

ANALYTICAL REPORT

Job Number: 280-90775-1
Job Description: Ravenna, OH - CBL

For:
Cardno TEC, Inc
1658 Cole Boulevard
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Golden, CO 80401
Attention: Ms. Heather Miner



Approved for release.
Patrick J McEntee
Manager of Project Management
11/30/2016 4:21 PM

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11/30/2016

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The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.
M	Manual integrated compound.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Cardno TEC, Inc

Project: Ravenna, OH - CBL

Report Number: 280-90775-1

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

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

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

RECEIPT

The samples were received on 11/10/2016 at 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.1° C, 1.1° C, 1.3° C, 2.9° C and 4.6° C.

SEMIVOLATILE ORGANIC COMPOUND (GC/MS SIM)

Samples CBLmw-001-110916-GW (280-90775-1), CBLmw-002-110916-GW (280-90775-2), CBLmw-003-110916-GW (280-90775-3) and CBLmw-004-110916-GW (280-90775-4) were analyzed for Semivolatile Organic Compound (GC/MS SIM) in accordance with SW-846 8270D. The samples were prepared on 11/15/2016 and analyzed on 11/19/2016.

2-Fluorobiphenyl (Surr) and Nitrobenzene-d5 (Surr) failed the surrogate recovery criteria low for CBLmw-001-110916-GW (280-90775-1). Evidence of matrix interferences is not obvious. Associated results are flagged "Q". Re-extraction and/or re-analysis could not be performed within two times the holding time; therefore, the data have been reported.

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

POLYCHLORINATED BIPHENYLS (PCBS)

Samples CBLmw-001-110916-GW (280-90775-1), CBLmw-002-110916-GW (280-90775-2), CBLmw-003-110916-GW (280-90775-3) and CBLmw-004-110916-GW (280-90775-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with SW-846 8082A. The samples were prepared on 11/15/2016 and analyzed on 11/29/2016.

The following samples underwent a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: CBLmw-001-110916-GW (280-90775-1), CBLmw-002-110916-GW (280-90775-2), CBLmw-003-110916-GW (280-90775-3), CBLmw-004-110916-GW (280-90775-4), (LCS 280-351619/2-A), (LCSD 280-351619/3-A), (MB 280-351619/1-A).

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 280-351619 recovered outside control limits on the confirmation column for the following analyte: PCB-1016. This analyte was in control on the primary column. Results are reported from the primary column.

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

CYANIDE, TOTAL

Samples CBLmw-001-110916-GW (280-90775-1), CBLmw-002-110916-GW (280-90775-2), CBLmw-003-110916-GW (280-90775-3) and CBLmw-004-110916-GW (280-90775-4) were analyzed for Cyanide, Total in accordance with 9012B. The samples were prepared on 11/18/2016 and analyzed on 11/19/2016.

Cyanide, Total was detected in method blank MB 280-352264/4-A at a level that was above the method detection limit but below one half the reporting limit. The value should be considered an estimate, and has been flagged.

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

Detection Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Client Sample ID: CBLmw-001-110916-GW

Lab Sample ID: 280-90775-1

No Detections.

Client Sample ID: CBLmw-002-110916-GW

Lab Sample ID: 280-90775-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil	Fac	D	Method	Prep Type
Cyanide, Total	2.6	J	10	2.0	ug/L	1			9012B	Total/NA

Client Sample ID: CBLmw-003-110916-GW

Lab Sample ID: 280-90775-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil	Fac	D	Method	Prep Type
Cyanide, Total	3.0	J	10	2.0	ug/L	1			9012B	Total/NA

Client Sample ID: CBLmw-004-110916-GW

Lab Sample ID: 280-90775-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil	Fac	D	Method	Prep Type
Cyanide, Total	2.3	J	10	2.0	ug/L	1			9012B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Client Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Client Sample ID: CBLmw-001-110916-GW

Date Collected: 11/09/16 10:45

Date Received: 11/10/16 10:00

Lab Sample ID: 280-90775-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.041	U Q	0.10	0.0043	ug/L		11/15/16 16:58	11/19/16 12:56	1
Acenaphthylene	0.041	U Q	0.10	0.0052	ug/L		11/15/16 16:58	11/19/16 12:56	1
Anthracene	0.041	U Q	0.10	0.0057	ug/L		11/15/16 16:58	11/19/16 12:56	1
Benzo[a]anthracene	0.012	U	0.10	0.0043	ug/L		11/15/16 16:58	11/19/16 12:56	1
Benzo[b]fluoranthene	0.012	U	0.10	0.0032	ug/L		11/15/16 16:58	11/19/16 12:56	1
Benzo[k]fluoranthene	0.012	U	0.10	0.0064	ug/L		11/15/16 16:58	11/19/16 12:56	1
Benzo[g,h,i]perylene	0.012	U	0.10	0.0063	ug/L		11/15/16 16:58	11/19/16 12:56	1
Benzo[a]pyrene	0.012	U	0.10	0.0070	ug/L		11/15/16 16:58	11/19/16 12:56	1
Chrysene	0.012	U	0.10	0.0034	ug/L		11/15/16 16:58	11/19/16 12:56	1
Dibenz(a,h)anthracene	0.012	U	0.10	0.0042	ug/L		11/15/16 16:58	11/19/16 12:56	1
Fluoranthene	0.012	U Q	0.10	0.0049	ug/L		11/15/16 16:58	11/19/16 12:56	1
Fluorene	0.041	U Q	0.10	0.0056	ug/L		11/15/16 16:58	11/19/16 12:56	1
Indeno[1,2,3-cd]pyrene	0.041	U	0.10	0.0046	ug/L		11/15/16 16:58	11/19/16 12:56	1
Naphthalene	0.012	U Q	0.10	0.0082	ug/L		11/15/16 16:58	11/19/16 12:56	1
Phenanthrene	0.020	U Q	0.10	0.0095	ug/L		11/15/16 16:58	11/19/16 12:56	1
Pyrene	0.020	U Q	0.10	0.0062	ug/L		11/15/16 16:58	11/19/16 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52	Q	53 - 106	11/15/16 16:58	11/19/16 12:56	1
Terphenyl-d14 (Surr)	101		58 - 132	11/15/16 16:58	11/19/16 12:56	1
Nitrobenzene-d5 (Surr)	51	Q	55 - 111	11/15/16 16:58	11/19/16 12:56	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1
PCB-1221	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1
PCB-1232	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1
PCB-1242	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1
PCB-1248	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1
PCB-1254	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1
PCB-1260	0.095	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	20		20 - 143	11/15/16 20:18	11/29/16 17:26	1
DCB Decachlorobiphenyl (Surr)	59		36 - 140	11/15/16 20:18	11/29/16 17:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	5.0	U	10	2.0	ug/L		11/18/16 09:14	11/19/16 08:57	1

Client Sample ID: CBLmw-002-110916-GW

Date Collected: 11/09/16 09:25

Date Received: 11/10/16 10:00

Lab Sample ID: 280-90775-2

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.041	U	0.10	0.0043	ug/L		11/15/16 16:58	11/19/16 13:23	1
Acenaphthylene	0.041	U	0.10	0.0052	ug/L		11/15/16 16:58	11/19/16 13:23	1
Anthracene	0.041	U	0.10	0.0057	ug/L		11/15/16 16:58	11/19/16 13:23	1
Benzo[a]anthracene	0.012	U	0.10	0.0043	ug/L		11/15/16 16:58	11/19/16 13:23	1

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Client Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Client Sample ID: CBLmw-002-110916-GW

Lab Sample ID: 280-90775-2

Date Collected: 11/09/16 09:25

Matrix: Water

Date Received: 11/10/16 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.012	U	0.10	0.0031	ug/L		11/15/16 16:58	11/19/16 13:23	1
Benzo[k]fluoranthene	0.012	U	0.10	0.0064	ug/L		11/15/16 16:58	11/19/16 13:23	1
Benzo[g,h,i]perylene	0.012	U	0.10	0.0063	ug/L		11/15/16 16:58	11/19/16 13:23	1
Benzo[a]pyrene	0.012	U	0.10	0.0070	ug/L		11/15/16 16:58	11/19/16 13:23	1
Chrysene	0.012	U	0.10	0.0033	ug/L		11/15/16 16:58	11/19/16 13:23	1
Dibenz(a,h)anthracene	0.012	U	0.10	0.0042	ug/L		11/15/16 16:58	11/19/16 13:23	1
Fluoranthene	0.012	U	0.10	0.0049	ug/L		11/15/16 16:58	11/19/16 13:23	1
Fluorene	0.041	U	0.10	0.0056	ug/L		11/15/16 16:58	11/19/16 13:23	1
Indeno[1,2,3-cd]pyrene	0.041	U	0.10	0.0046	ug/L		11/15/16 16:58	11/19/16 13:23	1
Naphthalene	0.012	U	0.10	0.0081	ug/L		11/15/16 16:58	11/19/16 13:23	1
Phenanthrene	0.020	U	0.10	0.0094	ug/L		11/15/16 16:58	11/19/16 13:23	1
Pyrene	0.020	U	0.10	0.0062	ug/L		11/15/16 16:58	11/19/16 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		53 - 106	11/15/16 16:58	11/19/16 13:23	1
Terphenyl-d14 (Surr)	78		58 - 132	11/15/16 16:58	11/19/16 13:23	1
Nitrobenzene-d5 (Surr)	61		55 - 111	11/15/16 16:58	11/19/16 13:23	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1
PCB-1221	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1
PCB-1232	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1
PCB-1242	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1
PCB-1248	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1
PCB-1254	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1
PCB-1260	0.096	U	0.14	0.040	ug/L		11/15/16 20:18	11/29/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	28		20 - 143	11/15/16 20:18	11/29/16 17:47	1
DCB Decachlorobiphenyl (Surr)	97		36 - 140	11/15/16 20:18	11/29/16 17:47	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.6	J	10	2.0	ug/L		11/18/16 09:14	11/19/16 09:02	1

Client Sample ID: CBLmw-003-110916-GW

Lab Sample ID: 280-90775-3

Date Collected: 11/09/16 12:45

Matrix: Water

Date Received: 11/10/16 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.099	0.0042	ug/L		11/15/16 16:58	11/19/16 13:49	1
Acenaphthylene	0.040	U	0.099	0.0051	ug/L		11/15/16 16:58	11/19/16 13:49	1
Anthracene	0.040	U	0.099	0.0056	ug/L		11/15/16 16:58	11/19/16 13:49	1
Benzo[a]anthracene	0.012	U	0.099	0.0042	ug/L		11/15/16 16:58	11/19/16 13:49	1
Benzo[b]fluoranthene	0.012	U	0.099	0.0031	ug/L		11/15/16 16:58	11/19/16 13:49	1
Benzo[k]fluoranthene	0.012	U	0.099	0.0063	ug/L		11/15/16 16:58	11/19/16 13:49	1
Benzo[g,h,i]perylene	0.012	U	0.099	0.0062	ug/L		11/15/16 16:58	11/19/16 13:49	1
Benzo[a]pyrene	0.012	U	0.099	0.0068	ug/L		11/15/16 16:58	11/19/16 13:49	1
Chrysene	0.012	U	0.099	0.0033	ug/L		11/15/16 16:58	11/19/16 13:49	1

TestAmerica Denver

Client Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Client Sample ID: CBLmw-003-110916-GW

Lab Sample ID: 280-90775-3

Date Collected: 11/09/16 12:45

Matrix: Water

Date Received: 11/10/16 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.012	U	0.099	0.0041	ug/L		11/15/16 16:58	11/19/16 13:49	1
Fluoranthene	0.012	U	0.099	0.0048	ug/L		11/15/16 16:58	11/19/16 13:49	1
Fluorene	0.040	U	0.099	0.0055	ug/L		11/15/16 16:58	11/19/16 13:49	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.099	0.0045	ug/L		11/15/16 16:58	11/19/16 13:49	1
Naphthalene	0.012	U	0.099	0.0079	ug/L		11/15/16 16:58	11/19/16 13:49	1
Phenanthrene	0.020	U	0.099	0.0092	ug/L		11/15/16 16:58	11/19/16 13:49	1
Pyrene	0.020	U	0.099	0.0061	ug/L		11/15/16 16:58	11/19/16 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		53 - 106	11/15/16 16:58	11/19/16 13:49	1
Terphenyl-d14 (Surr)	80		58 - 132	11/15/16 16:58	11/19/16 13:49	1
Nitrobenzene-d5 (Surr)	70		55 - 111	11/15/16 16:58	11/19/16 13:49	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1
PCB-1221	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1
PCB-1232	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1
PCB-1242	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1
PCB-1248	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1
PCB-1254	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1
PCB-1260	0.10	U	0.15	0.042	ug/L		11/15/16 20:18	11/29/16 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	50		20 - 143	11/15/16 20:18	11/29/16 18:09	1
DCB Decachlorobiphenyl (Surr)	107		36 - 140	11/15/16 20:18	11/29/16 18:09	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	3.0	J	10	2.0	ug/L		11/18/16 09:14	11/19/16 09:03	1

Client Sample ID: CBLmw-004-110916-GW

Lab Sample ID: 280-90775-4

Date Collected: 11/09/16 11:25

Matrix: Water

Date Received: 11/10/16 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.042	U	0.10	0.0044	ug/L		11/15/16 16:58	11/19/16 14:15	1
Acenaphthylene	0.042	U	0.10	0.0053	ug/L		11/15/16 16:58	11/19/16 14:15	1
Anthracene	0.042	U	0.10	0.0058	ug/L		11/15/16 16:58	11/19/16 14:15	1
Benzo[a]anthracene	0.013	U	0.10	0.0044	ug/L		11/15/16 16:58	11/19/16 14:15	1
Benzo[b]fluoranthene	0.013	U	0.10	0.0032	ug/L		11/15/16 16:58	11/19/16 14:15	1
Benzo[k]fluoranthene	0.013	U	0.10	0.0066	ug/L		11/15/16 16:58	11/19/16 14:15	1
Benzo[g,h,i]perylene	0.013	U	0.10	0.0065	ug/L		11/15/16 16:58	11/19/16 14:15	1
Benzo[a]pyrene	0.013	U	0.10	0.0072	ug/L		11/15/16 16:58	11/19/16 14:15	1
Chrysene	0.013	U	0.10	0.0034	ug/L		11/15/16 16:58	11/19/16 14:15	1
Dibenz(a,h)anthracene	0.013	U	0.10	0.0043	ug/L		11/15/16 16:58	11/19/16 14:15	1
Fluoranthene	0.013	U	0.10	0.0050	ug/L		11/15/16 16:58	11/19/16 14:15	1
Fluorene	0.042	U	0.10	0.0057	ug/L		11/15/16 16:58	11/19/16 14:15	1
Indeno[1,2,3-cd]pyrene	0.042	U	0.10	0.0047	ug/L		11/15/16 16:58	11/19/16 14:15	1
Naphthalene	0.013	U	0.10	0.0083	ug/L		11/15/16 16:58	11/19/16 14:15	1

TestAmerica Denver

Client Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Client Sample ID: CBLmw-004-110916-GW

Lab Sample ID: 280-90775-4

Date Collected: 11/09/16 11:25

Matrix: Water

Date Received: 11/10/16 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.021	U	0.10	0.0097	ug/L		11/15/16 16:58	11/19/16 14:15	1
Pyrene	0.021	U	0.10	0.0064	ug/L		11/15/16 16:58	11/19/16 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		53 - 106				11/15/16 16:58	11/19/16 14:15	1
Terphenyl-d14 (Surr)	95		58 - 132				11/15/16 16:58	11/19/16 14:15	1
Nitrobenzene-d5 (Surr)	83		55 - 111				11/15/16 16:58	11/19/16 14:15	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
PCB-1221	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
PCB-1232	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
PCB-1242	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
PCB-1248	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
PCB-1254	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
PCB-1260	0.10	U	0.15	0.043	ug/L		11/15/16 20:18	11/29/16 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	48		20 - 143				11/15/16 20:18	11/29/16 18:31	1
DCB Decachlorobiphenyl (Surr)	104		36 - 140				11/15/16 20:18	11/29/16 18:31	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.3	J	10	2.0	ug/L		11/18/16 09:14	11/19/16 09:05	1

Default Detection Limits

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

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

Prep: 3510C

Analyte	LOQ	DL	Units	Method
Acenaphthene	0.10	0.0042	ug/L	8270D SIM
Acenaphthylene	0.10	0.0051	ug/L	8270D SIM
Anthracene	0.10	0.0056	ug/L	8270D SIM
Benzo[a]anthracene	0.10	0.0042	ug/L	8270D SIM
Benzo[a]pyrene	0.10	0.0069	ug/L	8270D SIM
Benzo[b]fluoranthene	0.10	0.0031	ug/L	8270D SIM
Benzo[g,h,i]perylene	0.10	0.0062	ug/L	8270D SIM
Benzo[k]fluoranthene	0.10	0.0063	ug/L	8270D SIM
Chrysene	0.10	0.0033	ug/L	8270D SIM
Dibenz(a,h)anthracene	0.10	0.0041	ug/L	8270D SIM
Fluoranthene	0.10	0.0048	ug/L	8270D SIM
Fluorene	0.10	0.0055	ug/L	8270D SIM
Indeno[1,2,3-cd]pyrene	0.10	0.0045	ug/L	8270D SIM
Naphthalene	0.10	0.0080	ug/L	8270D SIM
Phenanthrene	0.10	0.0093	ug/L	8270D SIM
Pyrene	0.10	0.0061	ug/L	8270D SIM

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

Prep: 3510C

Analyte	LOQ	DL	Units	Method
PCB-1016	0.15	0.042	ug/L	8082A
PCB-1221	0.15	0.042	ug/L	8082A
PCB-1232	0.15	0.042	ug/L	8082A
PCB-1242	0.15	0.042	ug/L	8082A
PCB-1248	0.15	0.042	ug/L	8082A
PCB-1254	0.15	0.042	ug/L	8082A
PCB-1260	0.15	0.042	ug/L	8082A

General Chemistry

Prep: 9012B

Analyte	LOQ	DL	Units	Method
Cyanide, Total	10	2.0	ug/L	9012B

Surrogate Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (53-106)	TPH (58-132)	NBZ (55-111)
280-90775-1	CBLmw-001-110916-GW	52 Q	101	51 Q
280-90775-2	CBLmw-002-110916-GW	62	78	61
280-90775-3	CBLmw-003-110916-GW	68	80	70
280-90775-4	CBLmw-004-110916-GW	87	95	83
LCS 280-351615/2-A	Lab Control Sample	68	86	76
MB 280-351615/1-A	Method Blank	63	82	72

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

TPH = Terphenyl-d14 (Surr)

NBZ = Nitrobenzene-d5 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (20-143)	DCB2 (36-140)
280-90775-1	CBLmw-001-110916-GW	20	59
280-90775-2	CBLmw-002-110916-GW	28	97
280-90775-3	CBLmw-003-110916-GW	50	107
280-90775-4	CBLmw-004-110916-GW	48	104
LCS 280-351619/2-A	Lab Control Sample	45	100
LCSD 280-351619/3-A	Lab Control Sample Dup	48	101
MB 280-351619/1-A	Method Blank	59	113

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

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

Lab Sample ID: MB 280-351615/1-A

Matrix: Water

Analysis Batch: 352243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 351615

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.10	0.0042	ug/L		11/15/16 16:58	11/19/16 07:55	1
Acenaphthylene	0.040	U	0.10	0.0051	ug/L		11/15/16 16:58	11/19/16 07:55	1
Anthracene	0.040	U	0.10	0.0056	ug/L		11/15/16 16:58	11/19/16 07:55	1
Benzo[a]anthracene	0.012	U	0.10	0.0042	ug/L		11/15/16 16:58	11/19/16 07:55	1
Benzo[b]fluoranthene	0.012	U	0.10	0.0031	ug/L		11/15/16 16:58	11/19/16 07:55	1
Benzo[k]fluoranthene	0.012	U	0.10	0.0063	ug/L		11/15/16 16:58	11/19/16 07:55	1
Benzo[g,h,i]perylene	0.012	U	0.10	0.0062	ug/L		11/15/16 16:58	11/19/16 07:55	1
Benzo[a]pyrene	0.012	U	0.10	0.0069	ug/L		11/15/16 16:58	11/19/16 07:55	1
Chrysene	0.012	U	0.10	0.0033	ug/L		11/15/16 16:58	11/19/16 07:55	1
Dibenz(a,h)anthracene	0.012	U	0.10	0.0041	ug/L		11/15/16 16:58	11/19/16 07:55	1
Fluoranthene	0.012	U	0.10	0.0048	ug/L		11/15/16 16:58	11/19/16 07:55	1
Fluorene	0.040	U	0.10	0.0055	ug/L		11/15/16 16:58	11/19/16 07:55	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.10	0.0045	ug/L		11/15/16 16:58	11/19/16 07:55	1
Naphthalene	0.012	U	0.10	0.0080	ug/L		11/15/16 16:58	11/19/16 07:55	1
Phenanthrene	0.020	U	0.10	0.0093	ug/L		11/15/16 16:58	11/19/16 07:55	1
Pyrene	0.020	U	0.10	0.0061	ug/L		11/15/16 16:58	11/19/16 07:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		53 - 106	11/15/16 16:58	11/19/16 07:55	1
Terphenyl-d14 (Surr)	82		58 - 132	11/15/16 16:58	11/19/16 07:55	1
Nitrobenzene-d5 (Surr)	72		55 - 111	11/15/16 16:58	11/19/16 07:55	1

Lab Sample ID: LCS 280-351615/2-A

Matrix: Water

Analysis Batch: 352243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 351615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.900	0.801		ug/L		89	48 - 114
Acenaphthylene	0.900	0.769		ug/L		85	35 - 121
Anthracene	0.900	0.848		ug/L		94	53 - 119
Benzo[a]anthracene	0.900	0.851		ug/L		95	59 - 120
Benzo[b]fluoranthene	0.900	0.871		ug/L		97	53 - 126
Benzo[k]fluoranthene	0.900	0.860		ug/L		96	54 - 125
Benzo[g,h,i]perylene	0.900	0.912		ug/L		101	44 - 128
Benzo[a]pyrene	0.900	0.877		ug/L		97	53 - 120
Chrysene	0.900	0.907		ug/L		101	57 - 120
Dibenz(a,h)anthracene	0.900	0.973	M	ug/L		108	44 - 131
Fluoranthene	0.900	0.906		ug/L		101	58 - 120
Fluorene	0.900	0.881		ug/L		98	50 - 118
Indeno[1,2,3-cd]pyrene	0.900	0.946		ug/L		105	48 - 130
Naphthalene	0.900	0.729		ug/L		81	43 - 114
Phenanthrene	0.900	0.858		ug/L		95	53 - 115
Pyrene	0.900	0.876		ug/L		97	53 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		53 - 106
Terphenyl-d14 (Surr)	86		58 - 132

TestAmerica Denver

QC Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

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

Lab Sample ID: LCS 280-351615/2-A
Matrix: Water
Analysis Batch: 352243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351615

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	76		55 - 111

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

Lab Sample ID: MB 280-351619/1-A
Matrix: Water
Analysis Batch: 353508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351619

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1
PCB-1221	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1
PCB-1232	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1
PCB-1242	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1
PCB-1248	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1
PCB-1254	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1
PCB-1260	0.10	U	0.15	0.042	ug/L		11/15/16 18:06	11/29/16 16:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	59		20 - 143	11/15/16 18:06	11/29/16 16:21	1
DCB Decachlorobiphenyl (Surr)	113		36 - 140	11/15/16 18:06	11/29/16 16:21	1

Lab Sample ID: LCS 280-351619/2-A
Matrix: Water
Analysis Batch: 353508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.200	0.162		ug/L		81	46 - 129
PCB-1260	0.200	0.204		ug/L		102	45 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	45		20 - 143
DCB Decachlorobiphenyl (Surr)	100		36 - 140

Lab Sample ID: LCSD 280-351619/3-A
Matrix: Water
Analysis Batch: 353508

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 351619

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.200	0.159		ug/L		79	46 - 129	2	30
PCB-1260	0.200	0.194		ug/L		97	45 - 134	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	48		20 - 143
DCB Decachlorobiphenyl (Surr)	101		36 - 140

QC Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

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

Lab Sample ID: MB 280-352144/4-A

Matrix: Water

Analysis Batch: 352272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 352144

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	5.0	U	10	2.0	ug/L		11/18/16 09:14	11/19/16 08:56	1

Lab Sample ID: HLCS 280-352144/1-A

Matrix: Water

Analysis Batch: 352272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352144

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	400	387		ug/L		97	90 - 110

Lab Sample ID: LCS 280-352144/3-A

Matrix: Water

Analysis Batch: 352272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352144

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	98.2		ug/L		98	83 - 116

Lab Sample ID: LLCS 280-352144/2-A

Matrix: Water

Analysis Batch: 352272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352144

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102		ug/L		102	44 - 167

Lab Sample ID: 280-90775-1 MS

Matrix: Water

Analysis Batch: 352272

Client Sample ID: CBLmw-001-110916-GW

Prep Type: Total/NA

Prep Batch: 352144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.0	U	100	94.7		ug/L		95	83 - 116

Lab Sample ID: 280-90775-1 MSD

Matrix: Water

Analysis Batch: 352272

Client Sample ID: CBLmw-001-110916-GW

Prep Type: Total/NA

Prep Batch: 352144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	5.0	U	100	96.4		ug/L		96	83 - 116	2	20

Lab Sample ID: MB 280-352264/4-A

Matrix: Water

Analysis Batch: 352310

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 352264

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	4.42	J	10	2.0	ug/L		11/19/16 09:41	11/19/16 14:01	1

Lab Sample ID: HLCS 280-352264/1-A

Matrix: Water

Analysis Batch: 352310

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352264

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	400	378		ug/L		95	90 - 110

TestAmerica Denver

QC Sample Results

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Lab Sample ID: LCS 280-352264/3-A
Matrix: Water
Analysis Batch: 352310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352264
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	100	95.0		ug/L		95	83 - 116

Lab Sample ID: LLCS 280-352264/2-A
Matrix: Water
Analysis Batch: 352310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352264
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	100	93.1		ug/L		93	44 - 167

QC Association Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

GC/MS Semi VOA

Prep Batch: 351615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1	CBLmw-001-110916-GW	Total/NA	Water	3510C	
280-90775-2	CBLmw-002-110916-GW	Total/NA	Water	3510C	
280-90775-3	CBLmw-003-110916-GW	Total/NA	Water	3510C	
280-90775-4	CBLmw-004-110916-GW	Total/NA	Water	3510C	
MB 280-351615/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-351615/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 352243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1	CBLmw-001-110916-GW	Total/NA	Water	8270D SIM	351615
280-90775-2	CBLmw-002-110916-GW	Total/NA	Water	8270D SIM	351615
280-90775-3	CBLmw-003-110916-GW	Total/NA	Water	8270D SIM	351615
280-90775-4	CBLmw-004-110916-GW	Total/NA	Water	8270D SIM	351615
MB 280-351615/1-A	Method Blank	Total/NA	Water	8270D SIM	351615
LCS 280-351615/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	351615

GC Semi VOA

Prep Batch: 351619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1	CBLmw-001-110916-GW	Total/NA	Water	3510C	
280-90775-2	CBLmw-002-110916-GW	Total/NA	Water	3510C	
280-90775-3	CBLmw-003-110916-GW	Total/NA	Water	3510C	
280-90775-4	CBLmw-004-110916-GW	Total/NA	Water	3510C	
MB 280-351619/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-351619/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-351619/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 353508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1	CBLmw-001-110916-GW	Total/NA	Water	8082A	351619
280-90775-2	CBLmw-002-110916-GW	Total/NA	Water	8082A	351619
280-90775-3	CBLmw-003-110916-GW	Total/NA	Water	8082A	351619
280-90775-4	CBLmw-004-110916-GW	Total/NA	Water	8082A	351619
MB 280-351619/1-A	Method Blank	Total/NA	Water	8082A	351619
LCS 280-351619/2-A	Lab Control Sample	Total/NA	Water	8082A	351619
LCSD 280-351619/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	351619

General Chemistry

Prep Batch: 352144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1	CBLmw-001-110916-GW	Total/NA	Water	9012B	
280-90775-2	CBLmw-002-110916-GW	Total/NA	Water	9012B	
280-90775-3	CBLmw-003-110916-GW	Total/NA	Water	9012B	
280-90775-4	CBLmw-004-110916-GW	Total/NA	Water	9012B	
MB 280-352144/4-A	Method Blank	Total/NA	Water	9012B	
HLCS 280-352144/1-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 280-352144/3-A	Lab Control Sample	Total/NA	Water	9012B	
LLCS 280-352144/2-A	Lab Control Sample	Total/NA	Water	9012B	

TestAmerica Denver

QC Association Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

General Chemistry (Continued)

Prep Batch: 352144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1 MS	CBLmw-001-110916-GW	Total/NA	Water	9012B	
280-90775-1 MSD	CBLmw-001-110916-GW	Total/NA	Water	9012B	

Prep Batch: 352264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-352264/4-A	Method Blank	Total/NA	Water	9012B	
HLCS 280-352264/1-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 280-352264/3-A	Lab Control Sample	Total/NA	Water	9012B	
LLCS 280-352264/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 352272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-90775-1	CBLmw-001-110916-GW	Total/NA	Water	9012B	352144
280-90775-2	CBLmw-002-110916-GW	Total/NA	Water	9012B	352144
280-90775-3	CBLmw-003-110916-GW	Total/NA	Water	9012B	352144
280-90775-4	CBLmw-004-110916-GW	Total/NA	Water	9012B	352144
MB 280-352144/4-A	Method Blank	Total/NA	Water	9012B	352144
HLCS 280-352144/1-A	Lab Control Sample	Total/NA	Water	9012B	352144
LCS 280-352144/3-A	Lab Control Sample	Total/NA	Water	9012B	352144
LLCS 280-352144/2-A	Lab Control Sample	Total/NA	Water	9012B	352144
280-90775-1 MS	CBLmw-001-110916-GW	Total/NA	Water	9012B	352144
280-90775-1 MSD	CBLmw-001-110916-GW	Total/NA	Water	9012B	352144

Analysis Batch: 352310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-352264/4-A	Method Blank	Total/NA	Water	9012B	352264
HLCS 280-352264/1-A	Lab Control Sample	Total/NA	Water	9012B	352264
LCS 280-352264/3-A	Lab Control Sample	Total/NA	Water	9012B	352264
LLCS 280-352264/2-A	Lab Control Sample	Total/NA	Water	9012B	352264

Lab Chronicle

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Client Sample ID: CBLmw-001-110916-GW

Date Collected: 11/09/16 10:45

Date Received: 11/10/16 10:00

Lab Sample ID: 280-90775-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			245.3 mL	1 mL	351615	11/15/16 16:58	BJA	TAL DEN
Total/NA	Analysis	8270D SIM		1			352243	11/19/16 12:56	KGV	TAL DEN
Total/NA	Prep	3510C			1049.6 mL	1 mL	351619	11/15/16 20:18	BJA	TAL DEN
Total/NA	Analysis	8082A		1			353508	11/29/16 17:26	TDJ	TAL DEN
Total/NA	Prep	9012B			50 mL	50 mL	352144	11/18/16 09:14	ALS	TAL DEN
Total/NA	Analysis	9012B		1	50 mL	50 mL	352272	11/19/16 08:57	JML	TAL DEN

Client Sample ID: CBLmw-002-110916-GW

Date Collected: 11/09/16 09:25

Date Received: 11/10/16 10:00

Lab Sample ID: 280-90775-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			246.7 mL	1 mL	351615	11/15/16 16:58	BJA	TAL DEN
Total/NA	Analysis	8270D SIM		1			352243	11/19/16 13:23	KGV	TAL DEN
Total/NA	Prep	3510C			1045.4 mL	1 mL	351619	11/15/16 20:18	BJA	TAL DEN
Total/NA	Analysis	8082A		1			353508	11/29/16 17:47	TDJ	TAL DEN
Total/NA	Prep	9012B			50 mL	50 mL	352144	11/18/16 09:14	ALS	TAL DEN
Total/NA	Analysis	9012B		1	50 mL	50 mL	352272	11/19/16 09:02	JML	TAL DEN

Client Sample ID: CBLmw-003-110916-GW

Date Collected: 11/09/16 12:45

Date Received: 11/10/16 10:00

Lab Sample ID: 280-90775-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			251.9 mL	1 mL	351615	11/15/16 16:58	BJA	TAL DEN
Total/NA	Analysis	8270D SIM		1			352243	11/19/16 13:49	KGV	TAL DEN
Total/NA	Prep	3510C			998.2 mL	1 mL	351619	11/15/16 20:18	BJA	TAL DEN
Total/NA	Analysis	8082A		1			353508	11/29/16 18:09	TDJ	TAL DEN
Total/NA	Prep	9012B			50 mL	50 mL	352144	11/18/16 09:14	ALS	TAL DEN
Total/NA	Analysis	9012B		1	50 mL	50 mL	352272	11/19/16 09:03	JML	TAL DEN

Client Sample ID: CBLmw-004-110916-GW

Date Collected: 11/09/16 11:25

Date Received: 11/10/16 10:00

Lab Sample ID: 280-90775-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			239.6 mL	1 mL	351615	11/15/16 16:58	BJA	TAL DEN
Total/NA	Analysis	8270D SIM		1			352243	11/19/16 14:15	KGV	TAL DEN
Total/NA	Prep	3510C			983 mL	1 mL	351619	11/15/16 20:18	BJA	TAL DEN
Total/NA	Analysis	8082A		1			353508	11/29/16 18:31	TDJ	TAL DEN
Total/NA	Prep	9012B			50 mL	50 mL	352144	11/18/16 09:14	ALS	TAL DEN
Total/NA	Analysis	9012B		1	50 mL	50 mL	352272	11/19/16 09:05	JML	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17
Analysis Method	Prep Method	Matrix	Analyte	

Method Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL DEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Cardno TEC, Inc
Project/Site: Ravenna, OH - CBL

TestAmerica Job ID: 280-90775-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-90775-1	CBLmw-001-110916-GW	Water	11/09/16 10:45	11/10/16 10:00
280-90775-2	CBLmw-002-110916-GW	Water	11/09/16 09:25	11/10/16 10:00
280-90775-3	CBLmw-003-110916-GW	Water	11/09/16 12:45	11/10/16 10:00
280-90775-4	CBLmw-004-110916-GW	Water	11/09/16 11:25	11/10/16 10:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Instrument ID: SMS_X4 Analysis Batch Number: 344978Lab Sample ID: STD0020 280-344978/2 IC Client Sample ID: _____Date Analyzed: 10/05/16 11:07 Lab File ID: X4_7790.D GC Column: Rxi-5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	18.08	Split Peak	vasquezk	10/05/16 11:29

Lab Sample ID: STD0100 280-344978/3 IC Client Sample ID: _____Date Analyzed: 10/05/16 11:34 Lab File ID: X4_7791.D GC Column: Rxi-5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	18.13	Assign Peak	vasquezk	10/05/16 14:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Instrument ID: SMS_X4 Analysis Batch Number: 352243Lab Sample ID: CCV 280-352243/2 Client Sample ID: _____Date Analyzed: 11/19/16 07:21 Lab File ID: X4_8551.D GC Column: Rxi-5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz (a,h)anthracene	18.15	Peak Tail	vasquezk	11/19/16 11:20

Lab Sample ID: LCS 280-351615/2-A Client Sample ID: _____Date Analyzed: 11/19/16 08:21 Lab File ID: X4_8553.D GC Column: Rxi-5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz (a,h)anthracene	18.14	Peak Tail	vasquezk	11/22/16 10:49

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3 Analysis Batch Number: 345281Lab Sample ID: STD121248 280-345281/6 Client Sample ID: _____Date Analyzed: 10/08/16 13:27 Lab File ID: 10081606.D GC Column: CLP1 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	4.02	Baseline Smoothing	jacksono	10/09/16 09:16
PCB-1248 Peak 2	4.38	Baseline Smoothing	jacksono	10/09/16 09:16
PCB-1248 Peak 3	4.62	Baseline Smoothing	jacksono	10/09/16 09:16
PCB-1248 Peak 4	5.12	Baseline Smoothing	jacksono	10/09/16 09:16
PCB-1248 Peak 5	5.14	Baseline Smoothing	jacksono	10/09/16 09:16

Lab Sample ID: STD11248 280-345281/7 Client Sample ID: _____Date Analyzed: 10/08/16 13:49 Lab File ID: 10081607.D GC Column: CLP1 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	4.01	Baseline Smoothing	jacksono	10/09/16 09:17
PCB-1248 Peak 2	4.38	Baseline Smoothing	jacksono	10/09/16 09:17
PCB-1248 Peak 3	4.62	Baseline Smoothing	jacksono	10/09/16 09:17
PCB-1248 Peak 4	5.12	Baseline Smoothing	jacksono	10/09/16 09:17
PCB-1248 Peak 5	5.14	Baseline Smoothing	jacksono	10/09/16 09:17

Lab Sample ID: STD171660 280-345281/15 Client Sample ID: _____Date Analyzed: 10/08/16 16:42 Lab File ID: 10081615.D GC Column: CLP1 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.20	Baseline Smoothing	jacksono	10/09/16 09:13
PCB-1016 Peak 2	3.55	Baseline Smoothing	jacksono	10/09/16 09:13
PCB-1016 Peak 3	4.02	Baseline Smoothing	jacksono	10/09/16 09:13
PCB-1016 Peak 4	4.16	Baseline Smoothing	jacksono	10/09/16 09:13
PCB-1016 Peak 5	4.62	Baseline Smoothing	jacksono	10/09/16 09:13

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3 Analysis Batch Number: 345281Lab Sample ID: STD61660 280-345281/16 Client Sample ID: _____Date Analyzed: 10/08/16 17:04 Lab File ID: 10081616.D GC Column: CLP1 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.19	Baseline Smoothing	jacksonto	10/09/16 09:12
PCB-1016 Peak 2	3.55	Baseline Smoothing	jacksonto	10/09/16 09:12
PCB-1016 Peak 3	4.02	Baseline Smoothing	jacksonto	10/09/16 09:12
PCB-1016 Peak 4	4.16	Baseline Smoothing	jacksonto	10/09/16 09:12
PCB-1016 Peak 5	4.62	Baseline Smoothing	jacksonto	10/09/16 09:12

Lab Sample ID: STD23262 280-345281/27 Client Sample ID: _____Date Analyzed: 10/08/16 21:02 Lab File ID: 10081627.D GC Column: CLP1 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	3.20	Baseline Smoothing	jacksonto	10/09/16 09:14
PCB-1232 Peak 2	3.55	Baseline Smoothing	jacksonto	10/09/16 09:14
PCB-1232 Peak 3	4.02	Baseline Smoothing	jacksonto	10/09/16 09:14
PCB-1232 Peak 4	4.16	Baseline Smoothing	jacksonto	10/09/16 09:14
PCB-1232 Peak 5	4.62	Baseline Smoothing	jacksonto	10/09/16 09:14

Lab Sample ID: ICV 280-345281/38 Client Sample ID: _____Date Analyzed: 10/09/16 01:00 Lab File ID: 10081638.D GC Column: CLP1 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	6.11	Baseline Smoothing	jacksonto	10/09/16 09:24
PCB-1260 Peak 2	6.85	Baseline Smoothing	jacksonto	10/09/16 09:24
PCB-1260 Peak 3	7.34	Baseline Smoothing	jacksonto	10/09/16 09:24
PCB-1260 Peak 4	7.77	Baseline Smoothing	jacksonto	10/09/16 09:24
PCB-1260 Peak 5	8.16	Baseline Smoothing	jacksonto	10/09/16 09:24

