.000	49690.000	47880.000	48800.000	48.271%	101.200
3	11:28:44	503.800	5420.000	0.000	50140.000	47660.000	49360.000	47.281%	101.200
x		100.878%	108.821%	0.000	99.691%	95.562%	97.914%	48.512%	101.505%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.368%	n/a
%RSD		0.492	0.836	0.000	0.510	0.237	0.715	2.820	0.476
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:19	102.000	101.800	472.700	25460.000	24520.000	104.000	107.000	107.500
2	11:28:01	101.100	101.400	473.200	25280.000	24440.000	103.700	107.100	106.300
3	11:28:44	100.700	101.500	478.800	25500.000	24460.000	103.800	106.100	106.600
x		101.235%	101.558%	94.981%	101.650%	97.909%	103.815%	106.720%	106.786%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.668	0.181	0.705	0.447	0.171	0.153	0.513	0.557
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:19	106.500	96.480	95.190	100.600	96.830	98.200	0.000	96.370
2	11:28:01	106.400	96.440	96.480	99.570	97.820	98.380	0.000	95.940
3	11:28:44	106.300	95.480	94.780	99.780	96.430	97.820	0.000	96.130
x		106.378%	96.134%	95.483%	99.985%	97.029%	98.136%	0.000	96.147%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.091	0.589	0.930	0.547	0.737	0.291	0.000	0.226
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:19	51.457%	99.740	98.140	54.706%	97.310	98.040	95.300	97.080
2	11:28:01	50.048%	102.900	101.100	52.679%	97.400	97.990	94.900	96.450
3	11:28:44	49.400%	103.300	101.900	51.567%	98.060	97.970	95.800	97.010
x		50.302%	101.968%	100.362%	52.984%	97.591%	98.002%	95.333%	96.846%
σ		1.052%	n/a	n/a	1.591%	n/a	n/a	n/a	n/a
%RSD		2.091	1.904	1.964	3.004	0.421	0.033	0.471	0.356
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:19	53.650%	97.450	94.480	93.630	101.100	98.830	58.796%	60.021%
2	11:28:01	52.604%	97.440	94.310	93.970	98.290	99.260	58.315%	59.438%
3	11:28:44	51.572%	97.450	94.360	94.420	98.630	99.150	58.266%	58.982%
x		52.609%	97.448%	94.385%	94.006%	99.344%	99.079%	58.459%	59.480%
σ		1.039%	n/a	n/a	n/a	n/a	n/a	0.293%	0.521%
%RSD		1.974	0.007	0.089	0.424	1.553	0.225	0.501	0.876
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:27:19	92.230	92.860	92.120	92.330	92.140	61.774%		
2	11:28:01	93.600	93.950	92.960	92.780	92.880	60.384%		
3	11:28:44	93.270	93.200	93.230	92.770	92.840	59.587%		
x		93.035%	93.337%	92.769%	92.627%	92.618%	60.582%		
σ		n/a	n/a	n/a	n/a	n/a	1.107%		
%RSD		0.764	0.596	0.624	0.279	0.452	1.827		

CCB10 4/28/2013 11:34:53 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	82.082%	0.019	-1.166	-1.396	0.000	18.640	6.716	7.381
2	11:36:19	84.130%	-0.000	-1.085	-1.447	0.000	18.460	7.782	7.298
3	11:37:02	84.556%	0.021	-0.838	-1.478	0.000	20.790	8.445	8.903
x		83.589%	0.013	-1.030	-1.440	0.000	19.300	7.648	7.861
σ		1.323%	0.012	0.171	0.041	0.000	1.299	0.872	0.903
%RSD		1.582	88.940	16.590	2.863	0.000	6.730	11.400	11.490

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	3.373	-2.523	0.000	-30.700	11.750	6.586	82.577%	0.054
2	11:36:19	3.252	-2.397	0.000	-30.580	8.908	7.157	84.068%	-0.056
3	11:37:02	3.959	-2.079	0.000	-29.170	10.820	7.371	85.350%	0.026
x		3.528	-2.333	0.000	-30.150	10.490	7.038	83.998%	0.008
σ		0.378	0.229	0.000	0.849	1.451	0.405	1.388%	0.057
%RSD		10.720	9.813	0.000	2.816	13.820	5.760	1.652	735.200

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	0.008	-0.042	1.179	2.120	6.264	0.014	0.005	0.033
2	11:36:19	-0.001	-0.020	1.184	1.798	5.756	0.016	-0.004	0.030
3	11:37:02	0.010	-0.008	1.414	3.426	7.824	0.022	0.005	0.029
x		0.006	-0.023	1.259	2.448	6.615	0.018	0.002	0.031
σ		0.006	0.017	0.134	0.863	1.078	0.004	0.005	0.002
%RSD		98.560	74.150	10.650	35.230	16.290	23.080	236.100	6.654

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	0.021	0.168	0.146	-0.636	-0.763	-2.266	0.000	0.060
2	11:36:19	-0.000	0.165	0.096	-0.379	-0.662	-1.503	0.000	0.056
3	11:37:02	0.029	0.208	0.152	-0.379	-0.664	-1.501	0.000	0.079
x		0.016	0.180	0.132	-0.465	-0.697	-1.757	0.000	0.065
σ		0.015	0.024	0.031	0.148	0.058	0.441	0.000	0.012
%RSD		92.380	13.370	23.270	31.950	8.259	25.130	0.000	18.250

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	73.905%	0.095	0.084	90.985%	-0.031	-0.032	-0.073	-0.045
2	11:36:19	76.324%	0.073	0.085	92.325%	-0.030	-0.030	-0.092	-0.059
3	11:37:02	77.731%	0.097	0.062	93.655%	-0.027	-0.032	-0.090	-0.050
x		75.986%	0.088	0.077	92.322%	-0.029	-0.032	-0.085	-0.051
σ		1.935%	0.014	0.013	1.335%	0.002	0.001	0.011	0.007
%RSD		2.547	15.260	17.100	1.446	7.467	3.436	12.410	14.370

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	84.090%	-0.086	0.031	0.035	0.042	0.075	83.329%	84.422%
2	11:36:19	86.685%	-0.086	0.028	0.049	0.073	0.086	86.061%	86.880%
3	11:37:02	87.946%	-0.099	0.048	0.035	0.088	0.100	88.009%	88.767%
x		86.240%	-0.090	0.036	0.040	0.068	0.087	85.800%	86.690%
σ		1.966%	0.007	0.011	0.008	0.023	0.012	2.351%	2.179%
%RSD		2.280	7.952	30.660	21.240	34.160	14.350	2.740	2.513

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	11:35:36	0.009	0.009	0.023	0.027	0.026	81.797%
2	11:36:19	0.008	0.009	0.024	0.028	0.025	85.177%
3	11:37:02	0.011	0.008	0.033	0.035	0.029	87.861%
x		0.009	0.009	0.027	0.030	0.027	84.945%
σ		0.001	0.000	0.006	0.004	0.002	3.039%
%RSD		13.430	5.064	21.140	13.130	7.440	3.577

240-22281-C-3-D MSD@10 4/28/2013 1:10:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	53.579%	5.551	89.630	92.090	0.000	4714.000	6616.000	6428.000
2	13:11:31	52.705%	5.492	91.350	94.440	0.000	4736.000	6726.000	6624.000
3	13:12:14	53.260%	5.314	90.860	91.840	0.000	4641.000	6501.000	6473.000
x		53.182%	5.452	90.610	92.790	0.000	4697.000	6614.000	6509.000
σ		0.442%	0.124	0.886	1.431	0.000	49.640	112.600	102.500
%RSD		0.832	2.265	0.977	1.543	0.000	1.057	1.702	1.575

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	11920.000	1983.000	0.000	5957.000	5370.000	5215.000	49.079%	178.400
2	13:11:31	11980.000	1979.000	0.000	5965.000	5450.000	5179.000	48.134%	176.500
3	13:12:14	11730.000	1962.000	0.000	5919.000	5379.000	5159.000	47.571%	172.600
x		11880.000	1975.000	0.000	5947.000	5399.000	5184.000	48.261%	175.800
σ		130.600	10.730	0.000	24.630	43.850	28.600	0.762%	2.976
%RSD		1.100	0.543	0.000	0.414	0.812	0.552	1.579	1.692

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	63.900	32.180	2391.000	21140.000	20200.000	55.760	66.860	36.860
2	13:11:31	65.330	32.810	2416.000	21450.000	20380.000	56.310	66.910	36.940
3	13:12:14	64.560	32.690	2401.000	21320.000	20360.000	56.000	66.690	36.540
x		64.600	32.560	2403.000	21300.000	20320.000	56.020	66.820	36.780
σ		0.716	0.334	12.500	155.500	97.100	0.275	0.116	0.212
%RSD		1.108	1.026	0.520	0.730	0.478	0.491	0.173	0.577

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	36.430	82.160	83.120	11.940	0.373	0.086	0.000	89.210
2	13:11:31	36.990	82.920	83.190	11.870	-0.004	-0.890	0.000	88.800
3	13:12:14	35.680	82.010	82.350	11.580	0.312	-0.773	0.000	88.040
x		36.370	82.370	82.890	11.800	0.227	-0.526	0.000	88.680
σ		0.657	0.486	0.471	0.194	0.203	0.533	0.000	0.594
%RSD		1.807	0.590	0.568	1.641	89.240	101.400	0.000	0.670

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	55.677%	79.110	79.480	54.028%	3.698	3.670	4.561	4.332
2	13:11:31	55.291%	80.440	80.860	53.348%	3.973	3.915	4.444	4.428
3	13:12:14	55.016%	79.290	81.200	53.330%	4.043	4.120	4.635	4.403
x		55.328%	79.610	80.510	53.569%	3.904	3.901	4.547	4.388
σ		0.332%	0.724	0.906	0.398%	0.183	0.226	0.096	0.050
%RSD		0.600	0.909	1.125	0.743	4.675	5.783	2.115	1.139

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	53.526%	80.820	19.130	19.200	274.800	274.900	59.264%	60.002%
2	13:11:31	52.280%	83.440	19.300	19.620	280.000	278.600	58.489%	59.086%
3	13:12:14	52.324%	82.610	19.110	18.680	270.300	270.500	59.088%	59.232%
x		52.710%	82.290	19.180	19.170	275.000	274.700	58.947%	59.440%
σ		0.707%	1.341	0.102	0.470	4.847	4.039	0.407%	0.492%
%RSD		1.342	1.630	0.530	2.452	1.762	1.470	0.690	0.828

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:10:48	3.999	4.009	9.967	9.964	9.865	64.994%
2	13:11:31	4.075	4.145	10.250	10.160	10.150	63.080%
3	13:12:14	4.090	4.115	10.210	10.120	10.140	62.445%
x		4.055	4.090	10.140	10.080	10.050	63.506%
σ		0.049	0.071	0.154	0.105	0.161	1.327%
%RSD		1.198	1.744	1.515	1.039	1.599	2.089

240-22281-C-6-A@10 4/28/2013 1:18:22 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	53.760%	0.172	1.168	0.751	0.000	84.780	509.700	505.100
2	13:19:48	54.620%	0.155	0.648	0.578	0.000	84.410	510.400	508.600
3	13:20:30	54.800%	0.117	0.766	0.258	0.000	85.330	498.000	502.000
x		54.393%	0.148	0.861	0.529	0.000	84.840	506.100	505.200
σ		0.556%	0.028	0.273	0.250	0.000	0.460	6.976	3.301
%RSD		1.022	19.140	31.660	47.290	0.000	0.542	1.379	0.653

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	1973.000	491.100	0.000	309.500	477.700	510.200	49.744%	25.120
2	13:19:48	1964.000	480.400	0.000	311.000	522.100	509.300	49.579%	22.660
3	13:20:30	1942.000	484.900	0.000	311.600	551.400	506.000	49.804%	23.300
x		1960.000	485.400	0.000	310.700	517.100	508.500	49.709%	23.690
σ		15.760	5.385	0.000	1.083	37.100	2.200	0.116%	1.277
%RSD		0.804	1.109	0.000	0.349	7.174	0.433	0.234	5.389