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8081/82 Surr_00090	04/16/17	11/02/16	ACETONE, Lot Acetone_00157	1000 mL	AR_SURR_RES_00059	1 mL	DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene (Surr)	0.2 ug/mL
.AR_SURR_RES_00059	06/30/22		RESTEK, Lot A0118280		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
8082 LCS_00044	07/07/17	07/07/16	ACETONE, Lot Acetone_000151	500 mL	8082LCSSTOCK_00032	1 mL	PCB-1016	2 ug/mL
							PCB-1260	2 ug/mL
.8082LCSSTOCK_00032	06/30/21		RESTEK, Lot A0109664		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
8270 SIM Surr_00065	07/30/17	10/17/16	ACETONE, Lot Acetone_00161	1000 mL	8270SurStkHL_00182	0.1 mL	2,4,6 - Tribromophenol	0.5 ug/mL
							2,4,6-Tribromophenol	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5	0.5 ug/mL
							Phenol-d6	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.8270SurStkHL_00182	07/30/17		Restek, Lot A0103960		(Purchased Reagent)		2,4,6 - Tribromophenol	5000 ug/mL
							2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Phenol-d6	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
8270BO-SIMLCS_00019	04/30/17	10/21/16	P&T Methanol, Lot MethanolP&T_00151	250 mL	MS-570666_00002	0.225 mL	1,1'-Biphenyl	0.9 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.9 ug/mL
							1,2,4-Trichlorobenzene	0.9 ug/mL
							1,2-Dichlorobenzene	0.9 ug/mL
							1,2-Diphenylhydrazine	0.909877 ug/mL
							1,3-Dichlorobenzene	0.9 ug/mL
							1,3-Dinitrobenzene	0.9 ug/mL
							1,4-Dichlorobenzene	0.9 ug/mL
							1,4-Dioxane	0.9 ug/mL
							1-Methylnaphthalene	0.9 ug/mL
							2,2'-oxybis[1-chloropropane]	0.9 ug/mL
							2,3,4,6-Tetrachlorophenol	0.9 ug/mL
							2,4,5-Trichlorophenol	0.9 ug/mL
							2,4,6-Trichlorophenol	0.9 ug/mL
							2,4-Dichlorophenol	0.9 ug/mL
							2,4-Dimethylphenol	0.9 ug/mL
							2,4-Dinitrophenol	1.8 ug/mL
							2,4-Dinitrotoluene	0.9 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	0.9 ug/mL
							2,6-Dinitrotoluene	0.9 ug/mL
							2-Chloronaphthalene	0.9 ug/mL
							2-Chlorophenol	0.9 ug/mL
							2-Methylnaphthalene	0.9 ug/mL
							2-Methylphenol	0.9 ug/mL
							2-Nitroaniline	0.9 ug/mL
							2-Nitrophenol	0.9 ug/mL
							3 & 4 Methylphenol	0.9 ug/mL
							3-Methylphenol	0.9 ug/mL
							3-Nitroaniline	0.9 ug/mL
							4,6-Dinitro-2-methylphenol	1.8 ug/mL
							4-Bromophenyl phenyl ether	0.9 ug/mL
							4-Chloro-3-methylphenol	0.9 ug/mL
							4-Chloroaniline	0.9 ug/mL
							4-Chlorophenyl phenyl ether	0.9 ug/mL
							4-Methylphenol	0.9 ug/mL
							4-Nitroaniline	0.9 ug/mL
							4-Nitrophenol	1.8 ug/mL
							Acenaphthene	0.9 ug/mL
							Acenaphthylene	0.9 ug/mL
							Acetophenone	0.9 ug/mL
							Aniline	0.9 ug/mL
							Anthracene	0.9 ug/mL
							Azobenzene	0.9 ug/mL
							Benzo[a]anthracene	0.9 ug/mL
							Benzo[a]pyrene	0.9 ug/mL
							Benzo[b]fluoranthene	0.9 ug/mL
							Benzo[g,h,i]perylene	0.9 ug/mL
							Benzo[k]fluoranthene	0.9 ug/mL
							Benzyl alcohol	0.9 ug/mL
							Bis (2-chloroethoxy)methane	0.9 ug/mL
							Bis (2-chloroethyl) ether	0.9 ug/mL
							Bis (2-ethylhexyl) phthalate	0.9 ug/mL
							Butyl benzyl phthalate	0.9 ug/mL
							Carbazole	0.9 ug/mL
							Chrysene	0.9 ug/mL
							Di-n-butyl phthalate	0.9 ug/mL
							Di-n-octyl phthalate	0.9 ug/mL
							Dibenz (a,h) anthracene	0.9 ug/mL
							Dibenzofuran	0.9 ug/mL
							Diethyl phthalate	0.9 ug/mL
							Dimethyl phthalate	0.9 ug/mL
							Diphenylamine	0.7695 ug/mL
							Fluoranthene	0.9 ug/mL
							Fluorene	0.9 ug/mL
							Hexachlorobenzene	0.9 ug/mL
							Hexachlorobutadiene	0.9 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	0.9 ug/mL
							Hexachloroethane	0.9 ug/mL
							Hexadecane	0.9 ug/mL
							Indeno[1,2,3-cd]pyrene	0.9 ug/mL
							Isophorone	0.9 ug/mL
							n-Decane	0.9 ug/mL
							N-Nitrosodi-n-propylamine	0.9 ug/mL
							N-Nitrosodimethylamine	0.9 ug/mL
							N-Nitrosodiphenylamine	0.9 ug/mL
							n-Octadecane	0.9 ug/mL
							Naphthalene	0.9 ug/mL
							Nitrobenzene	0.9 ug/mL
							Pentachlorophenol	1.8 ug/mL
							Phenanthrene	0.9 ug/mL
							Phenol	0.9 ug/mL
							Pyrene	0.9 ug/mL
.MS-570666_00002	04/30/17		Restek, Lot A0114832			(Purchased Reagent)	Pyridine	0.9 ug/mL
							1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1010.97 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
AR_1248_ICV_00009	11/10/16	05/10/16	Hexane, Lot 116331	100 mL	AR_1248_RESs_00006	25 uL	PCB-1248	250 ng/mL
.AR_1248_RESs_00006	04/27/17		RESTEK, Lot A0107321		(Purchased Reagent)		PCB-1248	1000 ug/mL
AR_1248_L1_00017	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_1248_L7_00012	0.25 mL	PCB-1248 Peak 1	0.025 ug/mL
							PCB-1248 Peak 2	0.025 ug/mL
							PCB-1248 Peak 3	0.025 ug/mL
							PCB-1248 Peak 4	0.025 ug/mL
							PCB-1248 Peak 5	0.025 ug/mL
.AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
..AR_1248_RES_00007	04/27/17		RESTEK, Lot A01110957		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1248_L2_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_1248_L7_00012	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
.AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
..AR_1248_RES_00007	04/27/17		RESTEK, Lot A01110957		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1248_L3_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_1248_L7_00012	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..AR_1248_RES_00007	04/27/17	RESTEK, Lot A01110957			(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1248_L4_00017	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_1248_L7_00012	2.5 mL	PCB-1248 Peak 1	0.25 ug/mL
							PCB-1248 Peak 2	0.25 ug/mL
							PCB-1248 Peak 3	0.25 ug/mL
							PCB-1248 Peak 4	0.25 ug/mL
							PCB-1248 Peak 5	0.25 ug/mL
.AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
..AR_1248_RES_00007	04/27/17	RESTEK, Lot A01110957			(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1248_L5_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_1248_L7_00012	5 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
..AR_1248_RES_00007	04/27/17	RESTEK, Lot A01110957			(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1248_L6_00014	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_1248_L7_00012	7.5 mL	PCB-1248 Peak 1	0.75 ug/mL
							PCB-1248 Peak 2	0.75 ug/mL
							PCB-1248 Peak 3	0.75 ug/mL
							PCB-1248 Peak 4	0.75 ug/mL
							PCB-1248 Peak 5	0.75 ug/mL
.AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
..AR_1248_RES_00007	04/27/17	RESTEK, Lot A01110957			(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1248_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1248_RES_00007	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.AR_1248_RES_00007	04/27/17		RESTEK, Lot A01110957		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1660_ICV_00009	10/27/16	05/10/16	Hexane, Lot 116331	100 mL	AR_1660_RESss_00006	25 uL	PCB-1016	250 ng/mL
					AR_SURR_RES_00032	6.25 uL	PCB-1260	250 ng/mL
							DCB Decachlorobiphenyl (Surr)	12.5 ng/mL
							Tetrachloro-m-xylene (Surr)	12.5 ng/mL
					(Purchased Reagent)		PCB-1016	1000 ug/mL
.AR_1660_RESss_00006	04/27/17		RESTEK, Lot A0114674				PCB-1260	1000 ug/mL
.AR_SURR_RES_00032	10/27/16		RESTEK, Lot A0108779		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
AR_1660_L1_00026	10/27/16	04/27/16	hexane, Lot 116331	10 mL	AR_1660_L7_00020	0.25 mL	PCB-1016 Peak 1	0.025 ug/mL
							PCB-1016 Peak 2	0.025 ug/mL
							PCB-1016 Peak 3	0.025 ug/mL
							PCB-1016 Peak 4	0.025 ug/mL
							PCB-1016 Peak 5	0.025 ug/mL
							PCB-1260 Peak 1	0.025 ug/mL
							PCB-1260 Peak 2	0.025 ug/mL
							PCB-1260 Peak 3	0.025 ug/mL
							PCB-1260 Peak 4	0.025 ug/mL
							PCB-1260 Peak 5	0.025 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.00125 ug/mL
							Tetrachloro-m-xylene (Surr)	0.00125 ug/mL
.AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					AR_SURR_RES_00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
..AR_1016_RES_00008	04/27/17		RESTEK, Lot A0112461		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..AR_1260_RES_00010	04/27/17	RESTEK, Lot A0113625			(Purchased Reagent)		PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
..AR_SURR_RES_00049	04/27/17	RESTEK, Lot A0115723			(Purchased Reagent)		PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
							DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
AR_1660_L2_00025	10/27/16	04/27/16	hexane, Lot 116331	10 mL	AR_1660_L7_00020	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.0025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0025 ug/mL
.AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					AR_SURR_RES_00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
..AR_1016_RES_00008	04/27/17	RESTEK, Lot A0112461			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..AR_1260_RES_00010	04/27/17	RESTEK, Lot A0113625			(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..AR_SURR_RES_00049	04/27/17	RESTEK, Lot A0115723			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
AR_1660_L3_00026	10/27/16	04/27/16	hexane, Lot 116331	10 mL	AR_1660_L7_00020	1 mL	PCB-1016 Peak 1	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.005 ug/mL
							Tetrachloro-m-xylene (Surr)	0.005 ug/mL
.AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					AR_SURR_RES_00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
..AR_1016_RES_00008	04/27/17		RESTEK, Lot A0112461		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..AR_1260_RES_00010	04/27/17		RESTEK, Lot A0113625		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..AR_SURR_RES_00049	04/27/17		RESTEK, Lot A0115723		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
AR_1660_L4_00063	10/27/16	04/27/16	hexane, Lot 116331	10 mL	AR_1660_L7_00020	2.5 mL	PCB-1016 Peak 1	0.25 ug/mL
							PCB-1016 Peak 2	0.25 ug/mL
							PCB-1016 Peak 3	0.25 ug/mL
							PCB-1016 Peak 4	0.25 ug/mL
							PCB-1016 Peak 5	0.25 ug/mL
							PCB-1260 Peak 1	0.25 ug/mL
							PCB-1260 Peak 2	0.25 ug/mL
							PCB-1260 Peak 3	0.25 ug/mL
							PCB-1260 Peak 4	0.25 ug/mL
							PCB-1260 Peak 5	0.25 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.0125 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					AR_SURR_RES_00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
..AR_1016_RES_00008	04/27/17	RESTEK, Lot A0112461	(Purchased Reagent)	PCB-1016 Peak 1	1000 ug/mL			
				PCB-1016 Peak 2	1000 ug/mL			
				PCB-1016 Peak 3	1000 ug/mL			
				PCB-1016 Peak 4	1000 ug/mL			
				PCB-1016 Peak 5	1000 ug/mL			
..AR_1260_RES_00010	04/27/17	RESTEK, Lot A0113625	(Purchased Reagent)	PCB-1260 Peak 1	1000 ug/mL			
				PCB-1260 Peak 2	1000 ug/mL			
				PCB-1260 Peak 3	1000 ug/mL			
				PCB-1260 Peak 4	1000 ug/mL			
				PCB-1260 Peak 5	1000 ug/mL			
..AR_SURR_RES_00049	04/27/17	RESTEK, Lot A0115723	(Purchased Reagent)	DCB Decachlorobiphenyl (Surr)	200 ug/mL			
				Tetrachloro-m-xylene (Surr)	200 ug/mL			
AR_1660_L5_00060	10/27/16	04/27/16	hexane, Lot 116131	25 mL	AR_1660_L7_00020	12.5 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.025 ug/mL
.AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					AR SURR RES 00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..AR_1016_RES_00008	04/27/17		RESTEK, Lot A0112461		(Purchased Reagent)		Tetrachloro-m-xylene (Surr)	0.05 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
..AR_1260_RES_00010	04/27/17		RESTEK, Lot A0113625		(Purchased Reagent)		PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
..AR_SURR_RES_00049	04/27/17		RESTEK, Lot A0115723		(Purchased Reagent)		PCB-1260 Peak 5	1000 ug/mL
							DCB Decachlorobiphenyl (Surr)	200 ug/mL
AR_1660_L5_00061	04/28/17	10/28/16	hexane, Lot 135581	25 mL	AR_1660_L7_00021	12.5 mL	Tetrachloro-m-xylene (Surr)	200 ug/mL
							PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.025 ug/mL
.AR_1660_L7_00021	04/28/17	10/28/16	Hexane, Lot 135581	100 mL	AR_1016_RES_00009	100 uL	PCB-1016	1 ug/mL
					AR_1260_RES_00011	100 uL	PCB-1260	1 ug/mL
					AR_SURR_RES_00055	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
..AR_1016_RES_00009	10/28/17		RESTEK, Lot A0117379		(Purchased Reagent)		Tetrachloro-m-xylene (Surr)	0.05 ug/mL
..AR_1260_RES_00011	10/28/17		RESTEK, Lot A0116299		(Purchased Reagent)		PCB-1016	1000 ug/mL
..AR_SURR_RES_00055	10/28/17		RESTEK, Lot A0117949		(Purchased Reagent)		PCB-1260	1000 ug/mL
AR_1660_L6_00027	10/27/16	04/27/16	hexane, Lot 116331	10 mL	AR_1660_L7_00020	7.5 mL	DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
							PCB-1016 Peak 1	0.75 ug/mL
							PCB-1016 Peak 2	0.75 ug/mL
							PCB-1016 Peak 3	0.75 ug/mL
							PCB-1016 Peak 4	0.75 ug/mL
							PCB-1016 Peak 5	0.75 ug/mL
							PCB-1260 Peak 1	0.75 ug/mL
							PCB-1260 Peak 2	0.75 ug/mL
							PCB-1260 Peak 3	0.75 ug/mL
							PCB-1260 Peak 4	0.75 ug/mL
.AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1260 Peak 5	0.75 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0375 ug/mL
							PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					AR_SURR_RES_00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
..AR_1016_RES_00008	04/27/17	RESTEK, Lot A0112461			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..AR_1260_RES_00010	04/27/17	RESTEK, Lot A0113625			(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..AR_SURR_RES_00049	04/27/17	RESTEK, Lot A0115723			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
AR_1660_L7_00020	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1016_RES_00008	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
					AR_1260_RES_00010	100 uL	PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					AR_SURR_RES_00049	25 uL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
.AR_1016_RES_00008	04/27/17	RESTEK, Lot A0112461			(Purchased Reagent)		PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
.AR_1260_RES_00010	04/27/17	RESTEK, Lot A0113625			(Purchased Reagent)		PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
							DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
.AR_SURR_RES_00049	04/27/17	RESTEK, Lot A0115723			(Purchased Reagent)		PCB-1221	250 ng/mL
							PCB-1254	250 ng/mL
AR_2154_ICV_00009	11/10/16	05/10/16	Hexane, Lot 116331	100 mL	AR_1221 RESss_00006	25 uL	PCB-1221	1000 ug/mL
.AR_1221 RESss_00006	04/27/17	RESTEK, Lot A094157			(Purchased Reagent)		PCB-1254	1000 ug/mL
.AR_1254 RESss_00006	04/27/17	RESTEK, Lot A0105373			(Purchased Reagent)		PCB-1221	1000 ug/mL
AR_2154_L1_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_2154_L7_00012	0.25 mL	PCB-1221	250 ng/mL
							PCB-1254	250 ng/mL
							PCB-1221 Peak 1	0.025 ug/mL
							PCB-1221 Peak 2	0.025 ug/mL
							PCB-1221 Peak 3	0.025 ug/mL
PCB-1254 Peak 1	0.025 ug/mL							
PCB-1254 Peak 2	0.025 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 3	0.025 ug/mL
							PCB-1254 Peak 4	0.025 ug/mL
							PCB-1254 Peak 5	0.025 ug/mL
.AR_2154_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
..AR_1221_RES_00007	04/27/17		RESTEK, Lot A0110245		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..AR_1254_RES_00007	04/27/17		RESTEK, Lot A0112456		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR_2154_L2_00017	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_2154_L7_00012	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.AR_2154_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
..AR_1221_RES_00007	04/27/17		RESTEK, Lot A0110245		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..AR_1254_RES_00007	04/27/17		RESTEK, Lot A0112456		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR_2154_L3_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_2154_L7_00012	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
			Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
			Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
			Hexane, Lot 116331	10 mL	AR_2154_L7_00012	2.5 mL	PCB-1254 Peak 5	1000 ug/mL
							PCB-1221 Peak 1	0.25 ug/mL
							PCB-1221 Peak 2	0.25 ug/mL
							PCB-1221 Peak 3	0.25 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	0.25 ug/mL
							PCB-1254 Peak 2	0.25 ug/mL
							PCB-1254 Peak 3	0.25 ug/mL
							PCB-1254 Peak 4	0.25 ug/mL
			Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1254 Peak 5	0.25 ug/mL
							PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
			Hexane, Lot 116331	10 mL	AR_2154_L7_00012	5 mL	PCB-1254 Peak 5	1 ug/mL
							PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
			Hexane, Lot 116331	10 mL	AR_2154_L7_00012	5 mL	PCB-1254 Peak 5	1000 ug/mL
							PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
			Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.AR_2154_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
..AR_1221_RES_00007	04/27/17	RESTEK, Lot A0110245			(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..AR_1254_RES_00007	04/27/17	RESTEK, Lot A0112456			(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR_2154_L6_00014	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_2154_L7_00012	7.5 mL	PCB-1221 Peak 1	0.75 ug/mL
							PCB-1221 Peak 2	0.75 ug/mL
							PCB-1221 Peak 3	0.75 ug/mL
							PCB-1254 Peak 1	0.75 ug/mL
							PCB-1254 Peak 2	0.75 ug/mL
							PCB-1254 Peak 3	0.75 ug/mL
							PCB-1254 Peak 4	0.75 ug/mL
							PCB-1254 Peak 5	0.75 ug/mL
.AR_2154_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
					AR_1254_RES_00007	100 uL	PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
..AR_1221_RES_00007	04/27/17	RESTEK, Lot A0110245			(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..AR_1254_RES_00007	04/27/17	RESTEK, Lot A0112456			(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR_2154_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1221_RES_00007	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					AR_1254_RES_00007	100 uL	PCB-1221 Peak 3 PCB-1254 Peak 1 PCB-1254 Peak 2 PCB-1254 Peak 3 PCB-1254 Peak 4 PCB-1254 Peak 5	1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL
.AR_1221_RES_00007	04/27/17		RESTEK, Lot A0110245		(Purchased Reagent)		PCB-1221 Peak 1 PCB-1221 Peak 2 PCB-1221 Peak 3	1000 ug/mL 1000 ug/mL 1000 ug/mL
.AR_1254_RES_00007	04/27/17		RESTEK, Lot A0112456		(Purchased Reagent)		PCB-1254 Peak 1 PCB-1254 Peak 2 PCB-1254 Peak 3 PCB-1254 Peak 4 PCB-1254 Peak 5	1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL
AR_3262_ICV_00009	11/10/16	05/10/16	Hexane, Lot 116331	100 mL	AR_1232_RESss_00006	25 uL	PCB-1232	250 ng/mL
.AR_1232_RESss_00006	04/27/17		RESTEK, Lot A095877		(Purchased Reagent)		PCB-1232	1000 ug/mL
AR_3262_L1_00017	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_3262_L7_00012	0.25 mL	PCB-1232 Peak 1 PCB-1232 Peak 2 PCB-1232 Peak 3 PCB-1232 Peak 4 PCB-1232 Peak 5 PCB-1262 Peak 1 PCB-1262 Peak 2 PCB-1262 Peak 3 PCB-1262 Peak 4 PCB-1262 Peak 5	0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL 0.025 ug/mL
.AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1 PCB-1232 Peak 2 PCB-1232 Peak 3 PCB-1232 Peak 4 PCB-1232 Peak 5	1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1 PCB-1262 Peak 2 PCB-1262 Peak 3 PCB-1262 Peak 4 PCB-1262 Peak 5	1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL 1 ug/mL
..AR_1232_RES_00008	04/27/17		RESTEK, Lot A0107138		(Purchased Reagent)		PCB-1232 Peak 1 PCB-1232 Peak 2 PCB-1232 Peak 3 PCB-1232 Peak 4 PCB-1232 Peak 5	1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL
..AR_1262_RES_00008	04/27/17		RESTEK, Lot A0113548		(Purchased Reagent)		PCB-1262 Peak 1 PCB-1262 Peak 2 PCB-1262 Peak 3 PCB-1262 Peak 4 PCB-1262 Peak 5	1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL
AR_3262_L2_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_3262_L7_00012	0.5 mL	PCB-1232 Peak 1	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 2	0.05 ug/mL
							PCB-1232 Peak 3	0.05 ug/mL
							PCB-1232 Peak 4	0.05 ug/mL
							PCB-1232 Peak 5	0.05 ug/mL
							PCB-1262 Peak 1	0.05 ug/mL
							PCB-1262 Peak 2	0.05 ug/mL
							PCB-1262 Peak 3	0.05 ug/mL
							PCB-1262 Peak 4	0.05 ug/mL
							PCB-1262 Peak 5	0.05 ug/mL
.AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
..AR_1232_RES_00008	04/27/17		RESTEK, Lot A0107138		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..AR_1262_RES_00008	04/27/17		RESTEK, Lot A0113548		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
AR_3262_L3_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_3262_L7_00012	1 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
							PCB-1262 Peak 1	0.1 ug/mL
							PCB-1262 Peak 2	0.1 ug/mL
							PCB-1262 Peak 3	0.1 ug/mL
							PCB-1262 Peak 4	0.1 ug/mL
							PCB-1262 Peak 5	0.1 ug/mL
.AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
..AR_1232_RES_00008	04/27/17	RESTEK, Lot A0107138			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..AR_1262_RES_00008	04/27/17	RESTEK, Lot A0113548			(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
AR_3262_L4_00017	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_3262_L7_00012	2.5 mL	PCB-1232 Peak 1	0.25 ug/mL
							PCB-1232 Peak 2	0.25 ug/mL
							PCB-1232 Peak 3	0.25 ug/mL
							PCB-1232 Peak 4	0.25 ug/mL
							PCB-1232 Peak 5	0.25 ug/mL
							PCB-1262 Peak 1	0.25 ug/mL
							PCB-1262 Peak 2	0.25 ug/mL
							PCB-1262 Peak 3	0.25 ug/mL
							PCB-1262 Peak 4	0.25 ug/mL
							PCB-1262 Peak 5	0.25 ug/mL
.AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
..AR_1232_RES_00008	04/27/17	RESTEK, Lot A0107138			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..AR_1262_RES_00008	04/27/17	RESTEK, Lot A0113548			(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
AR_3262_L5_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_3262_L7_00012	5 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							PCB-1262 Peak 1	0.5 ug/mL							
							PCB-1262 Peak 2	0.5 ug/mL							
							PCB-1262 Peak 3	0.5 ug/mL							
							PCB-1262 Peak 4	0.5 ug/mL							
							PCB-1262 Peak 5	0.5 ug/mL							
.AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1	1 ug/mL							
							PCB-1232 Peak 2	1 ug/mL							
							PCB-1232 Peak 3	1 ug/mL							
							PCB-1232 Peak 4	1 ug/mL							
							PCB-1232 Peak 5	1 ug/mL							
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1	1 ug/mL							
							PCB-1262 Peak 2	1 ug/mL							
							PCB-1262 Peak 3	1 ug/mL							
							PCB-1262 Peak 4	1 ug/mL							
							PCB-1262 Peak 5	1 ug/mL							
..AR_1232_RES_00008	04/27/17	RESTEK, Lot A0107138			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL							
							PCB-1232 Peak 2	1000 ug/mL							
							PCB-1232 Peak 3	1000 ug/mL							
							PCB-1232 Peak 4	1000 ug/mL							
							PCB-1232 Peak 5	1000 ug/mL							
							..AR_1262_RES_00008	04/27/17	RESTEK, Lot A0113548			(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
														PCB-1262 Peak 2	1000 ug/mL
														PCB-1262 Peak 3	1000 ug/mL
														PCB-1262 Peak 4	1000 ug/mL
														PCB-1262 Peak 5	1000 ug/mL
AR_3262_L6_00014	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_3262_L7_00012	7.5 mL	PCB-1232 Peak 1	0.75 ug/mL							
							PCB-1232 Peak 2	0.75 ug/mL							
							PCB-1232 Peak 3	0.75 ug/mL							
							PCB-1232 Peak 4	0.75 ug/mL							
							PCB-1232 Peak 5	0.75 ug/mL							
							PCB-1262 Peak 1	0.75 ug/mL							
							PCB-1262 Peak 2	0.75 ug/mL							
							PCB-1262 Peak 3	0.75 ug/mL							
							PCB-1262 Peak 4	0.75 ug/mL							
							PCB-1262 Peak 5	0.75 ug/mL							
.AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1	1 ug/mL							
							PCB-1232 Peak 2	1 ug/mL							
							PCB-1232 Peak 3	1 ug/mL							
							PCB-1232 Peak 4	1 ug/mL							
							PCB-1232 Peak 5	1 ug/mL							
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1	1 ug/mL							
							PCB-1262 Peak 2	1 ug/mL							
							PCB-1262 Peak 3	1 ug/mL							
							PCB-1262 Peak 4	1 ug/mL							
							PCB-1262 Peak 5	1 ug/mL							
..AR_1232_RES_00008	04/27/17	RESTEK, Lot A0107138			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL							
							PCB-1232 Peak 2	1000 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..AR_1262_RES_00008	04/27/17		RESTEK, Lot A0113548		(Purchased Reagent)		PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
AR_3262_L7_00012	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1232_RES_00008	100 uL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
					AR_1262_RES_00008	100 uL	PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
.AR_1232_RES_00008	04/27/17		RESTEK, Lot A0107138		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
.AR_1262_RES_00008	04/27/17		RESTEK, Lot A0113548		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
AR_4268_ICV_00009	11/10/16	05/10/16	Hexane, Lot 116331	100 mL	AR_1242_RESss_00006	25 uL	PCB-1242	250 ng/mL
.AR_1242_RESss_00006	04/27/17		RESTEK, Lot A0105175		(Purchased Reagent)		PCB-1242	1000 ug/mL
AR_4268_L1_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_4268_L7_00011	0.25 mL	PCB-1242 Peak 1	0.025 ug/mL
							PCB-1242 Peak 2	0.025 ug/mL
							PCB-1242 Peak 3	0.025 ug/mL
							PCB-1242 Peak 4	0.025 ug/mL
							PCB-1242 Peak 5	0.025 ug/mL
							PCB-1268 Peak 1	0.025 ug/mL
							PCB-1268 Peak 2	0.025 ug/mL
							PCB-1268 Peak 3	0.025 ug/mL
							PCB-1268 Peak 4	0.025 ug/mL
							PCB-1268 Peak 5	0.025 ug/mL
.AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
..AR_1242_RES_00007	04/27/17		RESTEK, Lot A0112462		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..AR_1268_RES_00007	04/27/17		RESTEK, Lot A0110266		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
AR_4268_L2_00015	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_4268_L7_00011	0.5 mL	PCB-1242 Peak 1	0.05 ug/mL
							PCB-1242 Peak 2	0.05 ug/mL
							PCB-1242 Peak 3	0.05 ug/mL
							PCB-1242 Peak 4	0.05 ug/mL
							PCB-1242 Peak 5	0.05 ug/mL
							PCB-1268 Peak 1	0.05 ug/mL
							PCB-1268 Peak 2	0.05 ug/mL
							PCB-1268 Peak 3	0.05 ug/mL
							PCB-1268 Peak 4	0.05 ug/mL
							PCB-1268 Peak 5	0.05 ug/mL
.AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
..AR_1242_RES_00007	04/27/17		RESTEK, Lot A0112462		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..AR_1268_RES_00007	04/27/17		RESTEK, Lot A0110266		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
AR_4268_L3_00015	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_4268_L7_00011	1 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 5	0.1 ug/mL
							PCB-1268 Peak 1	0.1 ug/mL
							PCB-1268 Peak 2	0.1 ug/mL
							PCB-1268 Peak 3	0.1 ug/mL
							PCB-1268 Peak 4	0.1 ug/mL
							PCB-1268 Peak 5	0.1 ug/mL
.AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
..AR_1242_RES_00007	04/27/17	RESTEK, Lot A0112462			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..AR_1268_RES_00007	04/27/17	RESTEK, Lot A0110266			(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
AR_4268_L4_00018	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_4268_L7_00011	2.5 mL	PCB-1242 Peak 1	0.25 ug/mL
							PCB-1242 Peak 2	0.25 ug/mL
							PCB-1242 Peak 3	0.25 ug/mL
							PCB-1242 Peak 4	0.25 ug/mL
							PCB-1242 Peak 5	0.25 ug/mL
							PCB-1268 Peak 1	0.25 ug/mL
							PCB-1268 Peak 2	0.25 ug/mL
							PCB-1268 Peak 3	0.25 ug/mL
							PCB-1268 Peak 4	0.25 ug/mL
							PCB-1268 Peak 5	0.25 ug/mL
.AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
..AR_1242_RES_00007	04/27/17	RESTEK, Lot A0112462			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..AR_1268_RES_00007	04/27/17		RESTEK, Lot A0110266		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
AR_4268_L5_00016	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_4268_L7_00011	5 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
							PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
							PCB-1268 Peak 5	0.5 ug/mL
.AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
..AR_1242_RES_00007	04/27/17		RESTEK, Lot A0112462		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..AR_1268_RES_00007	04/27/17		RESTEK, Lot A0110266		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
AR_4268_L6_00013	10/27/16	04/27/16	Hexane, Lot 116331	10 mL	AR_4268_L7_00011	7.5 mL	PCB-1242 Peak 1	0.75 ug/mL
							PCB-1242 Peak 2	0.75 ug/mL
							PCB-1242 Peak 3	0.75 ug/mL
							PCB-1242 Peak 4	0.75 ug/mL
							PCB-1242 Peak 5	0.75 ug/mL
							PCB-1268 Peak 1	0.75 ug/mL
							PCB-1268 Peak 2	0.75 ug/mL
							PCB-1268 Peak 3	0.75 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	0.75 ug/mL
							PCB-1268 Peak 5	0.75 ug/mL
.AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
..AR_1242_RES_00007	04/27/17	RESTEK, Lot A0112462			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..AR_1268_RES_00007	04/27/17	RESTEK, Lot A0110266			(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
AR_4268_L7_00011	10/27/16	04/27/16	Hexane, Lot 116331	100 mL	AR_1242_RES_00007	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
					AR_1268_RES_00007	100 uL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
.AR_1242_RES_00007	04/27/17	RESTEK, Lot A0112462			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
.AR_1268_RES_00007	04/27/17	RESTEK, Lot A0110266			(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
BNB IS 00008								
	02/18/17	08/18/16	Hexane, Lot 116331	100 mL	BNB 10000ppb_00004	10 mL	1-Bromo-2-nitrobenzene	1000 ng/mL
.BNB 10000ppb 00004								
	02/18/17	08/18/16	Hexane, Lot 110063	100 mL	BNB stock 00006	1 mL	1-Bromo-2-nitrobenzene	10000 ng/mL
..BNB stock 00006								
	08/18/17	Restek, Lot A0110081			(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
CN 10ppm_00229								
	11/22/16	11/15/16	2% NaOH, Lot 1% NaOH 00078	100 mg/L	CN CAL Std_00052	1 mL	Cyanide, Amenable	10 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyanide, Free	10 mg/L
							Cyanide, Non-amenable	10 mg/L
							Cyanide, Total	10 mg/L
							Cyanide, Weak Acid Dissociable	10 mg/L
.CN CAL Std_00052	03/31/17		Ricca, Lot 2609C92		(Purchased Reagent)		Cyanide, Amenable	1000 mg/L
							Cyanide, Free	1000 mg/L
							Cyanide, Non-amenable	1000 mg/L
							Cyanide, Total	1000 mg/L
							Cyanide, Weak Acid Dissociable	1000 mg/L
CN CAL 1 ppm 01178	11/19/16	11/18/16	1% NaOH, Lot N/A	100 mL	CN 10ppm 00229	10 mL	Cyanide, Total	1 mg/L
.CN 10ppm_00229	11/22/16	11/15/16	2% NaOH, Lot 1% NaOH_00078	100 mg/L	CN CAL Std_00052	1 mL	Cyanide, Total	10 mg/L
..CN CAL Std_00052	03/31/17		Ricca, Lot 2609C92		(Purchased Reagent)		Cyanide, Total	1000 mg/L
CN ICV Daily_00942	11/19/16	11/18/16	1% HNO3, Lot N/A	100 mL	CN ICV Int_00408	1 mL	Cyanide, Total	0.1 mg/L
.CN ICV Int_00408	11/22/16	11/15/16	1% NaOH, Lot 1% NaOH_00078	100 mL	CN ICV Std_00038	1 mL	Cyanide, Total	10 mg/L
..CN ICV Std_00038	04/16/18		CPI, Lot 1097445		(Purchased Reagent)		Cyanide, Total	1000 mg/L
CN ICV Int_00408	11/22/16	11/15/16	1% NaOH, Lot 1% NaOH_00078	100 mL	CN ICV Std_00038	1 mL	Cyanide, Amenable	10 mg/L
							Cyanide, Free	10 mg/L
							Cyanide, Non-amenable	0 mg/L
							Cyanide, Total	10 mg/L
							Cyanide, Weak Acid Dissociable	10 mg/L
.CN ICV Std_00038	04/16/18		CPI, Lot 1097445		(Purchased Reagent)		Cyanide, Amenable	1000 mg/L
							Cyanide, Free	1000 mg/L
							Cyanide, Non-amenable	0 mg/L
							Cyanide, Total	1000 mg/L
							Cyanide, Weak Acid Dissociable	1000 mg/L
MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
.MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..MS-567684_00018	11/30/19		Restek, Lot A0107273		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MS-SIM SSV_00114	02/11/17	09/14/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19	Restek, Lot A0107273			(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MS-SIM SSV_00114	02/11/17	09/14/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM SSV_00113	30 uL	Acenaphthene	1.2 ug/mL
							Acenaphthylene	1.2 ug/mL
							Anthracene	1.2 ug/mL
							Benzo[a]anthracene	1.2 ug/mL
							Benzo[a]pyrene	1.2 ug/mL
							Benzo[b]fluoranthene	1.2 ug/mL
							Benzo[g,h,i]perylene	1.2 ug/mL
							Benzo[k]fluoranthene	1.2 ug/mL
							Chrysene	1.2 ug/mL
							Dibenz(a,h)anthracene	1.2 ug/mL
							Fluoranthene	1.2 ug/mL
							Fluorene	1.2 ug/mL
							Indeno[1,2,3-cd]pyrene	1.2 ug/mL
							Naphthalene	1.2 ug/mL
							Phenanthrene	1.2 ug/mL
Pyrene	1.2 ug/mL							
.MS-SIM SSV_00113	06/30/17	09/13/16	Methylene Chloride, Lot 131181	10 mL	MS-HSLB1_STK_00008	1 mL	Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
Pyrene	20 ug/mL							
..MS-HSLB1_STK_00008	06/30/17	06/30/16	Methylene Chloride, Lot 123631	10 mL	MS-570666.SEC_00001	2 mL	Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...MS-570666.SEC_00001	06/30/17	Restek, Lot A0115803			(Purchased Reagent)		Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
MS-SIMSL 0.02_00064	02/11/17	09/15/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL Int._00018	5 uL	2-Fluorobiphenyl (Surr)	0.02 ug/mL
							Nitrobenzene-d5 (Surr)	0.02002 ug/mL
							Terphenyl-d14 (Surr)	0.02002 ug/mL
							2-Methylnaphthalene	0.04 ug/mL
							1-Methylnaphthalene	0.02 ug/mL
							Acenaphthene	0.02 ug/mL
							Acenaphthylene	0.02 ug/mL
							Anthracene	0.02 ug/mL
							Benzo[a]anthracene	0.02 ug/mL
							Benzo[a]pyrene	0.02 ug/mL
							Benzo[b]fluoranthene	0.02 ug/mL
							Benzo[g,h,i]perylene	0.02 ug/mL
							Benzo[k]fluoranthene	0.02 ug/mL
							Chrysene	0.02 ug/mL
							Dibenz(a,h)anthracene	0.02 ug/mL
							Fluoranthene	0.02 ug/mL
							Fluorene	0.02 ug/mL
							Indeno[1,2,3-cd]pyrene	0.02 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	0.02 ug/mL
							Phenanthrene	0.02 ug/mL
							Pyrene	0.02 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19	Restek, Lot A0107273			(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL Int._00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-SIMSL_00018	1 mL	2-Fluorobiphenyl (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2.002 ug/mL
							Terphenyl-d14 (Surr)	2.002 ug/mL
							2-Methylnaphthalene	4 ug/mL
							1-Methylnaphthalene	2 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Anthracene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Chrysene	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Naphthalene	2 ug/mL
							Phenanthrene	2 ug/mL
							Pyrene	2 ug/mL
..MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL
					MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
...MS-48925_00014	08/31/17		Supelco, Lot LC08783V		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
...MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
....MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
....MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz(a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 0.1_00061	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL Int._00018	25 uL	2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1001 ug/mL
							Terphenyl-d14 (Surr)	0.1001 ug/mL
							2-Methylnaphthalene	0.2 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19		Restek, Lot A0107273		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL Int._00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-SIMSL_00018	1 mL	2-Fluorobiphenyl (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2.002 ug/mL
							Terphenyl-d14 (Surr)	2.002 ug/mL
							2-Methylnaphthalene	4 ug/mL
							1-Methylnaphthalene	2 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Anthracene	2 ug/mL		
							Benzo[a]anthracene	2 ug/mL		
							Benzo[a]pyrene	2 ug/mL		
							Benzo[b]fluoranthene	2 ug/mL		
							Benzo[g,h,i]perylene	2 ug/mL		
							Benzo[k]fluoranthene	2 ug/mL		
							Chrysene	2 ug/mL		
							Dibenz(a,h)anthracene	2 ug/mL		
							Fluoranthene	2 ug/mL		
							Fluorene	2 ug/mL		
							Indeno[1,2,3-cd]pyrene	2 ug/mL		
							Naphthalene	2 ug/mL		
							Phenanthrene	2 ug/mL		
							Pyrene	2 ug/mL		
..MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL		
							Nitrobenzene-d5 (Surr)	20.02 ug/mL		
							Terphenyl-d14 (Surr)	20.02 ug/mL		
							MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
									1-Methylnaphthalene	20 ug/mL
									Acenaphthene	20 ug/mL
									Acenaphthylene	20 ug/mL
									Anthracene	20 ug/mL
									Benzo[a]anthracene	20 ug/mL
									Benzo[a]pyrene	20 ug/mL
									Benzo[b]fluoranthene	20 ug/mL
									Benzo[g,h,i]perylene	20 ug/mL
									Benzo[k]fluoranthene	20 ug/mL
									Chrysene	20 ug/mL
									Dibenz(a,h)anthracene	20 ug/mL
									Fluoranthene	20 ug/mL
									Fluorene	20 ug/mL
									Indeno[1,2,3-cd]pyrene	20 ug/mL
									Naphthalene	20 ug/mL
									Phenanthrene	20 ug/mL
									Pyrene	20 ug/mL
...MS-48925_00014	08/31/17	Supelco, Lot LC08783V			(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL		
							Nitrobenzene-d5 (Surr)	1001 ug/mL		
							Terphenyl-d14 (Surr)	1001 ug/mL		
...MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL		
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL		
							2-Methylnaphthalene	400 ug/mL		
							Acenaphthene	200 ug/mL		
							Acenaphthylene	200 ug/mL		
							Anthracene	200 ug/mL		
							Benzo[a]anthracene	200 ug/mL		
							Benzo[a]pyrene	200 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
....MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
....MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz (a,h) anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 0.3_00059	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL Int._00018	75 uL	2-Fluorobiphenyl (Surr)	0.3 ug/mL
							Nitrobenzene-d5 (Surr)	0.3003 ug/mL
							Terphenyl-d14 (Surr)	0.3003 ug/mL
							2-Methylnaphthalene	0.6 ug/mL
							1-Methylnaphthalene	0.3 ug/mL
							Acenaphthene	0.3 ug/mL
							Acenaphthylene	0.3 ug/mL
							Anthracene	0.3 ug/mL
							Benzo[a]anthracene	0.3 ug/mL
							Benzo[a]pyrene	0.3 ug/mL
							Benzo[b]fluoranthene	0.3 ug/mL
							Benzo[g,h,i]perylene	0.3 ug/mL
							Benzo[k]fluoranthene	0.3 ug/mL
							Chrysene	0.3 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz (a,h)anthracene	0.3 ug/mL
							Fluoranthene	0.3 ug/mL
							Fluorene	0.3 ug/mL
							Indeno[1,2,3-cd]pyrene	0.3 ug/mL
							Naphthalene	0.3 ug/mL
							Phenanthrene	0.3 ug/mL
							Pyrene	0.3 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19	Restek, Lot A0107273			(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL Int._00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-SIMSL_00018	1 mL	2-Fluorobiphenyl (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2.002 ug/mL
							Terphenyl-d14 (Surr)	2.002 ug/mL
							2-Methylnaphthalene	4 ug/mL
							1-Methylnaphthalene	2 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Anthracene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Chrysene	2 ug/mL
							Dibenz (a,h)anthracene	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Naphthalene	2 ug/mL
							Phenanthrene	2 ug/mL
							Pyrene	2 ug/mL
..MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL
					MS-SIM SL_stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
...MS-48925_00014	08/31/17		Supelco, Lot LC08783V		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
...MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
....MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
....MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	2000 ug/mL
							Dibenz (a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 0.6_00109	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL_00018	15 uL	2-Fluorobiphenyl (Surr)	0.6 ug/mL
							Nitrobenzene-d5 (Surr)	0.6006 ug/mL
							Terphenyl-d14 (Surr)	0.6006 ug/mL
							2-Methylnaphthalene	1.2 ug/mL
							1-Methylnaphthalene	0.6 ug/mL
							Acenaphthene	0.6 ug/mL
							Acenaphthylene	0.6 ug/mL
							Anthracene	0.6 ug/mL
							Benzo[a]anthracene	0.6 ug/mL
							Benzo[a]pyrene	0.6 ug/mL
							Benzo[b]fluoranthene	0.6 ug/mL
							Benzo[g,h,i]perylene	0.6 ug/mL
							Benzo[k]fluoranthene	0.6 ug/mL
							Chrysene	0.6 ug/mL
							Dibenz (a,h)anthracene	0.6 ug/mL
							Fluoranthene	0.6 ug/mL
							Fluorene	0.6 ug/mL
							Indeno[1,2,3-cd]pyrene	0.6 ug/mL
							Naphthalene	0.6 ug/mL
							Phenanthrene	0.6 ug/mL
							Pyrene	0.6 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19		Restek, Lot A0107273		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
..MS-48925_00014	08/31/17		Supelco, Lot LC08783V		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
..MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
...MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz(a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 0.6_00110	02/11/17	10/19/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19		Restek, Lot A0107273		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MS-SIMSL 0.6_00110	02/11/17	10/19/16	Methylene Chloride, Lot 131181	500 uL	MS-SIMSL_00018	15 uL	2-Fluorobiphenyl (Surr)	0.6 ug/mL
							Nitrobenzene-d5 (Surr)	0.6006 ug/mL
							Terphenyl-d14 (Surr)	0.6006 ug/mL
							Acenaphthene	0.6 ug/mL
							Acenaphthylene	0.6 ug/mL
							Anthracene	0.6 ug/mL
							Benzo[a]anthracene	0.6 ug/mL
							Benzo[a]pyrene	0.6 ug/mL
							Benzo[b]fluoranthene	0.6 ug/mL
							Benzo[g,h,i]perylene	0.6 ug/mL
							Benzo[k]fluoranthene	0.6 ug/mL
							Chrysene	0.6 ug/mL
							Dibenz(a,h)anthracene	0.6 ug/mL
							Fluoranthene	0.6 ug/mL
							Fluorene	0.6 ug/mL
							Indeno[1,2,3-cd]pyrene	0.6 ug/mL
							Naphthalene	0.6 ug/mL
							Phenanthrene	0.6 ug/mL
							Pyrene	0.6 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL
					MS-SIM SL_Stk_00015	1 mL	Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
..MS-48925_00014	08/31/17	Supelco, Lot LC08783V			(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
..MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31995_00004	0.5 mL	Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...MS-31995_00004	10/31/18	Restek, Lot A092153			(Purchased Reagent)		Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	2000 ug/mL
							Dibenz (a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 1.2_00061	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL_00018	30 uL	2-Fluorobiphenyl (Surr)	1.2 ug/mL
							Nitrobenzene-d5 (Surr)	1.2012 ug/mL
							Terphenyl-d14 (Surr)	1.2012 ug/mL
							2-Methylnaphthalene	2.4 ug/mL
							1-Methylnaphthalene	1.2 ug/mL
							Acenaphthene	1.2 ug/mL
							Acenaphthylene	1.2 ug/mL
							Anthracene	1.2 ug/mL
							Benzo[a]anthracene	1.2 ug/mL
							Benzo[a]pyrene	1.2 ug/mL
							Benzo[b]fluoranthene	1.2 ug/mL
							Benzo[g,h,i]perylene	1.2 ug/mL
							Benzo[k]fluoranthene	1.2 ug/mL
							Chrysene	1.2 ug/mL
							Dibenz (a,h)anthracene	1.2 ug/mL
							Fluoranthene	1.2 ug/mL
							Fluorene	1.2 ug/mL
							Indeno[1,2,3-cd]pyrene	1.2 ug/mL
							Naphthalene	1.2 ug/mL
							Phenanthrene	1.2 ug/mL
							Pyrene	1.2 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19		Restek, Lot A0107273		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
..MS-48925_00014	08/31/17		Supelco, Lot LC08783V		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
..MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
...MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz(a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 2.5_00060	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL_00018	62.5 uL	2-Fluorobiphenyl (Surr)	2.5 ug/mL
							Nitrobenzene-d5 (Surr)	2.5025 ug/mL
							Terphenyl-d14 (Surr)	2.5025 ug/mL
							2-Methylnaphthalene	5 ug/mL
							1-Methylnaphthalene	2.5 ug/mL
							Acenaphthene	2.5 ug/mL
							Acenaphthylene	2.5 ug/mL
							Anthracene	2.5 ug/mL
							Benzo[a]anthracene	2.5 ug/mL
							Benzo[a]pyrene	2.5 ug/mL
							Benzo[b]fluoranthene	2.5 ug/mL
							Benzo[g,h,i]perylene	2.5 ug/mL
							Benzo[k]fluoranthene	2.5 ug/mL
							Chrysene	2.5 ug/mL
							Dibenz(a,h)anthracene	2.5 ug/mL
							Fluoranthene	2.5 ug/mL
							Fluorene	2.5 ug/mL
							Indeno[1,2,3-cd]pyrene	2.5 ug/mL
							Naphthalene	2.5 ug/mL
							Phenanthrene	2.5 ug/mL
							Pyrene	2.5 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19		Restek, Lot A0107273		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL
					MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz (a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
..MS-48925_00014	08/31/17	Supelco, Lot LC08783V			(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
..MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz (a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...MS-31010_00011	03/31/19	Restek, Lot A0116027			(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
...MS-31995_00004	10/31/18	Restek, Lot A092153			(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz(a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMSL 5_00061	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL_00018	125 uL	2-Fluorobiphenyl (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5.005 ug/mL
							Terphenyl-d14 (Surr)	5.005 ug/mL
							2-Methylnaphthalene	10 ug/mL
							1-Methylnaphthalene	5 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Chrysene	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Naphthalene	5 ug/mL
							Phenanthrene	5 ug/mL
							Pyrene	5 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19	Restek, Lot A0107273			(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL
					MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
..MS-48925_00014	08/31/17	Supelco, Lot LC08783V			(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
..MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
							MS-31995_00004	0.5 mL
					2-Methylnaphthalene	400 ug/mL		
					Acenaphthene	200 ug/mL		
					Acenaphthylene	200 ug/mL		
					Anthracene	200 ug/mL		
					Benzo[a]anthracene	200 ug/mL		
					Benzo[a]pyrene	200 ug/mL		
					Benzo[b]fluoranthene	200 ug/mL		
					Benzo[g,h,i]perylene	200 ug/mL		
					Benzo[k]fluoranthene	200 ug/mL		
					Chrysene	200 ug/mL		
					Dibenz(a,h)anthracene	200 ug/mL		
					Fluoranthene	200 ug/mL		
					Fluorene	200 ug/mL		
					Indeno[1,2,3-cd]pyrene	200 ug/mL		
					Naphthalene	200 ug/mL		
					Phenanthrene	200 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		Pyrene	200 ug/mL
...MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
							1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz(a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL
MS-SIMX 10_00053	02/11/17	09/22/16	Methylene Chloride, Lot 131181	500 uL	MS-SIM IS_00028	50 uL	Acenaphthene-d10	0.6 ug/mL
							Chrysene-d12	0.6 ug/mL
							Phenanthrene-d10	0.6 ug/mL
					MS-SIMSL_00018	250 uL	2-Fluorobiphenyl (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10.01 ug/mL
							Terphenyl-d14 (Surr)	10.01 ug/mL
							2-Methylnaphthalene	20 ug/mL
							1-Methylnaphthalene	10 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Chrysene	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Naphthalene	10 ug/mL
							Phenanthrene	10 ug/mL
							Pyrene	10 ug/mL
.MS-SIM IS_00028	02/11/17	08/28/16	Methylene Chloride, Lot 131181	100 mL	MS-IS_00009	1500 uL	Acenaphthene-d10	6 ug/mL
							Chrysene-d12	6 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	6 ug/mL
..MS-IS_00009	02/11/17	02/11/16	Methylene Chloride, Lot 98740	300 mL	MS-567684_00018	60 mL	Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
...MS-567684_00018	11/30/19	Restek, Lot A0107273			(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MS-SIMSL_00018	03/22/17	09/22/16	Methylene Chloride, Lot 131181	10 mL	MS-48925_00014	0.2 mL	2-Fluorobiphenyl (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20.02 ug/mL
							Terphenyl-d14 (Surr)	20.02 ug/mL
					MS-SIM SL_Stk_00015	1 mL	2-Methylnaphthalene	40 ug/mL
							1-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Chrysene	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
..MS-48925_00014	08/31/17	Supelco, Lot LC08783V			(Purchased Reagent)		2-Fluorobiphenyl (Surr)	1000 ug/mL
							Nitrobenzene-d5 (Surr)	1001 ug/mL
							Terphenyl-d14 (Surr)	1001 ug/mL
..MS-SIM SL_Stk_00015	07/31/18	09/22/16	Methylene Chloride, Lot 131181	5 mL	MS-31010_00011	0.5 mL	2-Methylnaphthalene	400 ug/mL
					MS-31995_00004	0.5 mL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...MS-31010_00011	03/31/19		Restek, Lot A0116027		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
...MS-31995_00004	10/31/18		Restek, Lot A092153		(Purchased Reagent)		1-Methylnaphthalene	2000 ug/mL
							2-Methylnaphthalene	2000 ug/mL
							Acenaphthene	2000 ug/mL
							Acenaphthylene	2000 ug/mL
							Anthracene	2000 ug/mL
							Benzo[a]anthracene	2000 ug/mL
							Benzo[a]pyrene	2000 ug/mL
							Benzo[b]fluoranthene	2000 ug/mL
							Benzo[g,h,i]perylene	2000 ug/mL
							Benzo[k]fluoranthene	2000 ug/mL
							Chrysene	2000 ug/mL
							Dibenz(a,h)anthracene	2000 ug/mL
							Fluoranthene	2000 ug/mL
							Fluorene	2000 ug/mL
							Indeno[1,2,3-cd]pyrene	2000 ug/mL
							Naphthalene	2000 ug/mL
							Phenanthrene	2000 ug/mL
							Pyrene	2000 ug/mL

Reagent

8082 LCS_00044



Reagent ID: 8082 LCS_00044

Description:	2 ug/mL	Expiration Date:	07/07/2017
No. of Bottles:	2	Laboratory:	TestAmerica Denver
Storage Location:	North Prep	Prepared By:	Bourgery, David F
Reagent Volume:	500.000 mL	Solvent:	ACETONE
Creation Date:	07/07/2016	Solvent Lot:	Acetone_000151
Open Date:			
Container(s):	3985865, 3985866		
Comment:	Take 1mL 8082LCSSStock and dilute to 500mL in Acetone. 6 Month expiration date. Divide into 2 bottles.		

Reagent Analyte Information

Analyte	% R	% D	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
PCB-1016	96	-3.9	8082LCSSSTOCK_00032	06/30/2021	1000.00000	ug/mL	2.00000	ug/mL
PCB-1260	97	-3.5	8082LCSSSTOCK_00032	06/30/2021	1000.00000	ug/mL	2.00000	ug/mL

(PASS)

12 JULY 2016

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
8082LCSSSTOCK_00032	Aroclor 1016/1260 1000UG/ML	ASTD	06/30/21	RESTEK	A0109664	32039	1.00000	mL

*7-15-16
YJC*

Preliminary Report

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20160708-48642.b\07081604.D
 Lims ID: 8082 LCS_00044 Lab Sample ID: Client 280-332889/4-A
 Client ID:
 Sample Type: Client
 Inject. Date: 08-Jul-2016 11:25:53 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: 8082 LCS_00044
 Misc. Info.: 280-0048642-004
 Operator ID: JAX Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20160708-48642.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 11-Jul-2016 08:16:26 Calib Date: 25-Jun-2016 23:29:09
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20160625-48261.b\06251635.D
 Column 1: CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2: CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.871	1.868	0.003	576586325	1000.0	
2	1.701	1.698	0.003	283436587	1000.0	

RPD = 0.00

\$ 14 Tetrachloro-m-xylene

1		2.808		ND		U
2		2.748				

3 PCB-1221

1		3.024		ND		U
1		3.167				
1		3.204				
2		3.067				
2		3.193				
2		3.247				

1 PCB-1016

1	3.205	3.205	0.000	21704449	190.1	
1	3.558	3.558	0.000	42061616	200.7	
1	4.031	4.032	-0.001	92540221	196.0	
1	4.175	4.175	0.000	40455596	193.9	
1	4.631	4.632	-0.001	40623900	192.4	
				Average of Peak Amounts =	194.6	
2	3.634	3.634	0.000	22496696	198.6	
2	4.087	4.088	-0.001	48412628	193.4	
2	4.231	4.231	0.000	19848214	190.4	
2	4.461	4.461	0.000	10368506	185.0	
2	4.751	4.751	0.000	15939518	194.7	
				Average of Peak Amounts =	192.4	

RPD = 1.14

%R %D
 +96 -3.9

Preliminary Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20160708-48642.b\07081604.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

7 PCB-1232

U

1	3.205			ND		
1	3.559					
1	4.032					
1	4.175					
1	4.632					
2	3.248					
2	3.635					
2	4.088					
2	4.231					
2	5.248					

10 PCB-1242

IU

1	3.557			ND		
1	4.033					
1	4.173					
1	5.153					
1	5.180					
2	3.636					
2	4.089					
2	4.233					
2	5.203					
2	5.249					

4 PCB-1248

U

1	4.026			ND		
1	4.392					
1	4.632					
1	5.129					
1	5.152					
2	4.085					
2	4.752					
2	4.888					
2	5.202					
2	5.248					

9 PCB-1254

U

1	5.397			ND		
1	5.731					
1	5.884					
1	6.244					
1	6.864					
2	5.490					
2	5.910					
2	6.057					
2	6.360					
2	7.070					

Preliminary Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20160708-48642.b\07081604.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.125	6.125	0.000	59596072	187.3	
1	6.861	6.862	-0.001	104797607	177.3	
1	7.355	7.355	0.000	58469881	208.1	
1	7.788	7.792	-0.004	126765201	205.5	
1	8.178	8.178	0.000	66531454	189.3	

Average of Peak Amounts = 193.5

2	6.604	6.601	0.003	37593149	185.7	
2	7.067	7.064	0.003	53893330	171.7	
2	7.594	7.594	0.000	29819866	212.3	
2	7.961	7.961	0.000	68207339	203.1	
2	8.464	8.464	0.000	49841650	193.1	

Average of Peak Amounts = 193.2

RPD = 0.17

%R
+ 97%D
-3.5

5 PCB-1262

1	6.495					
1	7.025					
1	7.355					
1	7.792					
1	8.179					
2	6.605					
2	7.201					
2	7.595					
2	7.965					
2	8.465					

ND

U

13 PCB-1268

1	8.240					
1	8.293					
1	8.567					
1	9.077					
1	9.490					
2	8.463					
2	8.526					
2	8.876					
2	9.309					
2	9.769					

ND

U

\$ 15 DCB Decachlorobiphenyl

1	9.762					
2	10.128					

ND

U

S 8 Polychlorinated biphenyls, Total

1	388.1					
2	385.6					

RPD = 0.66

Preliminary Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20160708-48642.b\07081604.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

2 PCB-5460

1	0.000			ND		iU
1	12.739					
1	0.000					
1	13.802					
1	14.259					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

6 PCB-5432

1	7.063			ND		6iU
1	7.693					
1	8.203					
1	9.029					
1	9.459					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

11 PCB-5442

1	9.459			ND		6iU
1	9.923					
1	10.079					
1	10.289					
1	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

QC Flag Legend

Processing Flags

6 - Missing Quant Standard

i - Failed Initial Calibration Limits

Review Flags

U - Marked Undetected

Reagents:

8082 LCS_00044

Amount Added: 1.00

Units: mL

BNB IS_00007

Amount Added: 1.00

Units: mL

Run Reagent

Reagent

8082LCSSTOCK_00032



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0109664
Description : Aroclor® 1016/1260 Mix
Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2021 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1016			1,007.4	µg/mL	+/-	5.8705	µg/mL	Gravimetric
	CAS #	12674-11-2	(Lot W-125-01)			+/-	31.3443	µg/mL	Unstressed
	Purity	----%				+/-	41.6988	µg/mL	Stressed
2	Aroclor 1260			1,009.8	µg/mL	+/-	5.8846	µg/mL	Gravimetric
	CAS #	11096-82-5	(Lot W-129-06)			+/-	31.4196	µg/mL	Unstressed
	Purity	----%				+/-	41.7990	µg/mL	Stressed
Solvent:	Hexane								
	CAS #	110-54-3							
	Purity	99%							

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

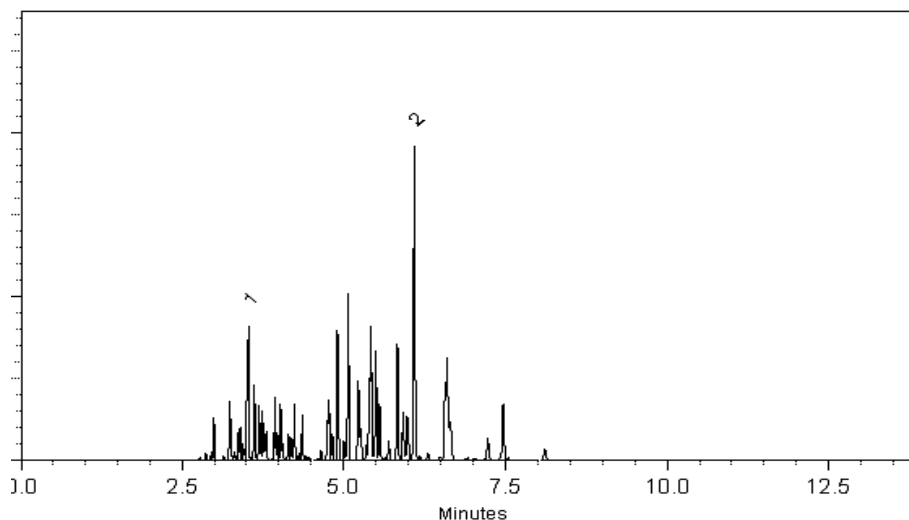
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham
Cheryl Graham - Mix Technician

Date Mixed: 14-Mar-2015 Balance: B442140311

Diane Shaffer
Diane Shaffer - QA Analyst

Date Passed: 16-Mar-2015

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 SIM Surr_00065

Preliminary ReportTestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_F\20161020-52098.b\F4030.D
Lims ID: 8270 SIM Surr_00065
Client ID:
Sample Type: Client
Inject. Date: 20-Oct-2016 16:37:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 8270 SIM Surr_00065
Operator ID: VASQUEZK Instrument ID: SMS_F
Method: \\ChromNA\Denver\ChromData\SMS_F\20161020-52098.b\SMSF_8270SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 21-Oct-2016 13:57:25 Calib Date: 05-Oct-2016 14:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_F\20161005-51560.b\F3723.D

Column 1 : Det: MS SCAN

Process Host: XAWRK029

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	500.0	394.6	78.92
\$ 5 2-Fluorobiphenyl	500.0	401.1	80.23
\$ 6 Terphenyl-d14	500.0	355.9	71.18

Reagent

8270BO-SIMLCS_00019

TestAmerica Laboratories
LCS, Lab Control Sample Report

Data Path: \\ChromNA\Denver\ChromData\SMS_F\20161024-52221.b\F4082.D
 Worklist Name: 102416 Worklist Num: 52221
 Instrument: SMS_F Method: SMSF_8270SIMX
 Limit Group: MSSV - 8270C-SIM
 Analysis Type: SemiVOA
 Inj Volume: 1.00 Inj Vol Units: ul

Detector 1: MS SCAN

Compound	Amount Added	Amount Recovered	%Rec
9 1,4-Dioxane	900.0	665.0	73.89
10 N-Nitrosodimethylamine	900.0	762.3	84.70
14 Naphthalene	900.0	753.4	83.71
16 2-Methylnaphthalene	900.0	789.1	87.68
17 1-Methylnaphthalene	900.0	789.8	87.76
20 Dimethyl phthalate	900.0	784.4	87.16
22 Acenaphthylene	900.0	741.9	82.43
23 Acenaphthene	900.0	836.5	92.94
32 Dibenzofuran	900.0	820.5	91.17
24 Diethyl phthalate	900.0	787.6	87.51
25 Fluorene	900.0	794.2	88.24
26 N-Nitrosodiphenylamine	900.0	842.9	93.66
27 Phenanthrene	900.0	772.7	85.86
28 Anthracene	900.0	804.8	89.42
29 Di-n-butyl phthalate	900.0	784.0	87.11
30 Fluoranthene	900.0	810.8	90.09
31 Pyrene	900.0	822.6	91.40
33 Butyl benzyl phthalate	900.0	800.6	88.96
34 Bis(2-ethylhexyl) phthalate	900.0	786.8	87.42
35 Benzo[a]anthracene	900.0	813.4	90.38
36 Chrysene	900.0	851.4	94.60
37 Di-n-octyl phthalate	900.0	778.2	86.47
38 Benzo[b]fluoranthene	900.0	828.0	92.00
39 Benzo[k]fluoranthene	900.0	858.7	95.41
40 Benzo[a]pyrene	900.0	827.8	91.98
41 Indeno[1,2,3-cd]pyrene	900.0	799.6	88.84
42 Dibenz(a,h)anthracene	900.0	807.7	89.74
43 Benzo[g,h,i]perylene	900.0	801.8	89.09

Reagent

8270SurStkHL_00182



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0103960
Description : 8270 Surrogate Standard
8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : June 30, 2019 **Storage:** 10°C or colder
Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBC5591V)	5,006.1 µg/mL	+/- 29.1044 µg/mL +/- 124.7363 µg/mL +/- 156.8636 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 CAS # 4165-62-2 Purity 99% (Lot X479P6)	5,002.5 µg/mL	+/- 29.0834 µg/mL +/- 124.6466 µg/mL +/- 156.7508 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 CAS # 4165-60-0 Purity 99% (Lot PR-20474)	5,003.7 µg/mL	+/- 29.0901 µg/mL +/- 124.6753 µg/mL +/- 156.7868 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl CAS # 321-60-8 Purity 99% (Lot B19Z016)	5,002.4 µg/mL	+/- 29.0826 µg/mL +/- 124.6429 µg/mL +/- 156.7461 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot 29699MJV)	5,024.2 µg/mL	+/- 29.2093 µg/mL +/- 125.1861 µg/mL +/- 157.4292 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 CAS # 1718-51-0 Purity 99% (Lot PR-20577)	5,010.4 µg/mL	+/- 29.1291 µg/mL +/- 124.8422 µg/mL +/- 156.9968 µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

AR_1016_RES_00008



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32006 Lot No.: A0112461
Description : Aroclor® 1016 Standard
Aroclor 1016 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : October 31, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1016 CAS # 12674-11-2 Purity ----%	1,003.5 µg/mL	+/- 5.8891 µg/mL +/- 31.2313 µg/mL +/- 41.5441 µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1016_RES_00009



110 Benner Circle
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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32006 Lot No.: A0117379
Description : Aroclor® 1016 Standard
Aroclor 1016 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2022 Storage: 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1016 CAS # 12674-11-2 (Lot W-125-01) Purity 99%	1,003.0 µg/mL	+/- 5.8862 µg/mL Gravimetric +/- 31.7890 µg/mL Unstressed +/- 41.5271 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1221_RES_00007



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 Lot No.: A0110245
Description : Aroclor® 1221 Standard
Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2021 Storage: 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1221	1,000.5 µg/mL	+/- 5.8715	µg/mL	Gravimetric	
	CAS # 11104-28-2 (Lot 1240100)		+/- 31.1379	µg/mL	Unstressed	
	Purity ----%		+/- 41.4199	µg/mL	Stressed	

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1221_RESss_00006



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com



Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32007.sec Lot No.: A094157
Description: Aroclor® 1221 Standard
Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: June 2019 Storage: 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS #	11104-28-2.SEC		+/- 20.8959	µg/mL	Unstressed
	Purity	----%		+/- 34.3792	µg/mL	Stressed
Solvent:	Hexane					
	CAS #	110-54-3				
	Purity	99%				

Reagent

AR_1232_RES_00008



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 Lot No.: A0107138
Description : Aroclor® 1232 Standard
Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : February 28, 2021 Storage: 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1232	1,006.8 µg/mL	+/- 5.9085 µg/mL Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.3340 µg/mL Unstressed
	Purity 99%		+/- 41.6807 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1232_RESss_00006

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008.sec **Lot No.:** A095877
Description : Aroclor® 1232 Standard
Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : September 30, 2019 **Storage:** 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5.SEC (Lot 130604JLM)		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1242_RES_00007



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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 Lot No.: A0112462
Description : Aroclor® 1242 Standard
Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : October 31, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.2001 µg/mL	Unstressed
	Purity ----%		+/- 41.5027 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1242_RESss_00006



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Catalog No. : 32009.SEC Lot No.: A0105175
Description : Aroclor® 1242 Standard
Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2020 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,000.0 µg/mL	+/- 10.0737	µg/mL	Gravimetric
	CAS #	53469-21-9.SEC (Lot NTO1020)		+/- 32.1814	µg/mL	Unstressed
	Purity	----%		+/- 42.2011	µg/mL	Stressed
Solvent:	Hexane					
	CAS #	110-54-3				
	Purity	99%				

Reagent

AR_1248_RES_00007



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 Lot No.: A0110957
Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : August 31, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1248	1,003.2 µg/mL	+/- 5.8873	µg/mL	Gravimetric	
	CAS # 12672-29-6 (Lot W-108-07)		+/- 31.2219	µg/mL	Unstressed	
	Purity -----%		+/- 41.5316	µg/mL	Stressed	

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1248_RESss_00006



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Catalog No.: 32010.SEC Lot No.: A0107321
Description: Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: February 28, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	1,004.0 µg/mL	+/- 5.9635 µg/mL	Gravimetric
	CAS # 12672-29-6.SEC (Lot A7080364)		+/- 31.2604 µg/mL	Unstressed
	Purity -----%		+/- 41.5749 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1254_RES_00007