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	4.757	7.625	2368.000	6186.000	5851.000	4.894	12.990	4.254
2	13:19:48	4.569	7.472	2364.000	6170.000	5822.000	4.826	12.840	4.269
3	13:20:30	4.778	7.395	2365.000	6110.000	5833.000	4.594	12.470	4.307
x		4.701	7.497	2366.000	6155.000	5835.000	4.771	12.770	4.277
σ		0.115	0.117	1.782	40.050	14.260	0.157	0.265	0.027
%RSD		2.440	1.562	0.075	0.651	0.244	3.299	2.077	0.637

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	4.317	22.360	22.710	4.904	-0.380	-0.928	0.000	2.978
2	13:19:48	4.313	22.160	21.980	4.883	-0.534	-1.091	0.000	2.988
3	13:20:30	4.096	21.790	21.920	4.944	-0.494	-0.810	0.000	2.988
x		4.242	22.110	22.200	4.910	-0.469	-0.943	0.000	2.985
σ		0.127	0.290	0.441	0.031	0.080	0.141	0.000	0.006
%RSD		2.981	1.312	1.984	0.631	16.980	14.970	0.000	0.198

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	52.658%	1.423	1.385	56.829%	-0.003	-0.001	-0.038	-0.024
2	13:19:48	52.813%	1.522	1.448	57.211%	0.015	0.007	0.021	0.048
3	13:20:30	53.215%	1.407	1.400	57.213%	0.011	0.001	0.006	0.030
x		52.895%	1.451	1.411	57.085%	0.008	0.002	-0.004	0.018
σ		0.288%	0.062	0.033	0.221%	0.010	0.004	0.031	0.038
%RSD		0.544	4.291	2.341	0.388	125.800	191.400	864.200	208.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	54.193%	0.492	0.050	0.046	30.680	30.080	57.476%	58.184%
2	13:19:48	54.057%	0.485	0.047	0.057	30.070	29.860	58.836%	58.992%
3	13:20:30	54.275%	0.385	0.037	0.070	29.470	29.730	59.374%	59.223%
x		54.175%	0.454	0.045	0.058	30.070	29.890	58.562%	58.800%
σ		0.110%	0.060	0.006	0.012	0.603	0.178	0.978%	0.546%
%RSD		0.203	13.220	14.510	21.410	2.006	0.596	1.670	0.928

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:05	0.051	0.051	2.988	2.969	2.976	60.062%
2	13:19:48	0.050	0.050	3.141	3.035	3.054	60.063%
3	13:20:30	0.050	0.047	3.093	3.048	3.100	61.335%
x		0.050	0.049	3.074	3.017	3.043	60.487%
σ		0.001	0.002	0.078	0.043	0.063	0.735%
%RSD		1.183	4.331	2.551	1.410	2.062	1.215

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	54.576%	0.287	0.713	0.489	0.000	45.710	873.500	870.400
2	13:28:05	55.767%	0.300	0.693	0.420	0.000	45.410	874.800	862.200
3	13:28:48	55.126%	0.322	0.477	0.246	0.000	46.770	878.500	870.300
x		55.156%	0.303	0.628	0.385	0.000	45.960	875.600	867.600
σ		0.596%	0.018	0.131	0.125	0.000	0.717	2.607	4.699
%RSD		1.080	5.850	20.920	32.580	0.000	1.560	0.298	0.542

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	4560.000	554.400	0.000	492.600	143.700	152.400	50.840%	48.160
2	13:28:05	4523.000	548.100	0.000	493.800	143.300	155.600	51.244%	47.730
3	13:28:48	4565.000	544.100	0.000	503.300	173.400	156.100	50.425%	48.540
x		4549.000	548.800	0.000	496.600	153.400	154.700	50.836%	48.140
σ		22.560	5.200	0.000	5.866	17.260	1.993	0.410%	0.403
%RSD		0.496	0.948	0.000	1.181	11.250	1.288	0.806	0.836

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	7.939	7.298	139.100	11030.000	10520.000	3.907	11.510	7.070
2	13:28:05	7.809	7.310	140.100	11020.000	10530.000	3.958	11.020	7.132
3	13:28:48	7.945	7.394	142.800	11110.000	10630.000	4.073	11.300	6.996
x		7.898	7.334	140.700	11050.000	10560.000	3.980	11.270	7.066
σ		0.077	0.053	1.944	51.100	57.830	0.085	0.246	0.068
%RSD		0.973	0.717	1.382	0.462	0.548	2.136	2.183	0.964

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	7.011	26.190	26.580	13.910	-0.397	-0.671	0.000	1.569
2	13:28:05	7.209	25.850	26.320	13.570	-0.399	-1.002	0.000	1.608
3	13:28:48	6.978	26.130	26.620	13.470	-0.295	-1.142	0.000	1.619
x		7.066	26.060	26.510	13.650	-0.363	-0.939	0.000	1.599
σ		0.125	0.182	0.166	0.233	0.059	0.242	0.000	0.026
%RSD		1.765	0.699	0.624	1.708	16.310	25.750	0.000	1.633

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	54.791%	0.702	0.731	58.197%	-0.002	0.000	-0.007	0.012
2	13:28:05	55.291%	0.674	0.728	58.029%	-0.006	-0.012	0.031	0.040
3	13:28:48	54.888%	0.717	0.711	57.638%	-0.008	-0.004	-0.024	-0.002
x		54.990%	0.698	0.723	57.955%	-0.005	-0.005	-0.000	0.016
σ		0.265%	0.022	0.011	0.287%	0.003	0.007	0.028	0.021
%RSD		0.482	3.110	1.529	0.495	63.370	126.700	5930.000	130.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	55.317%	0.119	0.019	0.020	21.150	20.970	60.849%	61.069%
2	13:28:05	55.632%	0.073	0.010	0.006	20.950	21.250	61.098%	61.620%
3	13:28:48	56.100%	0.086	0.009	0.022	21.160	21.210	61.258%	61.441%
x		55.683%	0.093	0.013	0.016	21.090	21.140	61.068%	61.377%
σ		0.394%	0.024	0.006	0.009	0.115	0.153	0.206%	0.281%
%RSD		0.707	25.540	44.420	54.940	0.545	0.723	0.338	0.458

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:21	0.099	0.093	4.546	4.503	4.523	67.190%
2	13:28:05	0.095	0.091	4.680	4.570	4.626	67.558%
3	13:28:48	0.100	0.093	4.762	4.650	4.656	67.049%
x		0.098	0.092	4.662	4.574	4.602	67.266%
σ		0.003	0.001	0.109	0.073	0.069	0.263%
%RSD		2.715	0.852	2.338	1.607	1.508	0.390

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:39	55.571%	2.045	11.360	11.140	0.000	328.500	12120.000	12070.000
2	13:36:22	56.918%	2.038	11.480	10.880	0.000	319.500	11840.000	11790.000
3	13:37:05	56.578%	2.280	12.000	11.020	0.000	325.800	12060.000	12010.000
x		56.355%	2.121	11.620	11.010	0.000	324.600	12010.000	11960.000
σ		0.700%	0.138	0.338	0.130	0.000	4.608	148.700	148.100
%RSD		1.243	6.484	2.910	1.179	0.000	1.419	1.239	1.239
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:39	9800.000	2329.000	0.000	620.300	45090.000	46500.000	51.156%	187.300
2	13:36:22	9472.000	2230.000	0.000	609.300	44800.000	45550.000	52.170%	182.200
3	13:37:05	9692.000	2319.000	0.000	625.000	46260.000	46560.000	51.637%	186.500
x		9654.000	2293.000	0.000	618.200	45380.000	46200.000	51.655%	185.300
σ		167.200	54.820	0.000	8.074	772.300	564.700	0.507%	2.736
%RSD		1.732	2.391	0.000	1.306	1.702	1.222	0.982	1.476
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:39	7.006	48.350	3953.000	7078.000	6819.000	3.327	12.140	14.190
2	13:36:22	6.914	47.310	3852.000	6975.000	6717.000	3.171	11.650	13.520
3	13:37:05	7.018	48.000	3947.000	7133.000	6855.000	3.264	11.680	13.990
x		6.979	47.890	3917.000	7062.000	6797.000	3.254	11.820	13.900
σ		0.057	0.526	56.920	80.000	71.960	0.079	0.276	0.344
%RSD		0.813	1.099	1.453	1.133	1.059	2.416	2.333	2.473
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:39	14.600	38.500	38.360	13.130	0.250	-0.077	0.000	238.900
2	13:36:22	13.770	37.890	37.840	12.980	0.368	-0.169	0.000	235.200
3	13:37:05	14.020	39.330	39.290	13.230	0.516	0.170	0.000	243.100
x		14.130	38.570	38.500	13.120	0.378	-0.025	0.000	239.100
σ		0.425	0.721	0.737	0.127	0.134	0.176	0.000	3.958
%RSD		3.005	1.870	1.915	0.968	35.350	694.500	0.000	1.655
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:39	55.861%	1.486	1.402	57.567%	0.064	0.039	0.237	0.214
2	13:36:22	57.161%	1.398	1.393	58.505%	0.043	0.039	0.162	0.159
3	13:37:05	56.790%	1.405	1.584	58.190%	0.042	0.028	0.291	0.225
x		56.604%	1.429	1.460	58.087%	0.050	0.036	0.230	0.200
σ		0.670%	0.049	0.108	0.477%	0.013	0.006	0.065	0.035
%RSD		1.183	3.415	7.375	0.822	25.390	17.640	28.180	17.740
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:39	55.177%	0.245	0.047	0.067	108.500	109.200	58.606%	59.784%
2	13:36:22	56.573%	0.256	0.046	0.063	107.800	107.700	60.902%	61.674%
3	13:37:05	56.254%	0.292	0.048	0.049	109.000	110.900	61.291%	62.021%
x		56.001%	0.264	0.047	0.059	108.400	109.300	60.267%	61.159%
σ		0.731%	0.025	0.001	0.010	0.616	1.604	1.451%	1.204%
%RSD		1.306	9.290	2.632	16.300	0.568	1.467	2.407	1.968
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:35:39	0.042	0.043	146.700	146.400	146.400	61.591%		
2	13:36:22	0.045	0.041	147.000	146.600	146.700	63.906%		
3	13:37:05	0.043	0.048	149.400	149.000	148.700	65.039%		
x		0.043	0.044	147.700	147.300	147.300	63.512%		
σ		0.002	0.003	1.502	1.425	1.294	1.757%		
%RSD		3.685	7.791	1.017	0.968	0.879	2.767		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:56	60.210%	0.610	2.942	2.244	0.000	128.100	2844.000	2799.000
2	13:44:39	61.119%	0.656	2.378	2.304	0.000	127.800	2824.000	2795.000
3	13:45:23	61.399%	0.561	2.788	2.172	0.000	127.600	2788.000	2769.000
x		60.910%	0.609	2.703	2.240	0.000	127.800	2819.000	2788.000
σ		0.622%	0.048	0.292	0.066	0.000	0.264	28.510	16.300
%RSD		1.021	7.836	10.790	2.959	0.000	0.206	1.011	0.585
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:56	1869.000	429.900	0.000	205.400	9846.000	9349.000	57.123%	31.400
2	13:44:39	1868.000	425.900	0.000	207.200	9920.000	9352.000	56.827%	31.060
3	13:45:23	1830.000	416.500	0.000	203.100	9713.000	9276.000	56.874%	31.390
x		1856.000	424.100	0.000	205.200	9826.000	9326.000	56.942%	31.280
σ		21.860	6.873	0.000	2.044	104.500	43.160	0.159%	0.192
%RSD		1.178	1.621	0.000	0.996	1.063	0.463	0.279	0.614
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:56	1.159	1.559	3926.000	517.800	541.100	0.441	1.129	10.230
2	13:44:39	1.136	1.528	3923.000	517.400	532.800	0.405	0.947	10.380
3	13:45:23	1.169	1.518	3907.000	510.300	531.600	0.414	0.934	10.380
x		1.155	1.535	3919.000	515.100	535.200	0.420	1.003	10.330
σ		0.017	0.021	10.380	4.232	5.209	0.019	0.109	0.085
%RSD		1.455	1.387	0.265	0.822	0.973	4.548	10.890	0.819
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:56	10.420	8.098	8.505	12.090	-0.161	-0.389	0.000	440.900
2	13:44:39	10.580	8.069	8.278	12.470	-0.111	-0.283	0.000	443.200
3	13:45:23	10.430	8.171	8.064	11.930	-0.139	-0.625	0.000	481.800
x		10.480	8.113	8.282	12.160	-0.137	-0.433	0.000	455.300
σ		0.088	0.053	0.220	0.280	0.025	0.175	0.000	22.980
%RSD		0.843	0.649	2.660	2.303	18.210	40.430	0.000	5.047
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:56	59.662%	1.091	1.059	65.161%	-0.019	-0.021	0.022	0.032
2	13:44:39	59.608%	1.078	1.116	64.404%	-0.025	-0.027	0.098	0.075
3	13:45:23	59.893%	1.062	1.015	65.129%	-0.016	-0.024	-0.003	0.010
x		59.721%	1.077	1.063	64.898%	-0.020	-0.024	0.039	0.039
σ		0.152%	0.014	0.051	0.428%	0.005	0.003	0.053	0.033
%RSD		0.254	1.332	4.763	0.660	23.430	11.270	135.600	85.450
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:43:56	61.075%	-0.055	-0.015	-0.016	33.240	33.030	64.426%	64.740%
2	13:44:39	61.136%	-0.055	-0.016	-0.014	33.300	33.470	63.777%	64.466%
3	13:45:23	61.139%	-0.058	-0.012	-0.015	32.920	32.920	64.007%	63.937%
x		61.117%	-0.056	-0.015	-0.015	33.150	33.140	64.070%	64.381%
σ		0.036%	0.002	0.002	0.001	0.202	0.294	0.329%	0.408%
%RSD		0.059	3.113	13.660	5.582	0.609	0.887	0.513	0.634
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:43:56	0.002	0.000	36.410	37.010	36.980	69.787%		
2	13:44:39	0.006	0.001	36.180	37.050	36.970	65.705%		
3	13:45:23	0.001	0.004	35.930	36.630	36.620	63.090%		
x		0.003	0.002	36.180	36.890	36.860	66.194%		
σ		0.003	0.002	0.243	0.234	0.202	3.375%		
%RSD		97.890	121.900	0.671	0.633	0.548	5.098		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	64.278%	0.149	2.195	1.927	0.000	140.900	951.700	942.200
2	13:53:01	64.560%	0.192	2.903	1.964	0.000	143.000	954.700	947.100
3	13:53:44	64.450%	0.236	2.636	1.893	0.000	140.800	945.700	940.200
x		64.429%	0.192	2.578	1.928	0.000	141.600	950.700	943.200
σ		0.142%	0.044	0.357	0.035	0.000	1.214	4.599	3.534
%RSD		0.221	22.810	13.870	1.836	0.000	0.857	0.484	0.375

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	2383.000	697.300	0.000	462.500	1568.000	1468.000	62.193%	34.450
2	13:53:01	2373.000	699.200	0.000	467.800	1631.000	1465.000	61.546%	34.260
3	13:53:44	2355.000	694.400	0.000	456.400	1633.000	1460.000	61.372%	34.080
x		2370.000	696.900	0.000	462.200	1611.000	1464.000	61.703%	34.270
σ		14.030	2.424	0.000	5.704	36.920	3.876	0.433%	0.187
%RSD		0.592	0.348	0.000	1.234	2.292	0.265	0.702	0.544

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	5.206	4.656	5004.000	6389.000	6128.000	2.776	7.745	20.600
2	13:53:01	5.206	4.815	5066.000	6468.000	6213.000	2.884	7.395	20.690
3	13:53:44	5.117	4.684	5002.000	6398.000	6123.000	2.782	7.642	20.240
x		5.176	4.719	5024.000	6418.000	6155.000	2.814	7.594	20.510
σ		0.052	0.085	36.390	43.120	50.500	0.061	0.180	0.235
%RSD		0.997	1.793	0.724	0.672	0.821	2.157	2.368	1.148

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	20.270	19.080	19.530	32.420	-0.375	-0.402	0.000	480.500
2	13:53:01	20.450	19.150	19.640	32.970	-0.345	-0.927	0.000	484.500
3	13:53:44	19.960	19.100	18.780	32.830	-0.378	-0.408	0.000	476.100
x		20.230	19.110	19.320	32.740	-0.366	-0.579	0.000	480.400
σ		0.244	0.041	0.470	0.284	0.018	0.301	0.000	4.163
%RSD		1.207	0.215	2.432	0.866	4.900	52.040	0.000	0.867

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	64.437%	6.319	6.217	70.320%	-0.020	-0.023	0.033	0.032
2	13:53:01	64.431%	6.371	6.414	70.229%	-0.011	-0.023	0.050	0.036
3	13:53:44	64.334%	6.534	6.531	69.390%	-0.010	-0.012	0.011	0.015
x		64.401%	6.408	6.387	69.980%	-0.014	-0.019	0.031	0.028
σ		0.058%	0.112	0.159	0.513%	0.006	0.006	0.020	0.011
%RSD		0.090	1.753	2.487	0.733	41.800	33.630	62.970	40.940

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	65.912%	0.054	0.019	0.014	39.820	40.210	68.693%	69.218%
2	13:53:01	65.430%	0.070	0.025	0.018	40.120	40.410	69.113%	69.426%
3	13:53:44	65.272%	0.061	0.017	0.018	39.780	40.140	68.775%	69.635%
x		65.538%	0.062	0.020	0.017	39.910	40.260	68.860%	69.426%
σ		0.333%	0.008	0.004	0.002	0.185	0.138	0.222%	0.208%
%RSD		0.509	13.470	21.790	11.940	0.465	0.342	0.323	0.300

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:52:17	0.043	0.042	125.300	128.800	128.900	74.684%
2	13:53:01	0.037	0.037	128.000	131.900	131.100	74.276%
3	13:53:44	0.042	0.041	127.600	130.800	130.300	74.282%
x		0.040	0.040	127.000	130.500	130.100	74.414%
σ		0.003	0.003	1.430	1.543	1.141	0.234%
%RSD		7.449	6.905	1.126	1.183	0.877	0.314

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	56.284%	0.462	10.030	10.060	0.000	706.800	2463.000	2446.000
2	14:01:21	55.468%	0.554	11.090	9.592	0.000	706.800	2449.000	2439.000
3	14:02:04	54.799%	0.514	10.680	10.080	0.000	699.400	2455.000	2416.000
x		55.517%	0.510	10.600	9.909	0.000	704.300	2456.000	2434.000
σ		0.743%	0.046	0.532	0.275	0.000	4.310	6.851	15.940
%RSD		1.339	9.028	5.017	2.777	0.000	0.612	0.279	0.655

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	8864.000	461.000	0.000	1921.000	759.600	591.900	51.608%	75.280
2	14:01:21	8790.000	451.400	0.000	1924.000	716.700	578.000	49.888%	77.410
3	14:02:04	8704.000	450.500	0.000	1926.000	655.900	586.500	49.316%	78.310
x		8786.000	454.300	0.000	1924.000	710.700	585.500	50.271%	77.000
σ		79.940	5.815	0.000	2.478	52.090	7.026	1.193%	1.552
%RSD		0.910	1.280	0.000	0.129	7.329	1.200	2.373	2.015

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	14.110	13.180	5566.000	17700.000	16770.000	7.739	20.590	31.310
2	14:01:21	14.170	13.210	5616.000	17850.000	17010.000	7.939	21.080	31.250
3	14:02:04	13.810	13.040	5613.000	17730.000	16960.000	7.841	20.880	31.220
x		14.030	13.140	5598.000	17760.000	16910.000	7.840	20.850	31.260
σ		0.192	0.092	27.620	77.850	126.000	0.100	0.243	0.049
%RSD		1.371	0.698	0.493	0.438	0.745	1.278	1.164	0.156

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	31.580	44.790	44.520	37.640	-0.444	-0.690	0.000	476.200
2	14:01:21	31.150	45.730	44.220	37.880	-0.298	-0.622	0.000	478.300
3	14:02:04	30.810	43.900	45.630	37.650	-0.271	-0.620	0.000	479.200
x		31.180	44.810	44.790	37.720	-0.338	-0.644	0.000	477.900
σ		0.383	0.917	0.744	0.136	0.093	0.040	0.000	1.548
%RSD		1.228	2.047	1.661	0.361	27.500	6.233	0.000	0.324

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	56.250%	27.310	26.650	58.521%	0.011	-0.002	0.129	0.102
2	14:01:21	55.211%	27.610	26.960	56.856%	0.009	0.002	0.133	0.083
3	14:02:04	54.187%	27.690	27.200	55.895%	0.007	-0.005	0.074	0.051
x		55.216%	27.540	26.940	57.091%	0.009	-0.001	0.112	0.079
σ		1.031%	0.197	0.276	1.329%	0.002	0.004	0.033	0.026
%RSD		1.868	0.715	1.025	2.327	23.880	268.600	29.570	32.490

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	55.240%	0.103	0.004	-0.004	90.460	89.150	58.694%	59.294%
2	14:01:21	54.160%	0.101	-0.010	0.001	89.840	89.810	58.666%	58.960%
3	14:02:04	53.646%	0.060	0.004	0.010	90.600	89.530	58.182%	58.923%
x		54.349%	0.088	-0.001	0.002	90.300	89.500	58.514%	59.059%
σ		0.814%	0.024	0.008	0.007	0.401	0.331	0.288%	0.205%
%RSD		1.497	27.770	1443.000	304.700	0.444	0.370	0.492	0.347

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:38	0.099	0.096	148.600	152.200	152.100	58.982%
2	14:01:21	0.091	0.100	150.800	153.600	153.700	58.652%
3	14:02:04	0.105	0.101	152.000	155.100	155.200	58.256%
x		0.098	0.099	150.400	153.600	153.700	58.630%
σ		0.007	0.003	1.709	1.474	1.530	0.363%
%RSD		7.018	2.660	1.136	0.960	0.996	0.619

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:12	56.370%	0.406	-0.118	-0.483	0.000	276.300	1474.000	1447.000
2	14:18:55	56.033%	0.543	-0.670	-0.507	0.000	276.500	1445.000	1439.000
3	14:19:38	55.030%	0.553	-0.355	-0.570	0.000	274.400	1427.000	1423.000
x		55.811%	0.500	-0.381	-0.520	0.000	275.800	1449.000	1436.000
σ		0.697%	0.082	0.277	0.045	0.000	1.169	23.890	12.250
%RSD		1.249	16.410	72.620	8.672	0.000	0.424	1.649	0.853
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:12	9827.000	581.000	0.000	554.700	665.600	589.300	52.763%	126.800
2	14:18:55	9691.000	570.100	0.000	549.300	636.800	591.000	51.605%	126.200
3	14:19:38	9589.000	562.200	0.000	544.600	617.500	579.400	50.737%	122.900
x		9702.000	571.100	0.000	549.500	640.000	586.500	51.701%	125.300
σ		119.400	9.433	0.000	5.053	24.200	6.262	1.017%	2.072
%RSD		1.231	1.652	0.000	0.920	3.781	1.068	1.966	1.653
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:12	18.750	11.230	16650.000	17540.000	16780.000	5.231	13.010	16.960
2	14:18:55	18.220	10.930	16620.000	17630.000	16790.000	5.236	12.990	16.730
3	14:19:38	18.230	10.950	16480.000	17390.000	16640.000	5.130	12.140	16.320
x		18.400	11.040	16580.000	17520.000	16740.000	5.199	12.710	16.670
σ		0.305	0.170	87.250	119.500	84.430	0.060	0.499	0.322
%RSD		1.656	1.542	0.526	0.682	0.504	1.155	3.922	1.932
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:12	17.170	29.520	29.700	7.643	-0.227	-0.528	0.000	19.010
2	14:18:55	16.920	28.810	29.910	7.670	-0.022	-0.399	0.000	18.960
3	14:19:38	17.050	28.120	28.850	7.618	-0.025	-0.676	0.000	18.580
x		17.050	28.810	29.490	7.644	-0.092	-0.534	0.000	18.850
σ		0.127	0.700	0.559	0.026	0.118	0.139	0.000	0.237
%RSD		0.744	2.428	1.895	0.335	128.400	25.920	0.000	1.255
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:12	56.535%	0.760	0.862	59.448%	-0.006	-0.006	0.102	0.095
2	14:18:55	55.761%	0.923	0.903	58.551%	-0.007	-0.006	0.118	0.090
3	14:19:38	54.782%	0.972	0.856	57.630%	-0.000	-0.005	0.063	0.056
x		55.693%	0.885	0.874	58.543%	-0.005	-0.006	0.094	0.080
σ		0.879%	0.111	0.026	0.909%	0.004	0.001	0.028	0.021
%RSD		1.578	12.520	2.967	1.553	83.520	10.650	29.730	26.760
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:12	56.235%	0.040	0.010	0.008	855.700	856.400	60.638%	60.965%
2	14:18:55	55.955%	0.051	0.007	0.010	842.200	845.500	60.896%	61.415%
3	14:19:38	55.760%	0.030	0.011	0.008	821.600	831.100	60.128%	60.842%
x		55.984%	0.041	0.009	0.009	839.800	844.300	60.554%	61.074%
σ		0.239%	0.010	0.002	0.001	17.210	12.680	0.391%	0.301%
%RSD		0.427	24.860	25.060	15.090	2.049	1.502	0.645	0.493
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:18:12	0.101	0.099	8.954	8.686	8.743	66.436%		
2	14:18:55	0.105	0.106	8.944	8.586	8.729	65.916%		
3	14:19:38	0.092	0.101	8.823	8.589	8.632	65.757%		
x		0.099	0.102	8.907	8.620	8.701	66.036%		
σ		0.006	0.003	0.073	0.057	0.061	0.355%		
%RSD		6.531	3.106	0.822	0.659	0.697	0.537		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	50.811%	0.240	-1.127	-1.472	0.000	358.600	99.080	97.470
2	14:27:11	50.592%	0.200	-1.137	-1.635	0.000	358.300	96.340	95.810
3	14:27:54	51.348%	0.232	-1.246	-1.688	0.000	351.200	94.900	94.890
x		50.917%	0.224	-1.170	-1.598	0.000	356.100	96.770	96.060
σ		0.389%	0.021	0.066	0.113	0.000	4.165	2.122	1.306
%RSD		0.764	9.486	5.633	7.058	0.000	1.170	2.193	1.360