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32011 Lot No.: A0112456
Description: Aroclor® 1254 Standard
Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1254	1,001.2 µg/mL	+/- 5.8756 µg/mL	Gravimetric
	CAS # 11097-69-1 (Lot 124-191-B)		+/- 31.1597 µg/mL	Unstressed
	Purity ----%		+/- 41.4488 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1254_RESss_00006



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32011.SEC Lot No.: A0105373
Description: Aroclor® 1254 Standard
Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: November 30, 2020 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1254		1,004.0 µg/mL	+/-	10.1140	µg/mL	Gravimetric
	CAS #	11097-69-1.SEC (Lot RM00922)		+/-	32.3101	µg/mL	Unstressed
	Purity	----%		+/-	42.3699	µg/mL	Stressed
Solvent:	Hexane						
	CAS #	110-54-3					
	Purity	99%					

Reagent

AR_1260_RES_00010



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32012 Lot No.: A0113625
Description : Aroclor® 1260 Standard
Aroclor 1260 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1260	1,002.0 µg/mL	+/- 5.8392 µg/mL	Gravimetric
	CAS # 11096-82-5 (Lot W-129-06)		+/- 31.1769 µg/mL	Unstressed
	Purity ----%		+/- 41.4761 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1260_RES_00011



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Fax: (814)353-1309

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32012 Lot No.: A0116299
Description : Aroclor® 1260 Standard
Aroclor 1260 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : April 30, 2022 Storage: 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1260 CAS # 11096-82-5 (Lot W-129-06) Purity ----%	1,006.5 µg/mL	+/- 5.9067 µg/mL Gravimetric +/- 31.9000 µg/mL Unstressed +/- 41.6720 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1262_RES_00008



CERTIFIED REFERENCE MATERIAL

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32409 Lot No.: A0113548
Description : Aroclor® 1262 Standard
Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1262	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric	
	CAS # 37324-23-5 (Lot 3067100)		+/- 31.1358	µg/mL	Unstressed	
	Purity -----%		+/- 41.4093	µg/mL	Stressed	

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1268_RES_00007



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32410 Lot No.: A0110266
Description : Aroclor® 1268 Standard
Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2021 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1268	1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric	
	CAS # 11100-14-4 (Lot 390-50A)		+/- 31.2915	µg/mL	Unstressed	
	Purity ----%		+/- 41.6163	µg/mL	Stressed	

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_1660_RESss_00006



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039.SEC Lot No.: A0114674
Description : Aroclor® 1016/1260 Mix
Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2022 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1016 CAS # 12674-11-2.SEC (Lot 129) Purity ----%	1,000.7 µg/mL	+/- 5.9437 µg/mL +/- 31.7284 µg/mL +/- 41.4406 µg/mL	Gravimetric Unstressed Stressed
2	Aroclor 1260 CAS # 11096-82-5.SEC (Lot NTO1023) Purity ----%	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 31.7072 µg/mL +/- 41.4130 µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

AR_SURR_RES_00032



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0108779
Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2021 **Storage:** 10°C or colder
Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/-	1.1696	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/-	6.2448	µg/mL	Unstressed
	Purity 98%		+/-	8.3078	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	201.0 µg/mL	+/-	1.1713	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/-	6.2540	µg/mL	Unstressed
	Purity 99%		+/-	8.3201	µg/mL	Stressed
Solvent: Acetone						
	CAS # 67-64-1					
	Purity 99%					

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

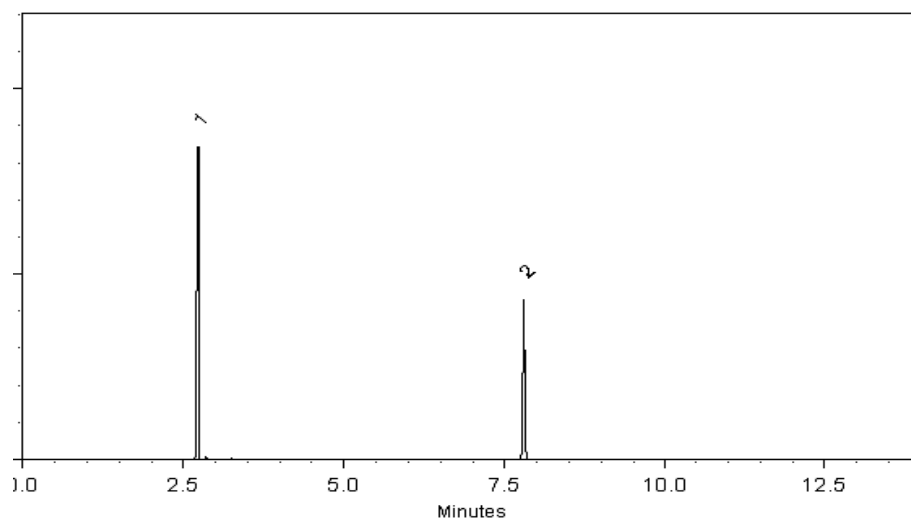
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

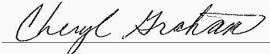
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Cheryl Graham - Mix Technician

Date Mixed: 02-Feb-2015 **Balance:** 1127510105


Tyler Brown - QA Analyst

Date Passed: 05-Feb-2015

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

AR_SURR_RES_00049



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Catalog No. : 32000 Lot No.: A0115723
Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2022 Storage: 10°C or colder
Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	199.9 µg/mL	+/-	1.1794	µg/mL	Gravimetric
			+/-	6.3374	µg/mL	Unstressed
			+/-	8.2781	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot ER071509-01) Purity 99%	200.0 µg/mL	+/-	1.1798	µg/mL	Gravimetric
			+/-	6.3399	µg/mL	Unstressed
			+/-	8.2814	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Reagent

AR_SURR_RES_00055



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Catalog No. : 32410 Lot No.: A0114508
Description : Aroclor® 1268 Standard
Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2022 Storage: 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1268 CAS # 11100-14-4 (Lot 2743900) Purity ----%	1,006.0 µg/mL	+/- 5.9753 µg/mL Gravimetric +/- 31.8975 µg/mL Unstressed +/- 41.6615 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%



CERTIFIED REFERENCE MATERIAL

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32000 Lot No.: A0117947
Description: Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: June 30, 2022 Storage: 10°C or colder
Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	200.4 µg/mL	+/-	1.1679	µg/mL	Gravimetric
			+/-	6.3503	µg/mL	Unstressed
			+/-	8.2964	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot ER071509-01) Purity 99%	200.4 µg/mL	+/-	1.1678	µg/mL	Gravimetric
			+/-	6.3500	µg/mL	Unstressed
			+/-	8.2960	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Reagent

BNB stock_00006



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Catalog No. : 32279 Lot No.: A0110081
Description : 1-Bromo-2-nitrobenzene Standard
1-Bromo-2-nitrobenzene Standard 1000 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2018 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1-Bromo-2-nitrobenzene	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric	
	CAS # 577-19-5 (Lot 643872/1)		+/- 11.3417	µg/mL	Unstressed	
	Purity 99%		+/- 13.0327	µg/mL	Stressed	

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

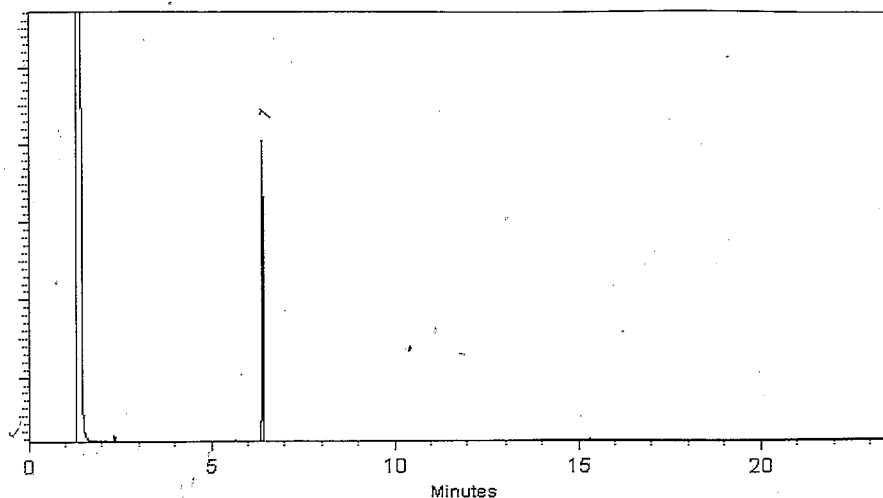
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon
F. Joseph Tallon - Mix. Technician

Date Mixed: 02-Apr-2015

Balance: B251644995

Diane Shaffer
Diane Shaffer - QA Analyst

Date Passed: 03-Apr-2015

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

CN CAL Std_00052



Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 2609C92

Product Number: 2543

Manufacture Date: SEP 22, 2016

Expiration Date: MAR 2017

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN ⁻)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Katie Schnur

Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials - Contents of Certificates and Labels."

Reagent

CN ICV Std_00038

**USA**

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:**Catalog No:**

Z-G34-4400-IC9M

Lot No: Expiration Date:

1097445

16-Apr-2018

Matrix:

0.179% NaOH

Description:

ISO Guide 34 - Cyanide, 100 mL
1,000 mg/L in H₂O

Additional Information:

Date Received: _____

Container: 4 oz (125 mL) Narrow
Mouth, HDPE

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.

The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Cyanide	CN	151-50-8	N/A	N/A	363.24.3S	98	1000	3.5



USA

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1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:

Z-G34-4400-IC9M

Lot No: Expiration Date:

1097445

16-Apr-2018

Matrix:

0.179% NaOH

Description:

ISO Guide 34 - Cyanide, 100 mL
1,000 mg/L in H₂O

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:

$U = k u_c$ U = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, $k=2$, u_c = the combined uncertainty

$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Carrie Bibbins
Chemist

Manufacture Date: 10/13/2016

Certified By:

Christy Lane
Chemist

Certified Date: 10/13/2016

Released By:

Mark Filla
Chemist

Original Issue Date: 10/13/2016

Reagent

MS-31010_00011



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31010 **Lot No.:** A0116027

Description : SV Calibration Mix #4

SV Calibration Mix #4 2000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Hexachloroethane CAS # 67-72-1 Purity 99% (Lot 4H3SF)	2,002.0 µg/mL	+/- 11.8913 µg/mL Gravimetric +/- 60.6057 µg/mL Unstressed +/- 60.6057 µg/mL Stressed
2	Nitrobenzene CAS # 98-95-3 Purity 99% (Lot 65096APV)	2,014.0 µg/mL	+/- 11.9625 µg/mL Gravimetric +/- 60.9690 µg/mL Unstressed +/- 60.9690 µg/mL Stressed
3	Isophorone CAS # 78-59-1 Purity 99% (Lot MKBG2442V)	2,002.0 µg/mL	+/- 11.8913 µg/mL Gravimetric +/- 60.6057 µg/mL Unstressed +/- 60.6057 µg/mL Stressed
4	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99% (Lot 26896BM)	2,014.0 µg/mL	+/- 11.9625 µg/mL Gravimetric +/- 60.9690 µg/mL Unstressed +/- 60.9690 µg/mL Stressed
5	Hexachlorobutadiene CAS # 87-68-3 Purity 98% (Lot J31X013)	2,007.0 µg/mL	+/- 11.9212 µg/mL Gravimetric +/- 60.7583 µg/mL Unstressed +/- 60.7583 µg/mL Stressed
6	2-Methylnaphthalene CAS # 91-57-6 Purity 99% (Lot 19399MJV)	2,000.0 µg/mL	+/- 11.8794 µg/mL Gravimetric +/- 60.5452 µg/mL Unstressed +/- 60.5452 µg/mL Stressed
7	Hexachlorocyclopentadiene CAS # 77-47-4 Purity 97% (Lot 150909)	2,007.9 µg/mL	+/- 11.9263 µg/mL Gravimetric +/- 60.7843 µg/mL Unstressed +/- 60.7843 µg/mL Stressed

8	2,6-Dinitrotoluene			2,010.0	µg/mL	+/-	11.9388	µg/mL	Gravimetric
	CAS #	606-20-2	(Lot 1437483V)			+/-	60.8479	µg/mL	Unstressed
	Purity	99%				+/-	60.8479	µg/mL	Stressed
9	Dibenzofuran			2,002.0	µg/mL	+/-	11.8913	µg/mL	Gravimetric
	CAS #	132-64-9	(Lot MKBH8392V)			+/-	60.6057	µg/mL	Unstressed
	Purity	99%				+/-	60.6057	µg/mL	Stressed
10	2,4-Dinitrotoluene			2,000.0	µg/mL	+/-	11.8794	µg/mL	Gravimetric
	CAS #	121-14-2	(Lot MKAA0690V)			+/-	60.5452	µg/mL	Unstressed
	Purity	99%				+/-	60.5452	µg/mL	Stressed
11	Diethylphthalate			2,016.0	µg/mL	+/-	11.9744	µg/mL	Gravimetric
	CAS #	84-66-2	(Lot MKBJ3578V)			+/-	61.0295	µg/mL	Unstressed
	Purity	99%				+/-	61.0295	µg/mL	Stressed
12	Hexachlorobenzene			2,018.0	µg/mL	+/-	11.9863	µg/mL	Gravimetric
	CAS #	118-74-1	(Lot LB98981V)			+/-	61.0901	µg/mL	Unstressed
	Purity	99%				+/-	61.0901	µg/mL	Stressed
13	Carbazole			1,999.2	µg/mL	+/-	11.8746	µg/mL	Gravimetric
	CAS #	86-74-8	(Lot 3715800)			+/-	60.5210	µg/mL	Unstressed
	Purity	98%				+/-	60.5210	µg/mL	Stressed
Solvent:	Methylene Chloride								
	CAS #	75-09-2							
	Purity	99%							

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

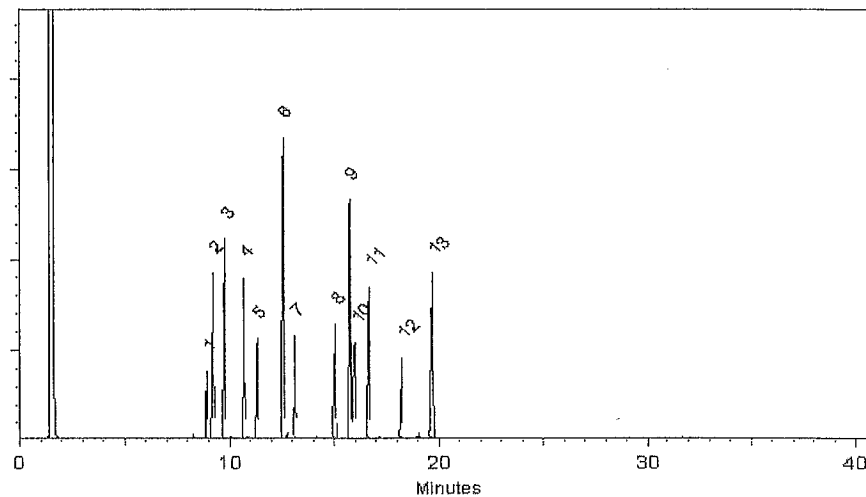
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2015

Balance: B345965662

Jennifer L. Pollino - QC Analyst

Date Passed: 21-Dec-2015

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MS-31995_00004



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31995 **Lot No.:** A092153

Description : 8270 Calibration Mix #5, Revised

8270 Calibration Mix #5, Revised 2,000µg/ml, Methylene Chloride, 1ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Naphthalene CAS # 91-20-3 (Lot MKBF8633V) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 92.7295 µg/mL Unstressed +/- 101.3892 µg/mL Stressed
2	2-Methylnaphthalene CAS # 91-57-6 (Lot 19399MJV) Purity 96%	1,999.7 µg/mL	+/- 11.7352 µg/mL Gravimetric +/- 92.7147 µg/mL Unstressed +/- 101.3729 µg/mL Stressed
3	1-Methylnaphthalene CAS # 90-12-0 (Lot 5250.00-10) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 92.7295 µg/mL Unstressed +/- 101.3892 µg/mL Stressed
4	Acenaphthylene CAS # 208-96-8 (Lot ER030707-01) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 92.7295 µg/mL Unstressed +/- 101.3892 µg/mL Stressed
5	Acenaphthene CAS # 83-32-9 (Lot MKBH3748V) Purity 99%	2,000.5 µg/mL	+/- 11.7401 µg/mL Gravimetric +/- 92.7527 µg/mL Unstressed +/- 101.4145 µg/mL Stressed
6	Fluorene CAS # 86-73-7 (Lot 1326187) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 92.7295 µg/mL Unstressed +/- 101.3892 µg/mL Stressed
7	Phenanthrene CAS # 85-01-8 (Lot MKBJ4205V) Purity 99%	2,001.0 µg/mL	+/- 11.7430 µg/mL Gravimetric +/- 92.7759 µg/mL Unstressed +/- 101.4398 µg/mL Stressed
8	Anthracene CAS # 120-12-7 (Lot MKBK5208V) Purity 99%	2,000.5 µg/mL	+/- 11.7401 µg/mL Gravimetric +/- 92.7527 µg/mL Unstressed +/- 101.4145 µg/mL Stressed

9	Fluoranthene CAS # 206-44-0 Purity 98%	(Lot 00828AJ)	2,000.2	µg/mL	+/- +/- +/-	11.7382 92.7378 101.3983	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Pyrene CAS # 129-00-0 Purity 99%	(Lot S22012V)	2,001.5	µg/mL	+/- +/- +/-	11.7459 92.7990 101.4652	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Benz(a)anthracene CAS # 56-55-3 Purity 99%	(Lot ER121707-01)	2,000.0	µg/mL	+/- +/- +/-	11.7371 92.7295 101.3892	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Chrysene CAS # 218-01-9 Purity 99%	(Lot ER120810-02)	2,000.0	µg/mL	+/- +/- +/-	11.7371 92.7295 101.3892	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Benzo(b)fluoranthene CAS # 205-99-2 Purity 99%	(Lot ER022008-02)	2,000.5	µg/mL	+/- +/- +/-	11.7401 92.7527 101.4145	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Benzo(k)fluoranthene CAS # 207-08-9 Purity 99%	(Lot ER061608-02)	2,000.0	µg/mL	+/- +/- +/-	11.7371 92.7295 101.3892	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Benzo(a)pyrene CAS # 50-32-8 Purity 99%	(Lot ER071309-02)	2,000.0	µg/mL	+/- +/- +/-	11.7371 92.7295 101.3892	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Indeno(1,2,3-cd)pyrene CAS # 193-39-5 Purity 99%	(Lot ER082107-02)	2,000.5	µg/mL	+/- +/- +/-	11.7401 92.7527 101.4145	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Dibenz(a,h)anthracene CAS # 53-70-3 Purity 99%	(Lot ER032211-01)	2,000.5	µg/mL	+/- +/- +/-	11.7401 92.7527 101.4145	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Benzo(g,h,i)perylene CAS # 191-24-2 Purity 99%	(Lot ER020708-08)	2,000.0	µg/mL	+/- +/- +/-	11.7371 92.7295 101.3892	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene Chloride CAS # 75-09-2 Purity 99%							

Column:

30m x 0.25mm x 0.25um
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:

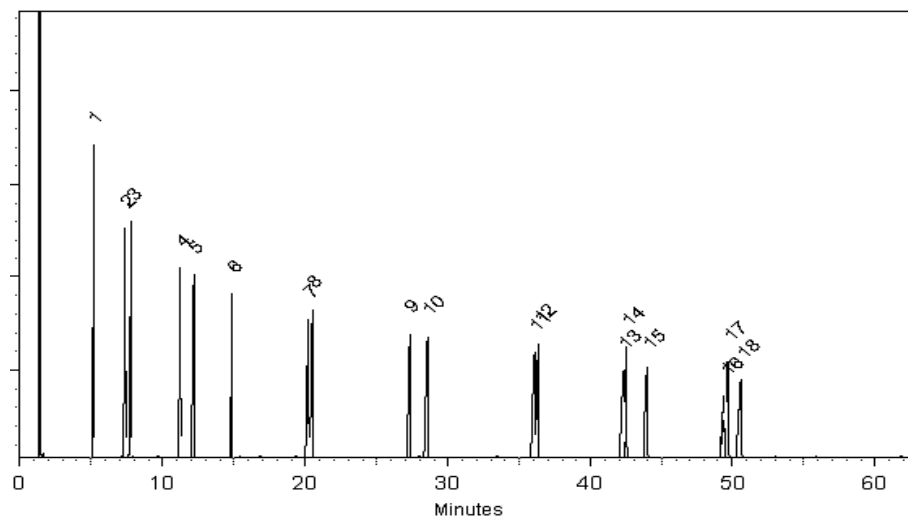
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Jauer

Date Mixed: 28-Nov-2012

Balance: 1128360905

Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 03-Dec-2012

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MS-48925_00014

Certificate of Analysis

DESCRIPTION: Base-Neutral Surrogate Spike Mix

CATALOG NO.: 48925-0004

MFG DATE: Aug-2014

LOT NO.: LC08783V

EXPIRATION DATE: Aug-2017

SOLVENT: METHYLENE CHLORIDE

3308099
ID: MS-48925_00014
Exp: 08/31/17 Prpd: NRC
SUP Base-Neutral Surrogat

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT (3) CONCENTRATION	ANALYTICAL (4)	STD DEV	SUPELCO LOT NO
NITROBENZENE-D5	4165-60-0	99.9	1000	1014	+/- 45.1	LB83753
P-TERPHENYL-D14	1718-51-0	99.9	1000	1001	+/- 23.2	LC01817
2-FLUOROBIPHENYL	321-60-8	99.9	1001	1001	+/- 7.2	LB99948

- (1) Listed in alphabetical order.
- (2) Determined by capillary GC-FID, unless otherwise noted.
- (3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
- (4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

Supelco is a Sigma-Aldrich Company.

SUPELCO

Solutions within.™

595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: Base-Neutral Surrogate Spike Mix

CATALOG NO.: 48925_00014

MFG DATE: Aug-2014

LOT NO.: LC08783V

EXPIRATION DATE: Aug-2017

SOLVENT: METHYLENE CHLORIDE

3308100
ID: MS-48925_00014
Exp: 08/31/17 Prpd: NRC
SUP Base-Neutral Surrogat

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT (3) CONCENTRATION	ANALYTICAL (4)	STD DEV	SUPELCO LOT NO
NITROBENZENE-D5	4165-60-0	99.9	1000	1014	+/- 45.1	LB83753
P-TERPHENYL-D14	1718-51-0	99.9	1000	1001	+/- 23.2	LC01817
2-FLUOROBIPHENYL	321-60-8	99.9	1001	1001	+/- 7.2	LB99948

- (1) Listed in alphabetical order.
- (2) Determined by capillary GC-FID, unless otherwise noted.
- (3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
- (4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Duane Funk

Duane Funk
Quality Manager

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Supelco is a Sigma-Aldrich Company.

SUPELCO®

Solutions within.™

595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 339-3441

Reagent

MS-567684_00018



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.



MS

3043056

ID: MS-567684_00018

Exp: 11/30/19 Ppdt. DCK

RES 8270 Internal Std Mix

Catalog No. : 567684 Lot No.: A0107273

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date : November 30, 2019 Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	2,017.6 µg/mL	+/- 11.7305 µg/mL Gravimetric +/- 89.6430 µg/mL Unstressed +/- 98.4895 µg/mL Stressed
2	Naphthalene-d8 CAS # 1146-65-2 (Lot PR-20449) Purity 99%	2,003.8 µg/mL	+/- 11.6503 µg/mL Gravimetric +/- 89.0299 µg/mL Unstressed +/- 97.8158 µg/mL Stressed
3	Acenaphthene-d10 CAS # 15067-26-2 (Lot PR-21070) Purity 97%	2,016.8 µg/mL	+/- 11.7260 µg/mL Gravimetric +/- 89.6085 µg/mL Unstressed +/- 98.4516 µg/mL Stressed
4	Phenanthrene-d10 CAS # 1517-22-2 (Lot PR-23065) Purity 99%	2,013.6 µg/mL	+/- 11.7072 µg/mL Gravimetric +/- 89.4653 µg/mL Unstressed +/- 98.2942 µg/mL Stressed
5	Chrysene-d12 CAS # 1719-03-5 (Lot PR-25081) Purity 99%	2,011.8 µg/mL	+/- 11.6968 µg/mL Gravimetric +/- 89.3853 µg/mL Unstressed +/- 98.2063 µg/mL Stressed
6	Perylene-d12 CAS # 1520-96-3 (Lot PR-24113) Purity 99%	2,017.8 µg/mL	+/- 11.7317 µg/mL Gravimetric +/- 89.6519 µg/mL Unstressed +/- 98.4992 µg/mL Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

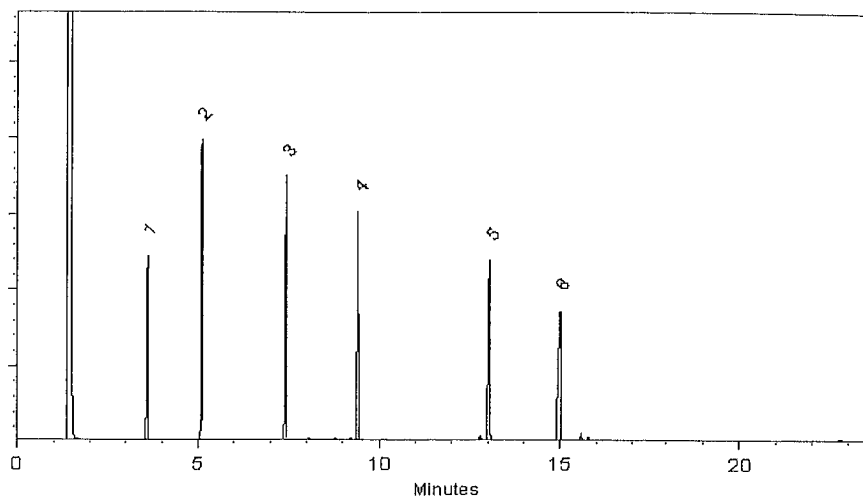
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham
Cheryl Graham - Mix Technician

Date Mixed: 17-Nov-2014

Balance: 1128342313

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 19-Nov-2014

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

MS-570666.SEC_00001



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Bellefonte, PA 16823-8812
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570666.sec **Lot No.:** A0115803

Description : 8270 List 1 / Std #1 MegaMix (2016)
8270 List 1 / Std #1 MegaMix (2016) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2017 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.



3708708

ID: MS-570666.SEC_00001

Exp: 06/30/17 Pp: DCK

RES HSLB Mega Mix (2016)

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1.SEC (Lot CHA4A) Purity 99%	1,001.0 µg/mL	+/- 5.8333 µg/mL Gravimetric +/- 11.9726 µg/mL Unstressed +/- 19.0478 µg/mL Stressed
2	Pyridine CAS # 110-86-1.SEC (Lot QN8DK) Purity 99%	1,000.3 µg/mL	+/- 5.8290 µg/mL Gravimetric +/- 11.9636 µg/mL Unstressed +/- 19.0336 µg/mL Stressed
3	N-Nitrosodimethylamine CAS # 62-75-9.SEC (Lot 41B67) Purity 98%	1,001.4 µg/mL	+/- 5.8359 µg/mL Gravimetric +/- 11.9778 µg/mL Unstressed +/- 19.0562 µg/mL Stressed
4	Aniline CAS # 62-53-3.SEC (Lot ZCD3N) Purity 99%	1,000.3 µg/mL	+/- 5.8290 µg/mL Gravimetric +/- 11.9636 µg/mL Unstressed +/- 19.0336 µg/mL Stressed
5	Bis(2-chloroethyl)ether CAS # 111-44-4.SEC (Lot FA010143) Purity 99%	1,000.3 µg/mL	+/- 5.8290 µg/mL Gravimetric +/- 11.9636 µg/mL Unstressed +/- 19.0336 µg/mL Stressed
6	2-Chlorophenol CAS # 95-57-8.SEC (Lot GJ01) Purity 99%	1,000.6 µg/mL	+/- 5.8312 µg/mL Gravimetric +/- 11.9681 µg/mL Unstressed +/- 19.0407 µg/mL Stressed
7	Phenol CAS # 108-95-2.SEC (Lot EDPYN) Purity 99%	1,000.1 µg/mL	+/- 5.8282 µg/mL Gravimetric +/- 11.9621 µg/mL Unstressed +/- 19.0312 µg/mL Stressed

8	n-Decane (C10) CAS # 124-18-5.SEC Purity 99%	(Lot UCVNN)	1,000.1 µg/mL	+/-	5.8282 11.9621 19.0312	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene CAS # 106-46-7.SEC Purity 99%	(Lot YWKDC-MK)	1,000.3 µg/mL	+/-	5.8290 11.9636 19.0336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3-Dichlorobenzene CAS # 541-73-1.SEC Purity 99%	(Lot FMDFD-KA)	1,000.0 µg/mL	+/-	5.8275 11.9606 19.0288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	(Lot 4NRGF-OT)	1,000.0 µg/mL	+/-	5.8275 11.9606 19.0288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Benzyl alcohol CAS # 100-51-6.SEC Purity 99%	(Lot QZBUO)	1,000.4 µg/mL	+/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	2,2'-oxybis(1-chloropropane) CAS # 108-60-1 * Purity 99%	(Lot 2-KMW-57-8)	1,000.4 µg/mL	+/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	2-Methylphenol (o-cresol) CAS # 95-48-7.SEC Purity 98%	(Lot NC7HL)	1,000.3 µg/mL	+/-	5.8295 11.9646 19.0352	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Hexachloroethane CAS # 67-72-1.SEC Purity 98%	(Lot 10173016)	1,000.6 µg/mL	+/-	5.8309 11.9675 19.0399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Acetophenone CAS # 98-86-2.SEC Purity 99%	(Lot NSGTI)	1,000.3 µg/mL	+/-	5.8290 11.9636 19.0336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	N-Nitroso-di-n-propylamine CAS # 621-64-7.SEC Purity 99%	(Lot 1528900)	1,000.6 µg/mL	+/-	5.8312 11.9681 19.0407	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	4-Methylphenol (p-cresol) CAS # 106-44-5.SEC Purity 99%	(Lot 65S2E)	500.1 µg/mL	+/-	2.9145 5.9818 9.5168	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	3-Methylphenol (m-cresol) CAS # 108-39-4.SEC Purity 99%	(Lot 6LHTM)	500.1 µg/mL	+/-	2.9145 5.9818 9.5168	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Nitrobenzene CAS # 98-95-3.SEC Purity 99%	(Lot FLYIG)	1,000.4 µg/mL	+/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Isophorone CAS # 78-59-1.SEC Purity 99%	(Lot XHGTJ)	1,000.4 µg/mL	+/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2-Nitrophenol CAS # 88-75-5.SEC Purity 99%	(Lot GXJ7J)	1,000.3 µg/mL	+/-	5.8290 11.9636 19.0336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	2,4-Dimethylphenol CAS # 105-67-9.SEC Purity 99%	(Lot MKBL3650V)	1,000.4 µg/mL	+/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 * Purity 99%	(Lot 3299900)	1,000.6 µg/mL	+/-	5.8312	µg/mL	Gravimetric
				+/-	11.9681	µg/mL	Unstressed
				+/-	19.0407	µg/mL	Stressed
25	2,4-Dichlorophenol CAS # 120-83-2.SEC Purity 99%	(Lot FHM01)	1,000.8 µg/mL	+/-	5.8319	µg/mL	Gravimetric
				+/-	11.9696	µg/mL	Unstressed
				+/-	19.0431	µg/mL	Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	(Lot 3LYYC)	1,000.0 µg/mL	+/-	5.8275	µg/mL	Gravimetric
				+/-	11.9606	µg/mL	Unstressed
				+/-	19.0288	µg/mL	Stressed
27	Naphthalene CAS # 91-20-3.SEC Purity 99%	(Lot 4KW3H-OO)	1,001.1 µg/mL	+/-	5.8341	µg/mL	Gravimetric
				+/-	11.9741	µg/mL	Unstressed
				+/-	19.0502	µg/mL	Stressed
28	2,6-Dichlorophenol CAS # 87-65-0.SEC Purity 99%	(Lot SIDBB)	1,000.6 µg/mL	+/-	5.8312	µg/mL	Gravimetric
				+/-	11.9681	µg/mL	Unstressed
				+/-	19.0407	µg/mL	Stressed
29	4-Chloroaniline CAS # 106-47-8.SEC Purity 99%	(Lot 10171860)	1,000.8 µg/mL	+/-	5.8319	µg/mL	Gravimetric
				+/-	11.9696	µg/mL	Unstressed
				+/-	19.0431	µg/mL	Stressed
30	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 98%	(Lot 3265500)	1,000.8 µg/mL	+/-	5.8323	µg/mL	Gravimetric
				+/-	11.9705	µg/mL	Unstressed
				+/-	19.0445	µg/mL	Stressed
31	2-Methylnaphthalene CAS # 91-57-6.SEC Purity 99%	(Lot 76023-1)	1,000.8 µg/mL	+/-	5.8319	µg/mL	Gravimetric
				+/-	11.9696	µg/mL	Unstressed
				+/-	19.0431	µg/mL	Stressed
32	4-Chloro-3-methylphenol CAS # 59-50-7.SEC Purity 99%	(Lot FDO02)	1,000.1 µg/mL	+/-	5.8282	µg/mL	Gravimetric
				+/-	11.9621	µg/mL	Unstressed
				+/-	19.0312	µg/mL	Stressed
33	1-Methylnaphthalene CAS # 90-12-0.SEC Purity 99%	(Lot UATSA)	1,000.9 µg/mL	+/-	5.8326	µg/mL	Gravimetric
				+/-	11.9711	µg/mL	Unstressed
				+/-	19.0455	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3.SEC Purity 99%	(Lot AF02)	1,000.8 µg/mL	+/-	5.8319	µg/mL	Gravimetric
				+/-	11.9696	µg/mL	Unstressed
				+/-	19.0431	µg/mL	Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4.SEC Purity 99%	(Lot 0012013)	1,001.1 µg/mL	+/-	5.8341	µg/mL	Gravimetric
				+/-	11.9741	µg/mL	Unstressed
				+/-	19.0502	µg/mL	Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2.SEC Purity 98%	(Lot UUMYM)	1,000.9 µg/mL	+/-	5.8330	µg/mL	Gravimetric
				+/-	11.9719	µg/mL	Unstressed
				+/-	19.0469	µg/mL	Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4.SEC Purity 97%	(Lot MKBQ9937V)	1,000.9 µg/mL	+/-	5.8329	µg/mL	Gravimetric
				+/-	11.9716	µg/mL	Unstressed
				+/-	19.0463	µg/mL	Stressed
38	2-Chloronaphthalene CAS # 91-58-7.SEC Purity 99%	(Lot LC03928V)	1,000.3 µg/mL	+/-	5.8290	µg/mL	Gravimetric
				+/-	11.9636	µg/mL	Unstressed
				+/-	19.0336	µg/mL	Stressed
39	Biphenyl CAS # 92-52-4.SEC Purity 99%	(Lot 330QE)	1,000.1 µg/mL	+/-	5.8282	µg/mL	Gravimetric
				+/-	11.9621	µg/mL	Unstressed
				+/-	19.0312	µg/mL	Stressed

40	4-Nitroaniline CAS # 100-01-6.SEC Purity 99%	(Lot 5ITRC)	1,000.4 µg/mL	+/- 5.8297 +/- 11.9651 +/- 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene CAS # 208-96-8.SEC Purity 98%	(Lot 062013)	1,000.1 µg/mL	+/- 5.8280 +/- 11.9617 +/- 19.0305	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene CAS # 99-65-0.SEC Purity 99%	(Lot 3XXLB)	1,000.4 µg/mL	+/- 5.8297 +/- 11.9651 +/- 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate CAS # 131-11-3.SEC Purity 99%	(Lot 483WC)	1,000.3 µg/mL	+/- 5.8290 +/- 11.9636 +/- 19.0336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dinitrotoluene CAS # 606-20-2.SEC Purity 99%	(Lot GE01)	1,000.1 µg/mL	+/- 5.8282 +/- 11.9621 +/- 19.0312	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Acenaphthene CAS # 83-32-9.SEC Purity 99%	(Lot BWZJE)	1,000.6 µg/mL	+/- 5.8312 +/- 11.9681 +/- 19.0407	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	2,4-Dinitrophenol CAS # 51-28-5.SEC Purity 99%	(Lot 2TXXH)	2,000.4 µg/mL	+/- 11.6304 +/- 23.9126 +/- 38.0566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	Dibenzofuran CAS # 132-64-9.SEC Purity 99%	(Lot 27ZGC)	1,000.5 µg/mL	+/- 5.8304 +/- 11.9666 +/- 19.0383	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	3-Nitroaniline CAS # 99-09-2.SEC Purity 99%	(Lot FGN03)	1,000.1 µg/mL	+/- 5.8282 +/- 11.9621 +/- 19.0312	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	2,4-Dinitrotoluene CAS # 121-14-2.SEC Purity 99%	(Lot SHRSA)	1,000.5 µg/mL	+/- 5.8304 +/- 11.9666 +/- 19.0383	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Nitrophenol CAS # 100-02-7.SEC Purity 99%	(Lot 2J5LB)	2,000.3 µg/mL	+/- 11.6296 +/- 23.9111 +/- 38.0542	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol CAS # 58-90-2.SEC Purity 98%	(Lot LC10202V)	1,001.1 µg/mL	+/- 5.8338 +/- 11.9734 +/- 19.0492	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene CAS # 86-73-7.SEC Purity 99%	(Lot 1561600)	1,000.4 µg/mL	+/- 5.8297 +/- 11.9651 +/- 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4-Chlorophenyl phenyl ether CAS # 7005-72-3.SEC Purity 99%	(Lot P31G)	1,000.6 µg/mL	+/- 5.8312 +/- 11.9681 +/- 19.0407	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	n-Hexadecane (C16) CAS # 544-76-3.SEC Purity 99%	(Lot A0328141)	1,000.8 µg/mL	+/- 5.8319 +/- 11.9696 +/- 19.0431	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Diethylphthalate CAS # 84-66-2.SEC Purity 99%	(Lot UMBJC)	1,001.0 µg/mL	+/- 5.8333 +/- 11.9726 +/- 19.0478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Azobenzene CAS # 103-33-3.SEC Purity 99%	(Lot JUWAG)	1,000.8 µg/mL	+/- +/- +/-	5.8319 11.9696 19.0431	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	Diphenylamine CAS # 122-39-4.SEC Purity 99%	(Lot 10164691)	850.5 µg/mL	+/- +/- +/-	4.9563 10.1725 16.1840	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Nitroaniline CAS # 88-74-4.SEC Purity 99%	(Lot T6E7B)	1,000.5 µg/mL	+/- +/- +/-	5.8304 11.9666 19.0383	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) CAS # 534-52-1.SEC Purity 99%	(Lot 3256700)	2,000.8 µg/mL	+/- +/- +/-	11.6325 23.9171 38.0637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	4-Bromophenyl phenyl ether CAS # 101-55-3.SEC Purity 99%	(Lot 84C6D)	1,000.9 µg/mL	+/- +/- +/-	5.8326 11.9711 19.0455	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Hexachlorobenzene CAS # 118-74-1.SEC Purity 99%	(Lot 20622)	1,000.4 µg/mL	+/- +/- +/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Pentachlorophenol CAS # 87-86-5.SEC Purity 99%	(Lot 2357600)	2,001.1 µg/mL	+/- +/- +/-	11.6347 23.9216 38.0708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	Phenanthrene CAS # 85-01-8.SEC Purity 98%	(Lot 1777100)	1,000.2 µg/mL	+/- +/- +/-	5.8288 11.9631 19.0329	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	n-Octadecane (C18) CAS # 593-45-3.SEC Purity 99%	(Lot G14U045)	1,000.9 µg/mL	+/- +/- +/-	5.8326 11.9711 19.0455	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Anthracene CAS # 120-12-7.SEC Purity 99%	(Lot WDFNJ)	1,000.8 µg/mL	+/- +/- +/-	5.8319 11.9696 19.0431	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Carbazole CAS # 86-74-8.SEC Purity 99%	(Lot LMIZB)	1,000.4 µg/mL	+/- +/- +/-	5.8297 11.9651 19.0360	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Di-n-butylphthalate CAS # 84-74-2.SEC Purity 99%	(Lot 42FSG)	1,000.1 µg/mL	+/- +/- +/-	5.8282 11.9621 19.0312	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Fluoranthene CAS # 206-44-0.SEC Purity 99%	(Lot FREGF)	1,000.6 µg/mL	+/- +/- +/-	5.8312 11.9681 19.0407	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Pyrene CAS # 129-00-0.SEC Purity 99%	(Lot ROVJC)	1,000.9 µg/mL	+/- +/- +/-	5.8326 11.9711 19.0455	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Benzyl butyl phthalate CAS # 85-68-7.SEC Purity 98%	(Lot GX3GL)	1,001.6 µg/mL	+/- +/- +/-	5.8366 11.9793 19.0585	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benz(a)anthracene CAS # 56-55-3.SEC Purity 97%	(Lot MTENF)	1,000.2 µg/mL	+/- +/- +/-	5.8286 11.9629 19.0325	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	chrysene			1,000.4	µg/mL	+/-	5.8297	µg/mL	Gravimetric
	CAS #	218-01-9.SEC	(Lot KQ4SE)			+/-	11.9651	µg/mL	Unstressed
	Purity	99%				+/-	19.0360	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate			1,000.8	µg/mL	+/-	5.8319	µg/mL	Gravimetric
	CAS #	117-81-7.SEC	(Lot MT8AG)			+/-	11.9696	µg/mL	Unstressed
	Purity	99%				+/-	19.0431	µg/mL	Stressed
74	Di-n-octyl phthalate			1,000.9	µg/mL	+/-	5.8330	µg/mL	Gravimetric
	CAS #	117-84-0.SEC	(Lot O8DLD)			+/-	11.9719	µg/mL	Unstressed
	Purity	98%				+/-	19.0469	µg/mL	Stressed
75	Benzo(b)fluoranthene			1,000.4	µg/mL	+/-	5.8297	µg/mL	Gravimetric
	CAS #	205-99-2.SEC	(Lot 022011)			+/-	11.9651	µg/mL	Unstressed
	Purity	99%				+/-	19.0360	µg/mL	Stressed
76	Benzo(k)fluoranthene			1,000.9	µg/mL	+/-	5.8326	µg/mL	Gravimetric
	CAS #	207-08-9.SEC	(Lot ER061608-02)			+/-	11.9711	µg/mL	Unstressed
	Purity	99%				+/-	19.0455	µg/mL	Stressed
77	Benzo(a)pyrene			1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS #	50-32-8.SEC	(Lot NPEZF)			+/-	11.9606	µg/mL	Unstressed
	Purity	99%				+/-	19.0288	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene			1,000.1	µg/mL	+/-	5.8282	µg/mL	Gravimetric
	CAS #	193-39-5.SEC	(Lot 022013)			+/-	11.9621	µg/mL	Unstressed
	Purity	99%				+/-	19.0312	µg/mL	Stressed
79	Dibenz(a,h)anthracene			1,000.8	µg/mL	+/-	5.8319	µg/mL	Gravimetric
	CAS #	53-70-3.SEC	(Lot 0012012)			+/-	11.9696	µg/mL	Unstressed
	Purity	99%				+/-	19.0431	µg/mL	Stressed
80	Benzo(g,h,i)perylene			1,000.6	µg/mL	+/-	5.8308	µg/mL	Gravimetric
	CAS #	191-24-2.SEC	(Lot 0022012)			+/-	11.9673	µg/mL	Unstressed
	Purity	96%				+/-	19.0395	µg/mL	Stressed
Solvent: Methylene Chloride									
	CAS #	75-09-2							
	Purity	99%							

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Reagent

MS-570666_00002



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570666 Lot No.: A0114832
Description : 8270 List 1 / Std #1 MegaMix (2016)
8270 List 1 / Std #1 MegaMix (2016) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul
Container Size : 10 mL Pkg Amt: > 5 mL
Expiration Date : April 30, 2017 Storage: 10°C or colder
Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

5-16-16 ZF

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane CAS # 123-91-1 (Lot SHBG1461V) Purity 99%	1,000.9 µg/mL	+/- 5.8193 µg/mL +/- 11.9648 µg/mL +/- 19.0418 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine CAS # 110-86-1 (Lot SHBC7174V) Purity 99%	1,004.7 µg/mL	+/- 5.8416 µg/mL +/- 12.0106 µg/mL +/- 19.1148 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine CAS # 62-75-9 (Lot 4370100) Purity 99%	1,002.6 µg/mL	+/- 5.8294 µg/mL +/- 11.9855 µg/mL +/- 19.0748 µg/mL	Gravimetric Unstressed Stressed
4	Aniline CAS # 62-53-3 (Lot K22Z462) Purity 99%	1,001.8 µg/mL	+/- 5.8246 µg/mL +/- 11.9756 µg/mL +/- 19.0590 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether CAS # 111-44-4 (Lot SHBD4430V) Purity 99%	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 11.9565 µg/mL +/- 19.0285 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol CAS # 95-57-8 (Lot STBF2690V) Purity 99%	1,001.6 µg/mL	+/- 5.8236 µg/mL +/- 11.9736 µg/mL +/- 19.0558 µg/mL	Gravimetric Unstressed Stressed
7	Phenol CAS # 108-95-2 (Lot SHBF1351V) Purity 99%	1,000.6 µg/mL	+/- 5.8176 µg/mL +/- 11.9612 µg/mL +/- 19.0361 µg/mL	Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 Purity 99%	(Lot 3299900)	1,000.2 µg/mL	+/-	5.8151 11.9561 19.0279	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol CAS # 120-83-2 Purity 99%	(Lot BCBH1617V)	1,002.2 µg/mL	+/-	5.8271 11.9808 19.0672	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 98%	(Lot SHBC5541V)	1,000.1 µg/mL	+/-	5.8144 11.9547 19.0258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	1,000.4 µg/mL	+/-	5.8164 11.9588 19.0323	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol CAS # 87-65-0 Purity 99%	(Lot MKBN2776V)	1,001.1 µg/mL	+/-	5.8205 11.9672 19.0456	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline CAS # 106-47-8 Purity 99%	(Lot 12528PH)	1,000.7 µg/mL	+/-	5.8182 11.9624 19.0380	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot J31X013)	1,000.7 µg/mL	+/-	5.8182 11.9626 19.0382	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2-Methylnaphthalene CAS # 91-57-6 Purity 99%	(Lot 19399MTV)	1,001.3 µg/mL	+/-	5.8216 11.9696 19.0494	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	4-Chloro-3-methylphenol CAS # 59-50-7 Purity 99%	(Lot STBC0769V)	1,000.2 µg/mL	+/-	5.8151 11.9561 19.0279	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene CAS # 90-12-0 Purity 99%	(Lot 525000-10)	1,001.1 µg/mL	+/-	5.8203 11.9668 19.0450	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3 Purity 99%	(Lot 06024AIV)	1,000.1 µg/mL	+/-	5.8145 11.9549 19.0260	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4 Purity 97%	(Lot 150909)	999.7 µg/mL	+/-	5.8126 11.9510 19.0199	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2 Purity 99%	(Lot MKBH7393V)	1,001.4 µg/mL	+/-	5.8220 11.9704 19.0507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4 Purity 99%	(Lot 150806JLM)	1,000.1 µg/mL	+/-	5.8145 11.9549 19.0260	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene CAS # 91-58-7 Purity 99%	(Lot AJ2UI-TE)	1,000.9 µg/mL	+/-	5.8193 11.9648 19.0418	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl CAS # 92-52-4 Purity 99%	(Lot 1277976)	1,000.6 µg/mL	+/-	5.8178 11.9616 19.0368	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Azobenzene CAS # 103-33-3 Purity 99%	(Lot MKBS2559V)	1,001.2 µg/mL	+/- 5.8213 +/- 11.9688 +/- 19.0482	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	Diphenylamine CAS # 122-39-4 Purity 99%	(Lot MKBN8295V)	850.7 µg/mL	+/- 4.9460 +/- 10.1693 +/- 16.1843	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Nitroaniline CAS # 88-74-4 Purity 99%	(Lot MKBK7597V)	1,000.2 µg/mL	+/- 5.8151 +/- 11.9561 +/- 19.0279	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) CAS # 534-52-1 Purity 99%	(Lot LC12394V)	2,000.9 µg/mL	+/- 11.6336 +/- 23.9193 +/- 38.0672	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	4-Bromophenyl phenyl ether CAS # 101-55-3 Purity 98%	(Lot STBB9729V)	999.8 µg/mL	+/- 5.8131 +/- 11.9520 +/- 19.0215	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Hexachlorobenzene CAS # 118-74-1 Purity 99%	(Lot LC10604V)	1,001.6 µg/mL	+/- 5.8234 +/- 11.9732 +/- 19.0551	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Pentachlorophenol CAS # 87-86-5 Purity 98%	(Lot 150902JLM)	2,000.5 µg/mL	+/- 11.6311 +/- 23.9142 +/- 38.0591	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	Phenanthrene CAS # 85-01-8 Purity 99%	(Lot MKBT8628V)	1,001.9 µg/mL	+/- 5.8249 +/- 11.9764 +/- 19.0602	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	n-Octadecane (C18) CAS # 593-45-3 Purity 99%	(Lot 27SOF)	1,000.8 µg/mL	+/- 5.8187 +/- 11.9636 +/- 19.0399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Anthracene CAS # 120-12-7 Purity 99%	(Lot MKBK5208V)	1,001.4 µg/mL	+/- 5.8224 +/- 11.9712 +/- 19.0520	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Carbazole CAS # 86-74-8 Purity 98%	(Lot 4017900)	1,000.4 µg/mL	+/- 5.8161 +/- 11.9583 +/- 19.0314	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Di-n-butylphthalate CAS # 84-74-2 Purity 99%	(Lot MKBL8501V)	1,003.6 µg/mL	+/- 5.8348 +/- 11.9967 +/- 19.0926	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Fluoranthene CAS # 206-44-0 Purity 98%	(Lot MKBQ6360V)	1,000.7 µg/mL	+/- 5.8184 +/- 11.9629 +/- 19.0389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Pyrene CAS # 129-00-0 Purity 99%	(Lot BCBL6786V)	1,000.2 µg/mL	+/- 5.8151 +/- 11.9561 +/- 19.0279	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Benzyl butyl phthalate CAS # 85-68-7 Purity 99%	(Lot 03027HV)	1,000.3 µg/mL	+/- 5.8158 +/- 11.9576 +/- 19.0304	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benz(a)anthracene CAS # 56-55-3 Purity 99%	(Lot ER031412-01)	1,000.1 µg/mL	+/- 5.8147 +/- 11.9553 +/- 19.0266	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi

Temp. Program:

35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:

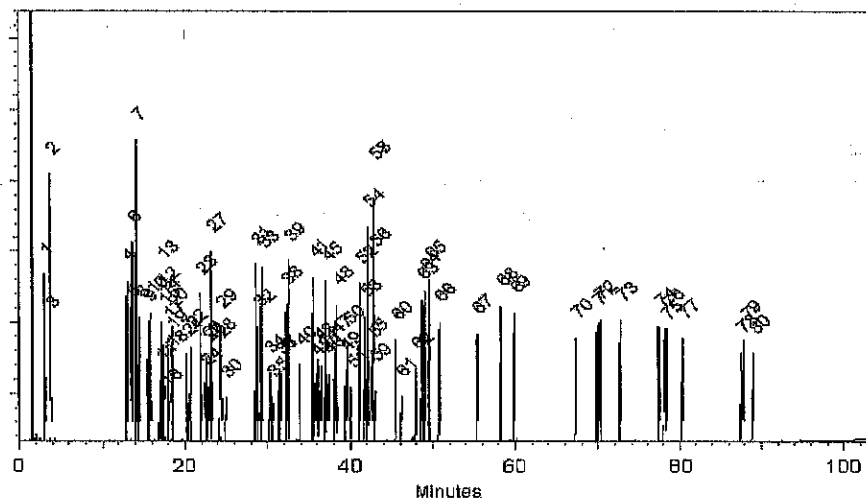
250°C

Det. Temp:

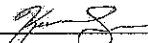
300°C

Det. Type:

FID

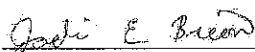


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Kendra Swope - Mix Technician

Date Mixed: 20-Oct-2015

Balance: B442140311


Jodi E. Breon - QA Analyst

Date Passed: 04-Nov-2015

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

8270D_SIM_DOD5

Semivolatile Organic Compounds
(GC/MS SIM)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): Rxi-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHL #
CBLmw-001-110916-G W	280-90775-1	51 Q	52 Q	101
CBLmw-002-110916-G W	280-90775-2	61	62	78
CBLmw-003-110916-G W	280-90775-3	70	68	80
CBLmw-004-110916-G W	280-90775-4	83	87	95
	MB 280-351615/1-A	72	63	82
	LCS 280-351615/2-A	76	68	86

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

QC LIMITS
55-111
53-106
58-132

Column to be used to flag recovery values

FORM II 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: X4_8553.D
 Lab ID: LCS 280-351615/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	0.900	0.801	89	48-114	
Acenaphthylene	0.900	0.769	85	35-121	
Anthracene	0.900	0.848	94	53-119	
Benzo[a]anthracene	0.900	0.851	95	59-120	
Benzo[b]fluoranthene	0.900	0.871	97	53-126	
Benzo[k]fluoranthene	0.900	0.860	96	54-125	
Benzo[g,h,i]perylene	0.900	0.912	101	44-128	
Benzo[a]pyrene	0.900	0.877	97	53-120	
Chrysene	0.900	0.907	101	57-120	
Dibenz(a,h)anthracene	0.900	0.973	108	44-131	M
Fluoranthene	0.900	0.906	101	58-120	
Fluorene	0.900	0.881	98	50-118	
Indeno[1,2,3-cd]pyrene	0.900	0.946	105	48-130	
Naphthalene	0.900	0.729	81	43-114	
Phenanthrene	0.900	0.858	95	53-115	
Pyrene	0.900	0.876	97	53-121	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab File ID: X4_8552.D Lab Sample ID: MB 280-351615/1-A
Matrix: Water Date Extracted: 11/15/2016 16:58
Instrument ID: SMS_X4 Date Analyzed: 11/19/2016 07:55
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-351615/2-A	X4_8553.D	11/19/2016 08:21
CBLmw-001-110916-GW	280-90775-1	X4_8563.D	11/19/2016 12:56
CBLmw-002-110916-GW	280-90775-2	X4_8564.D	11/19/2016 13:23
CBLmw-003-110916-GW	280-90775-3	X4_8565.D	11/19/2016 13:49
CBLmw-004-110916-GW	280-90775-4	X4_8566.D	11/19/2016 14:15