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	626.800	82.310	0.000	332.800	262.700	227.400	44.371%	15.300
2	14:27:11	622.500	82.680	0.000	325.900	248.300	226.600	44.310%	15.660
3	14:27:54	613.500	81.200	0.000	329.000	228.600	219.700	44.467%	16.480
x		620.900	82.060	0.000	329.200	246.500	224.600	44.383%	15.810
σ		6.780	0.772	0.000	3.477	17.090	4.241	0.079%	0.606
%RSD		1.092	0.941	0.000	1.056	6.931	1.888	0.179	3.834

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	2.347	1.342	26500.000	1862.000	1773.000	4.502	5.968	10.630
2	14:27:11	2.217	1.360	26600.000	1867.000	1769.000	4.385	5.955	10.500
3	14:27:54	2.227	1.273	26160.000	1838.000	1744.000	4.277	5.876	10.300
x		2.263	1.325	26420.000	1856.000	1762.000	4.388	5.933	10.480
σ		0.072	0.046	233.400	15.410	15.810	0.113	0.050	0.165
%RSD		3.196	3.481	0.883	0.830	0.898	2.564	0.838	1.576

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	10.960	5.659	5.263	2.200	-0.582	-0.817	0.000	72.400
2	14:27:11	10.490	5.725	5.940	1.945	-0.538	-0.837	0.000	72.810
3	14:27:54	10.270	5.710	5.501	2.104	-0.492	-0.568	0.000	72.220
x		10.570	5.698	5.568	2.083	-0.537	-0.741	0.000	72.470
σ		0.348	0.035	0.343	0.129	0.045	0.150	0.000	0.301
%RSD		3.295	0.611	6.164	6.180	8.382	20.260	0.000	0.416

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	46.832%	0.165	0.132	45.207%	-0.021	-0.025	0.091	0.064
2	14:27:11	46.778%	0.198	0.120	50.486%	-0.026	-0.037	0.103	0.077
3	14:27:54	46.977%	0.179	0.137	50.287%	-0.024	-0.032	0.088	0.074
x		46.863%	0.181	0.129	48.660%	-0.024	-0.031	0.094	0.072
σ		0.103%	0.017	0.009	2.992%	0.003	0.006	0.008	0.007
%RSD		0.220	9.200	6.881	6.149	11.090	18.580	8.365	9.511

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	48.231%	0.047	0.034	0.022	1037.000	1037.000	52.463%	53.131%
2	14:27:11	48.592%	0.027	0.032	0.039	1035.000	1044.000	52.756%	53.064%
3	14:27:54	48.725%	0.017	0.046	0.028	1032.000	1031.000	53.352%	53.612%
x		48.516%	0.030	0.037	0.030	1035.000	1037.000	52.857%	53.269%
σ		0.256%	0.015	0.007	0.009	2.615	6.784	0.453%	0.299%
%RSD		0.527	50.320	19.640	29.350	0.253	0.654	0.857	0.562

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:26:28	0.057	0.059	1.478	1.537	1.484	52.879%
2	14:27:11	0.066	0.060	1.520	1.530	1.493	52.996%
3	14:27:54	0.066	0.062	1.458	1.498	1.455	53.627%
x		0.063	0.061	1.485	1.522	1.477	53.167%
σ		0.005	0.001	0.031	0.021	0.020	0.403%
%RSD		8.674	1.917	2.104	1.364	1.331	0.757

240-22281-C-28-A@10 4/28/2013 2:34:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	51.248%	0.252	3.444	2.747	0.000	193.600	1671.000	1652.000
2	14:35:32	52.121%	0.302	3.242	2.871	0.000	193.200	1659.000	1628.000
3	14:36:20	54.444%	0.308	3.604	2.761	0.000	191.800	1622.000	1605.000
x		52.605%	0.287	3.430	2.793	0.000	192.900	1651.000	1628.000
σ		1.652%	0.031	0.181	0.068	0.000	0.956	25.130	23.380
%RSD		3.140	10.630	5.290	2.443	0.000	0.496	1.523	1.436

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	3947.000	772.800	0.000	758.600	2888.000	2892.000	45.962%	46.970
2	14:35:32	3913.000	759.300	0.000	743.700	3043.000	2836.000	47.821%	48.570
3	14:36:20	3865.000	751.700	0.000	740.800	2993.000	2841.000	48.738%	45.840
x		3908.000	761.300	0.000	747.700	2974.000	2856.000	47.507%	47.130
σ		41.100	10.670	0.000	9.542	78.790	31.330	1.414%	1.372
%RSD		1.051	1.402	0.000	1.276	2.649	1.097	2.977	2.911

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	7.198	7.422	5125.000	8175.000	7872.000	3.145	9.075	20.010
2	14:35:32	7.242	7.209	5057.000	8103.000	7737.000	3.122	9.466	19.470
3	14:36:20	7.352	7.408	5050.000	8053.000	7683.000	3.119	9.189	19.380
x		7.264	7.346	5077.000	8110.000	7764.000	3.129	9.243	19.620
σ		0.080	0.119	41.320	61.320	97.330	0.014	0.201	0.341
%RSD		1.095	1.621	0.814	0.756	1.254	0.460	2.177	1.735

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	19.420	25.590	26.190	49.320	-0.274	-1.126	0.000	454.300
2	14:35:32	19.050	25.340	26.350	48.390	-0.487	-1.018	0.000	453.500
3	14:36:20	18.940	25.160	26.170	48.290	-0.355	-0.697	0.000	451.500
x		19.140	25.370	26.240	48.660	-0.372	-0.947	0.000	453.100
σ		0.249	0.215	0.100	0.566	0.108	0.223	0.000	1.449
%RSD		1.303	0.846	0.380	1.162	29.010	23.520	0.000	0.320

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	49.423%	6.742	6.463	51.931%	-0.011	-0.027	0.019	0.001
2	14:35:32	50.929%	6.758	6.544	53.918%	-0.011	-0.028	0.011	0.019
3	14:36:20	52.237%	6.726	6.571	55.517%	-0.017	-0.014	0.030	0.024
x		50.863%	6.742	6.526	53.789%	-0.013	-0.023	0.020	0.014
σ		1.408%	0.016	0.056	1.796%	0.003	0.008	0.009	0.012
%RSD		2.768	0.234	0.864	3.340	24.920	32.670	46.860	85.060

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	50.620%	-0.008	0.001	0.012	48.850	50.160	55.933%	56.585%
2	14:35:32	52.276%	-0.007	-0.003	0.004	50.140	49.780	57.669%	58.192%
3	14:36:20	53.663%	0.003	0.003	0.004	49.610	48.960	59.403%	59.606%
x		52.187%	-0.004	0.000	0.006	49.530	49.630	57.668%	58.128%
σ		1.523%	0.006	0.003	0.005	0.644	0.617	1.735%	1.512%
%RSD		2.919	143.400	1136.000	75.290	1.301	1.243	3.009	2.600

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:49	0.066	0.057	171.800	175.400	175.300	63.175%
2	14:35:32	0.068	0.060	173.800	177.400	177.200	63.974%
3	14:36:20	0.066	0.066	171.800	175.700	175.400	65.862%
x		0.066	0.061	172.500	176.200	176.000	64.337%
σ		0.001	0.004	1.161	1.069	1.079	1.380%
%RSD		1.777	7.206	0.673	0.607	0.613	2.144

CCV 781130 4/28/2013 3:07:25 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:09	53.897%	107.300	102.200	102.200	0.000	51140.000	51120.000	50860.000
2	15:08:53	52.942%	108.500	101.400	103.700	0.000	51500.000	51740.000	51480.000
3	15:09:36	52.616%	104.700	102.400	103.900	0.000	50610.000	50690.000	50450.000
x		53.152%	106.838%	101.988%	103.266%	0.000	102.170%	102.366%	101.862%
σ		0.666%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.252	1.831	0.495	0.869	0.000	0.882	1.025	1.016
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:09	512.700	5608.000	0.000	50330.000	47930.000	49160.000	48.146%	101.200
2	15:08:53	516.800	5584.000	0.000	50410.000	48590.000	50170.000	46.823%	104.700
3	15:09:36	507.200	5440.000	0.000	49790.000	48070.000	49400.000	46.209%	101.700
x		102.450%	110.885%	0.000	100.357%	96.391%	99.152%	47.059%	102.572%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.990%	n/a
%RSD		0.934	1.643	0.000	0.670	0.715	1.058	2.103	1.845
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:09	102.900	102.500	467.400	25630.000	24590.000	105.900	107.800	108.300
2	15:08:53	103.500	103.300	481.500	25980.000	24970.000	106.000	108.700	110.000
3	15:09:36	101.100	101.100	477.400	25530.000	24450.000	103.900	105.400	105.900
x		102.504%	102.310%	95.083%	102.859%	98.680%	105.283%	107.302%	108.078%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.223	1.069	1.525	0.910	1.080	1.148	1.588	1.889
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:09	108.700	96.220	97.080	100.300	97.070	97.190	0.000	96.600
2	15:08:53	107.000	97.520	97.330	102.400	99.340	100.800	0.000	97.600
3	15:09:36	106.000	96.160	96.650	99.420	96.960	95.870	0.000	95.580
x		107.261%	96.634%	97.020%	100.713%	97.790%	97.935%	0.000	96.595%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.277	0.795	0.356	1.533	1.370	2.582	0.000	1.044
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:09	49.040%	99.610	98.540	52.521%	97.130	97.800	93.910	96.140
2	15:08:53	47.610%	109.000	109.200	45.557%	105.600	105.100	100.000	98.970
3	15:09:36	47.435%	102.800	100.500	49.940%	95.780	97.080	93.900	95.760
x		48.028%	103.778%	102.743%	49.339%	99.507%	99.986%	95.939%	96.959%
σ		0.881%	n/a	n/a	3.521%	n/a	n/a	n/a	n/a
%RSD		1.833	4.577	5.499	7.135	5.358	4.422	3.672	1.805
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:09	50.564%	97.950	94.340	93.740	100.500	99.850	55.173%	55.532%
2	15:08:53	49.385%	99.830	96.140	95.970	101.700	100.900	54.002%	54.763%
3	15:09:36	49.176%	98.060	94.160	95.380	99.840	100.500	54.322%	54.647%
x		49.708%	98.616%	94.879%	95.029%	100.702%	100.413%	54.499%	54.981%
σ		0.748%	n/a	n/a	n/a	n/a	n/a	0.605%	0.481%
%RSD		1.505	1.069	1.151	1.214	0.949	0.540	1.110	0.875
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:08:09	92.990	91.380	90.860	90.090	90.500	52.448%		
2	15:08:53	94.470	92.880	92.710	91.970	92.460	52.115%		
3	15:09:36	92.780	92.800	91.770	90.910	91.430	52.247%		
x		93.411%	92.353%	91.779%	90.991%	91.461%	52.270%		
σ		n/a	n/a	n/a	n/a	n/a	0.168%		
%RSD		0.985	0.913	1.008	1.037	1.072	0.321		

CCB11 4/28/2013 3:15:45 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	82.357%	-0.003	-1.394	-1.612	0.000	9.339	2.279	2.371
2	15:17:11	84.351%	-0.006	-1.418	-1.689	0.000	9.570	2.438	2.216
3	15:17:54	87.256%	0.008	-1.530	-1.825	0.000	10.710	2.587	2.849
x		84.655%	-0.001	-1.447	-1.709	0.000	9.872	2.435	2.479
σ		2.463%	0.008	0.073	0.108	0.000	0.733	0.154	0.330
%RSD		2.910	1476.000	5.015	6.319	0.000	7.421	6.318	13.330

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	1.372	-2.327	0.000	-35.560	3.783	1.973	82.287%	0.102
2	15:17:11	1.343	-2.289	0.000	-36.700	4.729	1.833	84.013%	0.063
3	15:17:54	1.346	-2.219	0.000	-35.660	6.582	2.432	86.643%	0.017
x		1.354	-2.278	0.000	-35.970	5.031	2.080	84.314%	0.061
σ		0.016	0.055	0.000	0.630	1.424	0.313	2.194%	0.043
%RSD		1.196	2.394	0.000	1.750	28.300	15.060	2.602	69.740

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	-0.003	-0.024	0.410	-0.530	1.614	0.007	0.001	-0.014
2	15:17:11	0.007	-0.020	0.423	-1.040	1.763	0.002	0.014	-0.011
3	15:17:54	-0.000	-0.019	0.439	-1.552	1.477	0.006	0.003	-0.003
x		0.001	-0.021	0.424	-1.041	1.618	0.005	0.006	-0.009
σ		0.005	0.003	0.015	0.511	0.143	0.003	0.007	0.006
%RSD		452.700	11.910	3.430	49.070	8.828	61.980	120.700	62.100

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	-0.035	0.063	0.086	-0.529	-0.704	-1.744	0.000	0.029
2	15:17:11	-0.011	0.078	0.096	-0.473	-0.783	-1.647	0.000	0.026
3	15:17:54	-0.019	0.128	0.081	-0.586	-0.649	-2.008	0.000	0.026
x		-0.022	0.090	0.088	-0.529	-0.712	-1.799	0.000	0.027
σ		0.012	0.034	0.008	0.056	0.067	0.187	0.000	0.001
%RSD		57.080	37.950	8.723	10.640	9.432	10.380	0.000	5.374

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	70.307%	0.116	0.144	83.470%	-0.017	-0.026	-0.030	-0.012
2	15:17:11	72.095%	0.100	0.099	85.697%	-0.021	-0.025	-0.058	-0.037
3	15:17:54	74.007%	0.059	0.068	87.450%	-0.020	-0.027	-0.080	-0.055
x		72.136%	0.092	0.104	85.539%	-0.019	-0.026	-0.056	-0.035
σ		1.850%	0.030	0.038	1.995%	0.002	0.001	0.025	0.022
%RSD		2.565	32.480	36.820	2.332	11.960	4.741	45.190	63.230

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	78.637%	-0.037	0.057	0.052	0.037	0.023	80.797%	81.690%
2	15:17:11	81.382%	-0.078	0.044	0.048	0.025	0.023	83.666%	83.743%
3	15:17:54	83.569%	-0.108	0.034	0.033	0.032	0.038	85.157%	86.117%
x		81.196%	-0.074	0.045	0.045	0.032	0.028	83.207%	83.850%
σ		2.471%	0.036	0.012	0.010	0.006	0.009	2.216%	2.215%
%RSD		3.044	47.690	25.660	22.570	18.660	31.530	2.664	2.642

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:28	0.001	0.001	0.011	0.006	0.008	82.451%
2	15:17:11	0.002	0.001	0.007	0.002	0.008	84.727%
3	15:17:54	0.001	0.005	0.003	0.006	0.006	87.190%
x		0.001	0.002	0.007	0.005	0.007	84.789%
σ		0.000	0.002	0.004	0.002	0.001	2.370%
%RSD		25.080	116.000	53.230	47.420	14.400	2.795

CRI 806392 4/28/2013 3:23:59 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	65.852%	1.047	4.168	4.174	0.000	116.300	100.200	98.380
2	15:25:26	66.117%	1.036	4.734	4.154	0.000	119.300	100.700	99.080
3	15:26:09	66.739%	1.052	4.415	4.098	0.000	116.500	97.330	98.810
x		66.236%	104.484%	88.774%	82.843%	0.000	117.376%	99.425%	98.754%
σ		0.455%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.688	0.805	6.397	0.945	0.000	1.455	1.841	0.359

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	37.580	546.900	0.000	70.210	102.200	97.860	61.537%	5.058
2	15:25:26	36.980	538.200	0.000	69.960	87.390	98.620	61.402%	5.326
3	15:26:09	37.030	537.700	0.000	70.130	90.610	95.240	62.625%	5.150
x		123.992%	108.188%	0.000	70.101%	93.391%	97.242%	61.854%	103.556%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.671%	n/a
%RSD		0.899	0.959	0.000	0.182	8.323	1.827	1.084	2.631

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	0.998	2.052	5.529	58.420	55.580	0.553	1.185	2.385
2	15:25:26	0.974	1.962	5.571	57.160	55.040	0.541	1.231	2.369
3	15:26:09	0.904	1.951	5.451	56.660	54.140	0.492	1.173	2.209
x		95.868%	99.415%	1103.384%	114.829%	109.838%	105.714%	119.627%	116.048%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		5.070	2.783	1.097	1.582	1.324	6.175	2.569	4.175

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	2.407	5.258	5.565	1.098	4.739	4.653	0.000	4.610
2	15:25:26	2.257	5.434	5.405	0.950	4.798	4.500	0.000	4.609
3	15:26:09	2.332	5.288	5.224	0.881	4.700	4.123	0.000	4.553
x		116.589%	106.534%	107.963%	97.609%	94.913%	88.506%	0.000	91.809%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.208	1.765	3.164	11.350	1.034	6.164	0.000	0.706

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	61.651%	4.421	4.387	68.463%	0.920	0.891	0.880	0.976
2	15:25:26	62.673%	4.536	4.391	69.325%	0.923	0.961	1.013	1.001
3	15:26:09	63.344%	4.685	4.611	69.118%	0.944	0.980	0.941	0.958
x		62.556%	90.945%	89.261%	68.969%	92.883%	94.388%	94.457%	97.814%
σ		0.852%	n/a	n/a	0.450%	n/a	n/a	n/a	n/a
%RSD		1.363	2.914	2.864	0.653	1.383	4.987	7.053	2.193

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	62.486%	4.758	1.883	1.858	9.909	9.779	64.870%	64.618%
2	15:25:26	63.197%	4.914	1.909	1.923	9.843	9.978	66.215%	66.360%
3	15:26:09	64.395%	4.800	1.852	1.914	9.837	9.904	67.397%	67.828%
x		63.359%	96.479%	94.073%	94.937%	98.629%	98.872%	66.161%	66.269%
σ		0.965%	n/a	n/a	n/a	n/a	n/a	1.264%	1.607%
%RSD		1.523	1.682	1.535	1.854	0.409	1.015	1.911	2.425

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:43	0.841	0.853	0.866	0.831	0.863	68.887%
2	15:25:26	0.898	0.885	0.891	0.898	0.887	69.673%
3	15:26:09	0.846	0.874	0.907	0.864	0.889	72.052%
x		86.140%	87.048%	88.822%	86.414%	87.954%	70.204%
σ		n/a	n/a	n/a	n/a	n/a	1.648%
%RSD		3.648	1.856	2.304	3.909	1.647	2.347

CCV 781130 4/28/2013 3:32:16 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:59	51.979%	105.700	99.990	103.400	0.000	50940.000	51340.000	51050.000
2	15:33:42	51.982%	107.100	101.600	103.400	0.000	50900.000	51080.000	51000.000
3	15:34:25	51.742%	105.500	99.980	104.300	0.000	50840.000	50690.000	50570.000
x		51.901%	106.127%	100.524%	103.679%	0.000	101.785%	102.070%	101.751%
σ		0.137%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.265	0.830	0.930	0.503	0.000	0.102	0.641	0.516
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:59	518.500	5609.000	0.000	50500.000	48280.000	49010.000	47.395%	103.700
2	15:33:42	514.100	5499.000	0.000	50280.000	48800.000	49400.000	46.248%	102.300
3	15:34:25	511.900	5447.000	0.000	49910.000	48020.000	49100.000	45.579%	103.000
x		102.967%	110.371%	0.000	100.457%	96.734%	98.336%	46.407%	103.032%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.918%	n/a
%RSD		0.652	1.498	0.000	0.590	0.816	0.418	1.979	0.683
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:59	103.900	104.000	475.100	25520.000	24510.000	105.300	107.900	109.400
2	15:33:42	102.900	103.800	479.300	25820.000	24800.000	104.600	107.700	108.400
3	15:34:25	103.000	102.800	476.800	25440.000	24530.000	104.400	106.800	107.100
x		103.244%	103.531%	95.410%	102.382%	98.456%	104.765%	107.453%	108.322%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.522	0.598	0.434	0.789	0.666	0.476	0.527	1.033
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:59	109.400	97.110	96.320	102.400	98.500	99.570	0.000	96.820
2	15:33:42	107.200	96.340	96.070	99.070	98.260	96.910	0.000	96.830
3	15:34:25	107.400	96.790	96.620	99.800	96.800	98.590	0.000	96.650
x		107.997%	96.747%	96.334%	100.435%	97.852%	98.356%	0.000	96.766%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.113	0.397	0.285	1.763	0.938	1.364	0.000	0.105
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:59	47.915%	100.300	99.980	51.504%	96.760	97.960	94.480	96.260
2	15:33:42	47.731%	102.900	101.400	50.269%	97.590	98.440	95.050	97.640
3	15:34:25	47.196%	103.100	101.300	49.540%	97.840	98.620	95.810	97.620
x		47.614%	102.100%	100.914%	50.437%	97.399%	98.339%	95.116%	97.173%
σ		0.374%	n/a	n/a	0.993%	n/a	n/a	n/a	n/a
%RSD		0.785	1.564	0.802	1.969	0.581	0.346	0.701	0.812
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:59	50.207%	96.310	93.090	94.130	98.900	101.000	54.784%	55.875%
2	15:33:42	49.759%	99.160	94.550	93.850	98.950	99.440	55.102%	55.597%
3	15:34:25	49.187%	98.420	94.700	95.610	100.900	99.890	54.516%	54.973%
x		49.718%	97.963%	94.116%	94.526%	99.572%	100.110%	54.801%	55.482%
σ		0.511%	n/a	n/a	n/a	n/a	n/a	0.293%	0.462%
%RSD		1.029	1.510	0.944	1.001	1.129	0.802	0.535	0.833
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:32:59	91.890	91.550	90.610	90.120	89.960	57.644%		
2	15:33:42	92.600	92.580	92.220	91.670	92.000	57.283%		
3	15:34:25	92.120	92.310	91.500	91.380	91.720	55.955%		
x		92.202%	92.146%	91.444%	91.058%	91.226%	56.961%		
σ		n/a	n/a	n/a	n/a	n/a	0.890%		
%RSD		0.392	0.578	0.882	0.904	1.211	1.562		