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab File ID: X4_7789.D DFTPP Injection Date: 10/05/2016
Instrument ID: SMS_X4 DFTPP Injection Time: 10:24
Analysis Batch No.: 344978

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	44.7
68	Less than 2.0 % of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	45.2
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	40.0 - 60.0 % of mass 198	54.1
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.6
275	10.0 - 30.0 % of mass 198	23.3
365	Greater than 1.0 % of mass 198	2.6
441	Present but less than mass 443	9.1 (70.8) 3
442	Greater than 40.0 % of mass 198	64.9
443	17.0 - 23.0 % of mass 442	12.8 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0020 280-344978/2	X4_7790.D	10/05/2016	11:07
	STD0100 280-344978/3	X4_7791.D	10/05/2016	11:34
	STD0300 280-344978/4	X4_7792.D	10/05/2016	12:00
	ICIS 280-344978/5	X4_7793.D	10/05/2016	12:27
	STD1200 280-344978/6	X4_7794.D	10/05/2016	12:53
	STD2500 280-344978/7	X4_7795.D	10/05/2016	13:20
	STD5000 280-344978/8	X4_7796.D	10/05/2016	13:46
	STD10000 280-344978/9	X4_7797.D	10/05/2016	14:12
	ICV 280-344978/10	X4_7798.D	10/05/2016	14:39

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab File ID: X4_8550.D DFTPP Injection Date: 11/19/2016
Instrument ID: SMS_X4 DFTPP Injection Time: 07:02
Analysis Batch No.: 352243

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	42.0
68	Less than 2.0 % of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	41.3
70	Less than 2.0 % of mass 69	0.2 (0.6) 1
127	40.0 - 60.0 % of mass 198	50.4
197	Less than 1.0 % of mass 198	0.2
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.7
275	10.0 - 30.0 % of mass 198	23.7
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	9.4 (76.5) 3
442	Greater than 40.0 % of mass 198	65.0
443	17.0 - 23.0 % of mass 442	12.2 (18.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-352243/2	X4_8551.D	11/19/2016	07:21
	MB 280-351615/1-A	X4_8552.D	11/19/2016	07:55
	LCS 280-351615/2-A	X4_8553.D	11/19/2016	08:21
CBLmw-001-110916-GW	280-90775-1	X4_8563.D	11/19/2016	12:56
CBLmw-002-110916-GW	280-90775-2	X4_8564.D	11/19/2016	13:23
CBLmw-003-110916-GW	280-90775-3	X4_8565.D	11/19/2016	13:49
CBLmw-004-110916-GW	280-90775-4	X4_8566.D	11/19/2016	14:15
	CCVC 280-352243/25	X4_8574.D	11/19/2016	17:47

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Sample No.: ICIS 280-344978/5 Date Analyzed: 10/05/2016 12:27
 Instrument ID: SMS_X4 GC Column: Rxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): X4_7793.D Heated Purge: (Y/N) N
 Calibration ID: 27220

		ANT		PHN		CRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		71775	5.77	121144	7.03	133234	10.76
UPPER LIMIT		143550	6.27	242288	7.53	266468	11.26
LOWER LIMIT		35888	5.27	60572	6.53	66617	10.26
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 280-344978/10		66787	5.77	112902	7.03	149392	10.75
CCV 280-352243/2		90951	5.77	173335	7.03	183758	10.77
MB 280-351615/1-A		52023	5.77	98311	7.03	106349	10.77
LCS 280-351615/2-A		51396	5.77	99316	7.03	105364	10.76
280-90775-1	CBLmw-001-110916-GW	52757	5.77	101615	7.03	106903	10.75
280-90775-2	CBLmw-002-110916-GW	52271	5.77	102458	7.03	111536	10.75
280-90775-3	CBLmw-003-110916-GW	51977	5.77	101288	7.03	108830	10.75
280-90775-4	CBLmw-004-110916-GW	51891	5.77	101089	7.03	106728	10.75
CCVC 280-352243/25		59942	5.77	111465	7.03	114528	10.74

ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10
 CRY = Chrysene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-001-110916-GW Lab Sample ID: 280-90775-1
 Matrix: Water Lab File ID: X4_8563.D
 Analysis Method: 8270D SIM Date Collected: 11/09/2016 10:45
 Extract. Method: 3510C Date Extracted: 11/15/2016 16:58
 Sample wt/vol: 245.3(mL) Date Analyzed: 11/19/2016 12:56
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 352243 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.041	U Q	0.10	0.041	0.0043
208-96-8	Acenaphthylene	0.041	U Q	0.10	0.041	0.0052
120-12-7	Anthracene	0.041	U Q	0.10	0.041	0.0057
56-55-3	Benzo[a]anthracene	0.012	U	0.10	0.012	0.0043
205-99-2	Benzo[b]fluoranthene	0.012	U	0.10	0.012	0.0032
207-08-9	Benzo[k]fluoranthene	0.012	U	0.10	0.012	0.0064
191-24-2	Benzo[g,h,i]perylene	0.012	U	0.10	0.012	0.0063
50-32-8	Benzo[a]pyrene	0.012	U	0.10	0.012	0.0070
218-01-9	Chrysene	0.012	U	0.10	0.012	0.0034
53-70-3	Dibenz(a,h)anthracene	0.012	U	0.10	0.012	0.0042
206-44-0	Fluoranthene	0.012	U Q	0.10	0.012	0.0049
86-73-7	Fluorene	0.041	U Q	0.10	0.041	0.0056
193-39-5	Indeno[1,2,3-cd]pyrene	0.041	U	0.10	0.041	0.0046
91-20-3	Naphthalene	0.012	U Q	0.10	0.012	0.0082
85-01-8	Phenanthrene	0.020	U Q	0.10	0.020	0.0095
129-00-0	Pyrene	0.020	U Q	0.10	0.020	0.0062

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	52	Q	53-106
1718-51-0	Terphenyl-d14 (Surr)	101		58-132
4165-60-0	Nitrobenzene-d5 (Surr)	51	Q	55-111

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8563.D
 Lims ID: 280-90775-D-1-A
 Client ID: CBLmw-001-110916-GW
 Sample Type: Client
 Inject. Date: 19-Nov-2016 12:56:30 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-d-1-a
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:56:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.772	-0.007	96	52757	600.0	
* 2 Phenanthrene-d10	188	7.028	7.034	-0.006	100	101615	600.0	
* 3 Chrysene-d12	240	10.752	10.768	-0.016	96	106903	600.0	
\$ 4 Nitrobenzene-d5	82	3.745	3.742	0.003	97	4126	63.9	
\$ 5 2-Fluorobiphenyl	172	5.173	5.177	-0.004	98	8042	65.0	
\$ 6 Terphenyl-d14	244	8.714	8.725	-0.011	99	16067	126.5	
9 Naphthalene	128		4.330				ND	
13 Acenaphthylene	152		5.651				ND	
14 Acenaphthene	153		5.793				ND	
17 Fluorene	166		6.230				ND	
19 Phenanthrene	178		7.056				ND	
20 Anthracene	178		7.099				ND	
22 Fluoranthene	202		8.253				ND	
23 Pyrene	202		8.562				ND	
26 Benzo[a]anthracene	228		10.744				ND	
27 Chrysene	228		10.831				ND	
29 Benzo[b]fluoranthene	252		13.695				ND	
30 Benzo[k]fluoranthene	252		13.773				ND	
31 Benzo[a]pyrene	252		14.708				ND	
32 Indeno[1,2,3-cd]pyrene	276		18.096				ND	
33 Dibenz(a,h)anthracene	278		18.148				ND	
34 Benzo[g,h,i]perylene	276		18.554				ND	

Reagents:

MS-SIM IS_00028 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8563.D

Injection Date: 19-Nov-2016 12:56:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: 280-90775-D-1-A

Lab Sample ID: 280-90775-1

Worklist Smp#: 14

Client ID: CBLmw-001-110916-GW

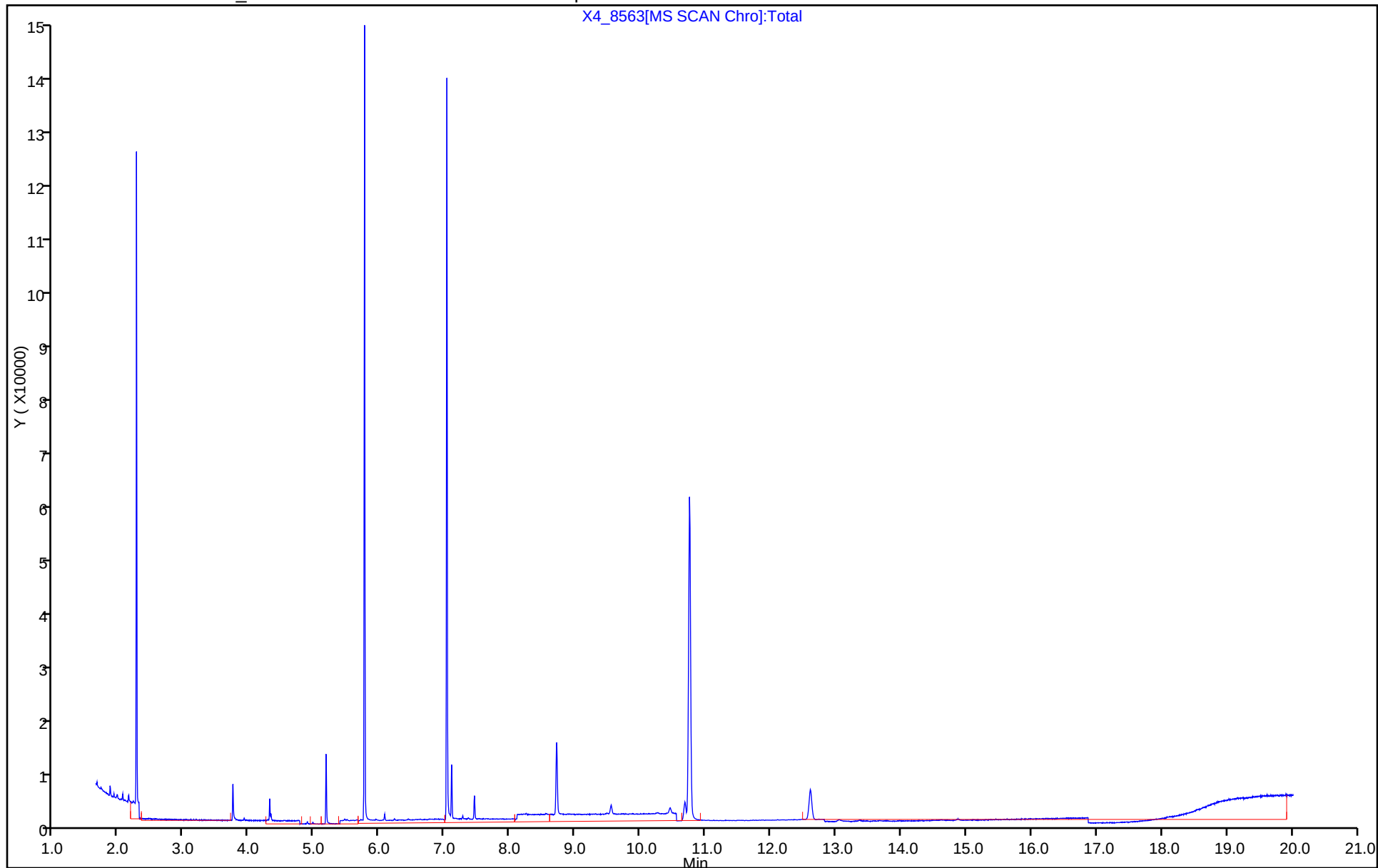
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8563.D
Lims ID: 280-90775-D-1-A
Client ID: CBLmw-001-110916-GW
Sample Type: Client
Inject. Date: 19-Nov-2016 12:56:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 280-90775-d-1-a
Operator ID: VASQUEZK Instrument ID: SMS_X4
Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: vasquezk Date: 22-Nov-2016 10:56:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	125.0	63.9	51.14
\$ 5 2-Fluorobiphenyl	125.0	65.0	51.98
\$ 6 Terphenyl-d14	125.0	126.5	101.22

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-002-110916-GW Lab Sample ID: 280-90775-2
 Matrix: Water Lab File ID: X4_8564.D
 Analysis Method: 8270D SIM Date Collected: 11/09/2016 09:25
 Extract. Method: 3510C Date Extracted: 11/15/2016 16:58
 Sample wt/vol: 246.7(mL) Date Analyzed: 11/19/2016 13:23
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 352243 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.041	U	0.10	0.041	0.0043
208-96-8	Acenaphthylene	0.041	U	0.10	0.041	0.0052
120-12-7	Anthracene	0.041	U	0.10	0.041	0.0057
56-55-3	Benzo[a]anthracene	0.012	U	0.10	0.012	0.0043
205-99-2	Benzo[b]fluoranthene	0.012	U	0.10	0.012	0.0031
207-08-9	Benzo[k]fluoranthene	0.012	U	0.10	0.012	0.0064
191-24-2	Benzo[g,h,i]perylene	0.012	U	0.10	0.012	0.0063
50-32-8	Benzo[a]pyrene	0.012	U	0.10	0.012	0.0070
218-01-9	Chrysene	0.012	U	0.10	0.012	0.0033
53-70-3	Dibenz(a,h)anthracene	0.012	U	0.10	0.012	0.0042
206-44-0	Fluoranthene	0.012	U	0.10	0.012	0.0049
86-73-7	Fluorene	0.041	U	0.10	0.041	0.0056
193-39-5	Indeno[1,2,3-cd]pyrene	0.041	U	0.10	0.041	0.0046
91-20-3	Naphthalene	0.012	U	0.10	0.012	0.0081
85-01-8	Phenanthrene	0.020	U	0.10	0.020	0.0094
129-00-0	Pyrene	0.020	U	0.10	0.020	0.0062

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	62		53-106
1718-51-0	Terphenyl-d14 (Surr)	78		58-132
4165-60-0	Nitrobenzene-d5 (Surr)	61		55-111

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8564.D
 Lims ID: 280-90775-D-2-A
 Client ID: CBLmw-002-110916-GW
 Sample Type: Client
 Inject. Date: 19-Nov-2016 13:23:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-d-2-a
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:56:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.772	-0.007	96	52271	600.0	
* 2 Phenanthrene-d10	188	7.028	7.034	-0.006	100	102458	600.0	
* 3 Chrysene-d12	240	10.752	10.768	-0.016	96	111536	600.0	
\$ 4 Nitrobenzene-d5	82	3.745	3.742	0.003	98	4879	76.3	
\$ 5 2-Fluorobiphenyl	172	5.173	5.177	-0.004	98	9535	77.8	
\$ 6 Terphenyl-d14	244	8.714	8.725	-0.011	99	12758	97.8	
9 Naphthalene	128		4.330				ND	
13 Acenaphthylene	152		5.651				ND	
14 Acenaphthene	153		5.793				ND	
17 Fluorene	166		6.230				ND	
19 Phenanthrene	178		7.056				ND	
20 Anthracene	178		7.099				ND	
22 Fluoranthene	202		8.253				ND	
23 Pyrene	202		8.562				ND	
26 Benzo[a]anthracene	228		10.744				ND	
27 Chrysene	228		10.831				ND	
29 Benzo[b]fluoranthene	252		13.695				ND	
30 Benzo[k]fluoranthene	252		13.773				ND	
31 Benzo[a]pyrene	252		14.708				ND	
32 Indeno[1,2,3-cd]pyrene	276		18.096				ND	
33 Dibenz(a,h)anthracene	278		18.148				ND	
34 Benzo[g,h,i]perylene	276		18.554				ND	

Reagents:

MS-SIM IS_00028 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8564.D

Injection Date: 19-Nov-2016 13:23:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: 280-90775-D-2-A

Lab Sample ID: 280-90775-2

Worklist Smp#: 15

Client ID: CBLmw-002-110916-GW

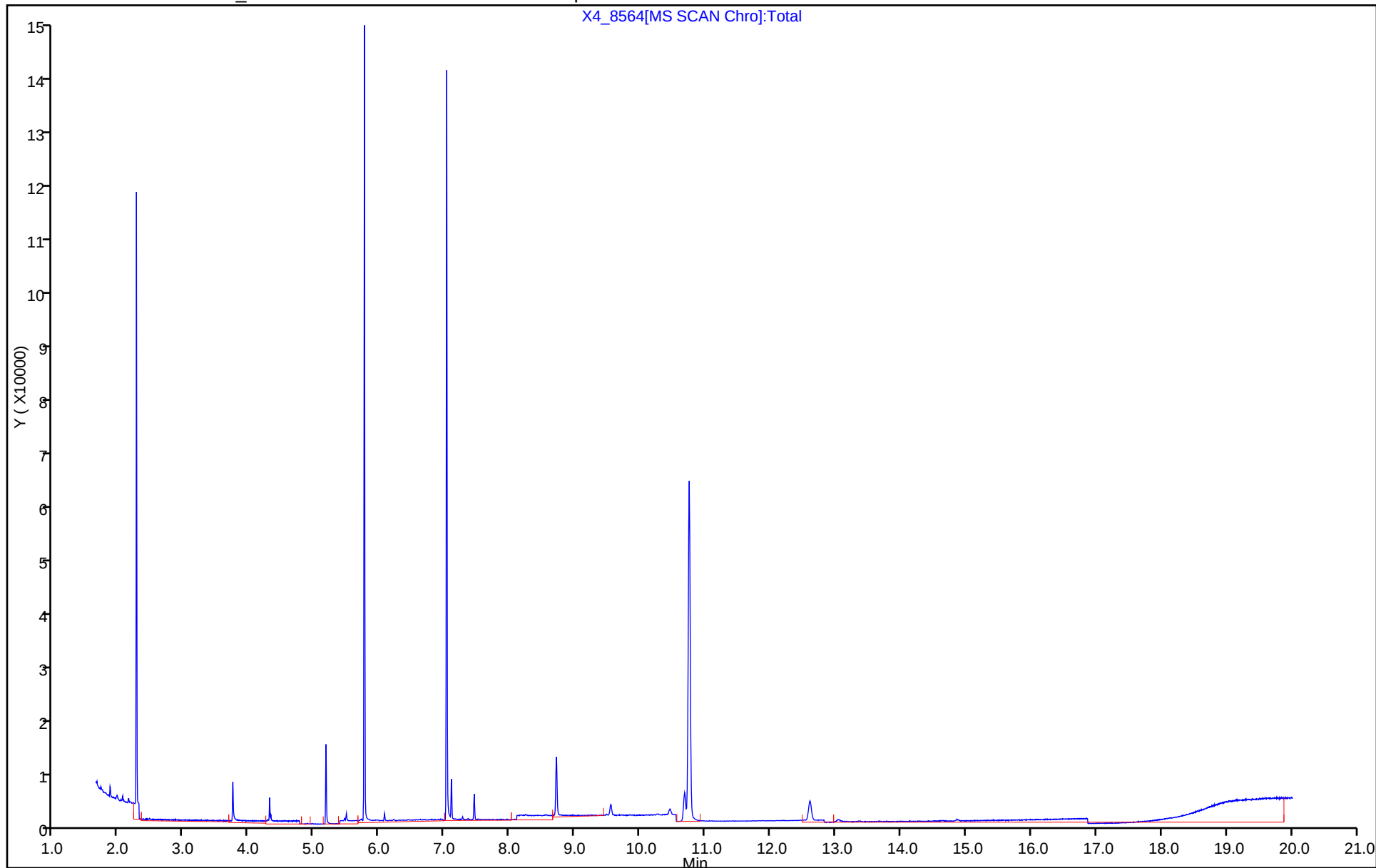
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 15

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8564.D
Lims ID: 280-90775-D-2-A
Client ID: CBLmw-002-110916-GW
Sample Type: Client
Inject. Date: 19-Nov-2016 13:23:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 280-90775-d-2-a
Operator ID: VASQUEZK Instrument ID: SMS_X4
Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:56:42

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	125.0	76.3	61.03
\$ 5 2-Fluorobiphenyl	125.0	77.8	62.20
\$ 6 Terphenyl-d14	125.0	97.8	78.20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-003-110916-GW Lab Sample ID: 280-90775-3
 Matrix: Water Lab File ID: X4_8565.D
 Analysis Method: 8270D SIM Date Collected: 11/09/2016 12:45
 Extract. Method: 3510C Date Extracted: 11/15/2016 16:58
 Sample wt/vol: 251.9(mL) Date Analyzed: 11/19/2016 13:49
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 352243 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.040	U	0.099	0.040	0.0042
208-96-8	Acenaphthylene	0.040	U	0.099	0.040	0.0051
120-12-7	Anthracene	0.040	U	0.099	0.040	0.0056
56-55-3	Benzo[a]anthracene	0.012	U	0.099	0.012	0.0042
205-99-2	Benzo[b]fluoranthene	0.012	U	0.099	0.012	0.0031
207-08-9	Benzo[k]fluoranthene	0.012	U	0.099	0.012	0.0063
191-24-2	Benzo[g,h,i]perylene	0.012	U	0.099	0.012	0.0062
50-32-8	Benzo[a]pyrene	0.012	U	0.099	0.012	0.0068
218-01-9	Chrysene	0.012	U	0.099	0.012	0.0033
53-70-3	Dibenz(a,h)anthracene	0.012	U	0.099	0.012	0.0041
206-44-0	Fluoranthene	0.012	U	0.099	0.012	0.0048
86-73-7	Fluorene	0.040	U	0.099	0.040	0.0055
193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U	0.099	0.040	0.0045
91-20-3	Naphthalene	0.012	U	0.099	0.012	0.0079
85-01-8	Phenanthrene	0.020	U	0.099	0.020	0.0092
129-00-0	Pyrene	0.020	U	0.099	0.020	0.0061

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	68		53-106
1718-51-0	Terphenyl-d14 (Surr)	80		58-132
4165-60-0	Nitrobenzene-d5 (Surr)	70		55-111

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8565.D
 Lims ID: 280-90775-C-3-A
 Client ID: CBLmw-003-110916-GW
 Sample Type: Client
 Inject. Date: 19-Nov-2016 13:49:30 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-c-3-a
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:56:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.772	-0.007	95	51977	600.0	
* 2 Phenanthrene-d10	188	7.028	7.034	-0.006	100	101288	600.0	
* 3 Chrysene-d12	240	10.752	10.768	-0.016	96	108830	600.0	
\$ 4 Nitrobenzene-d5	82	3.745	3.742	0.003	97	5571	87.6	
\$ 5 2-Fluorobiphenyl	172	5.173	5.177	-0.004	99	10366	85.0	
\$ 6 Terphenyl-d14	244	8.714	8.725	-0.011	99	12910	100.3	
9 Naphthalene	128		4.330				ND	
13 Acenaphthylene	152		5.651				ND	
14 Acenaphthene	153		5.793				ND	
17 Fluorene	166		6.230				ND	
19 Phenanthrene	178		7.056				ND	
20 Anthracene	178		7.099				ND	
22 Fluoranthene	202		8.253				ND	
23 Pyrene	202		8.562				ND	
26 Benzo[a]anthracene	228		10.744				ND	
27 Chrysene	228		10.831				ND	
29 Benzo[b]fluoranthene	252		13.695				ND	
30 Benzo[k]fluoranthene	252		13.773				ND	
31 Benzo[a]pyrene	252		14.708				ND	
32 Indeno[1,2,3-cd]pyrene	276		18.096				ND	
33 Dibenz(a,h)anthracene	278		18.148				ND	
34 Benzo[g,h,i]perylene	276		18.554				ND	

Reagents:

MS-SIM IS_00028

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8565.D

Injection Date: 19-Nov-2016 13:49:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: 280-90775-C-3-A

Lab Sample ID: 280-90775-3

Worklist Smp#: 16

Client ID: CBLmw-003-110916-GW

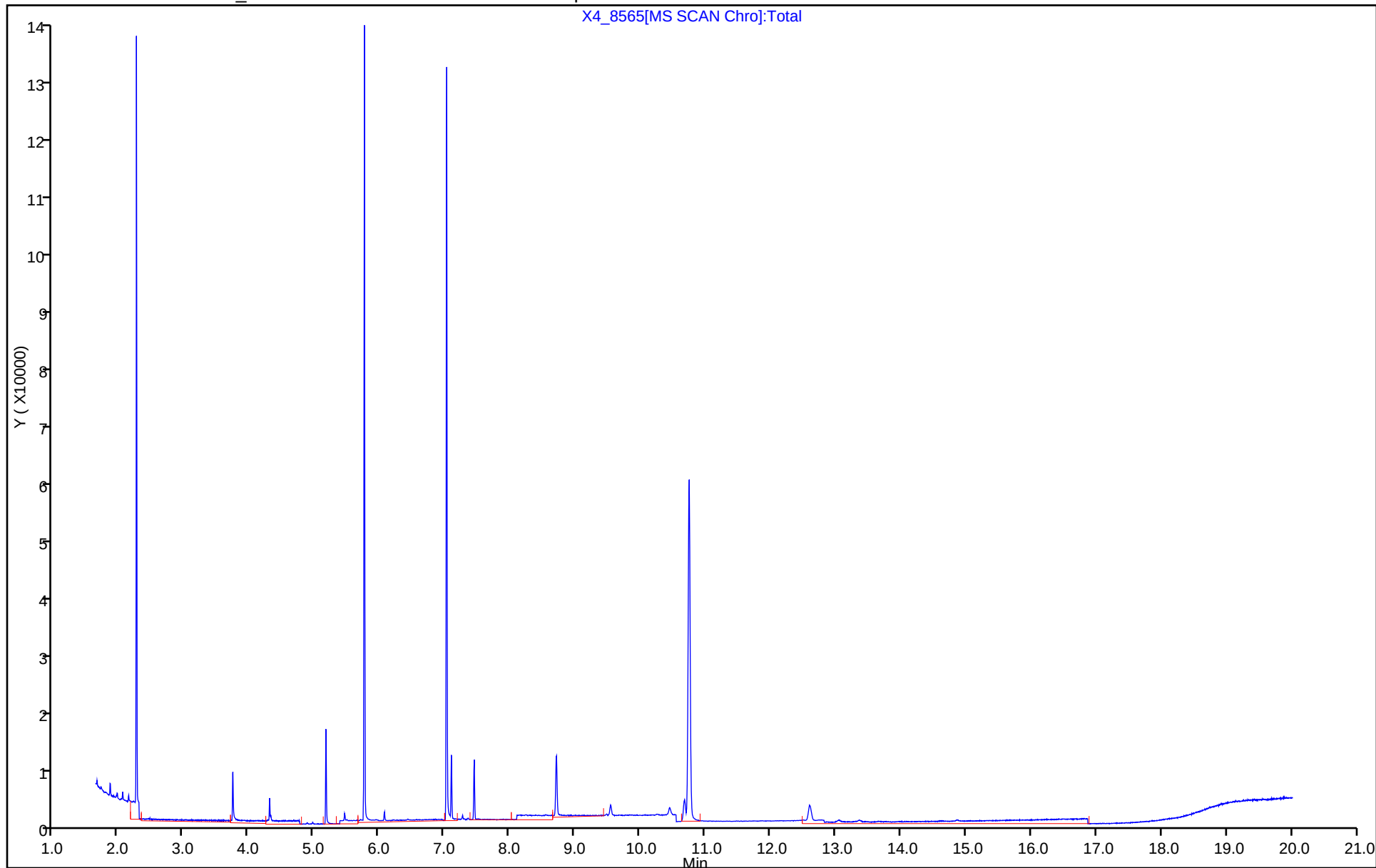
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 16

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8565.D
Lims ID: 280-90775-C-3-A
Client ID: CBLmw-003-110916-GW
Sample Type: Client
Inject. Date: 19-Nov-2016 13:49:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 280-90775-c-3-a
Operator ID: VASQUEZK Instrument ID: SMS_X4
Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: vasquezk Date: 22-Nov-2016 10:56:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	125.0	87.6	70.08
\$ 5 2-Fluorobiphenyl	125.0	85.0	68.01
\$ 6 Terphenyl-d14	125.0	100.3	80.22

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-004-110916-GW Lab Sample ID: 280-90775-4
 Matrix: Water Lab File ID: X4_8566.D
 Analysis Method: 8270D SIM Date Collected: 11/09/2016 11:25
 Extract. Method: 3510C Date Extracted: 11/15/2016 16:58
 Sample wt/vol: 239.6(mL) Date Analyzed: 11/19/2016 14:15
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 352243 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.042	U	0.10	0.042	0.0044
208-96-8	Acenaphthylene	0.042	U	0.10	0.042	0.0053
120-12-7	Anthracene	0.042	U	0.10	0.042	0.0058
56-55-3	Benzo[a]anthracene	0.013	U	0.10	0.013	0.0044
205-99-2	Benzo[b]fluoranthene	0.013	U	0.10	0.013	0.0032
207-08-9	Benzo[k]fluoranthene	0.013	U	0.10	0.013	0.0066
191-24-2	Benzo[g,h,i]perylene	0.013	U	0.10	0.013	0.0065
50-32-8	Benzo[a]pyrene	0.013	U	0.10	0.013	0.0072
218-01-9	Chrysene	0.013	U	0.10	0.013	0.0034
53-70-3	Dibenz(a,h)anthracene	0.013	U	0.10	0.013	0.0043
206-44-0	Fluoranthene	0.013	U	0.10	0.013	0.0050
86-73-7	Fluorene	0.042	U	0.10	0.042	0.0057
193-39-5	Indeno[1,2,3-cd]pyrene	0.042	U	0.10	0.042	0.0047
91-20-3	Naphthalene	0.013	U	0.10	0.013	0.0083
85-01-8	Phenanthrene	0.021	U	0.10	0.021	0.0097
129-00-0	Pyrene	0.021	U	0.10	0.021	0.0064

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	87		53-106
1718-51-0	Terphenyl-d14 (Surr)	95		58-132
4165-60-0	Nitrobenzene-d5 (Surr)	83		55-111

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8566.D
 Lims ID: 280-90775-D-4-A
 Client ID: CBLmw-004-110916-GW
 Sample Type: Client
 Inject. Date: 19-Nov-2016 14:15:30 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-d-4-a
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:56:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.772	-0.007	95	51891	600.0	
* 2 Phenanthrene-d10	188	7.029	7.034	-0.006	100	101089	600.0	
* 3 Chrysene-d12	240	10.752	10.768	-0.016	96	106728	600.0	
\$ 4 Nitrobenzene-d5	82	3.742	3.742	0.000	98	6596	103.9	
\$ 5 2-Fluorobiphenyl	172	5.173	5.177	-0.004	99	13311	109.3	
\$ 6 Terphenyl-d14	244	8.714	8.725	-0.011	99	15035	118.5	
9 Naphthalene	128		4.330				ND	
13 Acenaphthylene	152		5.651				ND	
14 Acenaphthene	153		5.793				ND	
17 Fluorene	166		6.230				ND	
19 Phenanthrene	178		7.056				ND	
20 Anthracene	178		7.099				ND	
22 Fluoranthene	202		8.253				ND	
23 Pyrene	202		8.562				ND	
26 Benzo[a]anthracene	228		10.744				ND	
27 Chrysene	228		10.831				ND	
29 Benzo[b]fluoranthene	252		13.695				ND	
30 Benzo[k]fluoranthene	252		13.773				ND	
31 Benzo[a]pyrene	252		14.708				ND	
32 Indeno[1,2,3-cd]pyrene	276		18.096				ND	
33 Dibenz(a,h)anthracene	278		18.148				ND	
34 Benzo[g,h,i]perylene	276		18.554				ND	

Reagents:

MS-SIM IS_00028

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8566.D

Injection Date: 19-Nov-2016 14:15:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: 280-90775-D-4-A

Lab Sample ID: 280-90775-4

Worklist Smp#: 17

Client ID: CBLmw-004-110916-GW

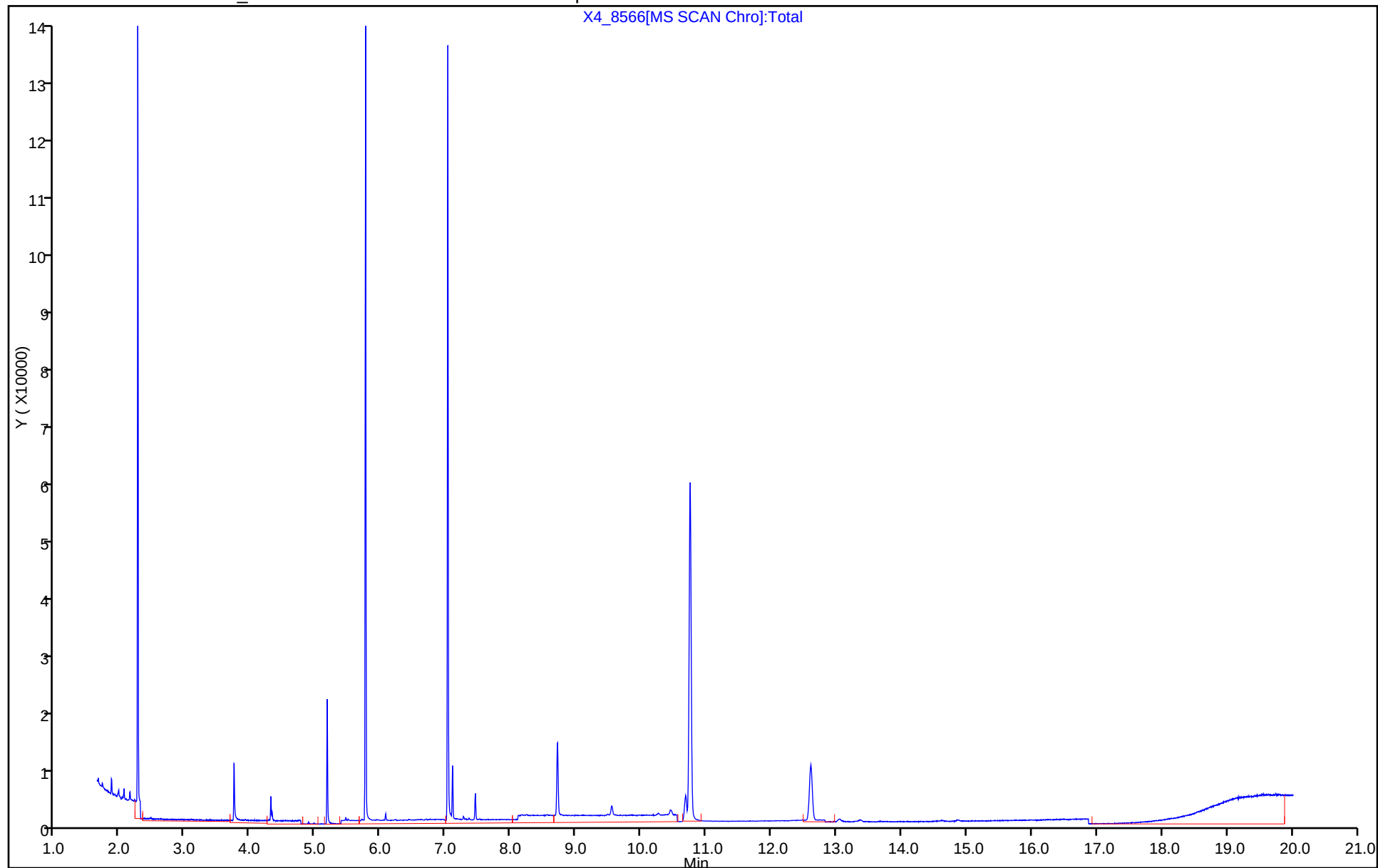
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 17

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8566.D
Lims ID: 280-90775-D-4-A
Client ID: CBLmw-004-110916-GW
Sample Type: Client
Inject. Date: 19-Nov-2016 14:15:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 280-90775-d-4-a
Operator ID: VASQUEZK Instrument ID: SMS_X4
Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: vasquezk Date: 22-Nov-2016 10:56:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	125.0	103.9	83.11
\$ 5 2-Fluorobiphenyl	125.0	109.3	87.47
\$ 6 Terphenyl-d14	125.0	118.5	94.79

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 344978

SDG No.: _____

Instrument ID: SMS_X4 GC Column: Rxi-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 11:07 Calibration End Date: 10/05/2016 14:12 Calibration ID: 27220

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD10000 280-344978/9	X4_7797.D
Level 2	STD0020 280-344978/2	X4_7790.D
Level 3	STD0100 280-344978/3	X4_7791.D
Level 4	STD0300 280-344978/4	X4_7792.D
Level 5	ICIS 280-344978/5	X4_7793.D
Level 6	STD1200 280-344978/6	X4_7794.D
Level 7	STD2500 280-344978/7	X4_7795.D
Level 8	STD5000 280-344978/8	X4_7796.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Naphthalene	+++++	1.8428	1.6585	1.8112	1.7173	Ave		1.7207			0.7000	5.1		15.0			
	1.7175	1.5855	1.7123														
2-Methylnaphthalene	+++++	1.1915	1.0645	1.1732	1.1156	Ave		1.1177			0.4000	4.8		15.0			
	1.1190	1.0420	1.1184														
1-Methylnaphthalene	+++++	1.2313	1.0620	1.1475	1.0960	Ave		1.1095			0.0500	5.9		15.0			
	1.1040	1.0242	1.1020														
Acenaphthylene	+++++	1.9803	1.7297	1.8649	1.7641	Ave		1.8016			0.9000	5.4		15.0			
	1.8035	1.6804	1.7881														
Acenaphthene	+++++	1.2050	1.0552	1.1257	1.0728	Ave		1.0939			0.9000	5.3		15.0			
	1.0866	1.0267	1.0852														
Fluorene	+++++	1.4378	1.2525	1.3343	1.2715	Ave		1.3040			0.9000	5.2		15.0			
	1.3041	1.2382	1.2894														
Phenanthrene	+++++	1.2052	1.0754	1.1393	1.0828	Ave		1.1078			0.7000	4.8		15.0			
	1.1140	1.0388	1.0993														
Anthracene	+++++	1.2902	1.1021	1.1686	1.1096	Ave		1.1501			0.7000	6.0		15.0			
	1.1547	1.0792	1.1463														
Fluoranthene	+++++	1.4714	1.2090	1.3267	1.2294	Ave		1.2844			0.6000	7.2		15.0			
	1.2823	1.2180	1.2540														
Pyrene	+++++	1.5500	1.2635	1.3926	1.2932	Ave		1.3686			0.6000	7.7		15.0			
	1.3486	1.2773	1.4550														
Benzo[a]anthracene	+++++	1.5012	1.2438	1.2599	1.1791	Ave		1.2525			0.8000	9.1		15.0			
	1.2132	1.1655	1.2050														
Chrysene	+++++	1.3594	1.1568	1.1636	1.0993	Ave		1.1589			0.7000	8.1		15.0			
	1.1343	1.0787	1.1204														
Benzo[b]fluoranthene	+++++	1.4104	1.2300	1.3078	1.2465	Ave		1.2730			0.7000	5.8		15.0			
	1.2807	1.1721	1.2636														
Benzo[k]fluoranthene	+++++	1.3725	1.2877	1.3723	1.2838	Ave		1.3034			0.7000	4.2		15.0			
	1.2988	1.2156	1.2929														

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 344978
SDG No.: _____
Instrument ID: SMS_X4 GC Column: Rxi-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/05/2016 11:07 Calibration End Date: 10/05/2016 14:12 Calibration ID: 27220

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	++++ 1.2582	1.2637 1.1647	1.2431 1.2516	1.3084	1.2474	Ave		1.2481			0.7000	3.4		15.0			
Indeno[1,2,3-cd]pyrene	++++ 1.2133	1.2603 1.0998	1.2325 1.1872	1.2423	1.2107	Ave		1.2066			0.5000	4.4		15.0			
Dibenz(a,h)anthracene	++++ 1.1796	1.0657 1.1230	1.1180 1.2277	1.2760	1.1421	Ave		1.1617			0.4000	6.2		15.0			
Benzo[g,h,i]perylene	++++ 1.2942	1.4235 1.1921	1.2928 1.2765	1.3473	1.2960	Ave		1.3032			0.5000	5.4		15.0			
Nitrobenzene-d5 (Surr)	0.7136 0.7120	0.8590 0.6618	0.6758 0.8016	0.7398	0.7091	Ave		0.7341				9.0		15.0			
2-Fluorobiphenyl (Surr)	1.3641 1.3640	1.7889 1.2687	1.3526 1.3535	1.4225	1.3466	Ave		1.4076				11.3		15.0			
Terphenyl-d14 (Surr)	0.6499 0.7285	1.0221 0.6877	0.6971 0.7901	0.7572	0.6862	Lin2	6.2110	0.7007							0.9940		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 344978

SDG No.: _____

Instrument ID: SMS_X4 GC Column: Rxi-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 11:07 Calibration End Date: 10/05/2016 14:12 Calibration ID: 27220

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD10000 280-344978/9	X4_7797.D
Level 2	STD0020 280-344978/2	X4_7790.D
Level 3	STD0100 280-344978/3	X4_7791.D
Level 4	STD0300 280-344978/4	X4_7792.D
Level 5	ICIS 280-344978/5	X4_7793.D
Level 6	STD1200 280-344978/6	X4_7794.D
Level 7	STD2500 280-344978/7	X4_7795.D
Level 8	STD5000 280-344978/8	X4_7796.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Naphthalene	ANT	Ave	+++++ 228846	4987 458526	21904 987071	60416	123257	+++++ 1200	20.0 2500	100 5000	300	600
2-Methylnaphthalene	ANT	Ave	+++++ 298199	6449 602688	28120 1289494	78267	160142	+++++ 2400	40.0 5000	200 10000	600	1200
1-Methylnaphthalene	ANT	Ave	+++++ 147107	3332 296189	14026 635252	38277	78663	+++++ 1200	20.0 2500	100 5000	300	600
Acenaphthylene	ANT	Ave	+++++ 240307	5359 485961	22845 1030779	62210	126620	+++++ 1200	20.0 2500	100 5000	300	600
Acenaphthene	ANT	Ave	+++++ 144788	3261 296932	13936 625593	37552	77002	+++++ 1200	20.0 2500	100 5000	300	600
Fluorene	ANT	Ave	+++++ 173772	3891 358081	16542 743333	44508	91263	+++++ 1200	20.0 2500	100 5000	300	600
Phenanthrene	PHN	Ave	+++++ 252965	5915 521856	23884 1065964	64713	131170	+++++ 1200	20.0 2500	100 5000	300	600
Anthracene	PHN	Ave	+++++ 262218	6332 542152	24478 1111543	66382	134417	+++++ 1200	20.0 2500	100 5000	300	600
Fluoranthene	PHN	Ave	+++++ 291185	7221 611904	26851 1216059	75360	148937	+++++ 1200	20.0 2500	100 5000	300	600
Pyrene	PHN	Ave	+++++ 306233	7607 641698	28061 1410937	79103	156664	+++++ 1200	20.0 2500	100 5000	300	600
Benzo[a]anthracene	CRY	Ave	+++++ 304533	7243 639174	26469 1292078	80742	157090	+++++ 1200	20.0 2500	100 5000	300	600
Chrysene	CRY	Ave	+++++ 284721	6559 591569	24618 1201464	74567	146460	+++++ 1200	20.0 2500	100 5000	300	600
Benzo[b]fluoranthene	CRY	Ave	+++++ 321468	6805 642791	26174 1354953	83810	166072	+++++ 1200	20.0 2500	100 5000	300	600
Benzo[k]fluoranthene	CRY	Ave	+++++ 326002	6622 666657	27403 1386346	87946	171050	+++++ 1200	20.0 2500	100 5000	300	600
Benzo[a]pyrene	CRY	Ave	+++++ 315812	6097 638764	26453 1342138	83848	166190	+++++ 1200	20.0 2500	100 5000	300	600

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 344978

SDG No.: _____

Instrument ID: SMS_X4 GC Column: Rxi-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 11:07 Calibration End Date: 10/05/2016 14:12 Calibration ID: 27220

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	CRY	Ave	+++++ 304549	6081 603175	26227 1273081	79614	161303	+++++ 1200	20.0 2500	100 5000	300	600
Dibenz(a,h)anthracene	CRY	Ave	+++++ 296082	5142 615878	23791 1316455	81771	152172	+++++ 1200	20.0 2500	100 5000	300	600
Benzo[g,h,i]perylene	CRY	Ave	+++++ 324861	6868 653762	27511 1368799	86344	172672	+++++ 1200	20.0 2500	100 5000	300	600
Nitrobenzene-d5 (Surr)	ANT	Ave	832223 94970	2327 191578	8935 462576	24702	50946	10010 1201	20.0 2503	100 5005	300	601
2-Fluorobiphenyl (Surr)	ANT	Ave	1589383 181749	4841 366917	17865 780246	47451	96649	10000 1200	20.0 2500	100 5000	300	600
Terphenyl-d14 (Surr)	PHN	Lin2	1444609 165587	5021 345852	15497 766923	43053	83208	10010 1201	20.0 2503	100 5005	300	601

Curve Type Legend:

Ave = Average ISTD

Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7790.D
 Lims ID: STD0020
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 05-Oct-2016 11:07:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD0020
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:38 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 11:29:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.779	5.772	0.007	91	81185	600.0	600.0	
* 2 Phenanthrene-d10	188	7.039	7.034	0.005	100	147232	600.0	600.0	
* 3 Chrysene-d12	240	10.775	10.760	0.015	93	144746	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.751	3.748	0.003	95	2327	20.0	23.4	
\$ 5 2-Fluorobiphenyl	172	5.188	5.184	0.004	99	4841	20.0	25.4	
\$ 6 Terphenyl-d14	244	8.731	8.725	0.005	92	5021	20.0	20.3	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.767	1.772	-0.005	86	1215	20.0	25.5	
9 Naphthalene	128	4.339	4.336	0.003	99	4987	20.0	21.4	
10 2-Methylnaphthalene	142	4.898	4.891	0.007	100	6449	40.0	42.6	
11 1-Methylnaphthalene	142	4.984	4.980	0.004	100	3332	20.0	22.2	
12 Dimethyl phthalate	163		5.502				ND	ND	
13 Acenaphthylene	152	5.658	5.658	0.000	98	5359	20.0	22.0	
14 Acenaphthene	153	5.800	5.800	0.000	94	3261	20.0	22.0	
15 Dibenzofuran	168	5.949	5.942	0.007	97	4773	20.0	21.8	
16 Diethyl phthalate	149		6.080				ND	ND	
17 Fluorene	166	6.236	6.230	0.006	98	3891	20.0	22.1	
18 N-Nitrosodiphenylamine	169	6.317	6.311	0.006	98	2912	20.0	23.5	
19 Phenanthrene	178	7.061	7.056	0.005	96	5915	20.0	21.8	
20 Anthracene	178	7.104	7.099	0.005	97	6332	20.0	22.4	
21 Di-n-butyl phthalate	149		7.462				ND	ND	
22 Fluoranthene	202	8.258	8.248	0.010	99	7221	20.0	22.9	
23 Pyrene	202	8.568	8.557	0.011	98	7607	20.0	22.7	
24 Butyl benzyl phthalate	149		9.501				ND	ND	
25 Bis(2-ethylhexyl) phthalat	149		10.704				ND	ND	
26 Benzo[a]anthracene	228	10.744	10.728	0.016	44	7243	20.0	24.0	
27 Chrysene	228	10.839	10.815	0.024	91	6559	20.0	23.5	
28 Di-n-octyl phthalate	149		12.518				ND	ND	
29 Benzo[b]fluoranthene	252	13.680	13.658	0.022	85	6805	20.0	22.2	
30 Benzo[k]fluoranthene	252	13.758	13.740	0.018	83	6622	20.0	21.1	
31 Benzo[a]pyrene	252	14.697	14.675	0.023	74	6097	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.077	18.062	0.015	58	6081	20.0	20.9	M
33 Dibenzo(a,h)anthracene	278	18.137	18.118	0.019	46	5142	20.0	18.3	
34 Benzo[g,h,i]perylene	276	18.547	18.532	0.015	54	6868	20.0	21.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MS-SIMSL 0.02_00064

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7790.D

Injection Date: 05-Oct-2016 11:07:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD0020

Worklist Smp#: 2

Client ID:

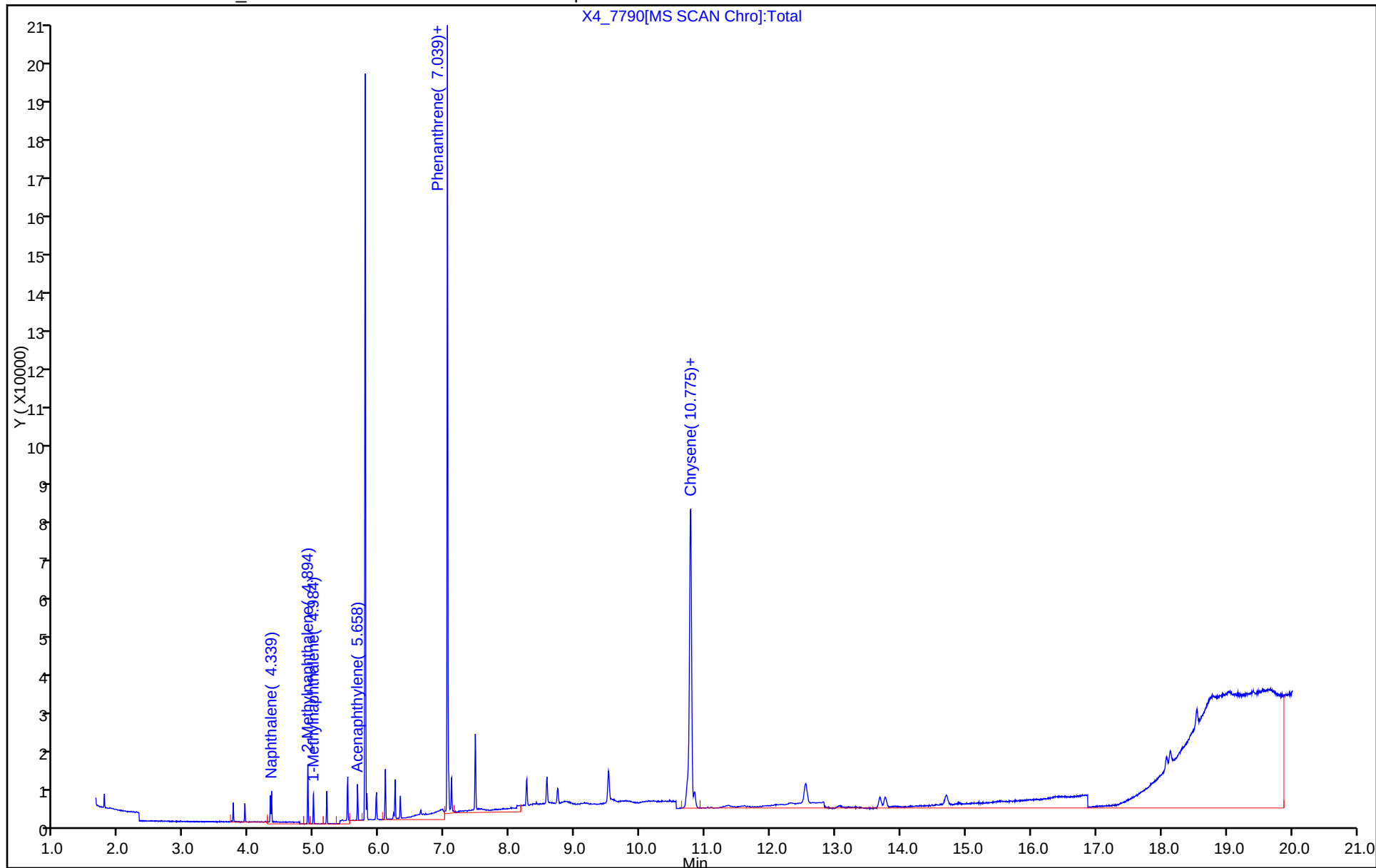
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7790.D

Injection Date: 05-Oct-2016 11:07:30

Instrument ID: SMS_X4

Lims ID: STD0020

Client ID:

Operator ID: vasquezk

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM

Column:

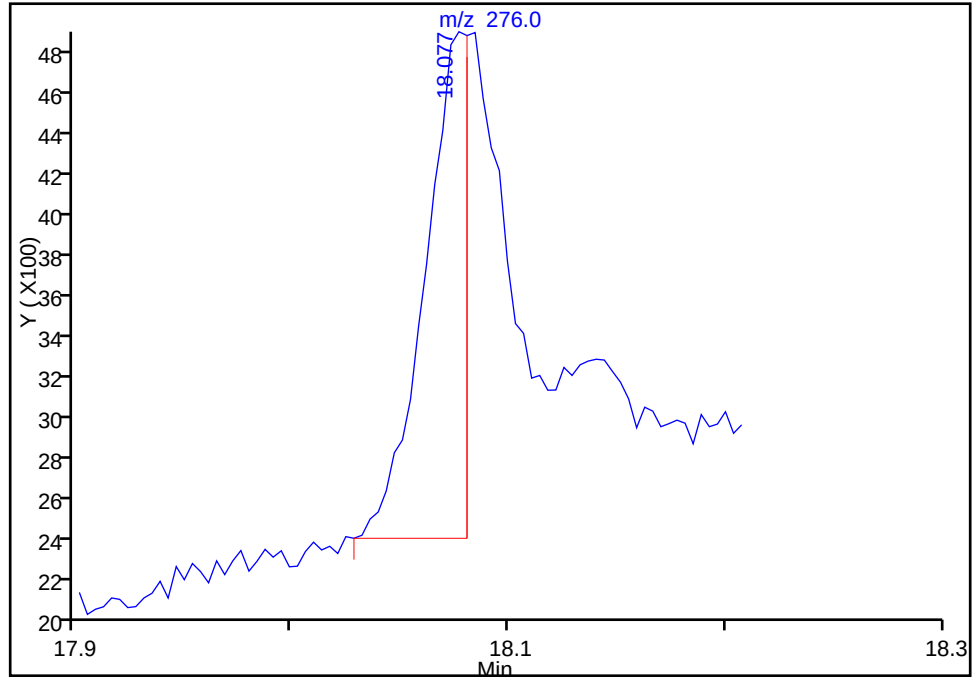
Detector MS SCAN

32 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

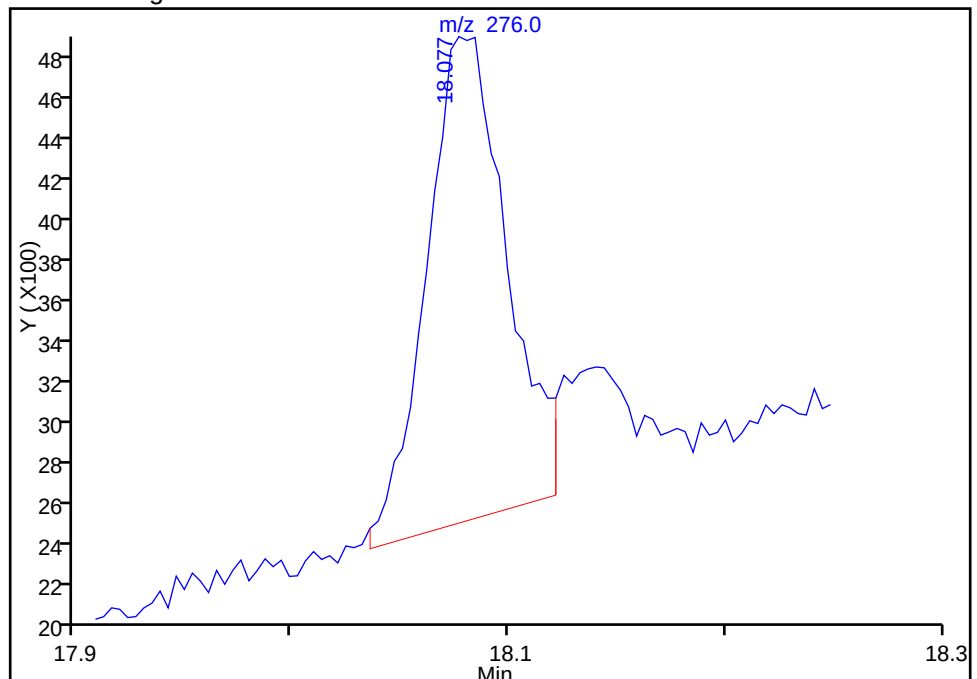
RT: 18.08
Area: 3458
Amount: 20.000000
Amount Units: ng/ml

Processing Integration Results



RT: 18.08
Area: 6081
Amount: 20.890980
Amount Units: ng/ml

Manual Integration Results



Reviewer: vasquezk, 05-Oct-2016 11:29:47

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7791.D
 Lims ID: STD0100
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 05-Oct-2016 11:34:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD0100
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:41 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 14:02:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	99	79245	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	133256	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	95	127682	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	98	8935	100.1	92.2	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	17865	100.0	96.1	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	98	15497	100.1	90.7	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.772	1.772	0.000	69	4479	100.0	96.2	
9 Naphthalene	128	4.336	4.336	0.000	100	21904	100.0	96.4	
10 2-Methylnaphthalene	142	4.894	4.891	0.003	100	28120	200.0	190.5	
11 1-Methylnaphthalene	142	4.980	4.980	0.000	100	14026	100.0	95.7	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	35590	200.2	197.2	
13 Acenaphthylene	152	5.658	5.658	0.000	100	22845	100.0	96.0	
14 Acenaphthene	153	5.800	5.800	0.000	99	13936	100.0	96.5	
15 Dibenzofuran	168	5.942	5.942	0.000	98	20471	100.1	95.7	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	36031	200.8	201.1	
17 Fluorene	166	6.230	6.230	0.000	99	16542	100.0	96.0	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	98	11338	99.9	101.2	
19 Phenanthrene	178	7.055	7.056	-0.001	100	23884	100.0	97.1	
20 Anthracene	178	7.099	7.099	0.000	100	24478	100.0	95.8	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	61953	200.3	197.3	
22 Fluoranthene	202	8.248	8.248	0.000	100	26851	100.0	94.1	
23 Pyrene	202	8.557	8.557	0.000	99	28061	100.0	92.3	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	100	28081	200.3	175.1	
25 Bis(2-ethylhexyl) phthalat	149	10.712	10.704	0.008	94	40149	200.3	176.4	
26 Benzo[a]anthracene	228	10.736	10.728	0.008	72	26469	100.0	99.3	
27 Chrysene	228	10.823	10.815	0.008	99	24618	100.0	99.8	
28 Di-n-octyl phthalate	149	12.526	12.518	0.008	100	68909	200.6	190.2	
29 Benzo[b]fluoranthene	252	13.661	13.658	0.003	97	26174	100.0	96.6	
30 Benzo[k]fluoranthene	252	13.743	13.740	0.003	97	27403	100.0	98.8	
31 Benzo[a]pyrene	252	14.682	14.675	0.008	95	26453	100.0	99.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.069	18.062	0.007	92	26227	100.0	102.1	M
33 Dibenzo(a,h)anthracene	278	18.125	18.118	0.007	79	23791	100.0	96.2	
34 Benzo[g,h,i]perylene	276	18.536	18.532	0.004	87	27511	100.0	99.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MS-SIMSL 0.1_00061

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7791.D

Injection Date: 05-Oct-2016 11:34:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD0100

Worklist Smp#: 3

Client ID:

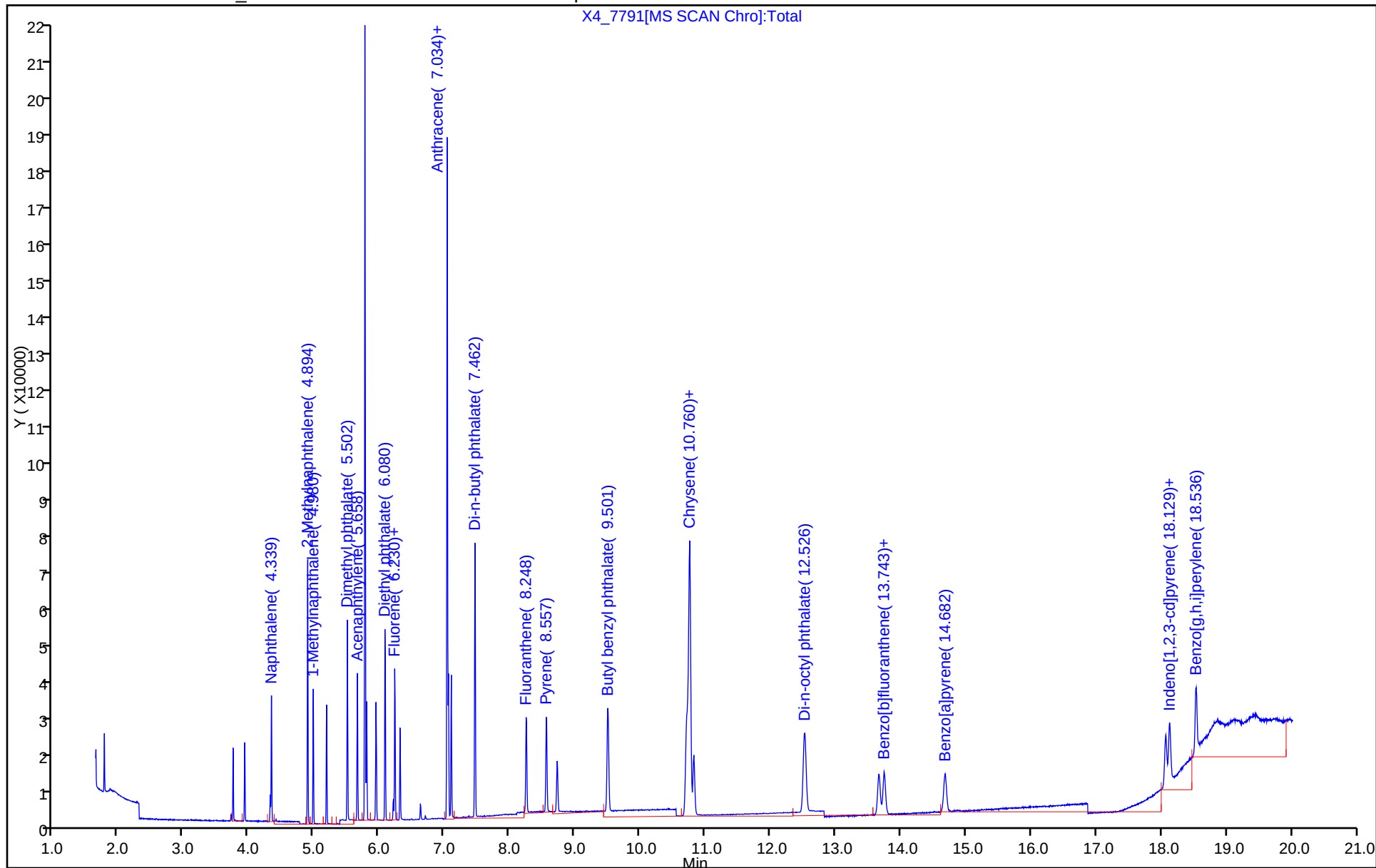
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7791.D

Injection Date: 05-Oct-2016 11:34:30

Instrument ID: SMS_X4

Lims ID: STD0100

Client ID:

Operator ID: vasquezk

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM

Column:

Detector MS SCAN

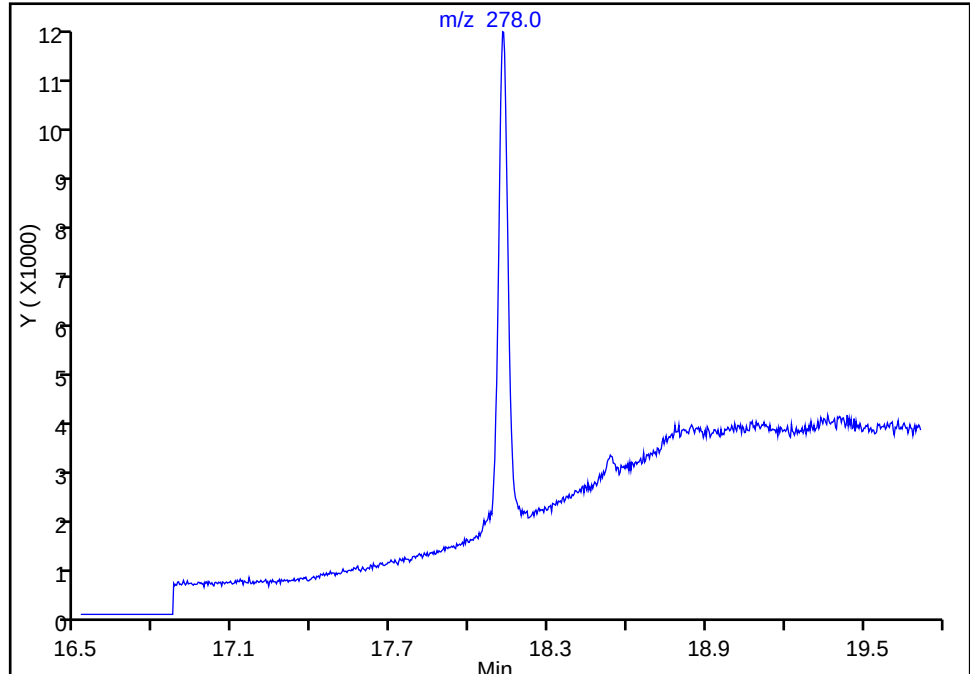
33 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

Not Detected

Expected RT: 18.12

Processing Integration Results



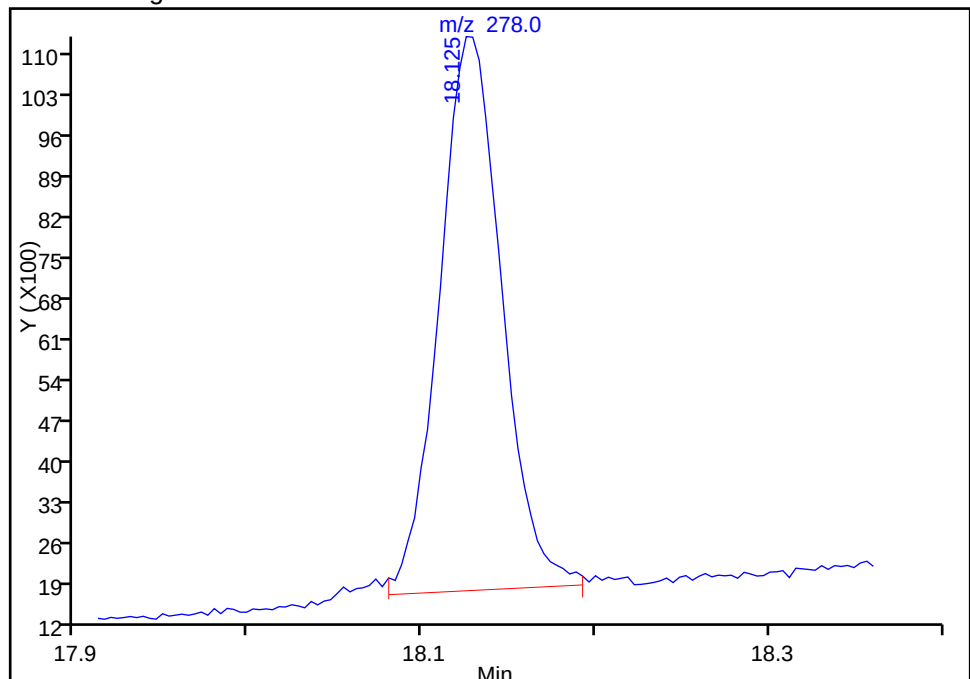
RT: 18.13

Area: 23791

Amount: 96.234603

Amount Units: ng/ml

Manual Integration Results



Reviewer: vasquezk, 05-Oct-2016 14:02:25

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Denver

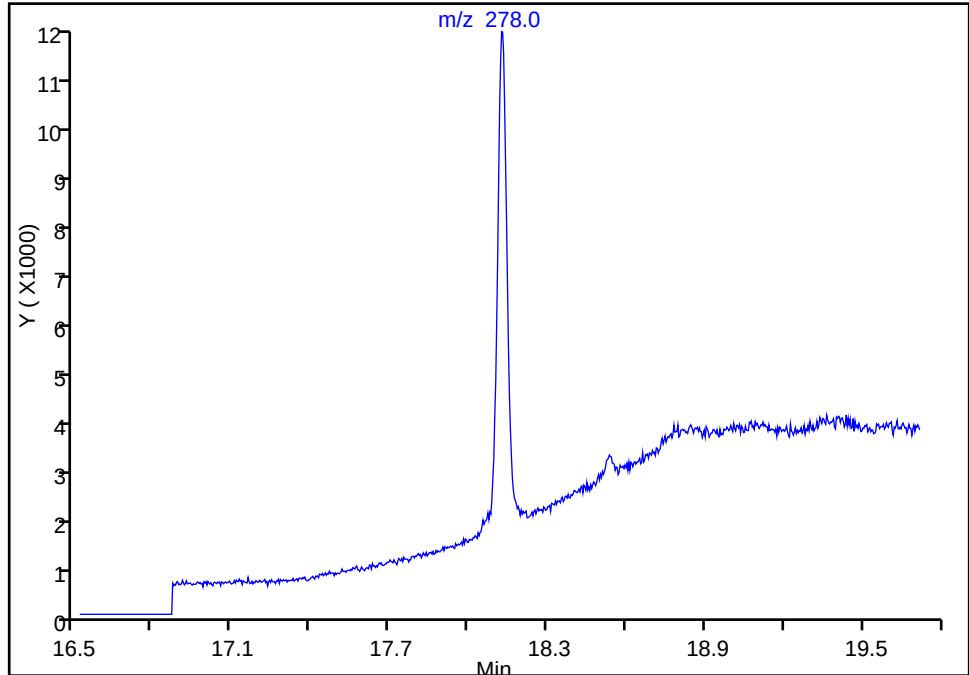
Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7791.D
Injection Date: 05-Oct-2016 11:34:30 Instrument ID: SMS_X4
Lims ID: STD0100
Client ID:
Operator ID: vasquezk ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: SMSX4_SIMX Limit Group: MSSV - 8270C-SIM
Column: Detector MS SCAN

33 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

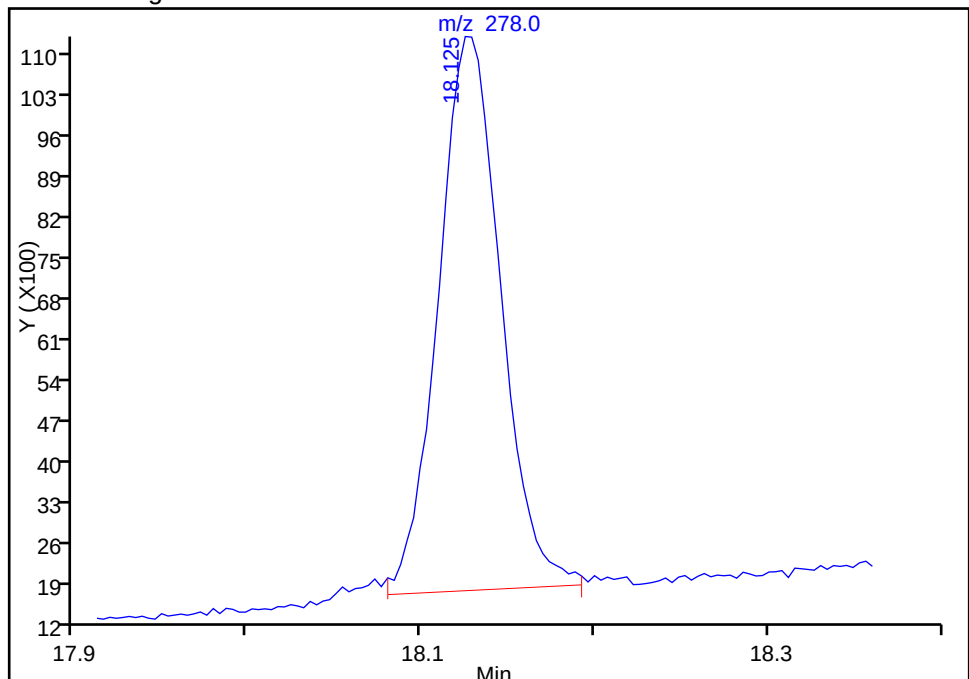
Not Detected
Expected RT: 18.12

Processing Integration Results



Manual Integration Results

RT: 18.13
Area: 23791
Amount: 96.234603
Amount Units: ng/ml



Reviewer: vasquezk, 05-Oct-2016 14:02:25

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7792.D
 Lims ID: STD0300
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 05-Oct-2016 12:00:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD0300
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:44 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 14:03:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	98	66715	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	113605	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	96	128169	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	99	24702	300.3	302.6	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	47451	300.0	303.2	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	100	43053	300.3	315.6	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.772	1.772	0.000	58	11885	300.0	303.2	
9 Naphthalene	128	4.336	4.336	0.000	100	60416	300.0	315.8	
10 2-Methylnaphthalene	142	4.895	4.891	0.004	99	78267	600.0	629.7	
11 1-Methylnaphthalene	142	4.980	4.980	0.000	98	38277	300.0	310.3	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	96042	600.6	632.3	
13 Acenaphthylene	152	5.658	5.658	0.000	100	62210	300.0	310.6	
14 Acenaphthene	153	5.800	5.800	0.000	100	37552	300.0	308.7	
15 Dibenzofuran	168	5.942	5.942	0.000	99	55878	300.3	310.1	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	95631	602.4	633.9	
17 Fluorene	166	6.230	6.230	0.000	100	44508	300.0	307.0	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	100	29979	299.6	313.8	
19 Phenanthrene	178	7.056	7.056	0.000	100	64713	300.0	308.5	
20 Anthracene	178	7.099	7.099	0.000	100	66382	300.0	304.8	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	170115	600.8	635.4	
22 Fluoranthene	202	8.248	8.248	0.000	100	75360	300.0	309.9	
23 Pyrene	202	8.557	8.557	0.000	100	79103	300.0	305.3	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	94	88792	600.8	649.4	
25 Bis(2-ethylhexyl) phthalat	149	10.704	10.704	0.000	90	130400	600.9	672.2	
26 Benzo[a]anthracene	228	10.736	10.728	0.008	95	80742	300.0	301.8	
27 Chrysene	228	10.823	10.815	0.008	100	74567	300.0	301.2	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	229024	601.7	629.7	
29 Benzo[b]fluoranthene	252	13.658	13.658	0.000	100	83810	300.0	308.2	
30 Benzo[k]fluoranthene	252	13.740	13.740	0.000	100	87946	300.0	315.9	
31 Benzo[a]pyrene	252	14.675	14.675	0.001	100	83848	300.0	314.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.066	18.062	0.004	98	79614	300.0	308.9	
33 Dibenzo(a,h)anthracene	278	18.125	18.118	0.007	97	81771	300.0	329.5	
34 Benzo[g,h,i]perylene	276	18.528	18.532	-0.004	98	86344	300.0	310.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMSL 0.3_00059

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7792.D

Injection Date: 05-Oct-2016 12:00:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD0300

Worklist Smp#: 4

Client ID:

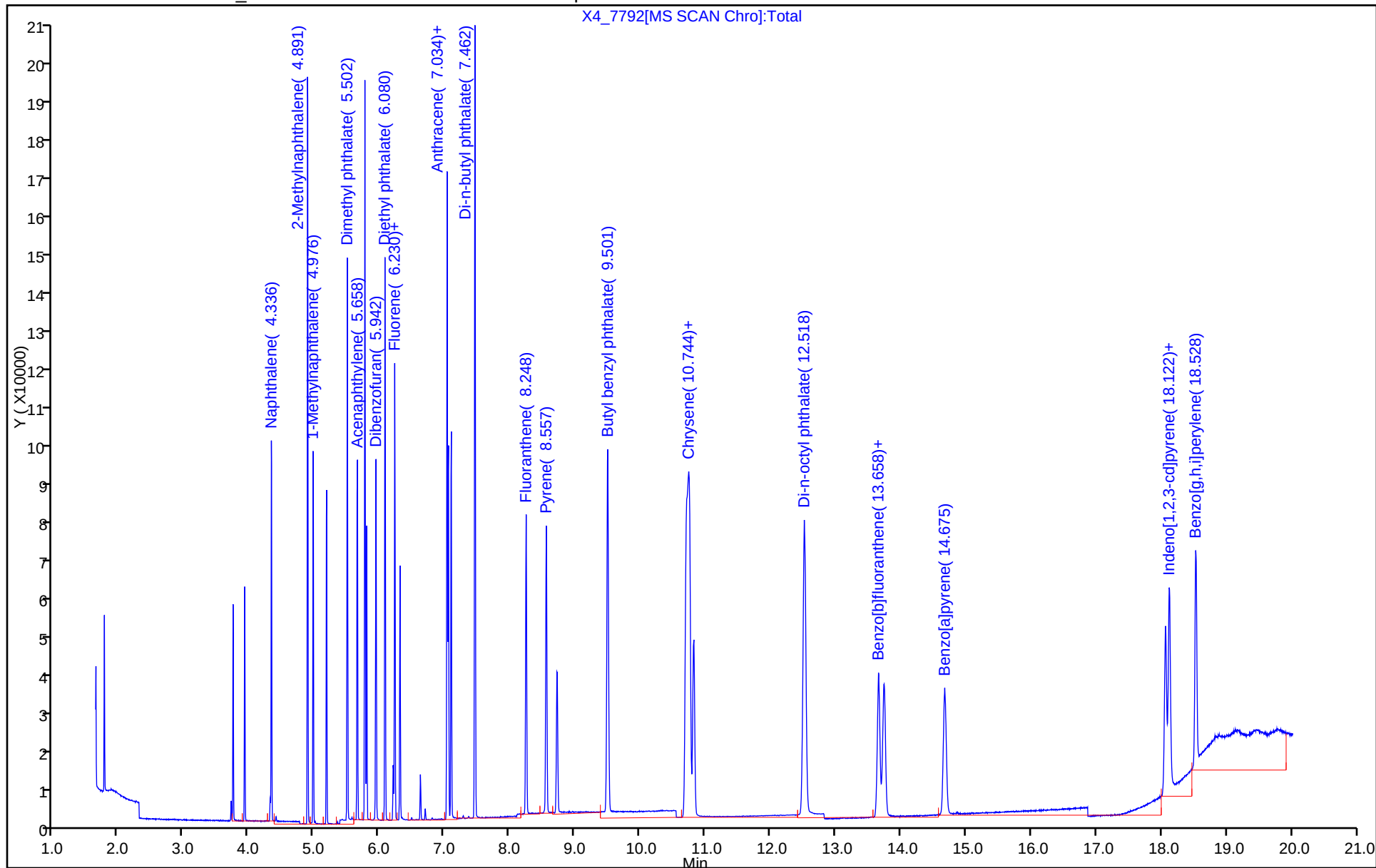
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7793.D
 Lims ID: ICIS STD0600
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 05-Oct-2016 12:27:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS STD0600
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:49 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk Date: 05-Oct-2016 14:03:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	99	71775	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	121144	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	97	133234	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	99	50946	600.6	580.1	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	96649	600.0	574.0	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	100	83208	600.6	579.3	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.772	1.772	0.000	54	24117	600.0	571.9	
9 Naphthalene	128	4.336	4.336	0.000	100	123257	600.0	598.8	
10 2-Methylnaphthalene	142	4.891	4.891	0.000	97	160142	1200.0	1197.7	
11 1-Methylnaphthalene	142	4.980	4.980	0.000	99	78663	600.0	592.7	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	193620	1201.2	1184.8	
13 Acenaphthylene	152	5.658	5.658	0.000	100	126620	600.0	587.5	
14 Acenaphthene	153	5.800	5.800	0.000	100	77002	600.0	588.4	
15 Dibenzofuran	168	5.942	5.942	0.000	99	114129	600.6	588.8	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	189632	1204.8	1168.4	
17 Fluorene	166	6.230	6.230	0.000	100	91263	600.0	585.1	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	100	60384	599.2	592.7	
19 Phenanthrene	178	7.056	7.056	0.000	100	131170	600.0	586.4	
20 Anthracene	178	7.099	7.099	0.000	100	134417	600.0	578.9	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	330826	1201.5	1158.7	
22 Fluoranthene	202	8.248	8.248	0.000	100	148937	600.0	574.3	
23 Pyrene	202	8.557	8.557	0.000	100	156664	600.0	566.9	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	95	172131	1201.5	1180.5	
25 Bis(2-ethylhexyl) phthalat	149	10.704	10.704	0.000	91	257021	1201.8	1242.5	
26 Benzo[a]anthracene	228	10.728	10.728	0.000	86	157090	600.0	564.8	
27 Chrysene	228	10.815	10.815	0.000	100	146460	600.0	569.1	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	457294	1203.3	1209.6	
29 Benzo[b]fluoranthene	252	13.658	13.658	0.000	100	166072	600.0	587.5	
30 Benzo[k]fluoranthene	252	13.740	13.740	0.000	100	171050	600.0	591.0	
31 Benzo[a]pyrene	252	14.675	14.675	0.000	100	166190	600.0	599.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.062	18.062	0.000	97	161303	600.0	602.0	
33 Dibenzo(a,h)anthracene	278	18.118	18.118	0.000	96	152172	600.0	589.9	
34 Benzo[g,h,i]perylene	276	18.532	18.532	0.000	99	172672	600.0	596.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMSL 0.6_00109

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7793.D

Injection Date: 05-Oct-2016 12:27:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: ICIS STD0600

Worklist Smp#: 5

Client ID:

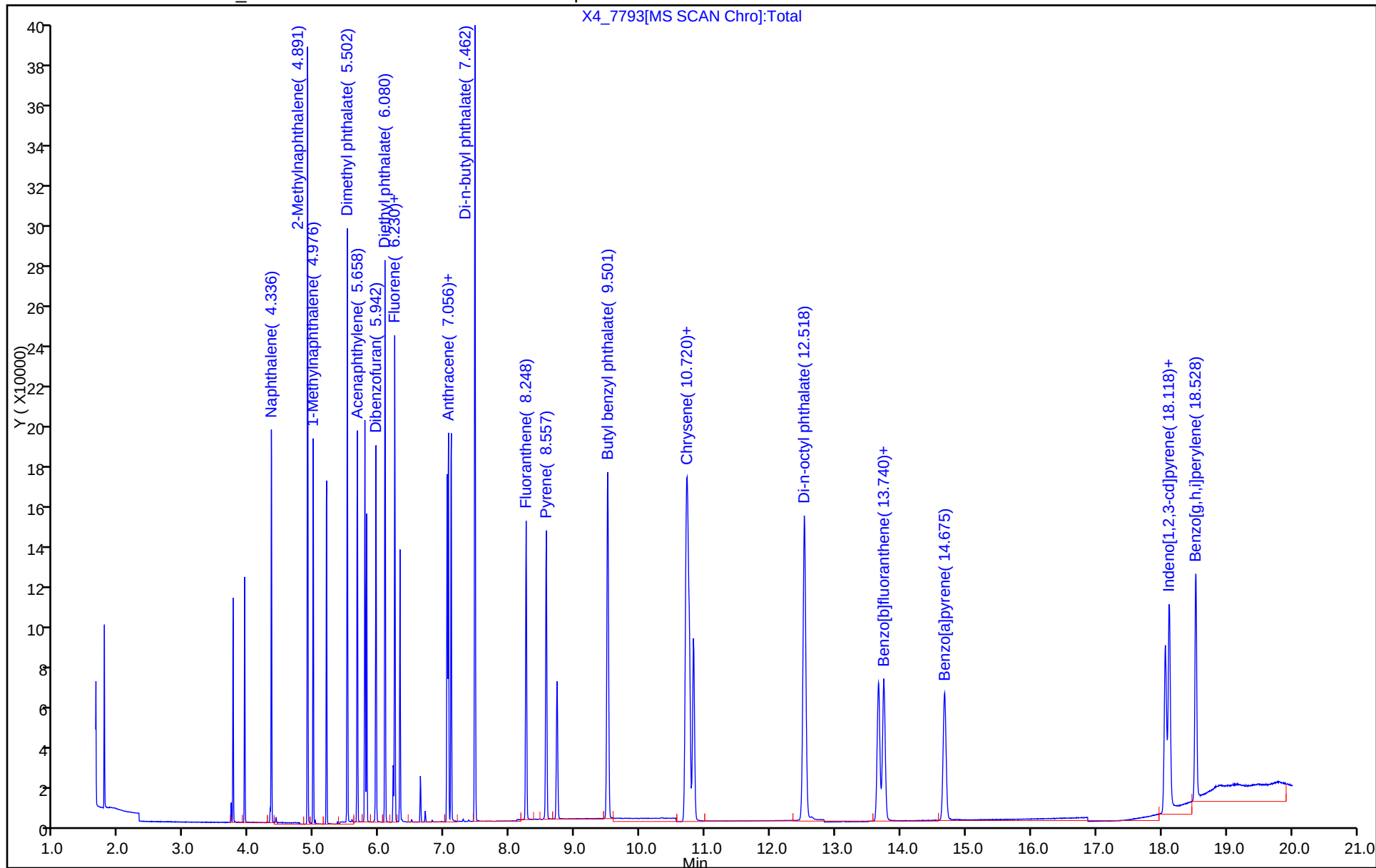
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7794.D
 Lims ID: STD1200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 05-Oct-2016 12:53:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD1200
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:52 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 14:04:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	99	66623	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	113539	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	95	125505	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	100	94970	1201.2	1165.1	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	181749	1200.0	1162.8	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	100	165587	1201.2	1239.9	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.767	1.772	-0.005	55	45266	1200.0	1156.4	
9 Naphthalene	128	4.336	4.336	0.000	100	228846	1200.0	1197.7	
10 2-Methylnaphthalene	142	4.891	4.891	0.000	100	298199	2400.0	2402.6	
11 1-Methylnaphthalene	142	4.980	4.980	0.000	99	147107	1200.0	1194.0	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	369089	2402.4	2433.1	
13 Acenaphthylene	152	5.658	5.658	0.000	100	240307	1200.0	1201.3	
14 Acenaphthene	153	5.800	5.800	0.000	100	144788	1200.0	1192.0	
15 Dibenzofuran	168	5.942	5.942	0.000	100	217318	1201.2	1207.9	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	367795	2409.6	2441.4	
17 Fluorene	166	6.230	6.230	0.000	100	173772	1200.0	1200.2	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	100	112770	1198.3	1181.1	
19 Phenanthrene	178	7.056	7.056	0.000	100	252965	1200.0	1206.7	
20 Anthracene	178	7.093	7.099	-0.006	100	262218	1200.0	1204.8	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	651143	2403.0	2433.4	
22 Fluoranthene	202	8.248	8.248	0.000	100	291185	1200.0	1198.0	
23 Pyrene	202	8.557	8.557	0.000	100	306233	1200.0	1182.5	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	100	336131	2403.0	2459.7	
25 Bis(2-ethylhexyl) phthalat	149	10.712	10.704	0.008	96	484463	2403.6	2498.8	
26 Benzo[a]anthracene	228	10.728	10.728	0.000	98	304533	1200.0	1162.4	
27 Chrysene	228	10.823	10.815	0.008	100	284721	1200.0	1174.5	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	862958	2406.6	2423.2	
29 Benzo[b]fluoranthene	252	13.661	13.658	0.003	100	321468	1200.0	1207.3	
30 Benzo[k]fluoranthene	252	13.743	13.740	0.003	100	326002	1200.0	1195.8	
31 Benzo[a]pyrene	252	14.674	14.675	0.000	100	315812	1200.0	1209.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.062	18.062	0.000	100	304549	1200.0	1206.7	
33 Dibenzo(a,h)anthracene	278	18.122	18.118	0.004	99	296082	1200.0	1218.4	
34 Benzo[g,h,i]perylene	276	18.532	18.532	0.000	99	324861	1200.0	1191.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMSL 1.2_00061

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7794.D

Injection Date: 05-Oct-2016 12:53:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD1200

Worklist Smp#: 6

Client ID:

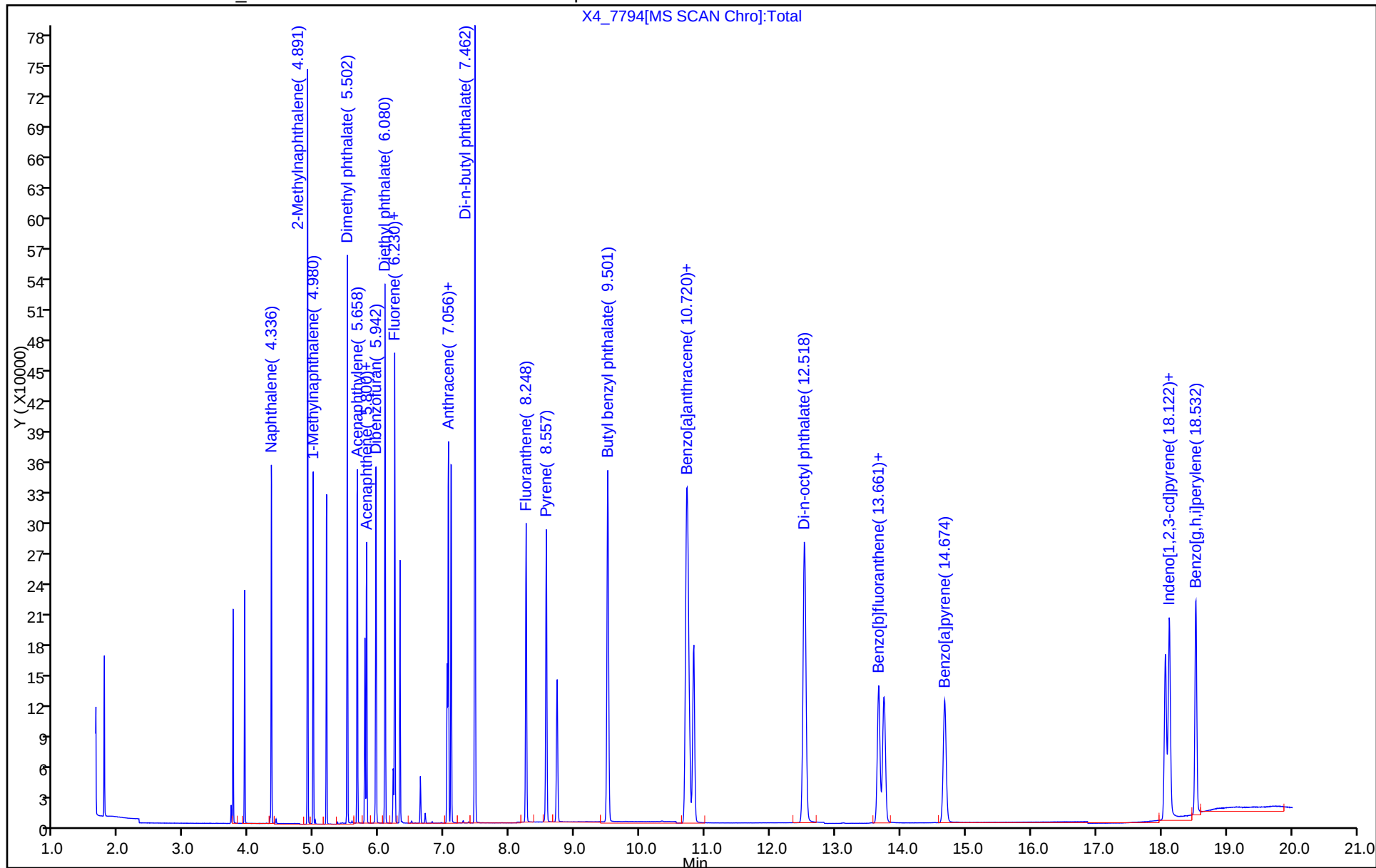
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7795.D
 Lims ID: STD2500
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 05-Oct-2016 13:20:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD2500
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:56 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 14:04:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	100	69408	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	120572	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	88	131623	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	100	191578	2502.5	2256.0	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	366917	2500.0	2253.3	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	100	345852	2502.5	2447.2	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.767	1.772	-0.005	55	90178	2500.0	2211.2	
9 Naphthalene	128	4.336	4.336	0.000	100	458526	2500.0	2303.6	
10 2-Methylnaphthalene	142	4.895	4.891	0.004	96	602688	5000.0	4661.1	
11 1-Methylnaphthalene	142	4.980	4.980	0.000	100	296189	2500.0	2307.6	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	755870	5005.0	4782.9	
13 Acenaphthylene	152	5.658	5.658	0.000	100	485961	2500.0	2331.8	
14 Acenaphthene	153	5.800	5.800	0.000	100	296932	2500.0	2346.5	
15 Dibenzofuran	168	5.942	5.942	0.000	100	441853	2502.5	2357.3	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	766511	5020.0	4883.8	
17 Fluorene	166	6.230	6.230	0.000	100	358081	2500.0	2373.8	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	100	228236	2496.5	2251.1	
19 Phenanthrene	178	7.050	7.056	-0.006	100	521856	2500.0	2344.2	
20 Anthracene	178	7.099	7.099	0.000	100	542152	2500.0	2345.8	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	1381654	5006.3	4862.1	
22 Fluoranthene	202	8.248	8.248	0.000	100	611904	2500.0	2370.8	
23 Pyrene	202	8.557	8.557	0.000	100	641698	2500.0	2333.2	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	100	702761	5006.3	4842.7	
25 Bis(2-ethylhexyl) phthalat	149	10.712	10.704	0.008	96	997926	5007.5	4846.9	
26 Benzo[a]anthracene	228	10.736	10.728	0.008	88	639174	2500.0	2326.2	
27 Chrysene	228	10.815	10.815	0.000	100	591569	2500.0	2326.8	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	1776955	5013.8	4757.8	
29 Benzo[b]fluoranthene	252	13.658	13.658	0.000	100	642791	2500.0	2301.8	
30 Benzo[k]fluoranthene	252	13.740	13.740	0.000	100	666657	2500.0	2331.6	
31 Benzo[a]pyrene	252	14.671	14.675	-0.003	100	638764	2500.0	2332.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.062	18.062	0.000	100	603175	2500.0	2278.8	
33 Dibenzo(a,h)anthracene	278	18.122	18.118	0.004	99	615878	2500.0	2416.6	
34 Benzo[g,h,i]perylene	276	18.528	18.532	-0.004	99	653762	2500.0	2286.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMSL 2.5_00060

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7795.D

Injection Date: 05-Oct-2016 13:20:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD2500

Worklist Smp#: 7

Client ID:

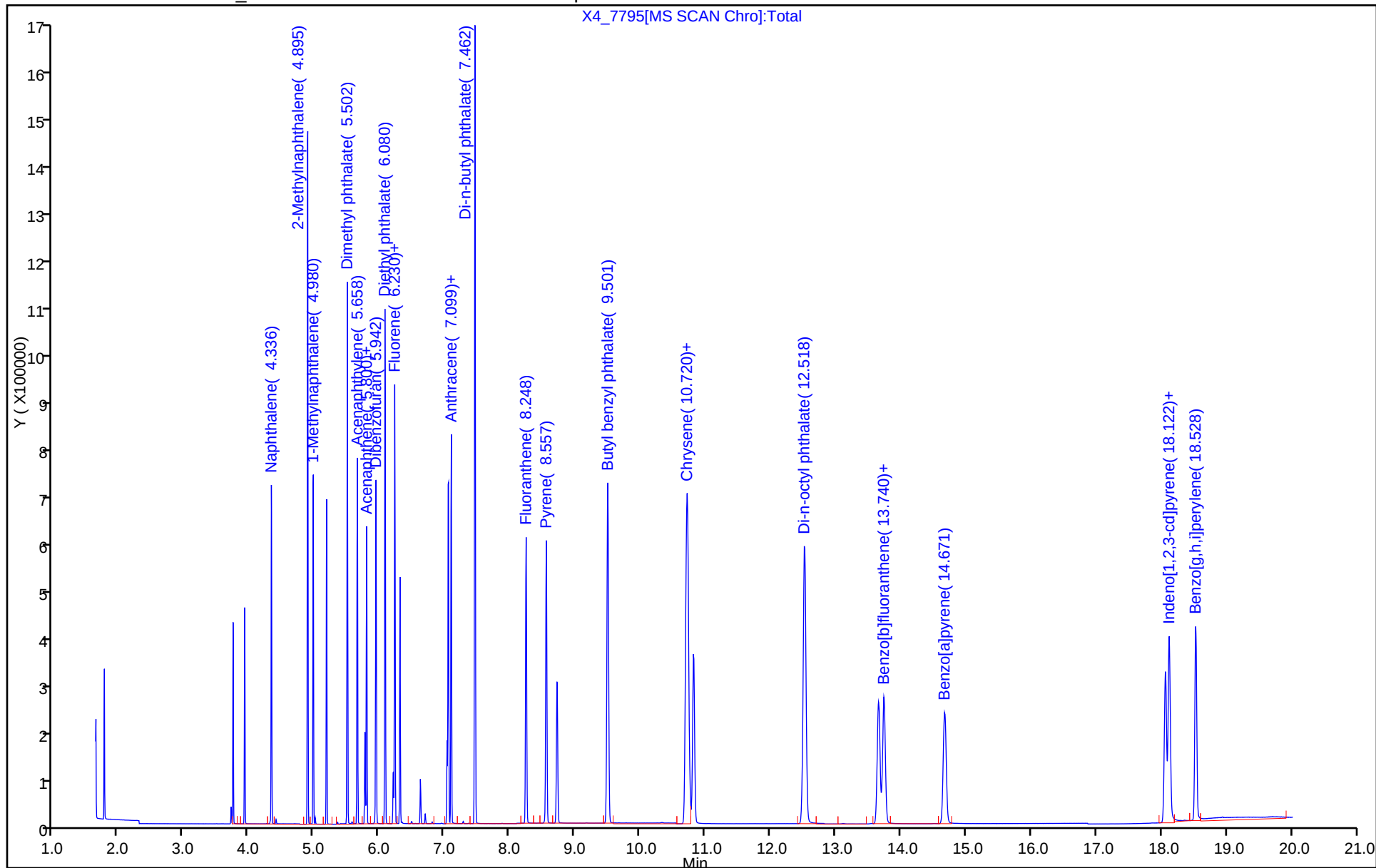
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7796.D
 Lims ID: STD5000
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 05-Oct-2016 13:46:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD5000
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:36:00 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 14:57:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	100	69177	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	116366	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	72	128677	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	100	462576	5005.0	5465.4	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	780246	5000.0	4807.7	
\$ 6 Terphenyl-d14	244	8.720	8.725	-0.005	99	766923	5005.0	5634.3	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.767	1.772	-0.005	55	193596	5000.0	4763.0	
9 Naphthalene	128	4.336	4.336	0.000	100	987071	5000.0	4975.4	
10 2-Methylnaphthalene	142	4.891	4.891	0.000	100	1289494	10000	10006	
11 1-Methylnaphthalene	142	4.980	4.980	0.000	100	635252	5000.0	4965.8	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	1573944	10010	9992.7	
13 Acenaphthylene	152	5.658	5.658	0.000	100	1030779	5000.0	4962.5	
14 Acenaphthene	153	5.800	5.800	0.000	100	625593	5000.0	4960.2	
15 Dibenzofuran	168	5.942	5.942	0.000	100	931521	5005.0	4986.3	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	1544004	10040	9870.5	
17 Fluorene	166	6.230	6.230	0.000	100	743333	5000.0	4944.3	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	100	432390	4993.0	4418.7	
19 Phenanthrene	178	7.056	7.056	0.000	100	1065964	5000.0	4961.4	
20 Anthracene	178	7.099	7.099	0.000	100	1111543	5000.0	4983.3	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	2705294	10013	9864.2	
22 Fluoranthene	202	8.248	8.248	0.000	100	1216059	5000.0	4881.8	
23 Pyrene	202	8.557	8.557	0.000	100	1410937	5000.0	5315.7	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	99	1608009	10013	11481	
25 Bis(2-ethylhexyl) phthalat	149	10.704	10.704	0.000	100	2049990	10015	10317	
26 Benzo[a]anthracene	228	10.728	10.728	0.000	97	1292078	5000.0	4810.1	
27 Chrysene	228	10.815	10.815	0.000	100	1201464	5000.0	4834.0	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	3765541	10028	10313	
29 Benzo[b]fluoranthene	252	13.654	13.658	-0.004	100	1354953	5000.0	4963.0	
30 Benzo[k]fluoranthene	252	13.743	13.740	0.003	100	1386346	5000.0	4959.7	
31 Benzo[a]pyrene	252	14.674	14.675	0.000	100	1342138	5000.0	5014.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.062	18.062	0.000	99	1273081	5000.0	4919.8	
33 Dibenzo(a,h)anthracene	278	18.122	18.118	0.004	98	1316455	5000.0	5283.9	
34 Benzo[g,h,i]perylene	276	18.528	18.532	-0.004	98	1368799	5000.0	4897.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMSL 5_00061

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7796.D

Injection Date: 05-Oct-2016 13:46:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD5000

Worklist Smp#: 8

Client ID:

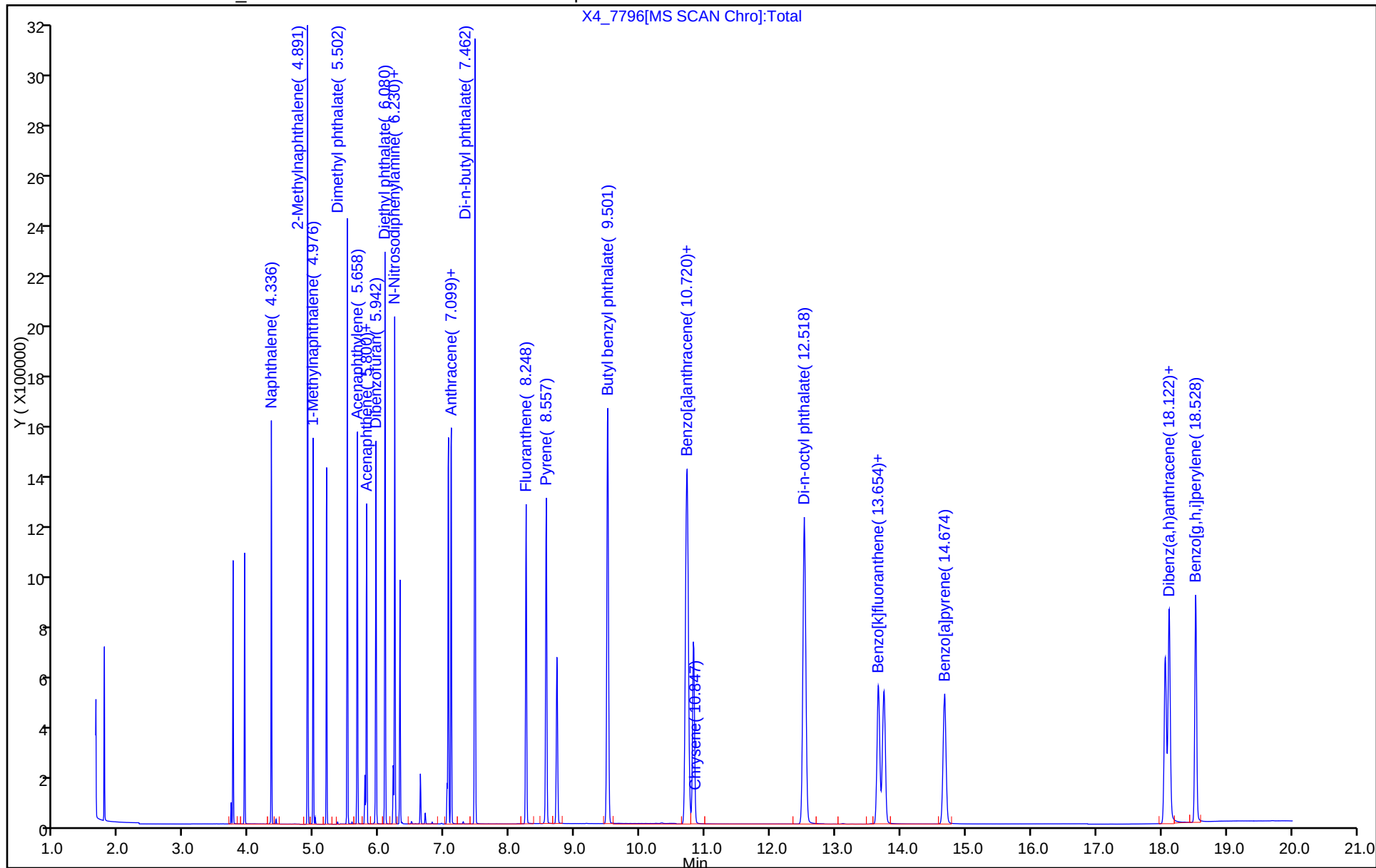
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Lims ID: STD10000
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 05-Oct-2016 14:12:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD10000
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:36:03 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 15:12:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	99	69907	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	133235	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.760	0.000	29	133928	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.748	3.748	0.000	99	832223	10010	9730.2	
\$ 5 2-Fluorobiphenyl	172	5.184	5.184	0.000	100	1589383	10000	9691.1	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	100	1444609	10010	9275.1	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42		1.772				ND	ND	
9 Naphthalene	128		4.336				ND	ND	
10 2-Methylnaphthalene	142		4.891				ND	ND	
11 1-Methylnaphthalene	142		4.980				ND	ND	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	3215452	20020	20201	
13 Acenaphthylene	152		5.658				ND	ND	
14 Acenaphthene	153		5.800				ND	ND	
15 Dibenzofuran	168		5.942				ND	ND	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	3197656	20080	20228	
17 Fluorene	166		6.230				ND	ND	
18 N-Nitrosodiphenylamine	169		6.311				ND	ND	
19 Phenanthrene	178		7.056				ND	ND	
20 Anthracene	178		7.099				ND	ND	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	6438154	20025	20503	
22 Fluoranthene	202		8.248				ND	ND	
23 Pyrene	202		8.557				ND	ND	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	100	2968786	20025	18513	
25 Bis(2-ethylhexyl) phthalat	149	10.704	10.704	0.000	100	4233498	20030	18608	
26 Benzo[a]anthracene	228		10.728				ND	ND	
27 Chrysene	228		10.815				ND	ND	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	7738117	20055	20362	
29 Benzo[b]fluoranthene	252		13.658				ND	ND	
30 Benzo[k]fluoranthene	252		13.740				ND	ND	
31 Benzo[a]pyrene	252		14.675				ND	ND	

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276		18.062				ND	ND	
33 Dibenzo(a,h)anthracene	278		18.118				ND	ND	
34 Benzo[g,h,i]perylene	276		18.532				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMX 10_00053

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Injection Date: 05-Oct-2016 14:12:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: STD10000

Worklist Smp#: 9

Client ID:

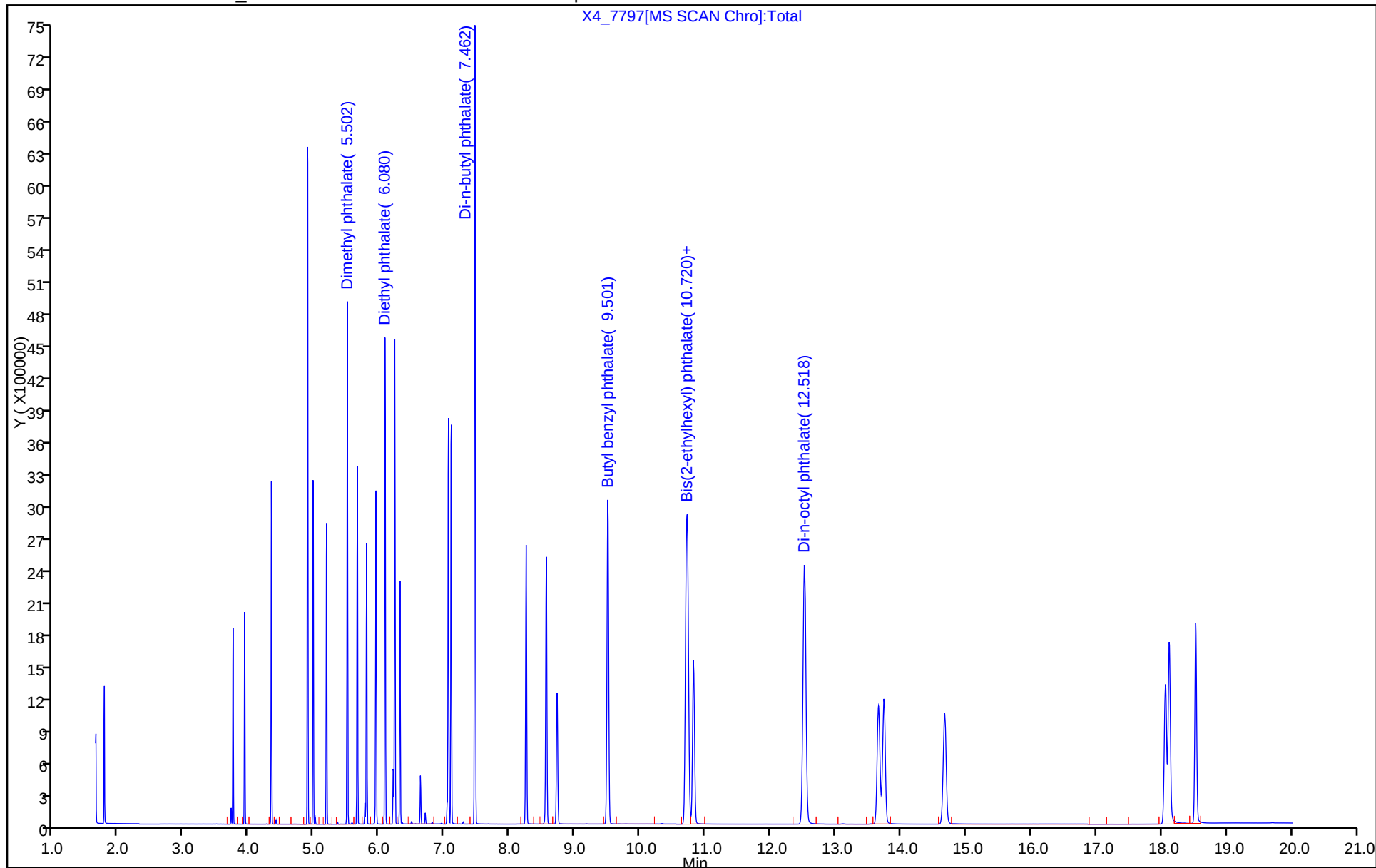
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-344978/10 Calibration Date: 10/05/2016 14:39
 Instrument ID: SMS_X4 Calib Start Date: 10/05/2016 11:07
 GC Column: Rxi-5Sil MS ID: 0.25 (mm) Calib End Date: 10/05/2016 14:12
 Lab File ID: X4_7798.D Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.721	1.845	0.7000	1290000	1200000	7.2	20.0
2-Methylnaphthalene	Ave	1.118	1.199	0.4000	1290000	1200000	7.2	20.0
1-Methylnaphthalene	Ave	1.110	1.133	0.0500	1230000	1200000	2.1	20.0
Acenaphthylene	Ave	1.802	1.929	0.9000	1290000	1200000	7.1	20.0
Acenaphthene	Ave	1.094	1.180	0.9000	1290000	1200000	7.9	20.0
Fluorene	Ave	1.304	1.365	0.9000	1260000	1200000	4.7	20.0
Phenanthrene	Ave	1.108	1.172	0.7000	1270000	1200000	5.8	20.0
Anthracene	Ave	1.150	1.190	0.7000	1240000	1200000	3.5	20.0
Fluoranthene	Ave	1.284	1.310	0.6000	1220000	1200000	2.0	20.0
Pyrene	Ave	1.369	1.582	0.6000	1390000	1200000	15.6	20.0
Benzo[a]anthracene	Ave	1.253	1.304	0.8000	1250000	1200000	4.1	20.0
Chrysene	Ave	1.159	1.246	0.7000	1290000	1200000	7.6	20.0
Benzo[b]fluoranthene	Ave	1.273	1.103	0.7000	1040000	1200000	-13.4	20.0
Benzo[k]fluoranthene	Ave	1.303	1.125	0.7000	1040000	1200000	-13.7	20.0
Benzo[a]pyrene	Ave	1.248	1.065	0.7000	1020000	1200000	-14.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.207	1.036	0.5000	1030000	1200000	-14.2	20.0
Dibenz(a,h)anthracene	Ave	1.162	1.091	0.4000	1130000	1200000	-6.1	20.0
Benzo[g,h,i]perylene	Ave	1.303	1.192	0.5000	1100000	1200000	-8.5	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7798.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 05-Oct-2016 14:39:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: vasquezk Instrument ID: SMS_X4
 Sublist:
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:36:03 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 15:13:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	97	66787	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	112902	600.0	600.0	
* 3 Chrysene-d12	240	10.752	10.760	-0.008	85	149392	600.0	600.0	
7 1,4-Dioxane	88		1.762				ND	ND	
8 N-Nitrosodimethylamine	42	1.767	1.772	-0.005	57	40956	1200.0	1043.7	
9 Naphthalene	128	4.336	4.336	0.000	100	246380	1200.0	1286.3	
10 2-Methylnaphthalene	142	4.891	4.891	0.000	100	160118	1200.0	1286.9	
11 1-Methylnaphthalene	142	4.976	4.980	-0.004	95	151327	1200.0	1225.3	
12 Dimethyl phthalate	163	5.502	5.502	0.000	100	183209	1200.0	1204.8	
13 Acenaphthylene	152	5.651	5.658	-0.007	98	257690	1200.0	1285.0	
14 Acenaphthene	153	5.800	5.800	0.000	100	157659	1200.0	1294.8	
15 Dibenzofuran	168	5.942	5.942	0.000	98	230100	1200.0	1275.8	
16 Diethyl phthalate	149	6.080	6.080	0.000	100	179671	1200.0	1189.7	
17 Fluorene	166	6.230	6.230	0.000	99	182369	1200.0	1256.4	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	100	132551	1200.0	1396.1	
19 Phenanthrene	178	7.050	7.056	-0.006	100	264570	1200.0	1269.2	
20 Anthracene	178	7.094	7.099	-0.005	100	268772	1200.0	1241.9	
21 Di-n-butyl phthalate	149	7.462	7.462	0.000	100	308287	1200.0	1158.6	
22 Fluoranthene	202	8.248	8.248	0.000	100	295851	1200.0	1224.1	
23 Pyrene	202	8.557	8.557	0.000	100	357178	1200.0	1386.9	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	100	179460	1200.0	1320.7	
25 Bis(2-ethylhexyl) phthalat	149	10.704	10.704	0.000	94	269401	1200.0	1397.4	
26 Benzo[a]anthracene	228	10.728	10.728	0.000	85	389627	1200.0	1249.4	
27 Chrysene	228	10.815	10.815	0.000	100	372422	1200.0	1290.6	
28 Di-n-octyl phthalate	149	12.518	12.518	0.000	100	410858	1200.0	969.2	
29 Benzo[b]fluoranthene	252	13.650	13.658	-0.008	100	329457	1200.0	1039.4	
30 Benzo[k]fluoranthene	252	13.732	13.740	-0.008	100	336248	1200.0	1036.1	
31 Benzo[a]pyrene	252	14.671	14.675	-0.003	100	318078	1200.0	1023.5	
32 Indeno[1,2,3-cd]pyrene	276	18.058	18.062	-0.004	100	309461	1200.0	1030.1	
33 Dibenz(a,h)anthracene	278	18.118	18.118	0.000	99	325895	1200.0	1126.7	
34 Benzo[g,h,i]perylene	276	18.525	18.532	-0.007	99	356198	1200.0	1097.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
36 Pentachlorophenol	266		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIM SSV_00114

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7798.D

Injection Date: 05-Oct-2016 14:39:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: ICV

Worklist Smp#: 10

Client ID:

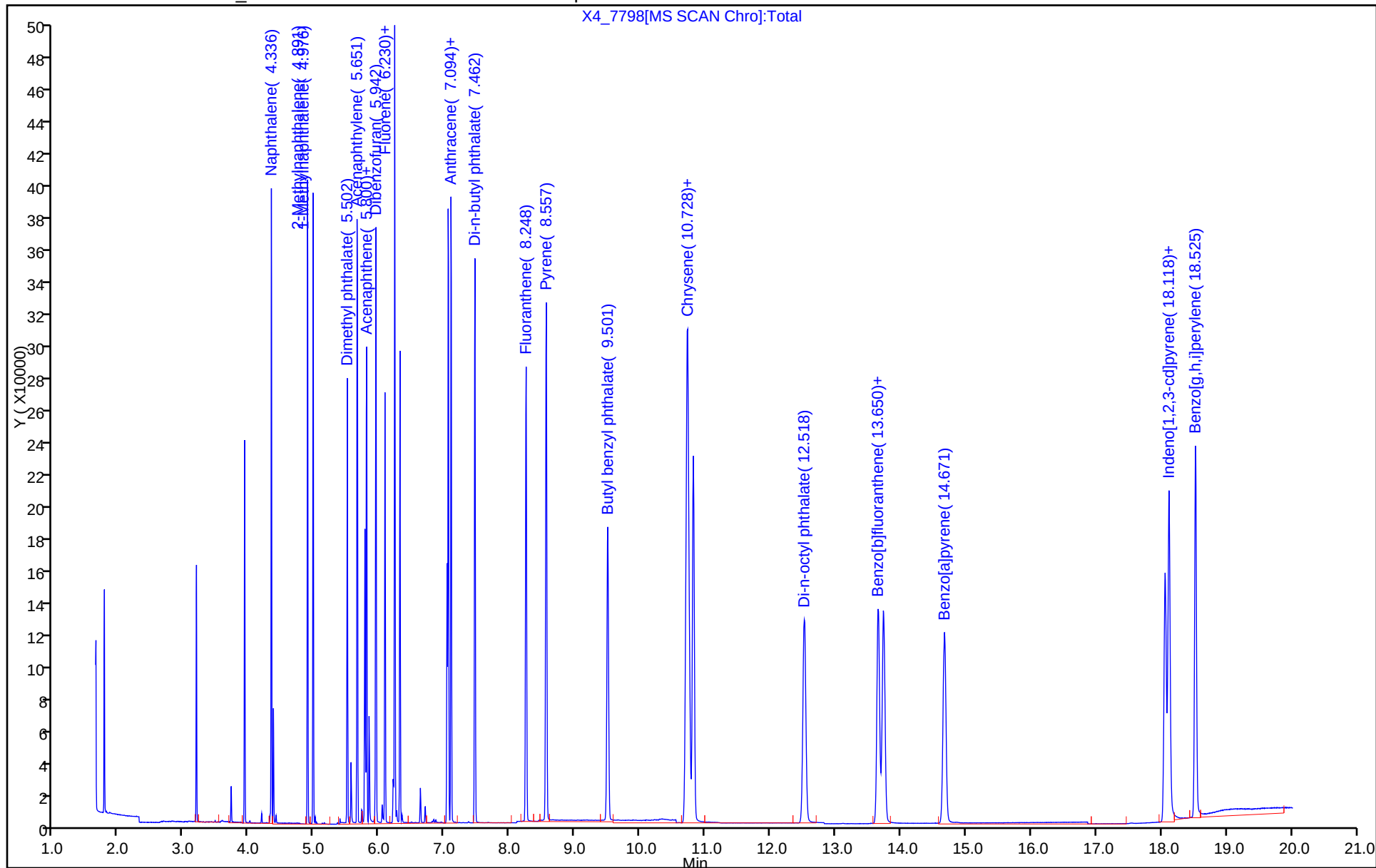
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-352243/2 Calibration Date: 11/19/2016 07:21
 Instrument ID: SMS_X4 Calib Start Date: 10/05/2016 11:07
 GC Column: Rxi-5Sil MS ID: 0.25 (mm) Calib End Date: 10/05/2016 14:12
 Lab File ID: X4_8551.D Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.721	1.583	0.7000	552000	600000	-8.0	20.0
2-Methylnaphthalene	Ave	1.118	1.042	0.4000	1120000	1200000	-6.7	20.0
1-Methylnaphthalene	Ave	1.110	1.029	0.0500	556000	600000	-7.3	20.0
Acenaphthylene	Ave	1.802	1.701	0.9000	566000	600000	-5.6	20.0
Acenaphthene	Ave	1.094	1.047	0.9000	574000	600000	-4.3	20.0
Fluorene	Ave	1.304	1.289	0.9000	593000	600000	-1.1	20.0
Phenanthrene	Ave	1.108	1.037	0.7000	561000	600000	-6.4	20.0
Anthracene	Ave	1.150	1.071	0.7000	559000	600000	-6.8	20.0
Fluoranthene	Ave	1.284	1.215	0.6000	568000	600000	-5.4	20.0
Pyrene	Ave	1.369	1.264	0.6000	554000	600000	-7.6	20.0
Benzo[a]anthracene	Ave	1.253	1.125	0.8000	539000	600000	-10.2	20.0
Chrysene	Ave	1.159	1.027	0.7000	532000	600000	-11.4	20.0
Benzo[b]fluoranthene	Ave	1.273	1.161	0.7000	547000	600000	-8.8	20.0
Benzo[k]fluoranthene	Ave	1.303	1.154	0.7000	531000	600000	-11.5	20.0
Benzo[a]pyrene	Ave	1.248	1.136	0.7000	546000	600000	-9.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.207	1.150	0.5000	572000	600000	-4.7	20.0
Dibenz(a,h)anthracene	Ave	1.162	1.129	0.4000	583000	600000	-2.8	20.0
Benzo[g,h,i]perylene	Ave	1.303	1.194	0.5000	550000	600000	-8.4	20.0
Nitrobenzene-d5 (Surr)	Ave	0.7341	0.6068		496000	601000	-17.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.408	1.299		554000	600000	-7.7	20.0
Terphenyl-d14 (Surr)	Lin2		0.6954		587000	601000	-2.2	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8551.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Nov-2016 07:21:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 19-Nov-2016 11:20:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.772	5.772	0.000	91	90951	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	173335	600.0	600.0	
* 3 Chrysene-d12	240	10.768	10.768	0.000	94	183758	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.742	3.742	0.000	99	55243	600.6	496.4	
\$ 5 2-Fluorobiphenyl	172	5.177	5.177	0.000	99	118130	600.0	553.6	
\$ 6 Terphenyl-d14	244	8.725	8.725	0.000	100	120655	600.6	587.2	
8 N-Nitrosodimethylamine	42	1.756	1.756	0.000	59	24072	600.0	450.5	
7 1,4-Dioxane	88		1.762				ND	ND	
9 Naphthalene	128	4.330	4.330	0.000	100	143982	600.0	552.0	
10 2-Methylnaphthalene	142	4.887	4.887	0.000	100	189614	1200.0	1119.1	
11 1-Methylnaphthalene	142	4.973	4.973	0.000	96	93565	600.0	556.3	
12 Dimethyl phthalate	163	5.495	5.495	0.000	100	255753	1201.2	1235.0	
13 Acenaphthylene	152	5.651	5.651	0.000	99	154699	600.0	566.5	
14 Acenaphthene	153	5.793	5.793	0.000	97	95226	600.0	574.3	
15 Dibenzofuran	168	5.942	5.942	0.000	96	144957	600.6	590.2	
16 Diethyl phthalate	149	6.074	6.074	0.000	99	267078	1204.8	1298.6	
17 Fluorene	166	6.230	6.230	0.000	97	117245	600.0	593.2	
18 N-Nitrosodiphenylamine	169	6.311	6.311	0.000	99	81249	599.2	557.4	
19 Phenanthrene	178	7.056	7.056	0.000	100	179670	600.0	561.4	
20 Anthracene	178	7.099	7.099	0.000	100	185698	600.0	558.9	
21 Di-n-butyl phthalate	149	7.457	7.457	0.000	100	494066	1201.5	1209.4	
22 Fluoranthene	202	8.253	8.253	0.000	100	210647	600.0	567.7	
23 Pyrene	202	8.562	8.562	0.000	100	219102	600.0	554.2	
24 Butyl benzyl phthalate	149	9.501	9.501	0.000	97	233514	1201.5	1119.3	
25 Bis(2-ethylhexyl) phthalat	149	10.696	10.696	0.000	97	342525	1201.8	1157.2	
26 Benzo[a]anthracene	228	10.744	10.744	0.000	79	206693	600.0	538.8	
27 Chrysene	228	10.831	10.831	0.000	100	188731	600.0	531.7	
28 Di-n-octyl phthalate	149	12.510	12.510	0.000	100	590905	1203.3	1133.3	
29 Benzo[b]fluoranthene	252	13.695	13.695	0.000	100	213268	600.0	547.0	
30 Benzo[k]fluoranthene	252	13.773	13.773	0.000	100	211989	600.0	531.1	
31 Benzo[a]pyrene	252	14.708	14.708	0.000	100	208666	600.0	545.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.096	18.096	0.000	98	211351	600.0	571.9	
33 Dibenzo(a,h)anthracene	278	18.148	18.148	0.000	98	207462	600.0	583.1	M
34 Benzo[g,h,i]perylene	276	18.554	18.554	0.000	98	219463	600.0	549.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MS-SIMSL 0.6_00110

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\\Denver\\ChromData\\SMS_X4\\20161119-53341.b\\X4_8551.D

Injection Date: 19-Nov-2016 07:21:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: CCV

Worklist Smp#: 2

Client ID:

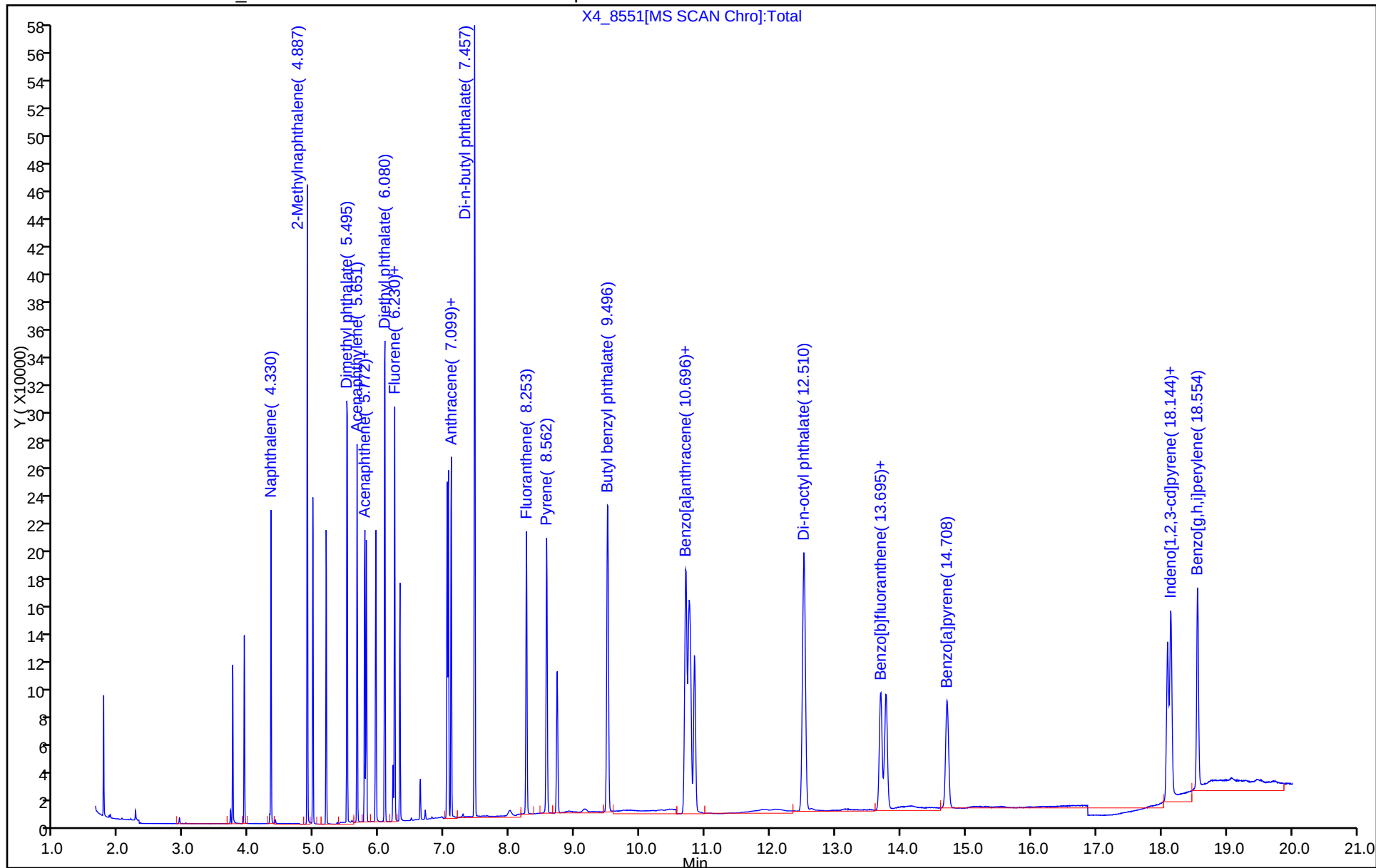
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8551.D

Injection Date: 19-Nov-2016 07:21:30

Instrument ID: SMS_X4

Lims ID: CCV

Client ID:

Operator ID: VASQUEZK

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM

Column:

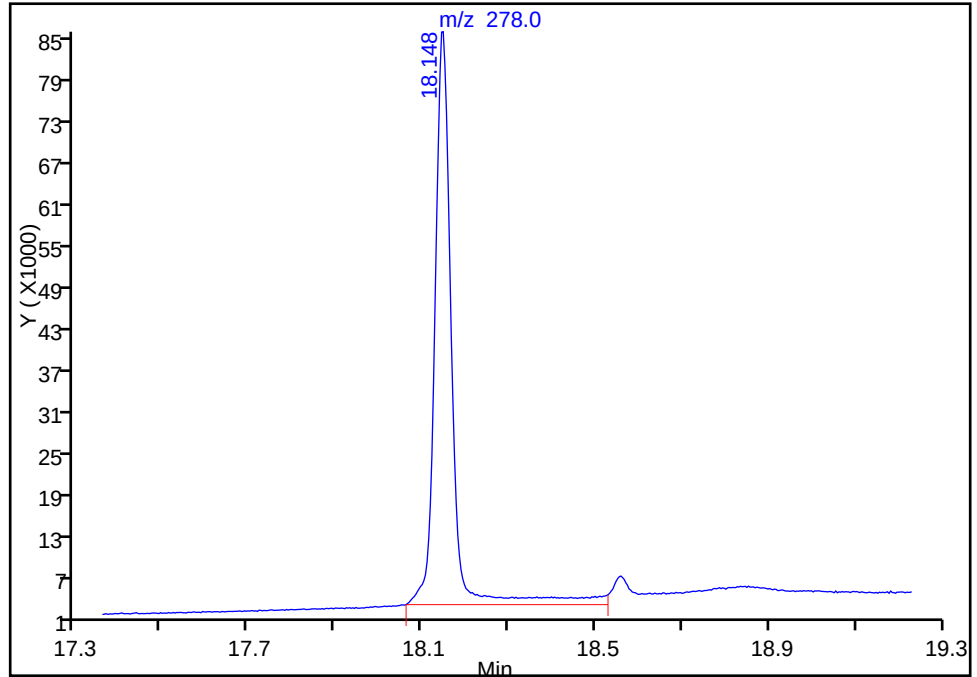
Detector MS SCAN

33 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

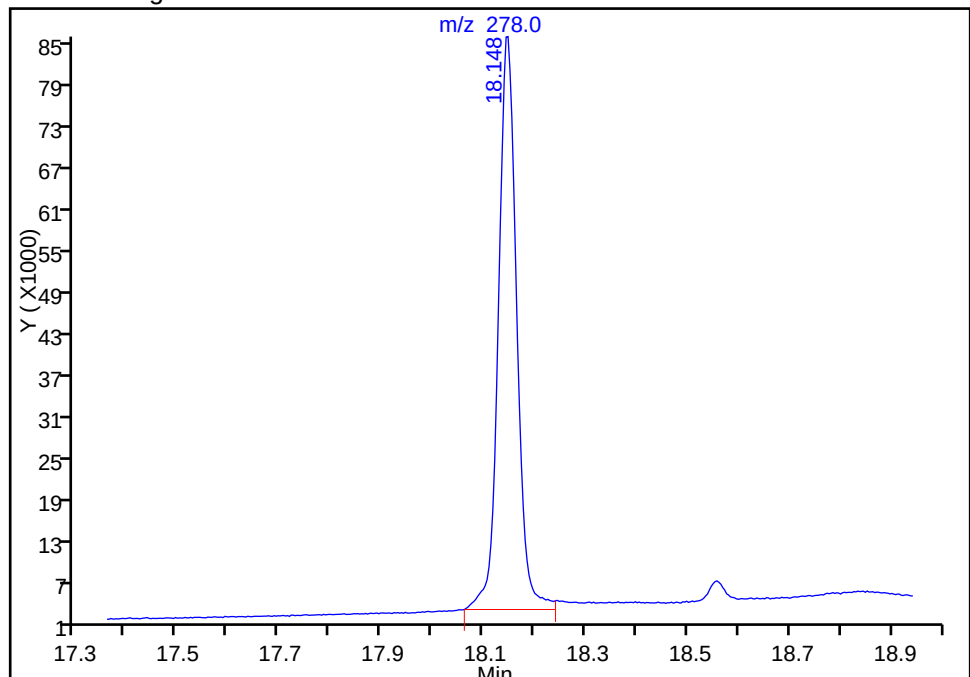
RT: 18.15
Area: 225287
Amount: 633.1959
Amount Units: ng/ml

Processing Integration Results



RT: 18.15
Area: 207462
Amount: 583.0966
Amount Units: ng/ml

Manual Integration Results



Reviewer: vasquezk, 19-Nov-2016 11:20:51

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8551.D

Injection Date: 19-Nov-2016 07:21:30

Instrument ID: SMS_X4

Lims ID: CCV

Client ID:

Operator ID: VASQUEZK

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: SMSX4_SIMX

Limit Group:

MSSV - 8270C-SIM

Column:

Detector

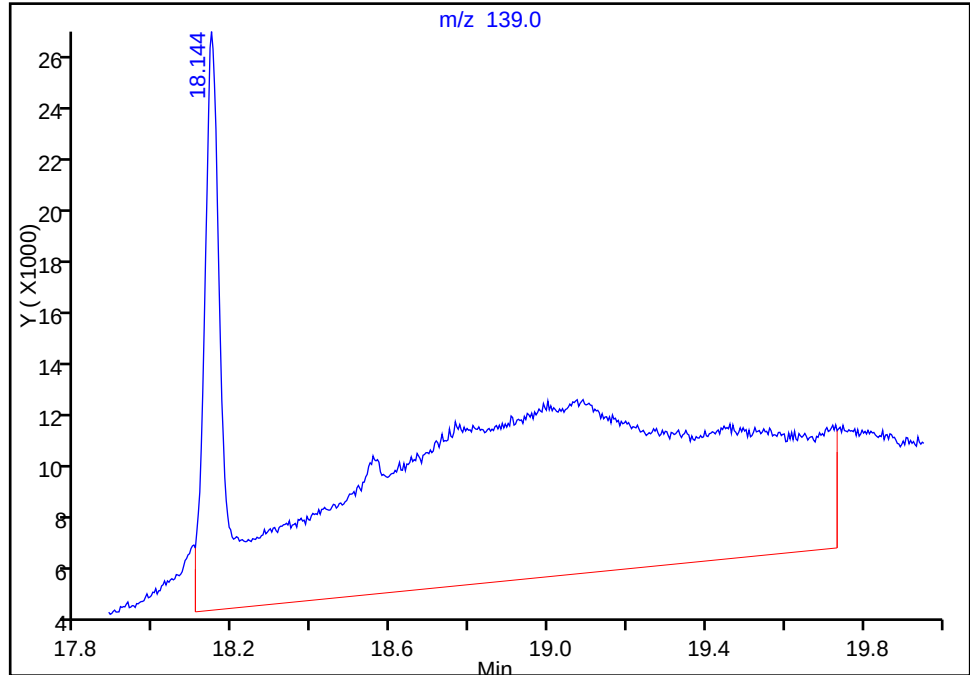
MS SCAN

33 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 2

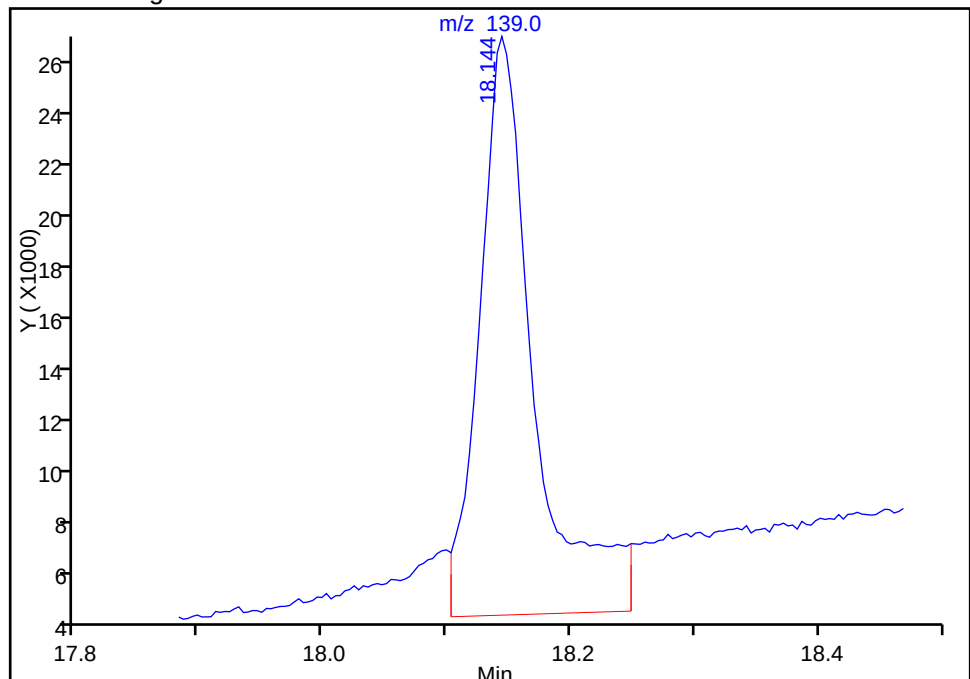
RT: 18.14
Area: 488264
Amount: 633.1959
Amount Units: ng/ml

Processing Integration Results



RT: 18.14
Area: 65223
Amount: 583.0966
Amount Units: ng/ml

Manual Integration Results



Reviewer: vasquezk, 19-Nov-2016 11:20:51

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCVC 280-352243/25 Calibration Date: 11/19/2016 17:47
 Instrument ID: SMS_X4 Calib Start Date: 10/05/2016 11:07
 GC Column: Rxi-5Sil MS ID: 0.25 (mm) Calib End Date: 10/05/2016 14:12
 Lab File ID: X4_8574.D Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.721	1.565	0.7000	546000	600000	-9.0	50.0
2-Methylnaphthalene	Ave	1.118	1.020	0.4000	1090000	1200000	-8.8	50.0
1-Methylnaphthalene	Ave	1.110	1.009	0.0500	545000	600000	-9.1	50.0
Acenaphthylene	Ave	1.802	1.668	0.9000	556000	600000	-7.4	50.0
Acenaphthene	Ave	1.094	1.023	0.9000	561000	600000	-6.5	50.0
Fluorene	Ave	1.304	1.239	0.9000	570000	600000	-5.0	50.0
Phenanthrene	Ave	1.108	1.013	0.7000	549000	600000	-8.5	50.0
Anthracene	Ave	1.150	1.045	0.7000	545000	600000	-9.1	50.0
Fluoranthene	Ave	1.284	1.153	0.6000	539000	600000	-10.2	50.0
Pyrene	Ave	1.369	1.193	0.6000	523000	600000	-12.8	50.0
Benzo[a]anthracene	Ave	1.253	1.049	0.8000	503000	600000	-16.2	50.0
Chrysene	Ave	1.159	1.010	0.7000	523000	600000	-12.9	50.0
Benzo[b]fluoranthene	Ave	1.273	1.033	0.7000	487000	600000	-18.9	50.0
Benzo[k]fluoranthene	Ave	1.303	1.106	0.7000	509000	600000	-15.1	50.0
Benzo[a]pyrene	Ave	1.248	1.012	0.7000	487000	600000	-18.9	50.0
Indeno[1,2,3-cd]pyrene	Ave	1.207	0.9807	0.5000	488000	600000	-18.7	50.0
Dibenz (a,h) anthracene	Ave	1.162	1.010	0.4000	521000	600000	-13.1	50.0
Benzo[g,h,i]perylene	Ave	1.303	1.108	0.5000	510000	600000	-15.0	50.0
Nitrobenzene-d5 (Surr)	Ave	0.7341	0.5672		464000	601000	-22.7	50.0
2-Fluorobiphenyl (Surr)	Ave	1.408	1.267		540000	600000	-10.0	50.0
Terphenyl-d14 (Surr)	Lin2		0.6560		553000	601000	-7.9	35.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8574.D
 Lims ID: CCVC
 Client ID:
 Sample Type: CCVC
 Inject. Date: 19-Nov-2016 17:47:30 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCVC
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Sublist: chrom-SMSX4_SIMX*sub3
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 11:00:01 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:58:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.765	0.000	95	59942	600.0	600.0	
* 2 Phenanthrene-d10	188	7.029	7.029	0.000	100	111465	600.0	600.0	
* 3 Chrysene-d12	240	10.744	10.744	0.000	94	114528	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.742	3.742	0.000	98	34034	600.6	464.1	
\$ 5 2-Fluorobiphenyl	172	5.173	5.173	0.000	100	75955	600.0	540.1	
\$ 6 Terphenyl-d14	244	8.709	8.709	0.000	100	73193	600.6	553.4	
8 N-Nitrosodimethylamine	42	1.761	1.761	0.000	96	14812	600.0	420.6	
7 1,4-Dioxane	88		1.762				ND	ND	
9 Naphthalene	128	4.327	4.327	0.000	100	93834	600.0	545.9	
10 2-Methylnaphthalene	142	4.883	4.883	0.000	100	122242	1200.0	1094.7	
11 1-Methylnaphthalene	142	4.969	4.969	0.000	97	60460	600.0	545.4	
12 Dimethyl phthalate	163	5.495	5.495	0.000	100	161279	1201.2	1181.7	
13 Acenaphthylene	152	5.644	5.644	0.000	99	99998	600.0	555.6	
14 Acenaphthene	153	5.786	5.786	0.000	95	61311	600.0	561.0	
15 Dibenzofuran	168	5.935	5.935	0.000	98	92486	600.6	571.3	
16 Diethyl phthalate	149	6.067	6.067	0.000	99	162271	1204.8	1197.2	
17 Fluorene	166	6.224	6.224	0.000	97	74286	600.0	570.2	
18 N-Nitrosodiphenylamine	169	6.305	6.305	0.000	100	52955	599.2	565.0	
19 Phenanthrene	178	7.045	7.045	0.000	100	112944	600.0	548.8	
20 Anthracene	178	7.088	7.088	0.000	100	116524	600.0	545.4	
21 Di-n-butyl phthalate	149	7.451	7.451	0.000	100	285200	1201.5	1085.6	
22 Fluoranthene	202	8.242	8.242	0.000	100	128494	600.0	538.5	
23 Pyrene	202	8.552	8.552	0.000	100	132983	600.0	523.0	
24 Butyl benzyl phthalate	149	9.479	9.479	0.000	100	124219	1201.5	925.9	
25 Bis(2-ethylhexyl) phthalat	149	10.680	10.680	0.000	97	170353	1201.8	895.0	
26 Benzo[a]anthracene	228	10.720	10.720	0.000	78	120144	600.0	502.5	
27 Chrysene	228	10.807	10.807	0.000	100	115630	600.0	522.7	
28 Di-n-octyl phthalate	149	12.487	12.487	0.000	100	276468	1203.3	850.7	
29 Benzo[b]fluoranthene	252	13.650	13.650	0.000	100	118263	600.0	486.7	
30 Benzo[k]fluoranthene	252	13.736	13.736	0.000	100	126686	600.0	509.2	
31 Benzo[a]pyrene	252	14.675	14.675	0.000	100	115924	600.0	486.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
32 Indeno[1,2,3-cd]pyrene	276	18.069	18.069	0.000	100	112314	600.0	487.7	
33 Dibenzo(a,h)anthracene	278	18.122	18.122	0.000	98	115620	600.0	521.4	
34 Benzo[g,h,i]perylene	276	18.532	18.532	0.000	99	126852	600.0	509.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MS-SIMSL 0.6_00110

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8574.D

Injection Date: 19-Nov-2016 17:47:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: CCVC

Worklist Smp#: 25

Client ID:

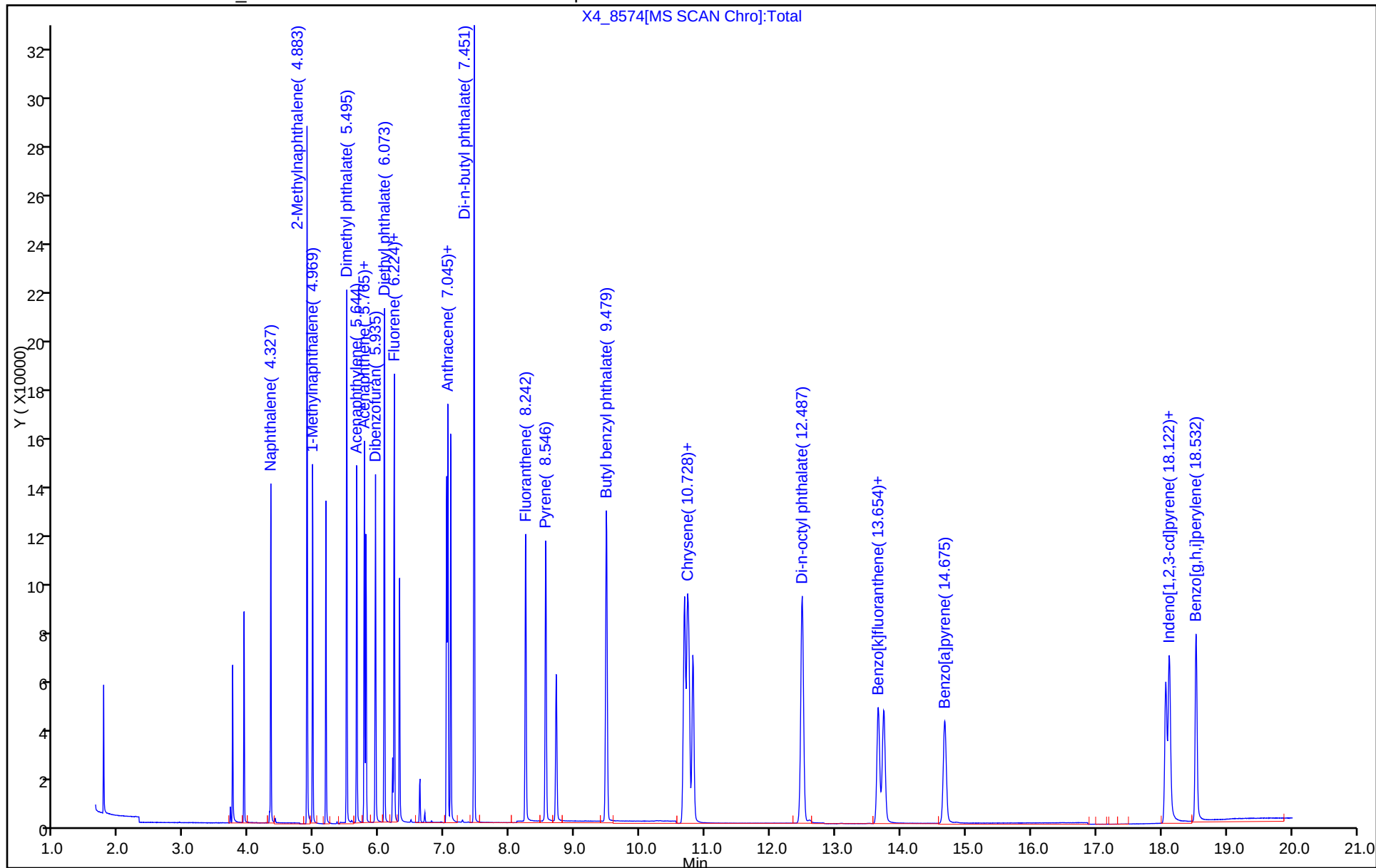
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 25

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 05-Oct-2016 10:24:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Operator ID: vasquezk Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 06-Oct-2016 08:35:35 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: vasquezk

Date: 05-Oct-2016 10:56:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
37 Pentachlorophenol_T	266	3.997	3.997	0.000	0	2226571	NR	NR	
38 DFTPP									
39 Benzydine_T	184	5.143	5.143	0.000	0	9581081	NR	NR	e
41 4,4'-DDE	246	5.470	5.470	0.000	0	988	NR	NR	
40 4,4'-DDD	235	5.527	5.527	0.000	0	3079	NR	NR	
42 4,4'-DDT	235	5.849	5.849	0.000	0	6216453	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

e - Potential Peak Saturated

Reagents:

MS-DFTPP_00043

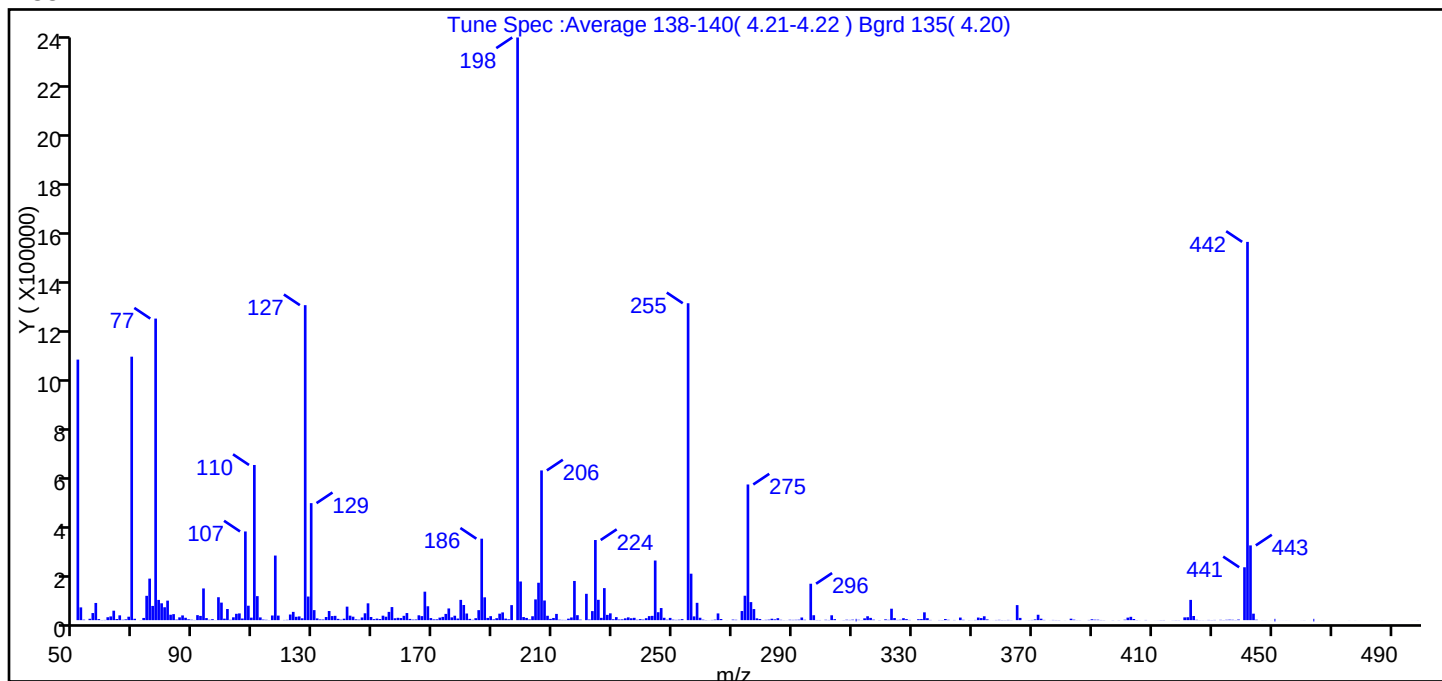
Amount Added: 0.50

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D
Injection Date: 05-Oct-2016 10:24:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: vasquezk ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: SMSX4_SIMX Limit Group: MSSV - 8270C-SIM
Tune Method: DFTPP Method 8270

38 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	44.7
68	<2% of mass 69	0.6 (1.3)
69	Present	45.2
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	54.1
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	23.3
365	>1% of mass 198	2.6
441	Present but less than mass 443	9.1 (70.8)
442	>40% of mass 198	64.9
443	17-23% of mass 442	12.8 (19.8)

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D\SMSX4_SIMX.rslt\spectra.d
Injection Date: 05-Oct-2016 10:24:30
Spectrum: Tune Spec :Average 138-140(4.21-4.22) Bgrd 135(4.20)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
51.00	1043520	152.00	4384	253.00	4053	367.00	17
52.00	51120	153.00	17880	255.00	1269248	368.00	147
53.00	1969	154.00	13696	256.00	186048	369.00	368
55.00	5440	155.00	33072	257.00	15062	370.00	861
56.00	28400	156.00	52352	258.00	69360	371.00	2919
57.00	68840	157.00	7469	259.00	9614	372.00	21616
58.00	4288	158.00	9380	260.00	1908	373.00	5774
59.00	616	159.00	8289	261.00	595	374.00	924
60.00	938	160.00	17280	262.00	217	376.00	173
61.00	11682	161.00	28448	263.00	883	377.00	811
62.00	14939	162.00	4935	264.00	2079	378.00	611
63.00	37856	163.00	2171	265.00	26936	379.00	543
64.00	4461	164.00	2613	266.00	4528	381.00	190
65.00	19208	165.00	19416	268.00	180	383.00	5812
66.00	1543	166.00	16127	270.00	2171	384.00	1926
67.00	3188	167.00	114032	271.00	1464	385.00	347
68.00	13691	168.00	55592	272.00	124	386.00	301
69.00	1055232	169.00	8270	273.00	36480	389.00	748
70.00	5541	170.00	3067	274.00	97744	390.00	3522
72.00	378	171.00	3294	275.00	543360	391.00	1912
73.00	8797	172.00	10154	276.00	72248	392.00	1832
74.00	97408	173.00	13081	277.00	44384	393.00	663
75.00	166336	174.00	24992	278.00	7157	394.00	470
76.00	56936	175.00	46840	279.00	4642	395.00	51
77.00	1207808	176.00	11229	280.00	420	397.00	404
78.00	81040	177.00	17728	281.00	1253	399.00	415
79.00	67504	178.00	6487	282.00	2002	401.00	1827
80.00	51624	179.00	81176	283.00	5680	402.00	10088
81.00	78168	180.00	60624	284.00	3143	403.00	13355
82.00	21688	181.00	26592	285.00	7908	404.00	4551
83.00	24032	182.00	5098	286.00	1363	405.00	516
84.00	2195	183.00	1305	287.00	393	406.00	183
85.00	11145	184.00	7822	288.00	233	408.00	745

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D\SMSX4_SIMX.rsl\spectra.d

Injection Date: 05-Oct-2016 10:24:30

Spectrum: Tune Spec :Average 138-140(4.21-4.22) Bgrd 135(4.20)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	18992	185.00	40024	289.00	1561	409.00	74
87.00	9495	186.00	326272	290.00	1102	411.00	134
88.00	3365	187.00	91416	291.00	1382	412.00	207
89.00	1723	188.00	9023	292.00	1817	413.00	510
90.00	784	189.00	15964	293.00	10598	414.00	625
91.00	20032	190.00	3021	294.00	1572	417.00	278
92.00	16960	191.00	7835	296.00	145856	418.00	480
93.00	126984	192.00	25896	297.00	19648	419.00	397
94.00	8206	193.00	31024	298.00	697	421.00	11090
95.00	1411	194.00	6133	299.00	668	422.00	11633
96.00	3862	195.00	3449	301.00	1534	423.00	81120
97.00	383	196.00	60160	302.00	784	424.00	16616
98.00	91776	198.00	2333696	303.00	19496	425.00	1380
99.00	70232	199.00	154816	304.00	3965	426.00	392
100.00	5959	200.00	12315	306.00	154	427.00	344
101.00	44608	201.00	8823	307.00	541	428.00	190
102.00	1391	202.00	2811	308.00	1673	429.00	868
103.00	11398	203.00	15615	309.00	928	430.00	542
104.00	25440	204.00	83112	310.00	1941	431.00	841
105.00	26992	205.00	149760	311.00	2	433.00	1245
106.00	6553	206.00	599680	312.00	1424	434.00	568
107.00	355200	207.00	78712	313.00	424	435.00	1427
108.00	57792	208.00	17520	314.00	7282	436.00	1989
109.00	9972	209.00	5114	315.00	15621	437.00	1470
110.00	621440	210.00	8713	316.00	9071	438.00	648
111.00	96152	211.00	24992	317.00	1942	439.00	2399
112.00	10985	212.00	1771	319.00	568	441.00	211776
113.00	2265	213.00	1085	321.00	3199	442.00	1515008
114.00	1379	214.00	934	322.00	1306	443.00	299328
115.00	379	215.00	5904	323.00	45816	444.00	25968
116.00	18624	216.00	10757	324.00	8248	445.00	1766
117.00	258688	217.00	156928	325.00	1003	447.00	238
118.00	18184	218.00	19872	326.00	1682	448.00	161
119.00	114	219.00	2064	327.00	7804	450.00	195

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D\SMSX4_SIMX.rsl\spectra.d

Injection Date: 05-Oct-2016 10:24:30

Spectrum: Tune Spec :Average 138-140(4.21-4.22) Bgrd 135(4.20)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	800	221.00	105488	328.00	4077	451.00	6
121.00	1297	222.00	2514	329.00	873	452.00	41
122.00	22584	223.00	36208	332.00	3678	453.00	124
123.00	33120	224.00	320896	333.00	4181	454.00	127
124.00	13448	225.00	81464	334.00	31288	455.00	171
125.00	14920	226.00	9247	335.00	7826	456.00	116
126.00	7409	227.00	128320	336.00	836	458.00	75
127.00	1261568	228.00	21072	339.00	689	460.00	152
128.00	94536	229.00	27280	340.00	572	461.00	279
129.00	468608	230.00	3655	341.00	4470	463.00	68
130.00	40128	231.00	12074	342.00	1346	464.00	3
131.00	6979	232.00	2489	343.00	52	467.00	193
132.00	2912	233.00	3129	344.00	741	468.00	47
133.00	2557	234.00	7252	346.00	10340	471.00	28
134.00	12523	235.00	11107	347.00	1302	476.00	188
135.00	36528	236.00	7534	349.00	353	478.00	168
136.00	16248	237.00	9288	350.00	217	480.00	49
137.00	17272	238.00	1563	351.00	854	481.00	17
138.00	5223	239.00	4020	352.00	10372	482.00	13
139.00	1794	240.00	2212	353.00	8206	483.00	62
140.00	5868	241.00	7696	354.00	15487	484.00	91
141.00	54080	242.00	16118	355.00	2977	485.00	78
142.00	17928	243.00	17096	356.00	166	487.00	200
143.00	13847	244.00	238784	357.00	177	488.00	78
144.00	3229	245.00	31752	358.00	739	490.00	14
145.00	1920	246.00	48472	359.00	1181	491.00	62
146.00	10707	247.00	9432	360.00	558	493.00	66
147.00	27432	248.00	1840	361.00	430	494.00	27
148.00	67400	249.00	9033	362.00	907	497.00	111
149.00	12625	250.00	1901	363.00	375	498.00	88
150.00	4067	251.00	1097	365.00	60216	499.00	253
151.00	6266	252.00	1857	366.00	8983		

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D

Injection Date: 05-Oct-2016 10:24:30

Instrument ID: SMS_X4

Operator ID: vasquezk

Lims ID: DFTPP

Worklist Smp#: 1

Client ID:

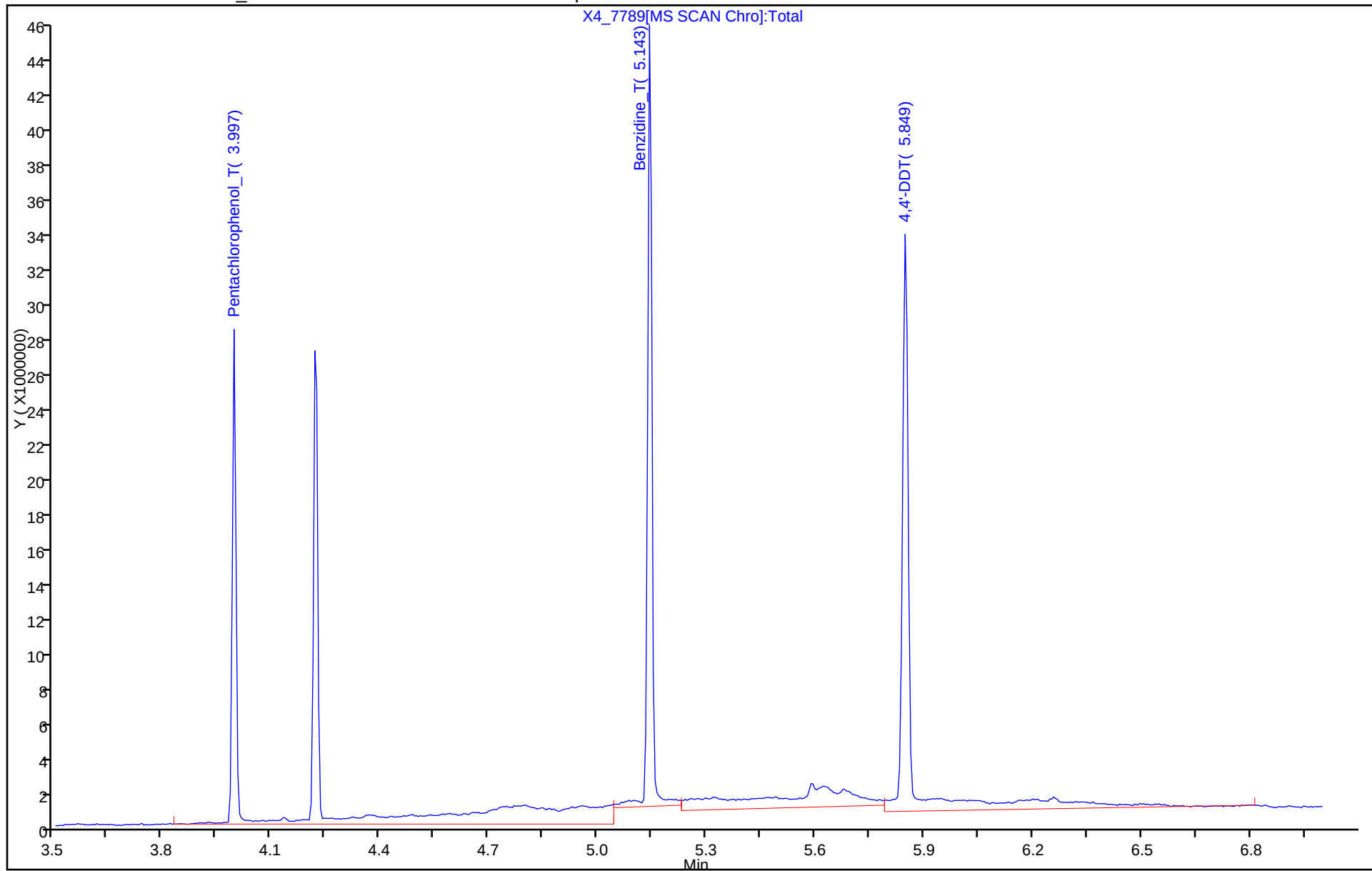
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D
Injection Date: 05-Oct-2016 10:24:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: vasquezk
Injection Vol: 1.0 ul
Method: SMSX4_SIMX

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSSV - 8270C-SIM

42 4,4'-DDT, Detector: MS SCAN

SW-846 Method

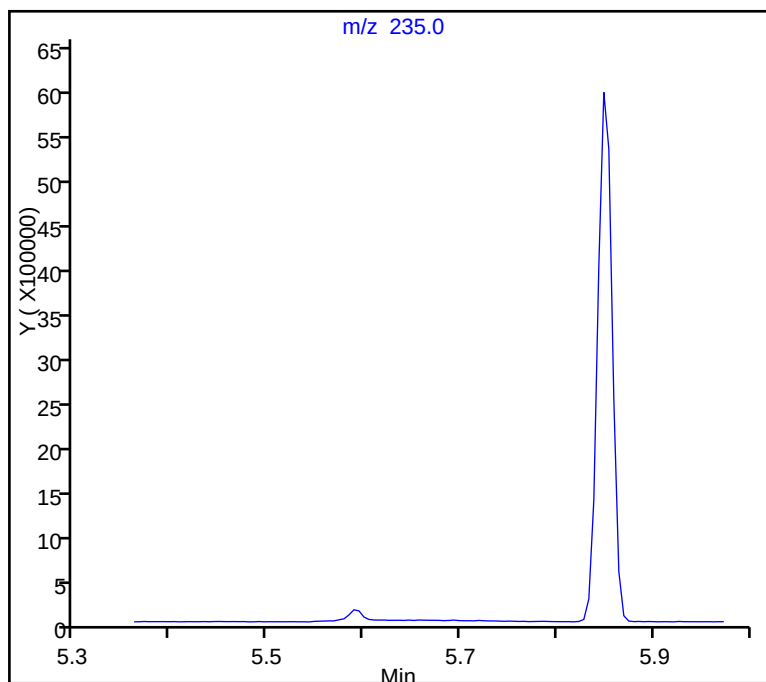
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

42 4,4'-DDT, Area = 6216453

41 4,4'-DDE, Area = 988

40 4,4'-DDD, Area = 3079

%Breakdown: 0.07%, Max Limit: 20.00%
Passed



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D
Injection Date: 05-Oct-2016 10:24:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: vasquezk ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: SMSX4_SIMX Limit Group: MSSV - 8270C-SIM

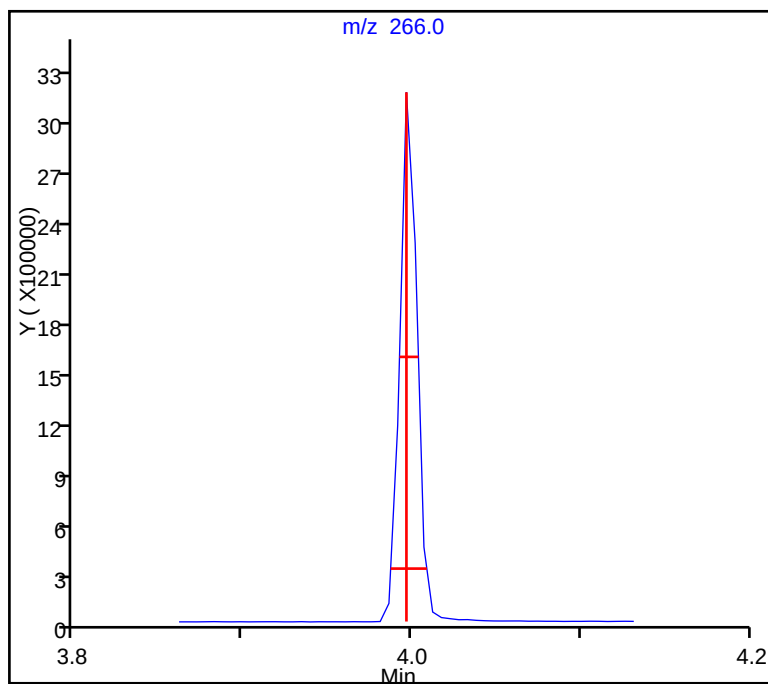
37 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)

Front Width = 0.009 (min.)