CCB12 4/28/2013 3:40:29 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

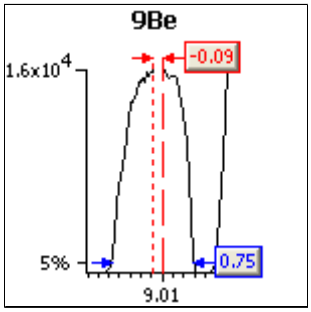
Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:13	80.383%	0.004	-1.324	-1.580	0.000	11.720	3.503	3.397
2	15:41:55	83.286%	-0.000	-1.222	-1.752	0.000	11.290	3.365	3.157
3	15:42:38	84.715%	0.009	-1.542	-1.751	0.000	10.200	3.033	3.032
x		82.794%	0.004	-1.363	-1.694	0.000	11.070	3.300	3.195
σ		2.207%	0.004	0.164	0.099	0.000	0.782	0.242	0.186
%RSD		2.666	110.100	12.000	5.853	0.000	7.062	7.328	5.817
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:13	1.629	-0.943	0.000	-34.300	2.202	2.839	81.814%	0.036
2	15:41:55	1.653	-2.648	0.000	-34.650	2.622	3.454	84.438%	0.121
3	15:42:38	1.523	-2.537	0.000	-35.730	4.106	3.230	85.724%	0.065
x		1.601	-2.043	0.000	-34.890	2.977	3.174	83.992%	0.074
σ		0.069	0.954	0.000	0.746	1.000	0.311	1.993%	0.043
%RSD		4.312	46.690	0.000	2.138	33.590	9.804	2.373	58.710
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:13	-0.011	-0.032	0.510	-0.596	3.037	0.006	0.001	-0.015
2	15:41:55	-0.004	-0.031	0.457	-0.791	2.263	0.005	-0.001	0.004
3	15:42:38	-0.007	-0.026	0.444	-0.847	2.468	0.006	0.001	-0.005
x		-0.007	-0.030	0.471	-0.745	2.589	0.006	0.000	-0.005
σ		0.003	0.003	0.035	0.132	0.401	0.001	0.001	0.009
%RSD		46.860	10.610	7.415	17.680	15.480	8.470	282.600	169.500
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:13	-0.027	0.126	0.073	-0.479	-0.539	-1.589	0.000	0.025
2	15:41:55	-0.012	0.131	0.076	-0.526	-0.623	-1.886	0.000	0.025
3	15:42:38	-0.031	0.110	0.079	-0.441	-0.558	-1.529	0.000	0.030
x		-0.023	0.122	0.076	-0.482	-0.573	-1.668	0.000	0.027
σ		0.010	0.011	0.003	0.042	0.044	0.191	0.000	0.003
%RSD		43.500	8.914	4.417	8.779	7.732	11.460	0.000	10.130
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:13	70.827%	0.161	0.157	83.803%	-0.028	-0.028	-0.073	-0.039
2	15:41:55	73.784%	0.175	0.151	85.804%	-0.022	-0.019	-0.076	-0.042
3	15:42:38	73.871%	0.153	0.152	86.844%	-0.021	-0.024	-0.039	-0.019
x		72.827%	0.163	0.154	85.484%	-0.024	-0.024	-0.063	-0.034
σ		1.733%	0.011	0.003	1.546%	0.004	0.005	0.020	0.013
%RSD		2.379	6.882	2.242	1.809	16.870	20.640	32.440	37.360
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:13	80.261%	-0.015	0.063	0.068	0.042	0.041	79.456%	80.337%
2	15:41:55	83.462%	-0.052	0.068	0.062	0.035	0.035	82.664%	82.761%
3	15:42:38	84.771%	-0.059	0.064	0.069	0.025	0.037	83.912%	84.527%
x		82.831%	-0.042	0.065	0.066	0.034	0.038	82.011%	82.542%
σ		2.320%	0.023	0.003	0.004	0.009	0.003	2.298%	2.104%
%RSD		2.801	55.840	4.726	5.651	26.060	8.332	2.803	2.549
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:41:13	0.004	0.001	0.005	0.013	0.010	82.644%		
2	15:41:55	0.002	0.001	0.007	-0.004	0.005	84.971%		
3	15:42:38	0.003	0.001	0.007	0.004	0.005	86.139%		
x		0.003	0.001	0.006	0.004	0.007	84.585%		
σ		0.001	0.001	0.001	0.008	0.002	1.780%		
%RSD		45.930	47.010	15.520	199.000	36.210	2.104		

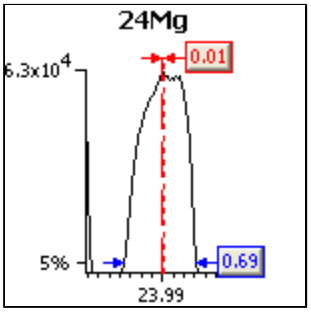
Performance Report

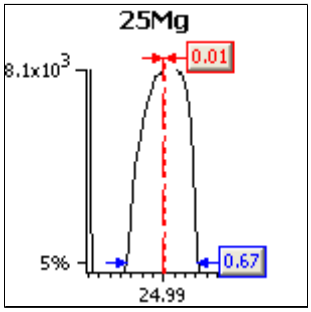
Sample details
Sample name : ITUNE
Acquired at : 4/27/2013 5:04:55 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

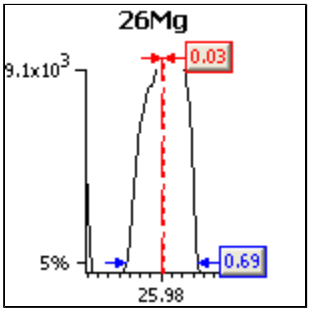
Mass Calibration verification

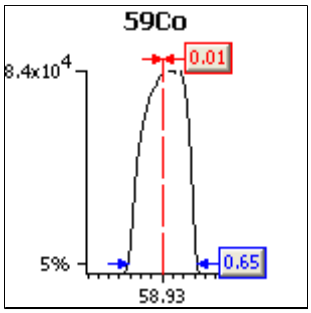
Acquisition parameters
Sweeps : 25
Dwell : 2.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum

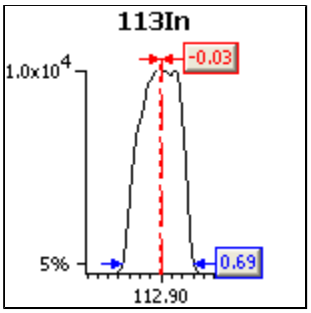


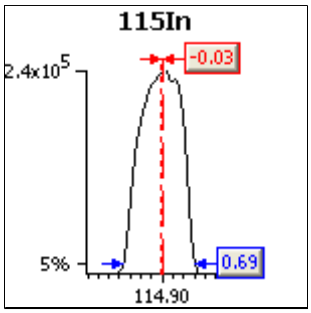


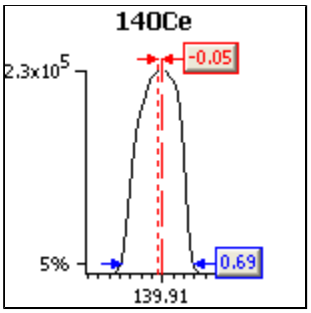


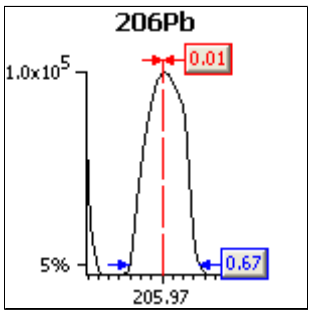


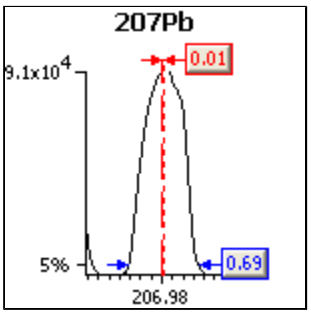


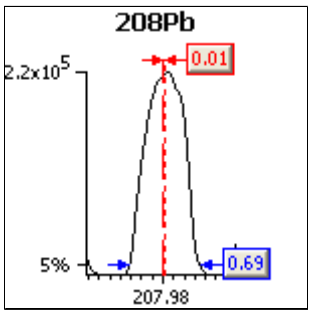












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.45	0.10	0.75	-0.09
24Mg	0.90	0.45	0.10	0.69	0.01
25Mg	0.90	0.45	0.10	0.67	0.01
26Mg	0.90	0.45	0.10	0.69	0.03
59Co	0.90	0.45	0.10	0.65	0.01
113In	0.90	0.45	0.10	0.69	-0.03
115In	0.90	0.45	0.10	0.69	-0.03
140Ce	0.90	0.45	0.10	0.69	-0.05
206Pb	0.90	0.45	0.10	0.67	0.01
207Pb	0.90	0.45	0.10	0.69	0.01
208Pb	0.90	0.45	0.10	0.69	0.01

Sample details
Sample name : ITUNE
Acquired at : 4/27/2013 5:04:55 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

Tune conditions

Major	
Extraction	-176
Lens 1	1.2
Focus	22.0
D1	-40.0
Pole Bias	3.0
Hexapole Bias	-3.0
Nebuliser	0.87
Sampling Depth	150

Minor	
Lens 2	-24.3
Lens 3	-156.1
Forward power	1302
Horizontal	72
Vertical	539
D2	-160
DA	-80.0
Cool	18.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
He/H2	0.00
He/NH3	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>5000	-
1	5:05:43 PM	0	16650	61290	7927	9287	149413	84821	0
2	5:07:08 PM	0	17021	62258	8040	9567	144264	85735	0
3	5:08:33 PM	0	16811	61730	8021	9393	144025	84693	0
4	5:09:58 PM	0	16613	61404	7983	9485	143500	85329	1
5	5:11:24 PM	0	16890	61952	8036	9314	143805	86254	1
x		0	16797	61727	8001	9409	145001	85366	0
σ		0.18	169.38	395.98	47.44	117.38	2482.07	647.26	0.37
%RSD		73.023	1.008	0.642	0.593	1.248	1.712	0.758	136.931

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	5:05:43 PM	10	0	10283	242778	851	237953	3261	102834
2	5:07:08 PM	8	0	10293	245290	843	239534	3301	102351
3	5:08:33 PM	7	0	10226	241389	833	235744	3189	102445
4	5:09:58 PM	5	0	10321	241688	874	236073	3264	102082
5	5:11:24 PM	7	0	10274	242813	827	237014	3314	102175
x		7	0	10279	242792	846	237263	3266	102377
σ		1.92	0.11	34.29	1534.98	18.18	1534.33	48.49	292.14
%RSD		26.530	52.705	0.334	0.632	2.149	0.647	1.485	0.285

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	5:05:43 PM	93755	220200	0
2	5:07:08 PM	94229	222366	0
3	5:08:33 PM	92518	219077	0
4	5:09:58 PM	92660	219803	0
5	5:11:24 PM	92804	218795	0
x		93193	220048	0
σ		754.98	1411.59	0.12
%RSD		0.810	0.641	81.312

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0500
1	5:05:43 PM	0
2	5:07:08 PM	0

3	5:08:33 PM	0
4	5:09:58 PM	0
5	5:11:24 PM	0
x		0.0138
σ		0.00
%RSD		1.2081

Result : The performance report passed.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 79493 Batch Start Date: 03/26/13 14:25 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 03/26/13 14:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00477	MTHGCALW 00338	MTKMN04W 00040	AnalysisComment
MB 240-79493/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-79493/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22281-B-12	07PSS-0254-0001-SO	7471A, 7471/DOD	T	0.63 g	100 mL	5 mL		15 mL	
240-22281-B-13	07PSS-0255-0001-SO	7471A, 7471/DOD	T	0.58 g	100 mL	5 mL		15 mL	
240-22281-B-14	07PSS-0276-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	Sample had many tiny roots in soil
240-22281-B-15	07PSS-0277-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22281-B-16	07PSS-0285-0001-SO	7471A, 7471/DOD	T	0.61 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 79547 Batch Start Date: 03/26/13 16:20 Batch Analyst: Toth, Roger

Batch Method: 7471A Batch End Date: 03/26/13 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00478	MTHGCALW 00339	MTHgStd 00009	MTKMN04W 00040
ICV 240-79547/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-79547/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-79547/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-79547/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-79547/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383364 383366
Digestion Tube/Cup Lot #	122612