Tailing Factor = 1.3, Max. Tailing < 3.00
Passed



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7789.D
Injection Date: 05-Oct-2016 10:24:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: vasquezk
Injection Vol: 1.0 ul
Method: SMSX4_SIMX

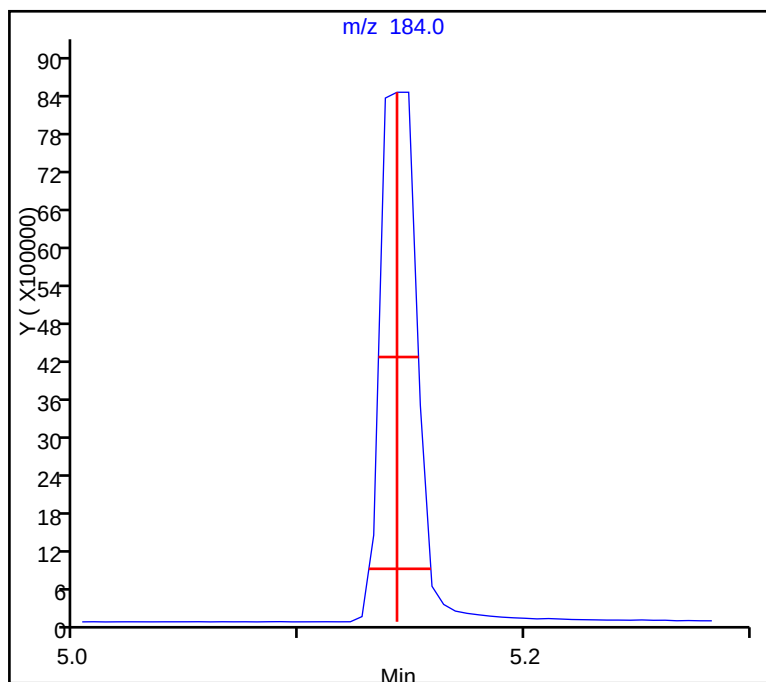
ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSSV - 8270C-SIM

39 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.2, Max. Tailing < 5.00
Passed



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 19-Nov-2016 07:02:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:39 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 19-Nov-2016 07:16:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
37 Pentachlorophenol_T	266	4.308	4.308	0.000	0	1061166	NR	NR	
38 DFTPP									
39 Benzdine_T	184	5.460	5.460	0.000	0	9073105	NR	NR	e
40 4,4'-DDD	235	5.958	5.958	0.000	0	95556	NR	NR	
41 4,4'-DDE	246	5.984	5.984	0.000	0	2840	NR	NR	
42 4,4'-DDT	235	6.253	6.253	0.000	0	3733839	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

e - Potential Peak Saturated

Reagents:

MS-DFTPP_00043

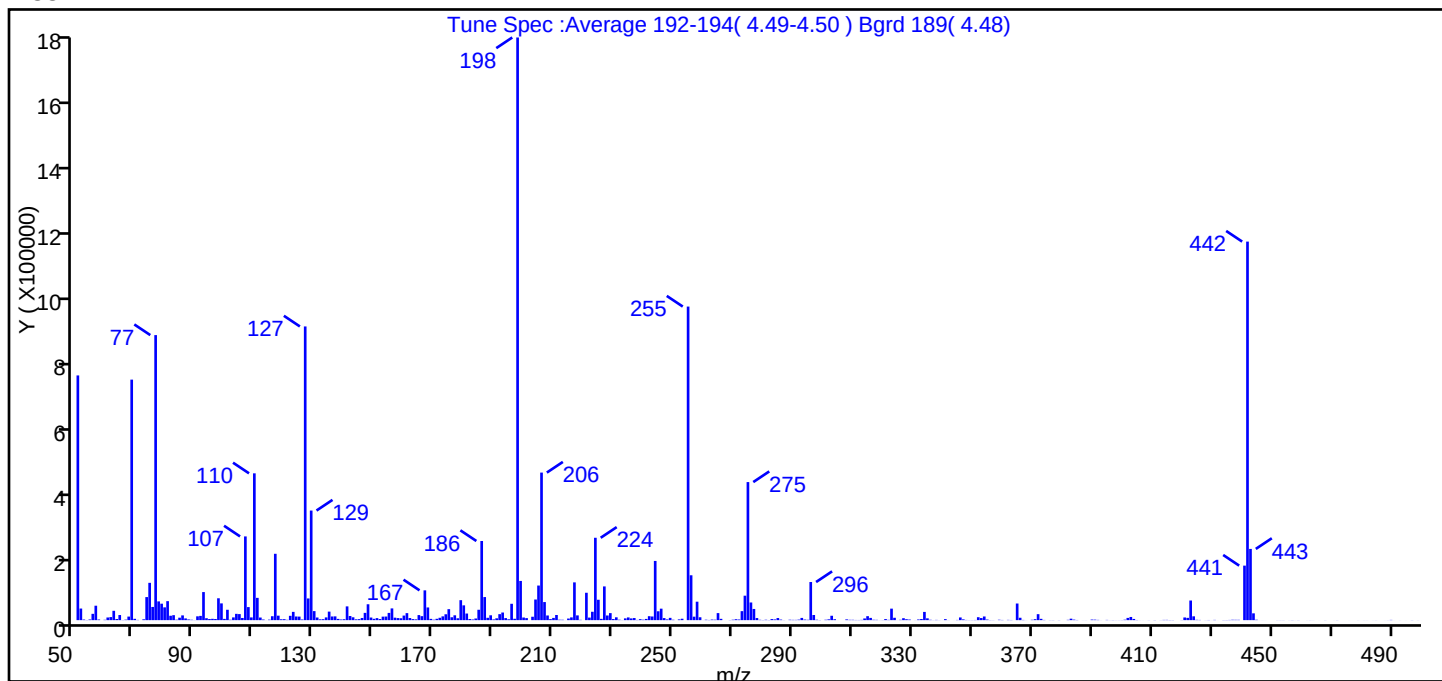
Amount Added: 0.50

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D
Injection Date: 19-Nov-2016 07:02:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: VASQUEZK ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: SMSX4_SIMX Limit Group: MSSV - 8270C-SIM
Tune Method: DFTPP Method 8270

38 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	42.0
68	<2% of mass 69	0.6 (1.5)
69	Present	41.3
70	<2% of mass 69	0.2 (0.6)
127	40-60% of mass 198	50.4
197	<1% of mass 198	0.2
199	5-9% of mass 198	6.7
275	10-30% of mass 198	23.7
365	>1% of mass 198	2.9
441	Present but less than mass 443	9.4 (76.5)
442	>40% of mass 198	65.0
443	17-23% of mass 442	12.2 (18.8)

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D\SMSX4_SIMX.rslt\spectra.d
Injection Date: 19-Nov-2016 07:02:30
Spectrum: Tune Spec :Average 192-194(4.49-4.50) Bgrd 189(4.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 402

m/z	Y	m/z	Y	m/z	Y	m/z	Y
51.00	742080	153.00	10654	258.00	55952	368.00	113
52.00	35160	154.00	10943	259.00	8743	370.00	1145
53.00	1850	155.00	21944	260.00	125	371.00	2880
54.00	439	156.00	35608	261.00	1294	372.00	18096
55.00	2056	157.00	7477	262.00	570	373.00	3964
56.00	19144	158.00	6272	263.00	1758	374.00	642
57.00	43752	159.00	5671	264.00	1403	376.00	280
58.00	1923	160.00	13847	265.00	21352	377.00	319
60.00	1074	161.00	21280	266.00	3945	379.00	310
61.00	8042	162.00	6409	269.00	402	382.00	931
62.00	9246	163.00	3153	270.00	1305	383.00	4410
63.00	28320	164.00	2382	271.00	2802	384.00	1578
64.00	3443	165.00	15330	272.00	1948	385.00	518
65.00	15508	166.00	12075	273.00	27280	387.00	107
66.00	408	167.00	90336	274.00	74136	388.00	145
67.00	1511	168.00	38472	275.00	418688	390.00	1765
68.00	10802	169.00	3851	276.00	53536	391.00	1498
69.00	729344	170.00	1312	277.00	33928	392.00	779
70.00	4043	171.00	4089	278.00	6325	393.00	134
71.00	691	172.00	7161	279.00	1031	395.00	710
72.00	11	173.00	11492	280.00	436	396.00	191
73.00	2500	174.00	17824	281.00	1206	397.00	357
74.00	69928	175.00	33296	282.00	424	398.00	204
75.00	113144	176.00	8746	283.00	3244	399.00	234
76.00	40024	177.00	14699	284.00	2185	400.00	344
77.00	864384	178.00	5683	285.00	6411	401.00	1355
78.00	56832	179.00	60544	286.00	1678	402.00	6775
79.00	49904	180.00	44824	287.00	239	403.00	9638
80.00	38792	181.00	20040	289.00	1238	404.00	3633
81.00	57600	182.00	3376	290.00	870	405.00	503
82.00	13342	183.00	1973	291.00	827	406.00	147
83.00	15073	184.00	4993	292.00	1572	407.00	88
84.00	1416	185.00	31480	293.00	6774	408.00	45

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D\SMSX4_SIMX.rsl\spectra.d

Injection Date: 19-Nov-2016 07:02:30

Spectrum: Tune Spec :Average 192-194(4.49-4.50) Bgrd 189(4.48)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 402

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	7417	186.00	240000	294.00	1815	409.00	258
86.00	14412	187.00	69976	295.00	1115	411.00	357
87.00	5253	188.00	7105	296.00	115592	413.00	228
88.00	2164	189.00	14705	297.00	15593	414.00	731
89.00	1149	190.00	2187	298.00	1296	415.00	815
90.00	299	191.00	5562	299.00	409	416.00	423
91.00	11589	192.00	18160	301.00	1230	417.00	390
92.00	12904	193.00	23120	302.00	2472	420.00	329
93.00	85120	194.00	6239	303.00	13279	421.00	8072
94.00	5821	195.00	2627	304.00	2792	422.00	6898
95.00	3379	196.00	49608	305.00	80	423.00	59512
96.00	4037	197.00	4184	308.00	2301	424.00	11590
97.00	3482	198.00	1766912	309.00	1012	425.00	1019
98.00	66312	199.00	118872	310.00	1018	426.00	655
99.00	50816	200.00	7952	311.00	582	428.00	192
100.00	3835	201.00	6112	312.00	545	429.00	499
101.00	31480	203.00	10320	313.00	794	430.00	98
102.00	1194	204.00	62592	314.00	5121	431.00	740
103.00	8329	205.00	104928	315.00	12032	432.00	76
104.00	19112	206.00	447488	316.00	6820	433.00	14
105.00	18344	207.00	54824	317.00	1200	434.00	379
106.00	6584	208.00	14152	318.00	920	435.00	445
107.00	253888	209.00	3160	319.00	181	436.00	622
108.00	39560	210.00	6764	320.00	296	437.00	1180
109.00	8265	211.00	15600	321.00	3198	438.00	1036
110.00	445184	212.00	1330	322.00	928	439.00	987
111.00	67560	213.00	1142	323.00	34896	441.00	165312
112.00	7891	214.00	97	324.00	7178	442.00	1147904
113.00	1831	215.00	4853	325.00	130	443.00	216000
114.00	125	216.00	8345	326.00	1037	444.00	20648
115.00	1518	217.00	114520	327.00	5879	445.00	1231
116.00	11877	218.00	14394	328.00	2837	446.00	75
117.00	201216	219.00	944	329.00	1823	447.00	103
118.00	13567	221.00	83024	331.00	154	448.00	64

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D\SMSX4_SIMX.rsl\spectra.d

Injection Date: 19-Nov-2016 07:02:30

Spectrum: Tune Spec :Average 192-194(4.49-4.50) Bgrd 189(4.48)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 402

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	2625	222.00	7747	332.00	2037	452.00	220
120.00	2922	223.00	25408	333.00	3391	453.00	228
121.00	980	224.00	249792	334.00	24952	454.00	219
122.00	13101	225.00	61816	335.00	5488	456.00	158
123.00	25080	226.00	3914	336.00	1043	457.00	315
124.00	11056	227.00	102280	337.00	234	458.00	90
125.00	10735	228.00	14116	338.00	752	459.00	249
126.00	2020	229.00	21312	339.00	218	462.00	104
127.00	890624	230.00	3337	340.00	87	463.00	194
128.00	65784	231.00	8562	341.00	3047	464.00	116
129.00	332352	232.00	1271	342.00	184	466.00	64
130.00	27392	233.00	249	344.00	63	468.00	205
131.00	7967	234.00	5367	345.00	647	471.00	78
132.00	2506	235.00	8227	346.00	8154	472.00	249
133.00	2913	236.00	5259	347.00	2320	476.00	63
134.00	8317	237.00	6372	348.00	584	477.00	15
135.00	25872	238.00	686	349.00	338	479.00	133
136.00	11095	239.00	2926	350.00	330	480.00	37
137.00	11410	240.00	1428	351.00	578	481.00	108
138.00	3815	241.00	3672	352.00	8866	482.00	115
139.00	1952	242.00	11988	353.00	6344	484.00	75
140.00	2743	243.00	11071	354.00	11096	485.00	156
141.00	41736	244.00	179520	355.00	1778	486.00	26
142.00	12573	245.00	26896	356.00	388	488.00	78
143.00	8669	246.00	34816	357.00	271	489.00	182
144.00	2502	247.00	6223	358.00	46	490.00	739
145.00	3026	248.00	2249	359.00	1232	491.00	48
146.00	6585	249.00	6944	360.00	591	493.00	111
147.00	22040	250.00	1192	362.00	807	495.00	69
148.00	48176	252.00	2259	363.00	501	497.00	292
149.00	7877	253.00	4269	364.00	21	499.00	157
150.00	4052	255.00	950912	365.00	50440	500.00	35
151.00	6167	256.00	136064	366.00	7226		
152.00	3361	257.00	10533	367.00	644		

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	2625	222.00	7747	332.00	2037	452.00	220
120.00	2922	223.00	25408	333.00	3391	453.00	228
121.00	980	224.00	249792	334.00	24952	454.00	219
122.00	13101	225.00	61816	335.00	5488	456.00	158
123.00	25080	226.00	3914	336.00	1043	457.00	315
124.00	11056	227.00	102280	337.00	234	458.00	90
125.00	10735	228.00	14116	338.00	752	459.00	249
126.00	2020	229.00	21312	339.00	218	462.00	104
127.00	890624	230.00	3337	340.00	87	463.00	194
128.00	65784	231.00	8562	341.00	3047	464.00	116
129.00	332352	232.00	1271	342.00	184	466.00	64
130.00	27392	233.00	249	344.00	63	468.00	205
131.00	7967	234.00	5367	345.00	647	471.00	78
132.00	2506	235.00	8227	346.00	8154	472.00	249
133.00	2913	236.00	5259	347.00	2320	476.00	63
134.00	8317	237.00	6372	348.00	584	477.00	15
135.00	25872	238.00	686	349.00	338	479.00	133
136.00	11095	239.00	2926	350.00	330	480.00	37
137.00	11410	240.00	1428	351.00	578	481.00	108
138.00	3815	241.00	3672	352.00	8866	482.00	115
139.00	1952	242.00	11988	353.00	6344	484.00	75
140.00	2743	243.00	11071	354.00	11096	485.00	156
141.00	41736	244.00	179520	355.00	1778	486.00	26
142.00	12573	245.00	26896	356.00	388	488.00	78
143.00	8669	246.00	34816	357.00	271	489.00	182
144.00	2502	247.00	6223	358.00	46	490.00	739
145.00	3026	248.00	2249	359.00	1232	491.00	48
146.00	6585	249.00	6944	360.00	591	493.00	111
147.00	22040	250.00	1192	362.00	807	495.00	69
148.00	48176	252.00	2259	363.00	501	497.00	292
149.00	7877	253.00	4269	364.00	21	499.00	157
150.00	4052	255.00	950912	365.00	50440	500.00	35
151.00	6167	256.00	136064	366.00	7226		
152.00	3361	257.00	10533	367.00	644		

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D

Injection Date: 19-Nov-2016 07:02:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: DFTPP

Worklist Smp#: 1

Client ID:

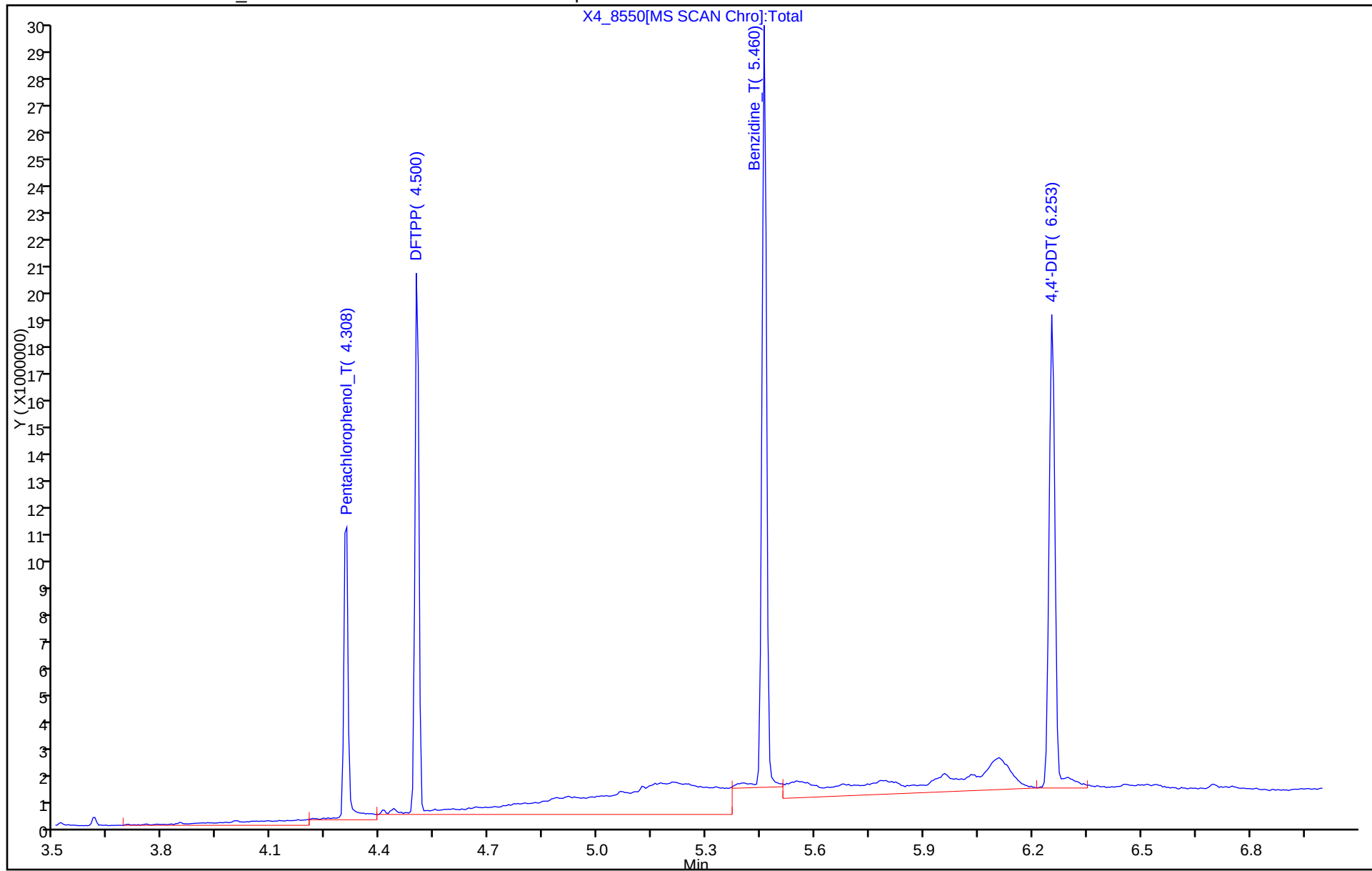
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D
Injection Date: 19-Nov-2016 07:02:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: VASQUEZK
Injection Vol: 1.0 ul
Method: SMSX4_SIMX

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSSV - 8270C-SIM

42 4,4'-DDT, Detector: MS SCAN

SW-846 Method

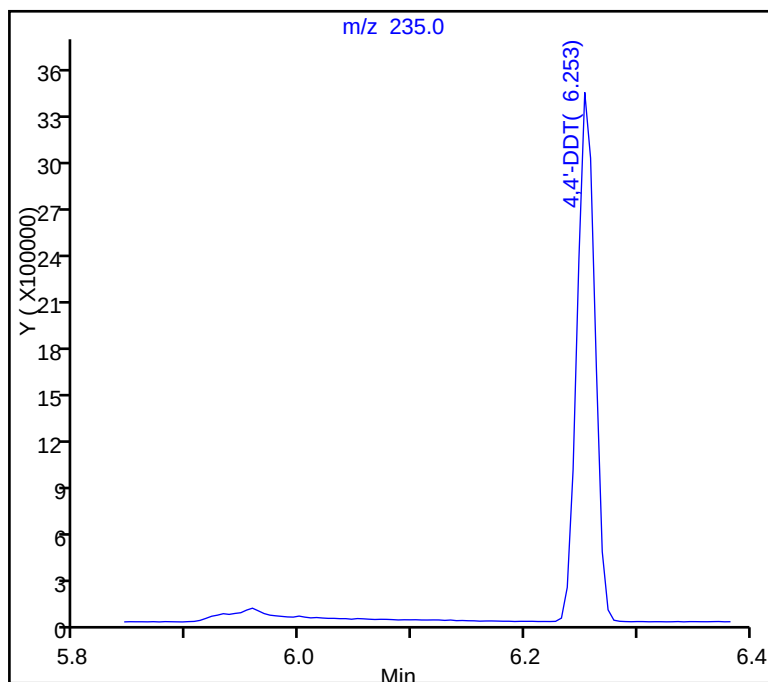
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

42 4,4'-DDT, Area = 3733839

41 4,4'-DDE, Area = 2840

40 4,4'-DDD, Area = 95556

%Breakdown: 2.57%, Max Limit: 20.00%
Passed



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D
Injection Date: 19-Nov-2016 07:02:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: VASQUEZK
Injection Vol: 1.0 ul
Method: SMSX4_SIMX

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSSV - 8270C-SIM

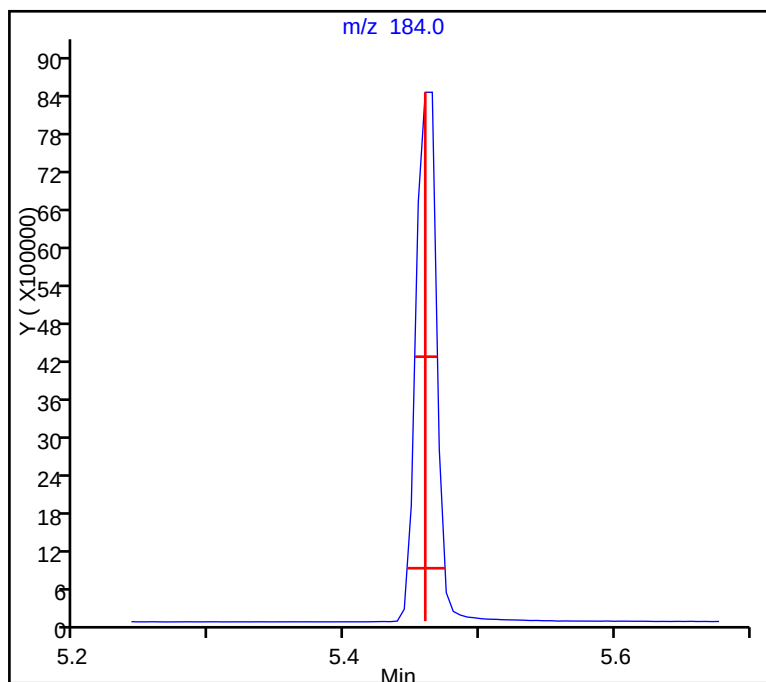
39 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)

Front Width = 0.014 (min.)

Tailing Factor = 1.1, Max. Tailing < 5.00
Passed



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8550.D
Injection Date: 19-Nov-2016 07:02:30 Instrument ID: SMS_X4
Lims ID: DFTPP
Client ID:
Operator ID: VASQUEZK
Injection Vol: 1.0 ul
Method: SMSX4_SIMX

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSSV - 8270C-SIM

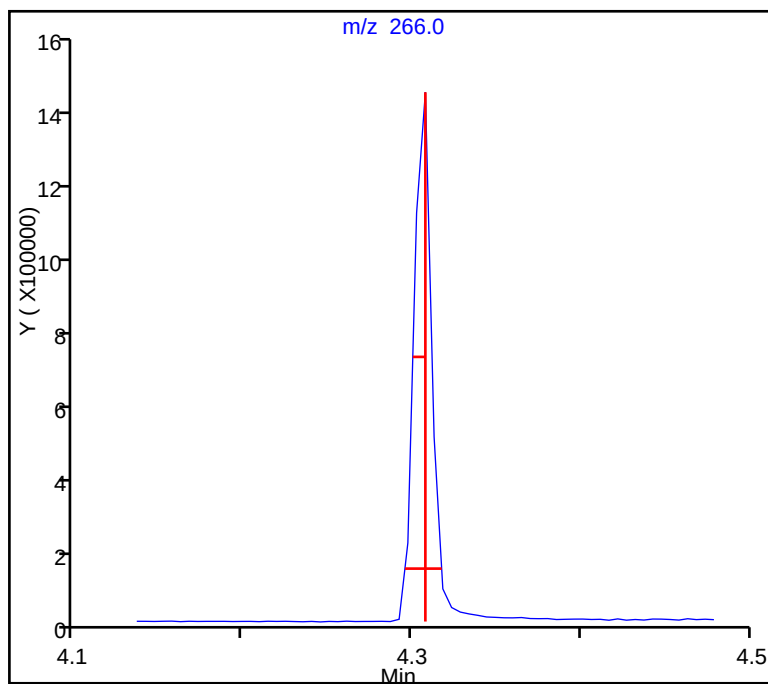
37 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)

Front Width = 0.012 (min.)

Tailing Factor = 0.8, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-351615/1-A
 Matrix: Water Lab File ID: X4_8552.D
 Analysis Method: 8270D SIM Date Collected: _____
 Extract. Method: 3510C Date Extracted: 11/15/2016 16:58
 Sample wt/vol: 250 (mL) Date Analyzed: 11/19/2016 07:55
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 352243 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.040	U	0.10	0.040	0.0042
208-96-8	Acenaphthylene	0.040	U	0.10	0.040	0.0051
120-12-7	Anthracene	0.040	U	0.10	0.040	0.0056
56-55-3	Benzo[a]anthracene	0.012	U	0.10	0.012	0.0042
205-99-2	Benzo[b]fluoranthene	0.012	U	0.10	0.012	0.0031
207-08-9	Benzo[k]fluoranthene	0.012	U	0.10	0.012	0.0063
191-24-2	Benzo[g,h,i]perylene	0.012	U	0.10	0.012	0.0062
50-32-8	Benzo[a]pyrene	0.012	U	0.10	0.012	0.0069
218-01-9	Chrysene	0.012	U	0.10	0.012	0.0033
53-70-3	Dibenz(a,h)anthracene	0.012	U	0.10	0.012	0.0041
206-44-0	Fluoranthene	0.012	U	0.10	0.012	0.0048
86-73-7	Fluorene	0.040	U	0.10	0.040	0.0055
193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U	0.10	0.040	0.0045
91-20-3	Naphthalene	0.012	U	0.10	0.012	0.0080
85-01-8	Phenanthrene	0.020	U	0.10	0.020	0.0093
129-00-0	Pyrene	0.020	U	0.10	0.020	0.0061

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	63		53-106
1718-51-0	Terphenyl-d14 (Surr)	82		58-132
4165-60-0	Nitrobenzene-d5 (Surr)	72		55-111

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8552.D
 Lims ID: MB 280-351615/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Nov-2016 07:55:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: mb280-351615_1-a
 Operator ID: VASQUEZK Instrument ID: SMS_X4
 Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
 Limit Group: MSSV - 8270C-SIM
 Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:46:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.772	-0.007	94	52023	600.0	600.0	
* 2 Phenanthrene-d10	188	7.034	7.034	0.000	100	98311	600.0	600.0	
* 3 Chrysene-d12	240	10.768	10.768	0.000	96	106349	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.745	3.742	0.003	97	5694	125.0	89.5	
\$ 5 2-Fluorobiphenyl	172	5.177	5.177	0.000	99	9571	125.0	78.4	
\$ 6 Terphenyl-d14	244	8.720	8.725	-0.005	95	12751	125.0	102.2	
8 N-Nitrosodimethylamine	42		1.756					ND	
7 1,4-Dioxane	88		1.762					ND	
9 Naphthalene	128		4.330					ND	
10 2-Methylnaphthalene	142		4.887					ND	
11 1-Methylnaphthalene	142		4.973					ND	
12 Dimethyl phthalate	163		5.495					ND	
13 Acenaphthylene	152		5.651					ND	
14 Acenaphthene	153		5.793					ND	
15 Dibenzofuran	168		5.942					ND	
16 Diethyl phthalate	149	6.073	6.074	-0.001	94	748		6.36	
17 Fluorene	166		6.230					ND	
18 N-Nitrosodiphenylamine	169		6.311					ND	
19 Phenanthrene	178		7.056					ND	
20 Anthracene	178		7.099					ND	
21 Di-n-butyl phthalate	149		7.457					ND	
22 Fluoranthene	202		8.253					ND	
23 Pyrene	202		8.562					ND	
24 Butyl benzyl phthalate	149		9.501					ND	
25 Bis(2-ethylhexyl) phthalat	149	10.688	10.696	-0.008	97	17936		106.8	
26 Benzo[a]anthracene	228		10.744					ND	
27 Chrysene	228		10.831					ND	
28 Di-n-octyl phthalate	149		12.510					ND	
29 Benzo[b]fluoranthene	252		13.695					ND	
30 Benzo[k]fluoranthene	252		13.773					ND	
31 Benzo[a]pyrene	252		14.708					ND	
32 Indeno[1,2,3-cd]pyrene	276		18.096					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
33 Dibenz(a,h)anthracene	278		18.148					ND	
34 Benzo[g,h,i]perylene	276		18.554					ND	
35 Benzidine	184		0.000					ND	
36 Pentachlorophenol	266		0.000					ND	
37 Pentachlorophenol_T	266		4.308					ND	
39 Benzidine_T	184		5.460					ND	
40 4,4'-DDD	235		5.958					ND	
41 4,4'-DDE	246		5.984					ND	
42 4,4'-DDT	235		6.253					ND	
S 43 TPAH	1		0.000					ND	

Reagents:

MS-SIM IS_00028

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8552.D

Injection Date: 19-Nov-2016 07:55:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: MB 280-351615/1-A

Worklist Smp#: 3

Client ID:

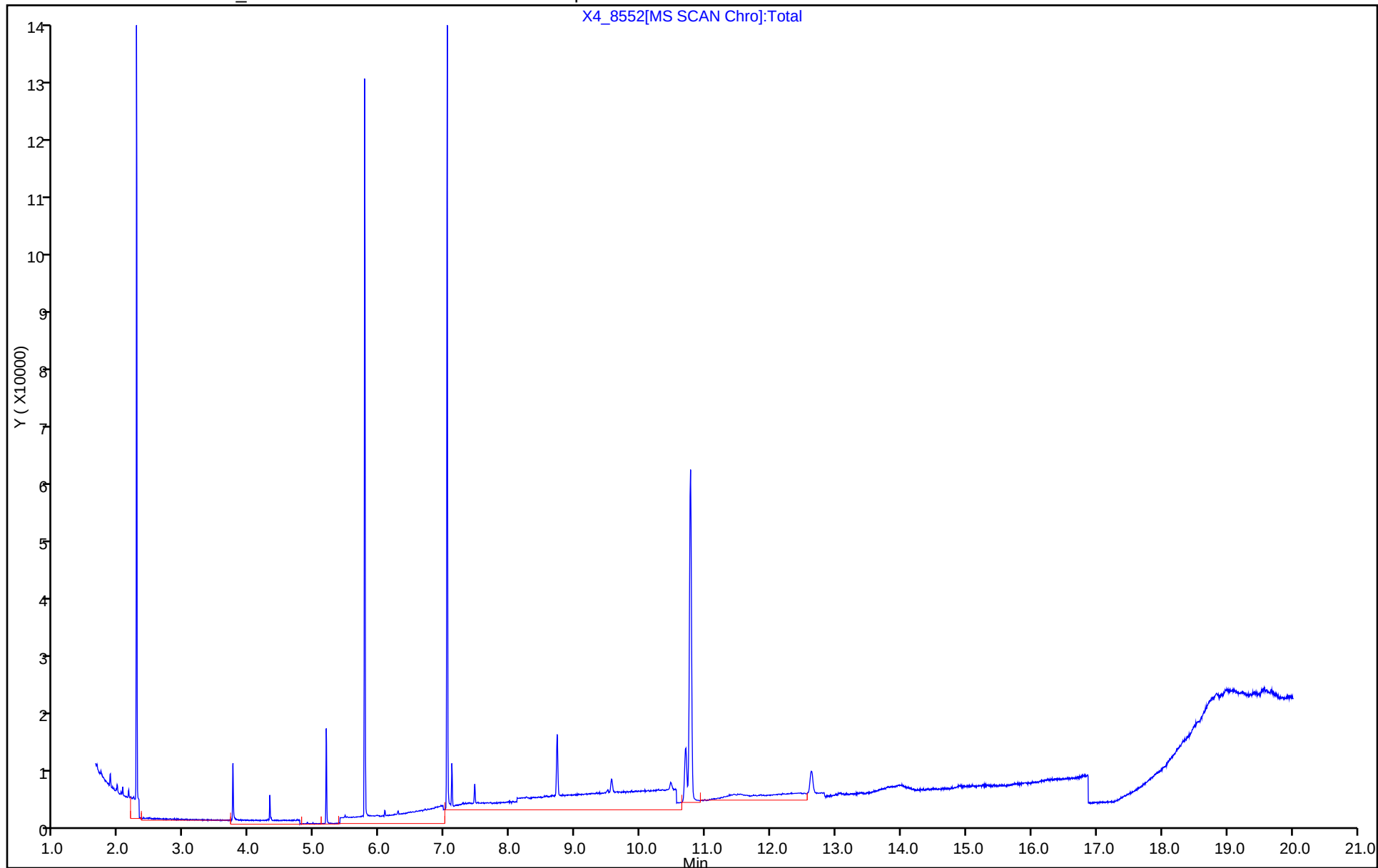
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8552.D
Lims ID: MB 280-351615/1-A
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2016 07:55:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: mb280-351615_1-a
Operator ID: VASQUEZK Instrument ID: SMS_X4
Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 : Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:46:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	125.0	89.5	71.57
\$ 5 2-Fluorobiphenyl	125.0	78.4	62.74
\$ 6 Terphenyl-d14	125.0	102.2	81.75

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-351615/2-A
 Matrix: Water Lab File ID: X4_8553.D
 Analysis Method: 8270D SIM Date Collected: _____
 Extract. Method: 3510C Date Extracted: 11/15/2016 16:58
 Sample wt/vol: 250 (mL) Date Analyzed: 11/19/2016 08:21
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 352243 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.801		0.10	0.040	0.0042
208-96-8	Acenaphthylene	0.769		0.10	0.040	0.0051
120-12-7	Anthracene	0.848		0.10	0.040	0.0056
56-55-3	Benzo[a]anthracene	0.851		0.10	0.012	0.0042
205-99-2	Benzo[b]fluoranthene	0.871		0.10	0.012	0.0031
207-08-9	Benzo[k]fluoranthene	0.860		0.10	0.012	0.0063
191-24-2	Benzo[g,h,i]perylene	0.912		0.10	0.012	0.0062
50-32-8	Benzo[a]pyrene	0.877		0.10	0.012	0.0069
218-01-9	Chrysene	0.907		0.10	0.012	0.0033
53-70-3	Dibenz(a,h)anthracene	0.973	M	0.10	0.012	0.0041
206-44-0	Fluoranthene	0.906		0.10	0.012	0.0048
86-73-7	Fluorene	0.881		0.10	0.040	0.0055
193-39-5	Indeno[1,2,3-cd]pyrene	0.946		0.10	0.040	0.0045
91-20-3	Naphthalene	0.729		0.10	0.012	0.0080
85-01-8	Phenanthrene	0.858		0.10	0.020	0.0093
129-00-0	Pyrene	0.876		0.10	0.020	0.0061

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	68		53-106
1718-51-0	Terphenyl-d14 (Surr)	86		58-132
4165-60-0	Nitrobenzene-d5 (Surr)	76		55-111

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8553.D

Lims ID: LCS 280-351615/2-A

Client ID:

Sample Type: LCS

Inject. Date: 19-Nov-2016 08:21:30

ALS Bottle#:

4

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Sample Info: lcs280-351615_2-a

Operator ID: VASQUEZK

Instrument ID:

SMS_X4

Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m

Limit Group: MSSV - 8270C-SIM

Last Update: 22-Nov-2016 10:59:40

Calib Date:

05-Oct-2016 14:12:30

Integrator: RTE

ID Type:

RT Order ID

Quant Method: Internal Standard

Quant By:

Initial Calibration

Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D

Column 1 :

Det: MS SCAN

Process Host: XAWRK034

First Level Reviewer: vasquezk

Date:

22-Nov-2016 10:49:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 Acenaphthene-d10	164	5.765	5.772	-0.007	98	51396	600.0	600.0	
* 2 Phenanthrene-d10	188	7.028	7.034	-0.006	100	99316	600.0	600.0	
* 3 Chrysene-d12	240	10.760	10.768	-0.008	98	105364	600.0	600.0	
\$ 4 Nitrobenzene-d5	82	3.742	3.742	0.000	98	5999	125.0	95.4	
\$ 5 2-Fluorobiphenyl	172	5.177	5.177	0.000	100	10189	125.0	84.5	
\$ 6 Terphenyl-d14	244	8.720	8.725	-0.005	97	13486	125.0	107.4	
8 N-Nitrosodimethylamine	42	1.761	1.756	0.005	87	3381	225.0	112.0	
7 1,4-Dioxane	88		1.762				ND	ND	
9 Naphthalene	128	4.330	4.330	0.000	100	26865	225.0	182.3	
10 2-Methylnaphthalene	142	4.887	4.887	0.000	98	17080	225.0	178.4	
11 1-Methylnaphthalene	142	4.972	4.973	-0.001	98	16592	225.0	174.6	
12 Dimethyl phthalate	163	5.495	5.495	0.000	100	27137	225.0	231.9	
13 Acenaphthylene	152	5.651	5.651	0.000	100	29658	225.0	192.2	
14 Acenaphthene	153	5.793	5.793	0.000	99	18771	225.0	200.3	
15 Dibenzofuran	168	5.935	5.942	-0.007	97	29392	225.0	211.8	
16 Diethyl phthalate	149	6.073	6.074	-0.001	100	29722	225.0	255.7	
17 Fluorene	166	6.223	6.230	-0.007	98	24613	225.0	220.4	
18 N-Nitrosodiphenylamine	169	6.305	6.311	-0.006	99	18930	225.0	226.7	
19 Phenanthrene	178	7.050	7.056	-0.006	100	39313	225.0	214.4	
20 Anthracene	178	7.093	7.099	-0.006	100	40375	225.0	212.1	
21 Di-n-butyl phthalate	149	7.451	7.457	-0.006	100	57204	225.0	244.4	
22 Fluoranthene	202	8.248	8.253	-0.005	100	48159	225.0	226.5	
23 Pyrene	202	8.557	8.562	-0.005	100	49623	225.0	219.0	
24 Butyl benzyl phthalate	149	9.490	9.501	-0.011	100	25000	225.0	209.1	
25 Bis(2-ethylhexyl) phthalat	149	10.688	10.696	-0.008	97	48304	225.0	284.8	
26 Benzo[a]anthracene	228	10.728	10.744	-0.016	78	46816	225.0	212.8	
27 Chrysene	228	10.815	10.831	-0.016	99	46169	225.0	226.9	
28 Di-n-octyl phthalate	149	12.494	12.510	-0.016	100	60610	225.0	202.7	
29 Benzo[b]fluoranthene	252	13.673	13.695	-0.022	99	48677	225.0	217.7	
30 Benzo[k]fluoranthene	252	13.754	13.773	-0.019	98	49214	225.0	215.0	
31 Benzo[a]pyrene	252	14.697	14.708	-0.011	98	48061	225.0	219.3	
32 Indeno[1,2,3-cd]pyrene	276	18.088	18.096	-0.008	95	50088	225.0	236.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
33 Dibenz(a,h)anthracene	278	18.136	18.148	-0.012	92	49641	225.0	243.3	M
34 Benzo[g,h,i]perylene	276	18.547	18.554	-0.007	95	52206	225.0	228.1	
36 Pentachlorophenol	266		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MS-SIM IS_00028

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8553.D

Injection Date: 19-Nov-2016 08:21:30

Instrument ID: SMS_X4

Operator ID: VASQUEZK

Lims ID: LCS 280-351615/2-A

Worklist Smp#: 4

Client ID:

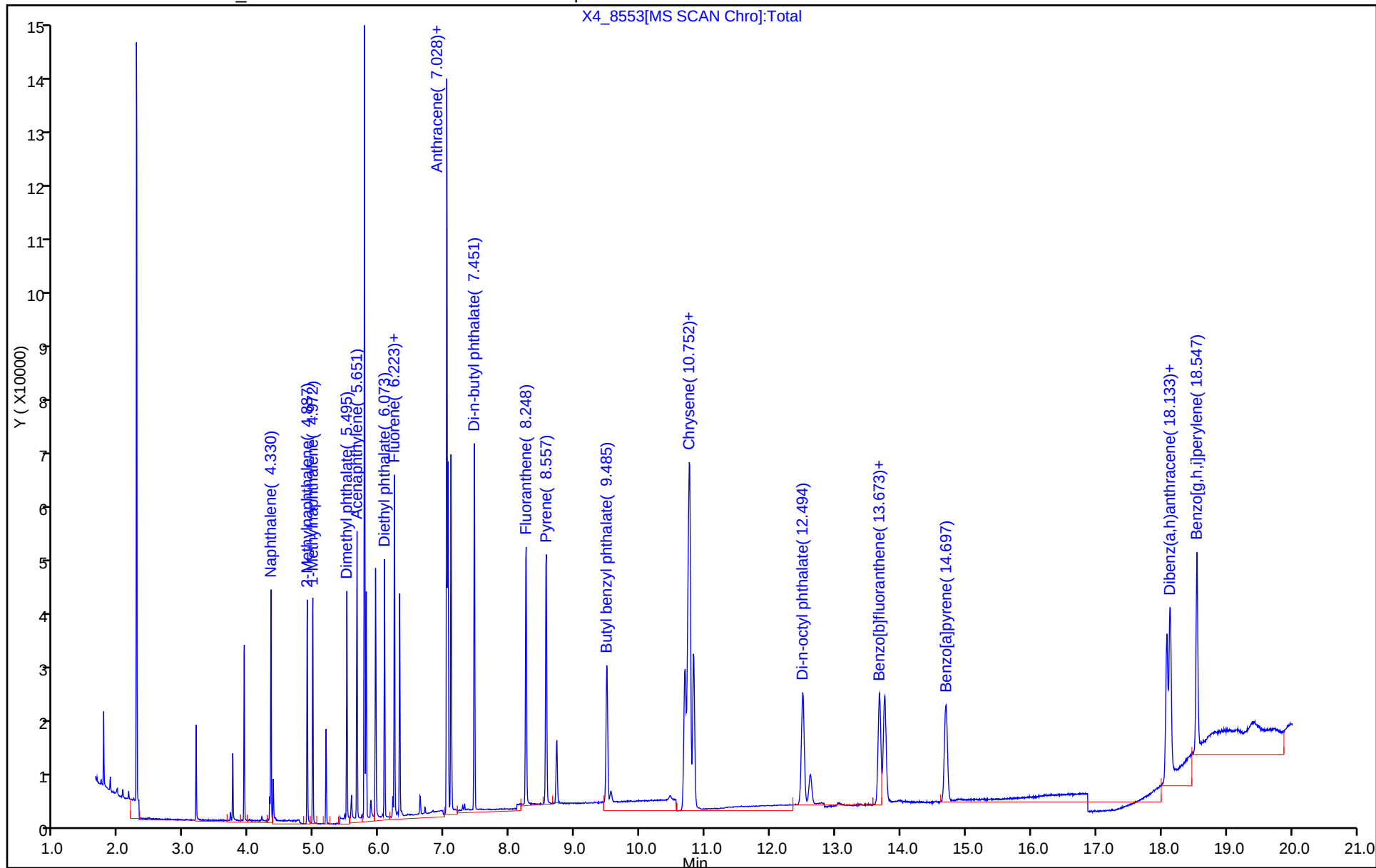
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8553.D
Lims ID: LCS 280-351615/2-A
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2016 08:21:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: lcs280-351615_2-a
Operator ID: VASQUEZK Instrument ID: SMS_X4
Method: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\SMSX4_SIMX.m
Limit Group: MSSV - 8270C-SIM
Last Update: 22-Nov-2016 10:59:40 Calib Date: 05-Oct-2016 14:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SMS_X4\20161004-51519.b\X4_7797.D
Column 1 : Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: vasquezk

Date: 22-Nov-2016 10:49:16

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Nitrobenzene-d5	125.0	95.4	76.32
\$ 5 2-Fluorobiphenyl	125.0	84.5	67.60
\$ 6 Terphenyl-d14	125.0	107.4	85.92

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8553.D

Injection Date: 19-Nov-2016 08:21:30

Instrument ID: SMS_X4

Lims ID: LCS 280-351615/2-A

Client ID:

Operator ID: VASQUEZK

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: SMSX4_SIMX

Limit Group:

MSSV - 8270C-SIM

Column:

Detector

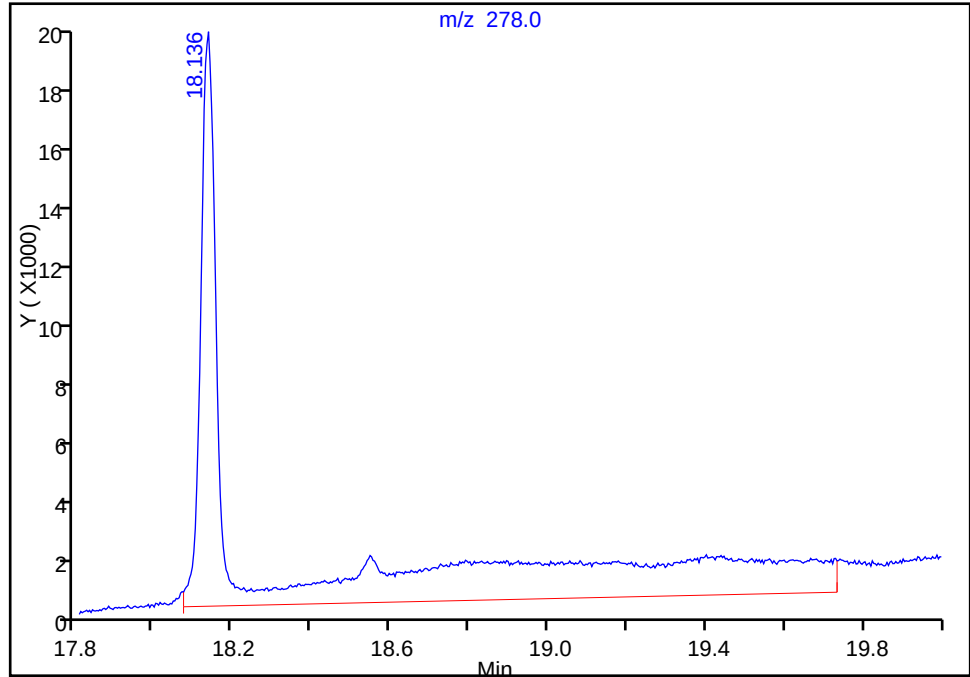
MS SCAN

33 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

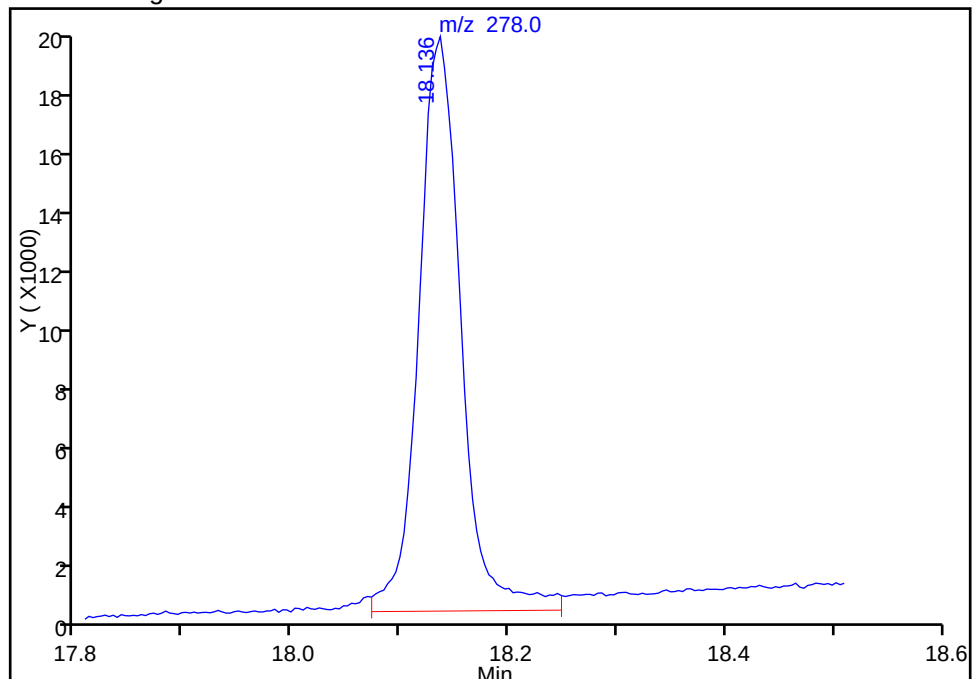
RT: 18.14
Area: 138454
Amount: 678.6744
Amount Units: ng/ml