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 79941 Batch Start Date: 03/29/13 14:30 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 03/29/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00482	MTHGCALW 00342	MTKMN04W 00040	
MB 240-79941/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-79941/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22281-B-1-A	079SB-0245M-0001-SO	7471A, 7471/DOD	T	0.59 g	100 mL	5 mL		15 mL	
240-22281-B-3-A	079SB-0324M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22281-B-4-A	079SB-0247M-0001-SO	7471A, 7471/DOD	T	0.63 g	100 mL	5 mL		15 mL	
240-22281-B-6-A	079SB-0325M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22281-B-7-A	079SB-0249M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22281-B-8-A	079SB-0250M-0001-SO	7471A, 7471/DOD	T	0.67 g	100 mL	5 mL		15 mL	
240-22281-B-9-A	079SB-0251M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22281-B-10-A	079SB-0252M-0001-SO	7471A, 7471/DOD	T	0.52 g	100 mL	5 mL		15 mL	
240-22281-B-11-A	079SB-0253M-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	
240-22281-B-17	07PSS-0286-0001-SO	7471A, 7471/DOD	T	0.61 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80130 Batch Start Date: 04/01/13 16:25 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/01/13 16:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00483	MTHGCALW 00343	MTKMN04W 00040	
MB 240-80130/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-80130/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22281-B-20-A	079SB-0267M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22281-B-20-A DU	079SB-0267M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22281-B-20-A MS	079SB-0267M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL	1 mL	15 mL	
240-22281-B-22-A	079SB-0269M-0001-SO	7471A, 7471/DOD	T	0.59 g	100 mL	5 mL		15 mL	
240-22281-B-23-A	079SB-0322M-0001-SO	7471A, 7471/DOD	T	0.51 g	100 mL	5 mL		15 mL	
240-22281-B-25-A	079SB-0271M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22281-B-26-A	079SB-0272M-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	
240-22281-B-27-A	079SB-0273M-0001-SO	7471A, 7471/DOD	T	0.58 g	100 mL	5 mL		15 mL	
240-22281-B-28-A	079SB-0323M-0001-SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22281-B-29-A	079SB-0274M-0001-SO	7471A, 7471/DOD	T	0.62 g	100 mL	5 mL		15 mL	
240-22281-B-30-A	079SB-0275M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22281-B-31-A	079SB-0278M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22281-B-32-A	079SB-0279M-0001-SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22281-B-33-A	079SB-0280M-0001-SO	7471A, 7471/DOD	T	0.63 g	100 mL	5 mL		15 mL	
240-22281-B-34-A	079SB-0281M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22281-B-35-A	079SB-0282M-0001-SO	7471A, 7471/DOD	T	0.61 g	100 mL	5 mL		15 mL	
240-22281-B-36-A	079SB-0283M-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	
240-22281-B-37-A	079SB-0284M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22281-B-38-A	079SB-0296M-0001-SO	7471A, 7471/DOD	T	0.52 g	100 mL	5 mL		15 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80130 Batch Start Date: 04/01/13 16:25 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/01/13 16:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00483	MTHGCALW 00343	MTKMN04W 00040	
240-22281-B-39-A	079SB-0297M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22281-B-18	07PSS-0303-0001-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22281-B-19	07PSS-0304-0001-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	g228-2i025
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80224 Batch Start Date: 04/02/13 09:25 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/02/13 09:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00484	MTHGCALW 00345	MTHgStd 00009	MTKMN04W 00040
ICV 240-80224/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-80224/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-80224/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-80224/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-80224/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383366-383364-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80281 Batch Start Date: 04/02/13 15:00 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/02/13 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00484	MTHGCALW 00345	MTKMN04W 00040	
MB 240-80281/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-80281/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22281-B-40-A	079SB-0298M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22281-B-40-A DU	079SB-0298M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22281-B-40-A MS	079SB-0298M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL	1 mL	15 mL	
240-22281-B-41-A	079SB-0299M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22281-B-42-A	079SB-0300M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22281-B-43-A	079SB-0301M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22281-B-44-A	079SB-0302M-0001-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	g228-2i025
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Batch Number: 68111 Batch Start Date: 04/03/13 11:00 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/03/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
MB 180-68111/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.03 g	100 mL			
LCS 180-68111/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.09 g	100 mL	1 mL	1 mL	1 mL
240-22281-D-1	079SB-0245M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-3	079SB-0324M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-3 DU	079SB-0324M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-3 MS	079SB-0324M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL	1 mL	1 mL	1 mL
240-22281-C-3 MSD	079SB-0324M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL	1 mL	1 mL	1 mL
240-22281-C-4	079SB-0247M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-6	079SB-0325M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-7	079SB-0249M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22281-C-8	079SB-0250M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-9	079SB-0251M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-10	079SB-0252M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-11	079SB-0253M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-12	07PSS-0254-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-13	07PSS-0255-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-14	07PSS-0276-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22281-C-15	07PSS-0277-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-16	07PSS-0285-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-17	07PSS-0286-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-18	07PSS-0303-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Batch Number: 68111 Batch Start Date: 04/03/13 11:00 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/03/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
240-22281-C-19	07PSS-0304-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-20	079SB-0267M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-22	079SB-0269M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-23	079SB-0322M-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			

Batch Notes	
Analyst	CH
Balance ID	P1856710
Batch Comment	METALS A8
Blank Soil Lot Number	121015
First End time	1300
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10ML 781343
Logbook ID for diluted Nitric	10ML 775132
Lot # of Nitric Acid	5ML 781347
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	97 Degrees C
Pipette ID	L1201611U
Perform Calculation (0=No, 1=Yes)	1
First Start time	1100
Temperature	97 Degrees C
ID number of the thermometer	IP9 (0.0) G3
Digestion Tube/Cup Lot #	MH21KK06
Uncorrected Temperature	97 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Batch Number: 68272 Batch Start Date: 04/04/13 11:10 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/04/13 13:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
MB 180-68272/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.09 g	100 mL			
LCS 180-68272/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.02 g	100 mL	1 mL	1 mL	1 mL
240-22281-C-25	079SB-0271M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-25 DU	079SB-0271M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22281-C-25 MS	079SB-0271M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL	1 mL	1 mL	1 mL
240-22281-C-25 MSD	079SB-0271M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL	1 mL	1 mL	1 mL
240-22281-C-26	079SB-0272M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-27	079SB-0273M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-28	079SB-0323M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-29	079SB-0274M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-30	079SB-0275M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22281-C-31	079SB-0278M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-32	079SB-0279M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-33	079SB-0280M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-34	079SB-0281M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-35	079SB-0282M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-36	079SB-0283M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-37	079SB-0284M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22281-C-38	079SB-0296M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-39	079SB-0297M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22281-C-40	079SB-0298M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22281-1

SDG No.:

Batch Number: 68272 Batch Start Date: 04/04/13 11:10 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/04/13 13:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00018
240-22281-C-41	079SB-0299M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22281-C-42	079SB-0300M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22281-C-43	079SB-0301M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.05 g	100 mL			
240-22281-C-44	079SB-0302M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			

Batch Notes	
Analyst	CH
Balance ID	P1856710
Batch Comment	METALS A8
Blank Soil Lot Number	783730
First End time	1310
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10ML 781343
Logbook ID for diluted Nitric	10ML 785050
Lot # of Nitric Acid	5ML 781351
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	97 Degrees C
Pipette ID	L1201611U
Perform Calculation (0=No, 1=Yes)	1
First Start time	1110
Temperature	97 Degrees C
ID number of the thermometer	IP9 (0.0) E3
Digestion Tube/Cup Lot #	MH21KK06
Uncorrected Temperature	97 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0245M-0001-SO	240-22281-1
079SB-0324M-0001-SO	240-22281-3
079SB-0247M-0001-SO	240-22281-4
079SB-0325M-0001-SO	240-22281-6
079SB-0249M-0001-SO	240-22281-7
079SB-0250M-0001-SO	240-22281-8
079SB-0251M-0001-SO	240-22281-9
079SB-0252M-0001-SO	240-22281-10
079SB-0253M-0001-SO	240-22281-11
07PSS-0254-0001-SO	240-22281-12
07PSS-0255-0001-SO	240-22281-13
07PSS-0276-0001-SO	240-22281-14
07PSS-0277-0001-SO	240-22281-15
07PSS-0285-0001-SO	240-22281-16
07PSS-0286-0001-SO	240-22281-17
07PSS-0303-0001-SO	240-22281-18
07PSS-0304-0001-SO	240-22281-19
079SB-0267M-0001-SO	240-22281-20
079SB-0269M-0001-SO	240-22281-22
079SB-0322M-0001-SO	240-22281-23
079SB-0271M-0001-SO	240-22281-25
079SB-0272M-0001-SO	240-22281-26
079SB-0273M-0001-SO	240-22281-27
079SB-0323M-0001-SO	240-22281-28
079SB-0274M-0001-SO	240-22281-29
079SB-0275M-0001-SO	240-22281-30
079SB-0278M-0001-SO	240-22281-31
079SB-0279M-0001-SO	240-22281-32
079SB-0280M-0001-SO	240-22281-33
079SB-0281M-0001-SO	240-22281-34
079SB-0282M-0001-SO	240-22281-35
079SB-0283M-0001-SO	240-22281-36
079SB-0284M-0001-SO	240-22281-37
079SB-0296M-0001-SO	240-22281-38
079SB-0297M-0001-SO	240-22281-39
079SB-0298M-0001-SO	240-22281-40
079SB-0299M-0001-SO	240-22281-41
079SB-0300M-0001-SO	240-22281-42
079SB-0301M-0001-SO	240-22281-43
079SB-0302M-0001-SO	240-22281-44

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22281-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			11:05																				
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240-22281-1	1	T	11:05	X	X																		
240-22281-3	1	T	11:05	X	X																		
240-22281-4	1	T	11:05	X	X																		
240-22281-6	1	T	11:05	X	X																		
240-22281-7	1	T	11:05	X	X																		
240-22281-8	1	T	11:05	X	X																		
240-22281-9	1	T	11:05	X	X																		
240-22281-10	1	T	11:05	X	X																		
240-22281-11	1	T	11:05	X	X																		
240-22281-12	1	T	11:05	X	X																		
240-22281-13	1	T	11:05	X	X																		
240-22281-14	1	T	11:05	X	X																		
240-22281-15	1	T	11:05	X	X																		
240-22281-15 DU	1	T	11:05	X	X																		
240-22281-16	1	T	11:05	X	X																		
240-22281-16 DU	1	T	11:05	X	X																		
240-22281-17	1	T	11:05	X	X																		
240-22281-18	1	T	11:05	X	X																		
240-22281-19	1	T	11:05	X	X																		
240-22281-20	1	T	11:05	X	X																		
240-22281-22	1	T	11:05	X	X																		
240-22281-23	1	T	11:05	X	X																		
240-22281-25	1	T	11:05	X	X																		
240-22281-26	1	T	11:05	X	X																		
240-22281-27	1	T	11:05	X	X																		
240-22281-28	1	T	11:05	X	X																		
240-22281-29	1	T	11:05	X	X																		
240-22281-30	1	T	11:05	X	X																		
240-22281-31	1	T	11:05	X	X																		
240-22281-32	1	T	11:05	X	X																		
240-22281-33	1	T	11:05	X	X																		
240-22281-34	1	T	11:05	X	X																		
240-22281-35	1	T	11:05	X	X																		
240-22281-36	1	T	11:05	X	X																		

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
240-22281-37	1	T	11:05	X	X																		
240-22281-37 DU	1	T	11:05	X	X																		
240-22281-38	1	T	11:05	X	X																		
240-22281-38 DU	1	T	11:05	X	X																		
240-22281-39	1	T	11:05	X	X																		
240-22281-40	1	T	11:05	X	X																		
240-22281-41	1	T	11:05	X	X																		
240-22281-42	1	T	11:05	X	X																		
240-22281-43	1	T	11:05	X	X																		
240-22281-44	1	T	11:05	X	X																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/02/2013 11:05 End Date: 04/02/2013 11:05

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80250 Batch Start Date: 04/02/13 11:05 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/03/13 07:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22281-A-1	079SB-0245M-0001-SO	Moisture	T	4.4306 g	17.5107 g	17.4023 g			
240-22281-A-3	079SB-0324M-0001-SO	Moisture	T	4.4306 g	16.7708 g	16.6425 g			
240-22281-A-4	079SB-0247M-0001-SO	Moisture	T	4.4306 g	18.0595 g	18.0062 g			
240-22281-A-6	079SB-0325M-0001-SO	Moisture	T	4.4306 g	16.4597 g	16.4244 g			
240-22281-A-7	079SB-0249M-0001-SO	Moisture	T	4.4306 g	16.7409 g	16.6851 g			
240-22281-A-8	079SB-0250M-0001-SO	Moisture	T	4.4306 g	17.8692 g	17.7946 g			
240-22281-A-9	079SB-0251M-0001-SO	Moisture	T	4.4306 g	16.2833 g	16.2112 g			
240-22281-A-10	079SB-0252M-0001-SO	Moisture	T	4.4306 g	18.5515 g	18.4648 g			
240-22281-A-11	079SB-0253M-0001-SO	Moisture	T	4.4306 g	19.8002 g	19.6596 g			
240-22281-A-12	07PSS-0254-0001-SO	Moisture	T	4.4306 g	16.2425 g	15.0810 g			
240-22281-A-13	07PSS-0255-0001-SO	Moisture	T	4.4306 g	9.4508 g	8.7282 g			
240-22281-A-14	07PSS-0276-0001-SO	Moisture	T	4.4306 g	12.6903 g	11.5636 g			
240-22281-A-15	07PSS-0277-0001-SO	Moisture	T	4.4306 g	7.4614 g	7.2297 g			
240-22281-A-15 DU	07PSS-0277-0001-SO	Moisture	T	4.4306 g	7.4534 g	7.1420 g			
240-22281-A-16	07PSS-0285-0001-SO	Moisture	T	4.4306 g	8.5998 g	7.8856 g			
240-22281-A-16 DU	07PSS-0285-0001-SO	Moisture	T	4.4306 g	9.5890 g	8.6920 g			
240-22281-A-17	07PSS-0286-0001-SO	Moisture	T	4.4306 g	11.6506 g	10.2654 g			
240-22281-A-18	07PSS-0303-0001-SO	Moisture	T	4.4306 g	11.0172 g	9.9855 g			
240-22281-A-19	07PSS-0304-0001-SO	Moisture	T	4.4306 g	15.5355 g	12.9551 g			
240-22281-A-20	079SB-0267M-0001-SO	Moisture	T	4.4306 g	16.8764 g	16.7296 g			
240-22281-A-22	079SB-0269M-0001-SO	Moisture	T	4.4306 g	18.5120 g	18.4700 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80250 Batch Start Date: 04/02/13 11:05 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/03/13 07:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22281-A-23	079SB-0322M-0001-SO	Moisture	T	4.4306 g	18.0605 g	17.9343 g			
240-22281-A-25	079SB-0271M-0001-SO	Moisture	T	4.4306 g	19.4353 g	19.3388 g			
240-22281-A-26	079SB-0272M-0001-SO	Moisture	T	4.4306 g	18.7615 g	18.7422 g			
240-22281-A-27	079SB-0273M-0001-SO	Moisture	T	4.4306 g	18.6039 g	18.4673 g			
240-22281-A-28	079SB-0323M-0001-SO	Moisture	T	4.4306 g	19.1788 g	19.1083 g			
240-22281-A-29	079SB-0274M-0001-SO	Moisture	T	4.4306 g	16.2285 g	16.1664 g			
240-22281-A-30	079SB-0275M-0001-SO	Moisture	T	4.4306 g	15.3993 g	15.2476 g			
240-22281-A-31	079SB-0278M-0001-SO	Moisture	T	4.4306 g	17.4364 g	17.3066 g			
240-22281-A-32	079SB-0279M-0001-SO	Moisture	T	4.4306 g	20.8222 g	20.7706 g			
240-22281-A-33	079SB-0280M-0001-SO	Moisture	T	4.4306 g	21.2150 g	21.1116 g			
240-22281-A-34	079SB-0281M-0001-SO	Moisture	T	4.4306 g	20.0033 g	19.9133 g			
240-22281-A-35	079SB-0282M-0001-SO	Moisture	T	4.4306 g	18.4037 g	18.2355 g			
240-22281-A-36	079SB-0283M-0001-SO	Moisture	T	4.4306 g	19.0428 g	18.8907 g			
240-22281-A-37	079SB-0284M-0001-SO	Moisture	T	4.4306 g	10.3729 g	10.3154 g			
240-22281-A-37 DU	079SB-0284M-0001-SO	Moisture	T	4.4306 g	12.9276 g	12.8510 g			
240-22281-A-38	079SB-0296M-0001-SO	Moisture	T	4.4306 g	11.3961 g	11.3238 g			
240-22281-A-38 DU	079SB-0296M-0001-SO	Moisture	T	4.4306 g	12.3177 g	12.2426 g			
240-22281-A-39	079SB-0297M-0001-SO	Moisture	T	4.4306 g	17.6845 g	17.6308 g			
240-22281-A-40	079SB-0298M-0001-SO	Moisture	T	4.4306 g	18.1641 g	18.0297 g			
240-22281-A-41	079SB-0299M-0001-SO	Moisture	T	4.4306 g	17.2511 g	17.1821 g			
240-22281-A-42	079SB-0300M-0001-SO	Moisture	T	4.4306 g	19.4745 g	19.3436 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22281-1

SDG No.:

Batch Number: 80250 Batch Start Date: 04/02/13 11:05 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/03/13 07:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22281-A-43	079SB-0301M-0001 -SO	Moisture	T	4.4306 g	17.8273 g	17.7264 g			
240-22281-A-44	079SB-0302M-0001 -SO	Moisture	T	4.4306 g	19.1984 g	19.0859 g			

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4-2-13
Oven Temp when samples are put in oven	100.8 Degrees C
Time samples were place in the oven	1525
Date samples were removed from oven	4-3-13
Oven Temp when samples removed from oven	103.9 Degrees C
Time Samples were removed from oven	5:25
Oven ID	002
ID number of the thermometer	TEMPGUARD BOX C #6

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client: Fcc	Project Manager: A. EASTERDAY	Date: 3/21/13	Chain of Custody Number: 002582
Address: 33 Boston Post Rd West #420	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 3
City / State / Zip Code	Site Contact: J. Donovan	Lab Contact: MARK LOKO	Analysis (Attach list if more space is needed)
Project Name and Location (State): RAVENNA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TAL METALS
0795B-0245M-0001-SO	3-20-13	1819				X	X						X
0795B-0246M-0001-SO		1828											
0795B-0324M-0001-SO		1816											
0795B-0247M-0001-SO		1817											
0795B-0248M-0001-SO		1820											
0795B-0325M-0001-SO		1818											
0795B-0249M-0001-SO		1749											
0795B-0250M-0001-SO		1807											
0795B-0251M-0001-SO		1658											
0795B-0252M-0001-SO		1822											
0795B-0253M-0001-SO		1723											

Special Instructions/ Conditions of Receipt

240-22281 Chain of Custody

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: J. Donovan	Date: 3-21-13	Time: 1636	1. Received By: FC Edison	Date: 3-21-13	Time: 1630
2. Relinquished By: FC Edison	Date: 3-21-13	Time: 1724	2. Received By:	Date: 3-21-13	Time: 1724
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments: M = ISM SAMPLE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. EASTERDAY	3/21/13	002583
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 5**
33 BOSTON POST RD WEST			
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
MARLBORO	MA	01752	J. DONOVAN	MARK LOEB
Project Name and Location (State)	**Carrier/Waybill Number**
RAVENNA	LAB PICK UP
Contract/Purchase Order/Quote No.	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: TAL METALS	Special Instructions/ Conditions of Receipt
07955-0254-0001-SO	3-20-13	1720				X	X						X	DISCRETE
07955-0255-0001-SO		1726				X	X						X	
07955-0276-0001-SO		1104				X	X						X	
07955-0277-0001-SO		1105				X	X						X	
07955-0285-0001-SO		1554				X	X						X	
07955-0286-0001-SO		1555				X	X						X	
07955-0303-0001-SO		1212				X	X						X	
07955-0304-0001-SO		1215				X	X						X	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/21/13	1630	1. Received By	3-21-13	1630
2. Relinquished By	3-21-13	1724	2. Received By	3-21-13	1724
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. EASTERDAY		002584
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 3 **of** 5
33 BOSTON POST RD WEST #420			
City	**State**	**Zip Code**	**Site Contact** / **Lab Contact**
MARLBORO	MA	01752	J. DONOVAN / MARK LORD
Project Name and Location (State)	**Carrier/Waybill Number**		
RAVENNA	LAB PICK UP		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TAL METALS
0795B-~~0268~~0267M-0001-SO	3-20-13	1153				X	X						X
0795B-0268M-0001-SO		1159											
0795B-0269M-0001-SO		1152											
0795B-0322M-0001-SO		1155											
0795B-0270M-0001-SO		1156											
0795B-0271M-0001-SO		0952											
0795B-0272M-0001-SO		1049											
0795B-0273M-0001-SO		1203											
0795B-0323M-0001-SO		1154											
0795B-0274M-0001-SO		1137											
0795B-0275M-0001-SO		1118											

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3-21-13	1630	1. Received By	3-21-13	1630
2. Relinquished By	3-21-13	1724	2. Received By	3-21-13	1724
3. Relinquished By			3. Received By		

Comments "M" = ISM SAMPLE

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. EASTERDAY	3/21/13	002585
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 4 of 5**
33 BOSTON POST ROAD WEST #420			
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
MARLBORO / MA / 01752	J. DONOVAN	MARK LOEB	
Project Name and Location (State)	**Carrier/Waybill Number**		
RAVENNA	LAB PICK UP		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): TAL METALS

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/ NaOH	TAL METALS
0795B-0278M-0001-SO	3-20-13	1626				X	X						X
0795B-0279M-0001-SO		1629											
0795B-0280M-0001-SO		1538											
0795B-0281M-0001-SO		1523											
0795B-0282M-0001-SO		1622											
0795B-0283M-0001-SO		1632											
0795B-0284M-0001-SO		1603											
0795B-0296M-0001-SO		1436											
0795B-0297M-0001-SO		1440											
0795B-0298M-0001-SO		1238											
0795B-0299M-0001-SO		1441											
0795B-0300M-0001-SO		1435											

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: J. Donovan	3/21/13		1. Received By: TC Tobin	3-21-13	1630
2. Relinquished By: TC Tobin	3-21-13	1724	2. Received By:	3-21-13	1724
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: ALL "A" SAMPLES ISM

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client: ECC	Project Manager: A. KASTERDAN	Date: 3/21/13	Chain of Custody Number: 002586
Address: 33 BOSTON POST ROAD WEST #420	Telephone Number (Area Code)/Fax Number	Lab Number	Page 5 of 5
City: MARLBORO	State: MA	Zip Code: 01752	Site Contact: J. DONOVAN	Lab Contact: MARK LOEB
Project Name and Location (State): RAVENNA	Carrier/Waybill Number: LAB PICK UP		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: TAL METALS	Special Instructions/ Conditions of Receipt
0795A-0301M-0001-SO	3-20-13	1448				X	X						X	
0795B-0302M-0001-SO	"	1219				X	X						X	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	3/21/13	1630	1. Received By: RC Tobison	3-21-13	1630
2. Relinquished By: RC Tobison	3-21-13	1724	2. Received By: [signature]	3-21-13	1724
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: ALL "A" SAMPLES ISM

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica Canton Sample Receipt Form/Narrative Login # : 22281

Client CCC Site Name _____ By: _____

Cooler Received on 3-21-13 Opened on 3-22-13 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # Not Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF –2 °C)	Observed Sample Temp._____°C	Corrected Sample Temp._____°C	☑ Multiple on Back
IR GUN# 4G	(CF 0 °C)	Observed Sample Temp._____°C	Corrected Sample Temp._____°C	
IR GUN# 5G	(CF 0 °C)	Observed Sample Temp._____°C	Corrected Sample Temp._____°C	
IR GUN# 8	(CF 0 °C)	Observed Sample Temp._____°C	Corrected Sample Temp._____°C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 0	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Did all bottles arrive in good condition (Unbroken)?	Yes	No
7. Could all bottle labels be reconciled with the COC?	Yes	No
8. Were correct bottle(s) used for the test(s) indicated?	Yes	No
9. Sufficient quantity received to perform indicated analyses?	Yes	No
10. Were sample(s) at the correct pH upon receipt?	Yes	No NA
11. Were VOAs on the COC?	Yes	No
12. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
13. Was a trip blank present in the cooler(s)?	Yes	No

Contacted PM MJL Date 3/22/13 by CSL via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Did not receive 0246M, 0248M, 0268M, and 0270M.

PER PHONE CONVERSATION WITH JEFF DONOVAN, 3-22-2013 @ 09:30, THESE SAMPLES WERE SENT TO THE QA LAB MJL 3-22-2013

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 051012-H2SO4; Sodium Hydroxide Lot# 121809 -NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22281-1

Login Number: 22281
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 03/28/13 11:10 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22281-1

Login Number: 22281
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 03/28/13 11:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22281-1

Login Number: 22281
List Number: 3
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 03/30/13 11:00 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	