Processing Integration Results



RT: 18.14
Area: 49641
Amount: 243.3305
Amount Units: ng/ml

Manual Integration Results



Reviewer: vasquezk, 22-Nov-2016 10:49:16

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b\X4_8553.D

Injection Date: 19-Nov-2016 08:21:30

Instrument ID: SMS_X4

Lims ID: LCS 280-351615/2-A

Client ID:

Operator ID: VASQUEZK

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: SMSX4_SIMX

Limit Group: MSSV - 8270C-SIM

Column:

Detector

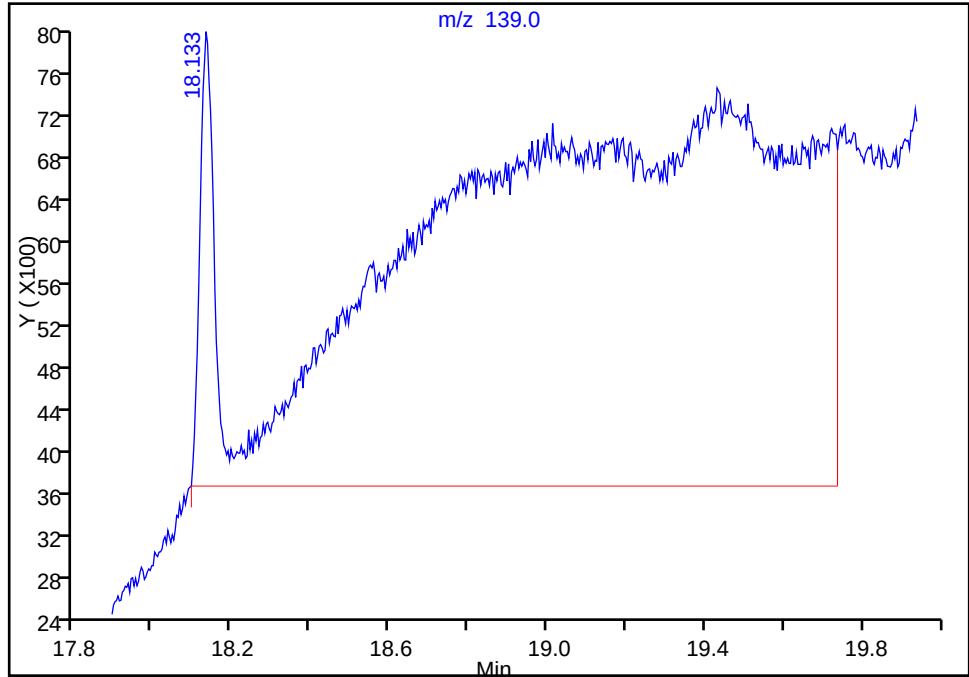
MS SCAN

33 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 2

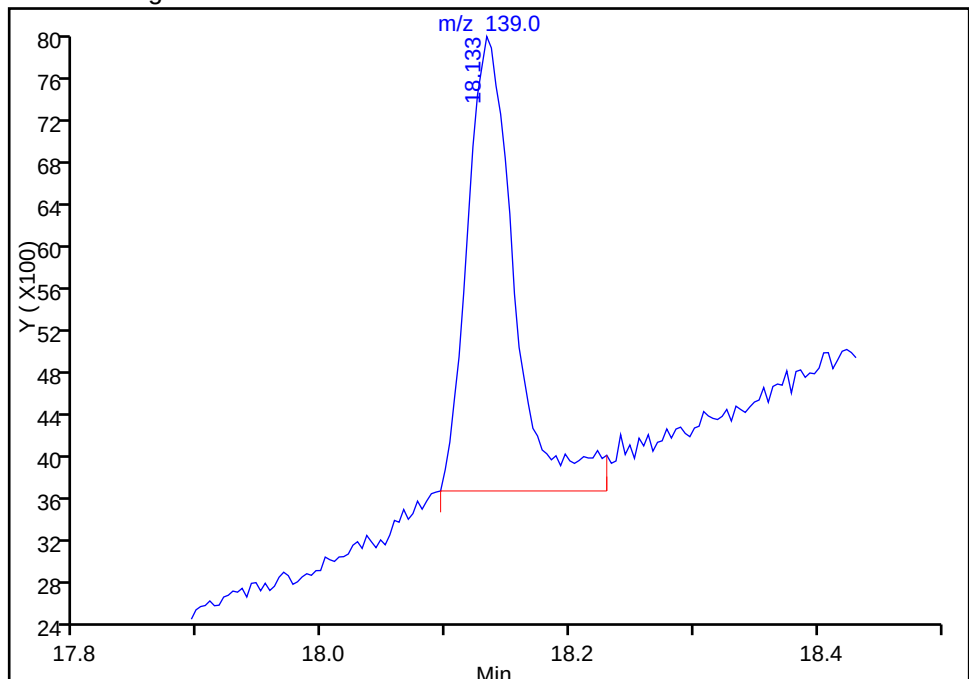
RT: 18.13
Area: 246380
Amount: 678.6744
Amount Units: ng/ml

Processing Integration Results



RT: 18.13
Area: 11373
Amount: 243.3305
Amount Units: ng/ml

Manual Integration Results



Reviewer: vasquezk, 22-Nov-2016 10:49:16

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SMS_X4Start Date: 10/05/2016 10:24Analysis Batch Number: 344978End Date: 10/05/2016 20:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-344978/1		10/05/2016 10:24	1	X4_7789.D	Rxi-5Sil MS 0.25 (mm)
STD0020 280-344978/2 IC		10/05/2016 11:07	1	X4_7790.D	Rxi-5Sil MS 0.25 (mm)
STD0100 280-344978/3 IC		10/05/2016 11:34	1	X4_7791.D	Rxi-5Sil MS 0.25 (mm)
STD0300 280-344978/4 IC		10/05/2016 12:00	1	X4_7792.D	Rxi-5Sil MS 0.25 (mm)
ICIS 280-344978/5		10/05/2016 12:27	1	X4_7793.D	Rxi-5Sil MS 0.25 (mm)
STD1200 280-344978/6 IC		10/05/2016 12:53	1	X4_7794.D	Rxi-5Sil MS 0.25 (mm)
STD2500 280-344978/7 IC		10/05/2016 13:20	1	X4_7795.D	Rxi-5Sil MS 0.25 (mm)
STD5000 280-344978/8 IC		10/05/2016 13:46	1	X4_7796.D	Rxi-5Sil MS 0.25 (mm)
STD10000 280-344978/9 IC		10/05/2016 14:12	1	X4_7797.D	Rxi-5Sil MS 0.25 (mm)
ICV 280-344978/10		10/05/2016 14:39	1	X4_7798.D	Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 15:25	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 15:51	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 16:17	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 16:44	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 17:10	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 17:36	5		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 18:03	5		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 18:29	10		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 18:55	20		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 19:22	40		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 19:48	5		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 20:14	4		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		10/05/2016 20:40	5		Rxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SMS_X4Start Date: 11/19/2016 07:02Analysis Batch Number: 352243End Date: 11/19/2016 17:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-352243/1		11/19/2016 07:02	1	X4_8550.D	Rxi-5Sil MS 0.25 (mm)
CCV 280-352243/2		11/19/2016 07:21	1	X4_8551.D	Rxi-5Sil MS 0.25 (mm)
MB 280-351615/1-A		11/19/2016 07:55	1	X4_8552.D	Rxi-5Sil MS 0.25 (mm)
LCS 280-351615/2-A		11/19/2016 08:21	1	X4_8553.D	Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 09:00	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 09:26	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 09:52	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 10:19	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 10:45	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 11:11	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 11:37	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 12:04	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 12:30	1		Rxi-5Sil MS 0.25 (mm)
280-90775-1		11/19/2016 12:56	1	X4_8563.D	Rxi-5Sil MS 0.25 (mm)
280-90775-2		11/19/2016 13:23	1	X4_8564.D	Rxi-5Sil MS 0.25 (mm)
280-90775-3		11/19/2016 13:49	1	X4_8565.D	Rxi-5Sil MS 0.25 (mm)
280-90775-4		11/19/2016 14:15	1	X4_8566.D	Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 14:42	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 15:08	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 15:35	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 16:01	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 16:28	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 16:55	1		Rxi-5Sil MS 0.25 (mm)
ZZZZZ		11/19/2016 17:21	1		Rxi-5Sil MS 0.25 (mm)
CCVC 280-352243/25		11/19/2016 17:47	1	X4_8574.D	Rxi-5Sil MS 0.25 (mm)

GC/MS Semivolatile Data Review Checklist-CCV and Tune

LIMS Batch Number: 352243	Worklist #: 53341	Instrument ID: X4 111916
Analyst/1 st Reviewer: Key	Method (circle): 625 8270C 8270D	Circle: Full Scan SIM BP LL SIM
Date: 11/19/16		
QC Type (circle): Standard DOD Q4 DoD Q5	QAPP	Other

Review Items	Yes	No	NA	2 nd Rev	If No, why is data reportable? (List NCM #)
A. Tune/Calibration Verification					
1. Did DFTPP meet tune criteria? If SIM, did the PFTBA Tune check meet ion ratio criteria?	/			/	
2. Are the Benzidine and PCP tailing ≤ 2 ? (8270D/DoD), Benzidine tailing ≤ 3 and PCP tailing ≤ 5 ? (8270C)	/			/	
3. Is the DDT degradation $\leq 20\%$	/			/	
4. Were all standards injected within 12 hr of DFTPP? (or 24 hrs for 625)?	/			/	
5. Was the correct ICAL used for quantitation? Date & Instrument ID verified? (Check both Chrom and TALS)	/			/	
6. Do the RFs meet method minimum criteria? (8270D/625) Are the RFs for SPCCs >0.050 ? (8270C)	/			/	
7. Is the %D (difference or drift) 8270C: $\leq 20\%$ for all CCCs? all other analytes within 35%, or 55% (poor performers) 8270D: %D $\leq 20\%$ for all analytes, at least 80% of compounds meet criteria?	/			/	(8270C: %D high, samples ND?) (8270D: $<20\%$ of cmpds fail criteria & for failed cmpds RL std verifies sensitivity for NDs?) List Compounds outside criteria:
8. For any compound $> 20\%$ D (low), was RL standard analyzed and detected? (8270D)			-	NA	NDNA NTC
9. NOTE: For any compounds $> 20\%$ D (high or low), detects will be flagged as "EST" & narrated. (8270D)			-	NA	Must be done in consultation with client.
10. Are the internal standard responses within limits? (between -50% and +100% of the mid-level ICAL standard)	/			/	
11. Are the internal standard retention times within method limits? (± 30 sec of ICAL mid pt for 8270C/D)	/			/	
12. Benzo(b & k)fluoranthene: height of the valley between must be less than 50% of the average of the two peak heights?	/			/	
13. Elution order checked isomeric pairs and coeluters?					(Chrom: View/Documents/Methods/Isomers)
• aniline / bis(2-chloroethyl)ether			-	NA	
• N-nitrosodiphenylamine/diphenylamine			-	NA	
• 1,3-, 1,4-, 1,2-dichlorobenzene			-	NA	
• benzyl alcohol / 2-methylphenol / 3/4-methylphenol			-	NA	
• 2 & 1-methylnaphthalene	/			/	
• 2,4-dimethylphenol / 3,5-dimethylphenol			-	NA	
• 2,4,6- and 2,4,5-trichlorophenol			-	NA	
• phenanthrene / anthracene	/			/	

 Phuriga
 11/23/2016

A. Tune/Calibration Verification (cont.)					
Review Items	Yes	No	NA	2 nd Rev	If No, why is data reportable? (List NCM #)
• fluoranthene / pyrene	✓			✓	
• benzo(a)anthracene / chrysene	✓			✓	
• benzo(e)pyrene/benzo(a)pyrene	✓			✓	
• bis(2-ethylhexyl)/di-n-octyl phthalate	✓			✓	
• benzo(b)fluoranthene / benzo(k)fluoranthene	✓			✓	
• Indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene	✓			✓	
• safrole/1-chloronaphthalene			✓	✓	
• 1-/2-naphthylamine			✓	✓	
• 1 and 2-chloronaphthalene			✓	✓	
• 2,4,6 and 2,4,5-tribromophenol			✓	✓	
14. If any criteria from items above were not met, was a NCM generated?			✓	✓	
15. Were manual integrations performed correctly and properly documented? (dated, initialed and reason given) 2nd review of all MIs required	✓			✓	

Comments:

[Handwritten signature] KSV 11/19/16

2nd Reviewer: *[Handwritten signature]*

Review Date: 11/19/16

Phuriya
11/23/2016

Report Date: 22-Nov-2016 11:00:30

Chrom Revision: 2.2 14-Nov-2016 08:15:16

Page: 1

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 111916

Worklist Num: 53341

Instrument: SMS_X4

Method: SMSX4_SIMX

Batch Directory: \\ChromNA\Denver\ChromData\SMS_X4\20161119-53341.b

Analysis Type: SemiVOA

Creator: Vasquez, Karla G

Inj Volume: 1.00

Inj Vol Units: ul

Run Reagents:

MS-SIM IS_00028, Amount Added: 20.00, Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Oil Factor	Client ID	Fract
DFTPP	280-0053341-001	DFTPP	19-Nov-2016 07:02:30	X4_8550.D	1	1.0		sv
CCV	280-0053341-002	CCV	19-Nov-2016 07:21:30	X4_8551.D	2	1.0		sv
MB 280-351615/1-A	280-0053341-003	MB	19-Nov-2016 07:55:30	X4_8552.D	3	1.0		sv
LCS 280-351615/2-A	280-0053341-004	LCS	19-Nov-2016 08:21:30	X4_8553.D	4	1.0		sv
280-90737-H-1-A	280-0053341-005	Client	19-Nov-2016 09:00:30	X4_8554.D	5	1.0	FWGmw-002-110816-GW	sv
280-90737-H-2-A	280-0053341-006	Client	19-Nov-2016 09:26:30	X4_8555.D	6	1.0	FWGmw-501-110816-GW	sv
280-90820-D-7-A	280-0053341-007	Client	19-Nov-2016 09:52:30	X4_8556.D	7	1.0	SS31-MW05D(110816)	sv
280-90820-B-7-A MS	280-0053341-008	MS	19-Nov-2016 10:19:30	X4_8557.D	8	1.0	SS31-MW05DMS(110816)	sv
280-90820-C-7-A MSD	280-0053341-009	MSD	19-Nov-2016 10:45:30	X4_8558.D	9	1.0	SS31-MW05DMSD(110816)	sv
280-90820-C-8-A	280-0053341-010	Client	19-Nov-2016 11:11:30	X4_8559.D	10	1.0	SS31-MW05S(110816)	sv
280-90820-B-8-A MS	280-0053341-011	MS	19-Nov-2016 11:37:30	X4_8560.D	11	1.0	SS31-MW05SMS(110816)	sv
280-90820-D-8-A MSD	280-0053341-012	MSD	19-Nov-2016 12:04:30	X4_8561.D	12	1.0	SS31-MW05SMSD(110816)	sv
280-90820-B-12-A	280-0053341-013	Client	19-Nov-2016 12:30:30	X4_8562.D	13	1.0	FB-16(110816)	sv
280-90775-D-1-A	280-0053341-014	Client	19-Nov-2016 12:56:30	X4_8563.D	14	1.0	CBLmw-001-110816-GW	sv
280-90775-D-2-A	280-0053341-015	Client	19-Nov-2016 13:23:30	X4_8564.D	15	1.0	CBLmw-002-110816-GW	sv
280-90775-C-3-A	280-0053341-016	Client	19-Nov-2016 13:49:30	X4_8565.D	16	1.0	CBLmw-003-110816-GW	sv
280-90775-D-4-A	280-0053341-017	Client	19-Nov-2016 14:15:30	X4_8566.D	17	1.0	CBLmw-004-110816-GW	sv
280-90785-C-3-A	280-0053341-018	Client	19-Nov-2016 14:42:30	X4_8567.D	18	1.0	ULCPmw-006-110816-GW	sv
280-90851-U-1-A	280-0053341-019	Client	19-Nov-2016 15:08:30	X4_8568.D	19	1.0	DET-3-110816-GW	sv
280-90851-S-1-A MS	280-0053341-020	MS	19-Nov-2016 15:35:30	X4_8569.D	20	1.0	DET-3MS-110816-GW	sv
280-90851-T-1-A MSD	280-0053341-021	MSD	19-Nov-2016 16:01:30	X4_8570.D	21	1.0	DET-3MSD-110816-GW	sv
280-90851-I-3-A	280-0053341-022	Client	19-Nov-2016 16:28:30	X4_8571.D	22	1.0	DET-600-110816-GW	sv
280-90853-C-4-A	280-0053341-023	Client	19-Nov-2016 16:55:30	X4_8572.D	23	1.0	FB-17(110816)	sv
280-90884-B-12-A	280-0053341-024	Client	19-Nov-2016 17:21:30	X4_8573.D	24	1.0	1754-MW-3(110816)	sv
CCVC	280-0053341-025	CCVC	19-Nov-2016 17:47:30	X4_8574.D	25	1.0		sv

TUNE: 0702
CHROM WL: 53341
LIMS BATCH: 352243METHOD(s): B270 SIM
SOLVENT LOT: 1387164
PIPETTE ID(s): SV-26

DAILY MAINTENANCE INCLUDED:

- ☐ REPLACED SEPTA
☐ REPLACED LINER
☒ REPLACED GOLD SEAL
☐ REPLACED FERRULE
☐ CLIPPED COLUMN

Analyzed
 11/30/2016

GC/MS Semivolatiles Initial Calibration Data Review Checklist

LIMS Batch Number: 344978 Worklist: 51519 ICIS/ICIV Line # 5/10 2nd Day ICV Line # NA Instrument ID: 100516
 Analyst/1st Reviewer: KJN Method (circle): 625 8270C 8270D Circle: Full Scan SIM BP LLSIM
 Date: 100606
 QC Type (circle): standard DoD Q4 DoD Q5 QAPP _____ Other _____

Review Items	Yes	No	NA	2 nd Rev	If No, why is data reportable?
A. Tune/Calibration Verification					
1. Did DFTPP meet tune criteria? If SIM, did the PFTBA Tune check meet ion ratio criteria?	✓			✓	
2. Are the Benzidine and PCP tailing ≤ 2? (8270D/DoD) Benzidine tailing ≤ 3 and PCP tailing ≤ 5? (8270C)	✓			✓	
3. Is the DDT degradation ≤ 20%	✓			✓	
4. Were all standards injected within 12 hr of DFTPP? (or 24 hrs for 625)?	✓			✓	
5. Were ≥ 5 levels of each compound and surrogate analyzed?	✓			✓	
6. At least 6 consecutive points used for quadratic curves?			✓	NA	
7. Was low level standard at or below RL?	✓			✓	
8. If calibration points removed, were reasons for removal documented? Did sufficient calibration points remain? (removal from middle of curve not allowed)	✓			✓	(e.g., some points <RL removed)
9. Does the low level standard have enough sensitivity to produce at least 5-10 scans across the peak, and all secondary ions are present?	✓			✓	
10. Do the average RFs meet minimum RF requirements? (625 – not method defined) (8270C-SPCCs ≥ 0.05) (8270D- all cmpds have min RFs defined in method/SOP)	✓			✓	
10. Did the calibration %RSD meet method requirements? (625: ≤ 35% all cmpds) (8270C: ≤ 30% for CCCs & ≤ 15% for all other cmpds/surrogates) (8270D: ≤ 20% for all cmpds/surrogates)	✓			✓	
11. Was a linear or quadratic regression fit used for analytes that exceeded the %RSD requirements?	✓			✓	
12. If regression fit used, r^2 ≥ 0.990?	✓			✓	
13. Does the low point of a linear regression fit meet the ±30% read-back criteria? (8270D)	✓			✓	
14. For quadratic – evaluate curve fitting errors: Does each point fall within criteria when 'read-back' against the curve? (TA requirement – CA-Q-S-005; recommended limits ±30% low point & ±20% all other points) (Chrom Report - Details of Calibration per Analyte)			✓	NA	
15. Is the concentration intercept < RL for each cmpd? ("X" Intercept in Chrom)	✓			✓	
16. Were manual integrations performed correctly and properly documented (Dated, Initialed and reason given) for all calibration points? 2 nd review of all MIs required	✓			✓	
17. Was the high point checked for detector saturation?	✓			✓	
18. Do the relative retention times for each analyte in each standard agree within +/-0.06 units (abs RT +/-0.5 min)	✓			✓	
19. Benzo(b & k)fluoranthene: height of the valley between must be less than 50% of the average of the two peak heights?	✓			✓	

Phuripat
11/25/2016

Review Items	Yes	No	NA	2 nd Rev	If No, why is data reportable?
20. Elution order checked Isomeric pairs and coeluters?					Chrom: View/Documents/Methods/Isomers)
• aniline / bis(2-chloroethyl)ether			—	NA	
• N-nitrosodiphenylamine/diphenylamine			—	—	
• 1,3-, 1,4-, 1,2-dichlorobenzene			—	—	
• benzyl alcohol / 2-methylphenol / 3/4-methylphenol			—	—	
• 2,4-dimethylphenol / 3,5-dimethylphenol			—	—	
• 2 & 1 - methylnaphthalene	—			—	
• 2,4,6- and 2,4,5-trichlorophenol			—	NA	
• phenanthrene / anthracene	—			—	
• fluoranthene / pyrene	—			—	
• benzo(a)anthracene / chrysene	—			—	
• bis(2-ethylhexyl)/di-n-octyl phthalate	—			—	
• benzo(b)fluoranthene / benzo(k)fluoranthene	—			—	
• indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene	—			—	
• safrole/1-chloronaphthalene			—	NA	
• 1-/2-naphthylamine			—	—	
• 1- and 2-chloronaphthalene			—	—	
• 2,4,6- and 2,4,5-tribromophenol			—	—	
• Benzo(a)pyrene / benzo(a)pyrene			—	—	
21. Was the ICV within required criteria? 625 = QCS method defined/Tables 8270C = $\pm 35\%$ or $\pm 55\%$ of expected for poor performers; 8270D = $\pm 20\%$, poor performers $< 50\%$ DoD = $\pm 20\%$ QAPP/Other	—			—	
22. If any criteria from Items above were not met, was NCM generated?			—	NA	NCM #:
23. Were manual integrations for ICV performed correctly and properly documented? (dated, initialed and reason given; 2nd review of all MIs required)	—			—	
24. Are all files and QC linked and processed correctly?	—			—	☐ Files linked properly to calibration levels? ☐ All points are in the most recent active calibration event? [Calibration Events - Flx ICAL linkage if needed] ☐ Runs linked to DFTPP? [QC links] ☐ Checklist & run log scanned, attached & assigned properly?
25. Is the ICAL locked in TALS and Chrom?	—			—	

Comments:

2nd Reviewer: Alex HoyerReview Date: 10/07/16

Amiga
11/23/2016

Report Date: 06-Oct-2016 09:17:44

Chrom Revision: 2.2 08-Sep-2016 14:45:50

Page: 1

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 100516

Instrument: SMS_X4

Batch Directory: \\ChromNA\\Denver\\ChromData\\SMS_X4\\20161004-51519.b

Analysis Type: SemiVOA

Inj Volume: 1.00

Run Reagents:

MS-SIM IS_00028, Amount Added: 20.00 , Units: uL

Worklist Num: 51519

Method: SMSX4_SIMX

Creator: Vasquez, Karla G

Inj Vol Units: uL

Lab ID	Worklist ID	Sample Type	Cal Lvl	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
DFTPP	280-0051519-001	DFTPP	0	05-Oct-2016 10:24:30	X4_7789.D	1	1.0		SV
STD0020	280-0051519-002	IC	1	05-Oct-2016 11:07:30	X4_7790.D	2	1.0		SV
STD0100	280-0051519-003	IC	2	05-Oct-2016 11:34:30	X4_7791.D	3	1.0		SV
STD0300	280-0051519-004	IC	3	05-Oct-2016 12:00:30	X4_7792.D	4	1.0		SV
ICIS STD0600	280-0051519-005	ICIS	4	05-Oct-2016 12:27:30	X4_7793.D	5	1.0		SV
STD1200	280-0051519-006	IC	5	05-Oct-2016 12:53:30	X4_7794.D	6	1.0		SV
STD2500	280-0051519-007	IC	6	05-Oct-2016 13:20:30	X4_7795.D	7	1.0		SV
STD5000	280-0051519-008	IC	7	05-Oct-2016 13:46:30	X4_7796.D	8	1.0		SV
STD10000	280-0051519-009	IC	8	05-Oct-2016 14:12:30	X4_7797.D	9	1.0		SV
ICV	280-0051519-010	ICV	0	05-Oct-2016 14:39:30	X4_7798.D	10	1.0		SV
MB 280-344817/1-A	280-0051519-011	MB	0	05-Oct-2016 15:25:30	X4_7799.D	11	1.0		SV
LCS 280-344817/2-A	280-0051519-012	LCS	0	05-Oct-2016 15:51:30	X4_7800.D	12	1.0		SV
280-88514-A-3-A	280-0051519-013	Client	0	05-Oct-2016 16:17:30	X4_7801.D	13	1.0	4F08BC07ACD801	SV
280-88514-A-3-B MB	280-0051519-014	MS	0	05-Oct-2016 16:44:30	X4_7802.D	14	1.0		SV
280-88514-A-3-C MSD	280-0051519-015	MSD	0	05-Oct-2016 17:10:30	X4_7803.D	15	1.0		SV
280-88514-A-4-A	280-0051519-016	Client	0	05-Oct-2016 17:36:30	X4_7804.D	16	5.0	4F02BC42ACD801	SV
280-88521-A-2-A	280-0051519-017	Client	0	05-Oct-2016 18:03:30	X4_7805.D	17	5.0	4F08BC08ACP802	SV
280-88521-A-4-A	280-0051519-018	Client	0	05-Oct-2016 18:29:30	X4_7806.D	18	10.0	4F08BC04ACP802	SV
280-88558-A-2-A	280-0051519-019	Client	0	05-Oct-2016 18:55:30	X4_7807.D	19	20.0	4F01BH34AGP802	SV
280-88558-A-3-A	280-0051519-020	Client	0	05-Oct-2016 19:22:30	X4_7808.D	20	40.0	4F01BH33AGP802	SV
280-88558-A-8-A	280-0051519-021	Client	0	05-Oct-2016 19:48:30	X4_7809.D	21	5.0	4F05BC07ACP802	SV
280-88558-A-10-A	280-0051519-022	Client	0	05-Oct-2016 20:14:30	X4_7810.D	22	4.0	4F02BC41ACP802	SV
280-88701-A-8-B	280-0051519-023	Client	0	05-Oct-2016 20:40:30	X4_7811.D	23	5.0	4F02BC33ACP801	SV

TUNE: 1024
CHROM WL: 51519
LIMS BATCH: 344978METHOD(s): 8270 SIM
SOLVENT LOT: 131181
PIPETTE ID(s): SV-15

DAILY MAINTENANCE INCLUDED:

- ☐ REPLACED SEPTA
☒ REPLACED LINER
☐ REPLACED GOLD SEAL
☐ REPLACED FERRULE
☐ CLIPPED COLUMN _____

Phonique
11/30/2016

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 351615 Batch Start Date: 11/15/16 16:58 Batch Analyst: Anderson, Brittney JBatch Method: 3510C Batch End Date: 11/17/16 11:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	8270 SIM Surr 00065
MB 280-351615/1		3510C, 8270D SIM		7 SU			250 mL	1 mL	0.25 mL
LCS 280-351615/2		3510C, 8270D SIM		7 SU			250 mL	1 mL	0.25 mL
280-90775-D-1	CBLmw-001-110916 -GW	3510C, 8270D SIM	T	5 SU	413.0 g	167.7 g	245.3 mL	1 mL	0.25 mL
280-90775-D-2	CBLmw-002-110916 -GW	3510C, 8270D SIM	T	5 SU	414.1 g	167.4 g	246.7 mL	1 mL	0.25 mL
280-90775-C-3	CBLmw-003-110916 -GW	3510C, 8270D SIM	T	5 SU	429.1 g	177.2 g	251.9 mL	1 mL	0.25 mL
280-90775-D-4	CBLmw-004-110916 -GW	3510C, 8270D SIM	T	5 SU	407.4 g	167.8 g	239.6 mL	1 mL	0.25 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8270BO-SIMLCS 00019					
MB 280-351615/1		3510C, 8270D SIM							
LCS 280-351615/2		3510C, 8270D SIM		0.25 mL					
280-90775-D-1	CBLmw-001-110916 -GW	3510C, 8270D SIM	T						
280-90775-D-2	CBLmw-002-110916 -GW	3510C, 8270D SIM	T						
280-90775-C-3	CBLmw-003-110916 -GW	3510C, 8270D SIM	T						
280-90775-D-4	CBLmw-004-110916 -GW	3510C, 8270D SIM	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 351615 Batch Start Date: 11/15/16 16:58 Batch Analyst: Anderson, Brittney JBatch Method: 3510C Batch End Date: 11/17/16 11:28

Batch Notes	
Balance ID	24750399
Batch Comment	DV-OP-0006/0007 H2O: S. Elga
Analyst ID - Concentration	MAV Jr, ACW
Final Concentrator Volume	5 mL
Na2SO4 ID	0000148788_00004
NaCl ID	161884
Oven, Bath or Block Temperature 1	B@84 Degrees C
Pipette ID	O
Prep Solvent ID	MeCl2_Cycl_00310
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	90 mL
Person's name who did the prep	BJA/RC
Analyst ID - Spike Analyst	BJA
Analyst ID - Spike Witness Analyst	Reviewer: RC
Sufficient volume for MS/MSD?	Yes
Uncorrected Temperature	84 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8082A_DOD5

Polychlorinated Biphenyls (PCBs) by
Gas Chromatography

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): CLP2 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	DCBP1 #
CBLmw-001-110916-G W	280-90775-1	20	59
CBLmw-002-110916-G W	280-90775-2	28	97
CBLmw-003-110916-G W	280-90775-3	50	107
CBLmw-004-110916-G W	280-90775-4	48	104
	MB 280-351619/1-A	59	113
	LCS 280-351619/2-A	45	100
	LCSD 280-351619/3-A	48	101

TCX = Tetrachloro-m-xylene (Surr)
DCBP = DCB Decachlorobiphenyl (Surr)

QC LIMITS
20-143
36-140

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 11291617.D

Lab ID: LCS 280-351619/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	0.200	0.162	81	46-129	
PCB-1260	0.200	0.204	102	45-134	

Column to be used to flag recovery and RPD values

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 11291618.D
 Lab ID: LCSD 280-351619/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	0.200	0.159	79	2	30	46-129	
PCB-1260	0.200	0.194	97	5	30	45-134	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: MB 280-351619/1-A
 Matrix: Water Date Extracted: 11/15/2016 18:06
 Lab File ID: (1) 11291616.D Lab File ID: (2) 11291616.D
 Date Analyzed: (1) 11/29/2016 16:21 Date Analyzed: (2) 11/29/2016 16:21
 Instrument ID: (1) SGC_P3 Instrument ID: (2) SGC_P3
 GC Column: (1) CLP2 ID: 0.32 (mm) GC Column: (2) CLP1 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-351619/2-A	11/29/2016 16:42	11/29/2016 16:42
	LCSD 280-351619/3-A	11/29/2016 17:04	11/29/2016 17:04
CBLmw-001-110916-GW	280-90775-1	11/29/2016 17:26	11/29/2016 17:26
CBLmw-002-110916-GW	280-90775-2	11/29/2016 17:47	11/29/2016 17:47
CBLmw-003-110916-GW	280-90775-3	11/29/2016 18:09	11/29/2016 18:09
CBLmw-004-110916-GW	280-90775-4	11/29/2016 18:31	11/29/2016 18:31

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Sample No.: STDL51660 280-345281/17 Date Analyzed: 10/08/2016 17:26
 Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm)
 Lab File ID (Standard): 10081617.D Heated Purge: (Y/N) N
 Calibration ID: 27247

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		278602349	1.85				
UPPER LIMIT		557204698	2.35				
LOWER LIMIT		139301175	1.35				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-345281/36		288872461	1.85				
ICV 280-345281/37		285261517	1.85				
ICV 280-345281/38		288901937	1.85				
ICV 280-345281/39		290304262	1.85				
ICV 280-345281/40		287551955	1.85				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Sample No.: STDL51660 280-345281/17 Date Analyzed: 10/08/2016 17:26
 Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm)
 Lab File ID (Standard): 10081617.D Heated Purge: (Y/N) N
 Calibration ID: 27248

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		263936559	1.67				
UPPER LIMIT		527873118	2.17				
LOWER LIMIT		131968280	1.17				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-345281/36		272622708	1.67				
ICV 280-345281/37		269570061	1.67				
ICV 280-345281/38		271849363	1.67				
ICV 280-345281/39		272928056	1.67				
ICV 280-345281/40		270831241	1.68				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Sample No.: CCVIS 280-353508/3 Date Analyzed: 11/29/2016 11:38
 Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm)
 Lab File ID (Standard): 11291603.D Heated Purge: (Y/N) N
 Calibration ID: 27255

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		299277280	1.86				
UPPER LIMIT		598554560	2.36				
LOWER LIMIT		149638640	1.36				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-353508/15		312072456	1.86				
MB 280-351619/1-A		295526992	1.86				
LCS 280-351619/2-A		301443542	1.86				
LCSD 280-351619/3-A		299607590	1.86				
280-90775-1	CBLmw-001-110916-GW	317283611	1.86				
280-90775-2	CBLmw-002-110916-GW	302395103	1.86				
280-90775-3	CBLmw-003-110916-GW	305621472	1.86				
280-90775-4	CBLmw-004-110916-GW	300464633	1.86				
CCV 280-353508/28		308118562	1.86				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Sample No.: CCVIS 280-353508/3 Date Analyzed: 11/29/2016 11:38
 Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm)
 Lab File ID (Standard): 11291603.D Heated Purge: (Y/N) N
 Calibration ID: 27256

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		231573995	1.68				
UPPER LIMIT		463147990	2.18				
LOWER LIMIT		115786998	1.18				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-353508/15		242260753	1.68				
MB 280-351619/1-A		230385469	1.68				
LCS 280-351619/2-A		236671528	1.68				
LCSD 280-351619/3-A		232214417	1.68				
280-90775-1	CBLmw-001-110916-GW	240787601	1.68				
280-90775-2	CBLmw-002-110916-GW	235498641	1.68				
280-90775-3	CBLmw-003-110916-GW	237086827	1.68				
280-90775-4	CBLmw-004-110916-GW	233281566	1.68				
CCV 280-353508/28		239255331	1.68				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-351619/2-A
 Instrument ID (1): SGC_P3 Instrument ID (2): SGC_P3
 Date Analyzed (1): 11/29/2016 16:42 Date Analyzed (2): 11/29/2016 16:42
 GC Column (1): CLP2 ID: 0.32 (mm) GC Column (2): CLP1 ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.62	3.37	3.87	0.150	0.162	42.8
		2	4.08	3.83	4.33	0.181		
		3	4.22	3.97	4.47	0.151		
		4	4.45	4.20	4.70	0.163		
		5	4.74	4.49	4.99	0.162		
	2	1	3.20	2.96	3.46	0.357	0.250	
		2	3.56	3.31	3.81	0.195		
		3	4.04	3.79	4.29	0.169		
		4	4.18	3.93	4.43	0.325		
		5	4.64	4.39	4.89	0.201		
PCB-1260	1	1	6.59	6.34	6.84	0.187	0.204	9.0
		2	7.05	6.80	7.30	0.179		
		3	7.58	7.33	7.83	0.218		
		4	7.94	7.69	8.19	0.218		
		5	8.44	8.20	8.70	0.216		
	2	1	6.13	5.88	6.38	0.218	0.223	
		2	6.86	6.62	7.12	0.238		
		3	7.36	7.11	7.61	0.237		
		4	7.79	7.55	8.05	0.212		
		5	8.18	7.93	8.43	0.208		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-351619/3-A
 Instrument ID (1): SGC_P3 Instrument ID (2): SGC_P3
 Date Analyzed (1): 11/29/2016 17:04 Date Analyzed (2): 11/29/2016 17:04
 GC Column (1): CLP2 ID: 0.32 (mm) GC Column (2): CLP1 ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.62	3.37	3.87	0.147	0.159	9.0
		2	4.07	3.83	4.33	0.173		
		3	4.22	3.97	4.47	0.155		
		4	4.45	4.20	4.70	0.159		
		5	4.74	4.49	4.99	0.160		
	2	1	3.20	2.96	3.46	0.193	0.174	
		2	3.56	3.31	3.81	0.166		
		3	4.03	3.79	4.29	0.158		
		4	4.18	3.93	4.43	0.167		
		5	4.63	4.39	4.89	0.185		
PCB-1260	1	1	6.58	6.34	6.84	0.173	0.194	1.1
		2	7.05	6.80	7.30	0.170		
		3	7.57	7.33	7.83	0.207		
		4	7.94	7.69	8.19	0.211		
		5	8.44	8.20	8.70	0.209		
	2	1	6.13	5.88	6.38	0.171	0.196	
		2	6.86	6.62	7.12	0.207		
		3	7.36	7.11	7.61	0.206		
		4	7.79	7.55	8.05	0.200		
		5	8.18	7.93	8.43	0.196		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-001-110916-GW Lab Sample ID: 280-90775-1
 Matrix: Water Lab File ID: 11291619.D
 Analysis Method: 8082A Date Collected: 11/09/2016 10:45
 Extraction Method: 3510C Date Extracted: 11/15/2016 20:18
 Sample wt/vol: 1049.6 (mL) Date Analyzed: 11/29/2016 17:26
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.095	U	0.14	0.095	0.040
11104-28-2	PCB-1221	0.095	U	0.14	0.095	0.040
11141-16-5	PCB-1232	0.095	U	0.14	0.095	0.040
53469-21-9	PCB-1242	0.095	U	0.14	0.095	0.040
12672-29-6	PCB-1248	0.095	U	0.14	0.095	0.040
11097-69-1	PCB-1254	0.095	U	0.14	0.095	0.040
11096-82-5	PCB-1260	0.095	U	0.14	0.095	0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	20		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	59		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291619.D
 Lims ID: 280-90775-B-1-A
 Client ID: CBLmw-001-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 17:26:10 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-B-1-A
 Misc. Info.: 280-0053650-019
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.857	1.859	-0.002	317283611	1000.0
2	1.680	1.682	-0.002	240787601	1000.0

RPD = 0.00

\$ 14 Tetrachloro-m-xylene

1	2.800	2.809	-0.009	103810903	25.1
2	2.740	2.739	0.001	14569052	3.95

RPD = 145.54

3 PCB-1221

1		3.023		ND
1		3.166		
1		3.206		
2		3.056		
2		3.186		
2		3.240		

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291619.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

7 PCB-1232

1	3.193				ND	
1	3.547					
1	4.020					
1	4.163					
1	4.620					
2	3.234					
2	3.620					
2	4.070					
2	4.214					
2	4.870					

1 PCB-1016

1	3.205				ND	
1	3.559					
1	4.035					
1	4.179					
1	4.635					
2	3.622					
2	4.075					
2	4.219					
2	4.449					
2	4.735					

10 PCB-1242

1	3.562				ND	
1	4.035					
1	4.178					
1	5.135					
1	5.158					
2	3.625					
2	4.078					
2	4.218					
2	5.188					
2	5.235					

4 PCB-1248

1	4.032				ND	
1	4.395					
1	4.635					
1	5.132					
1	5.159					
2	4.075					
2	4.739					
2	4.875					
2	5.189					
2	5.235					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291619.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.403				ND	
1	5.736					
1	5.890					
1	6.250					
1	6.866					
2	5.476					
2	5.893					
2	6.043					
2	6.343					
2	7.056					

12 PCB-1260

1	6.129				ND	
1	6.865					
1	7.359					
1	7.795					
1	8.182					
2	6.585					
2	7.049					
2	7.575					
2	7.942					
2	8.445					

5 PCB-1262

1	6.480				ND	
1	7.010					
1	7.340					
1	7.777					
1	8.163					
2	6.580					
2	7.177					
2	7.570					
2	7.937					
2	8.437					

13 PCB-1268

1	8.245				ND	
1	8.298					
1	8.572					
1	9.085					
1	9.498					
2	8.445					
2	8.505					
2	8.855					
2	9.288					
2	9.752					

\$ 15 DCB Decachlorobiphenyl

1	9.767	9.769	-0.002	44233820	10.7	
2	10.107	10.109	-0.002	32342805	11.8	

RPD = 10.03

S 8 Polychlorinated biphenyls, Total

1	0.000				ND	
2	0.000					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291619.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

2 PCB-5460

1	0.000				ND	
1	12.739					
1	0.000					
1	13.802					
1	14.259					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

6 PCB-5432

1	7.063				ND	
1	7.693					
1	8.203					
1	9.029					
1	9.459					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

11 PCB-5442

1	9.459				ND	
1	9.923					
1	10.079					
1	10.289					
1	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:43

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291619.D

Injection Date: 29-Nov-2016 17:26:10

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: 280-90775-B-1-A

Lab Sample ID: 280-90775-1

Worklist Smp#: 19

Client ID: CBLmw-001-110916-GW

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

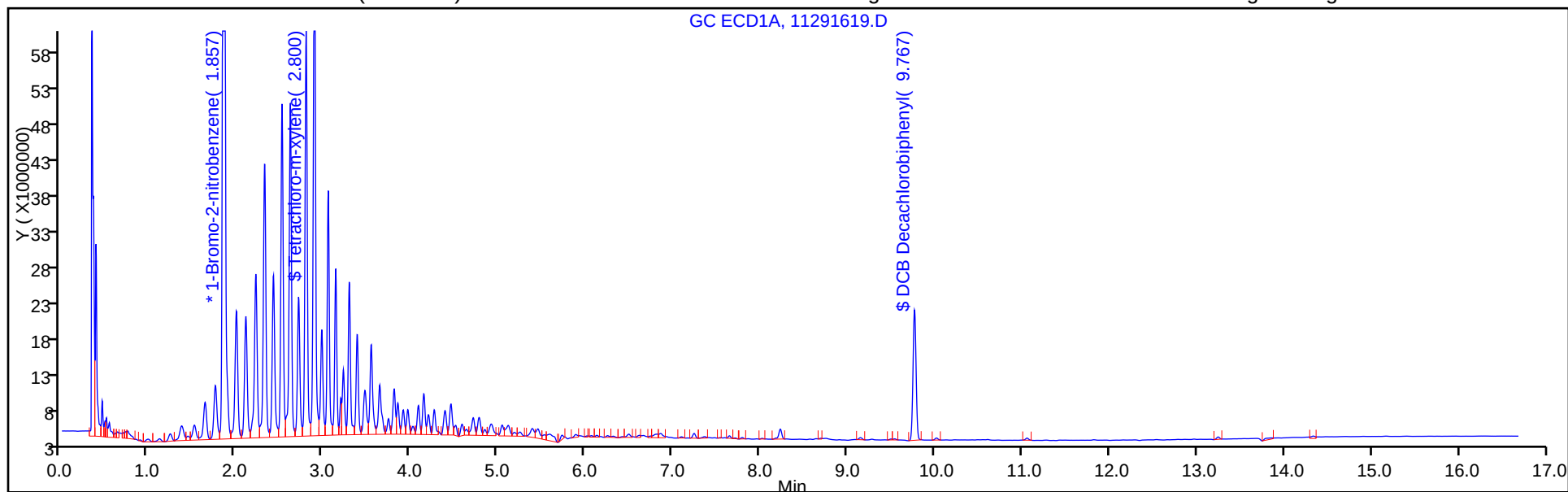
ALS Bottle#: 19

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

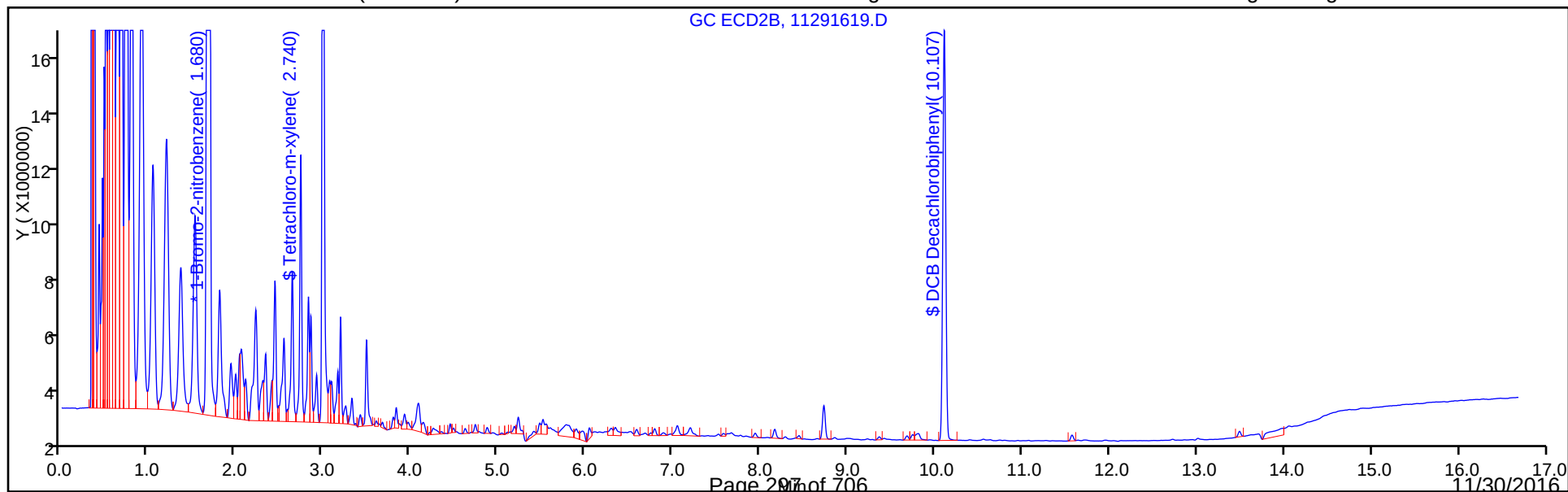
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291619.D
 Lims ID: 280-90775-B-1-A
 Client ID: CBLmw-001-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 17:26:10 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-B-1-A
 Misc. Info.: 280-0053650-019
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:50

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	25.1	125.32
\$ 15 DCB Decachlorobiphenyl	20.0	10.7	53.44

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	3.95	19.75
\$ 15 DCB Decachlorobiphenyl	20.0	11.8	59.08

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-002-110916-GW Lab Sample ID: 280-90775-2
 Matrix: Water Lab File ID: 11291620.D
 Analysis Method: 8082A Date Collected: 11/09/2016 09:25
 Extraction Method: 3510C Date Extracted: 11/15/2016 20:18
 Sample wt/vol: 1045.4 (mL) Date Analyzed: 11/29/2016 17:47
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.096	U	0.14	0.096	0.040
11104-28-2	PCB-1221	0.096	U	0.14	0.096	0.040
11141-16-5	PCB-1232	0.096	U	0.14	0.096	0.040
53469-21-9	PCB-1242	0.096	U	0.14	0.096	0.040
12672-29-6	PCB-1248	0.096	U	0.14	0.096	0.040
11097-69-1	PCB-1254	0.096	U	0.14	0.096	0.040
11096-82-5	PCB-1260	0.096	U	0.14	0.096	0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	28		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	97		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291620.D
 Lims ID: 280-90775-A-2-A
 Client ID: CBLmw-002-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 17:47:51 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-A-2-A
 Misc. Info.: 280-0053650-020
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.857	1.859	-0.002	302395103	1000.0
2	1.680	1.682	-0.002	235498641	1000.0

RPD = 0.00

\$ 14 Tetrachloro-m-xylene

1	2.807	2.809	-0.002	30832735	7.41
2	2.737	2.739	-0.002	19613072	5.58

RPD = 28.17

3 PCB-1221

1		3.023		ND
1		3.166		
1		3.206		
2		3.056		
2		3.186		
2		3.240		

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291620.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

7 PCB-1232

1	3.193				ND	
1	3.547					
1	4.020					
1	4.163					
1	4.620					
2	3.234					
2	3.620					
2	4.070					
2	4.214					
2	4.870					

1 PCB-1016

1	3.205				ND	
1	3.559					
1	4.035					
1	4.179					
1	4.635					
2	3.622					
2	4.075					
2	4.219					
2	4.449					
2	4.735					

10 PCB-1242

1	3.562				ND	
1	4.035					
1	4.178					
1	5.135					
1	5.158					
2	3.625					
2	4.078					
2	4.218					
2	5.188					
2	5.235					

4 PCB-1248

1	4.032				ND	
1	4.395					
1	4.635					
1	5.132					
1	5.159					
2	4.075					
2	4.739					
2	4.875					
2	5.189					
2	5.235					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291620.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.403				ND	
1	5.736					
1	5.890					
1	6.250					
1	6.866					
2	5.476					
2	5.893					
2	6.043					
2	6.343					
2	7.056					

12 PCB-1260

1	6.129				ND	
1	6.865					
1	7.359					
1	7.795					
1	8.182					
2	6.585					
2	7.049					
2	7.575					
2	7.942					
2	8.445					

5 PCB-1262

1	6.480				ND	
1	7.010					
1	7.340					
1	7.777					
1	8.163					
2	6.580					
2	7.177					
2	7.570					
2	7.937					
2	8.437					

13 PCB-1268

1	8.245				ND	
1	8.298					
1	8.572					
1	9.085					
1	9.498					
2	8.445					
2	8.505					
2	8.855					
2	9.288					
2	9.752					

\$ 15 DCB Decachlorobiphenyl

1	9.767	9.769	-0.002	69639103	18.0	
2	10.107	10.109	-0.002	50982196	19.3	

RPD = 6.98

S 8 Polychlorinated biphenyls, Total

1	0.000				ND	
2	0.000					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291620.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

2 PCB-5460

1	0.000				ND	
1	12.739					
1	0.000					
1	13.802					
1	14.259					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

6 PCB-5432

1	7.063				ND	
1	7.693					
1	8.203					
1	9.029					
1	9.459					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

11 PCB-5442

1	9.459				ND	
1	9.923					
1	10.079					
1	10.289					
1	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:44

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291620.D

Injection Date: 29-Nov-2016 17:47:51

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: 280-90775-A-2-A

Lab Sample ID: 280-90775-2

Worklist Smp#: 20

Client ID: CBLmw-002-110916-GW

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

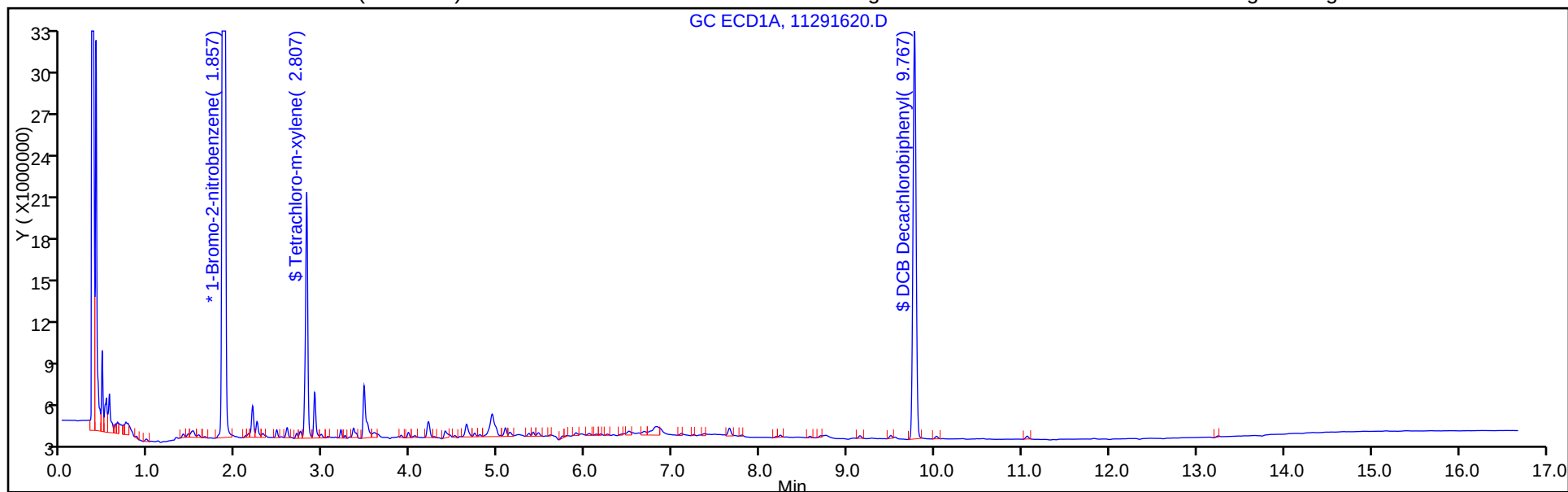
ALS Bottle#: 20

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

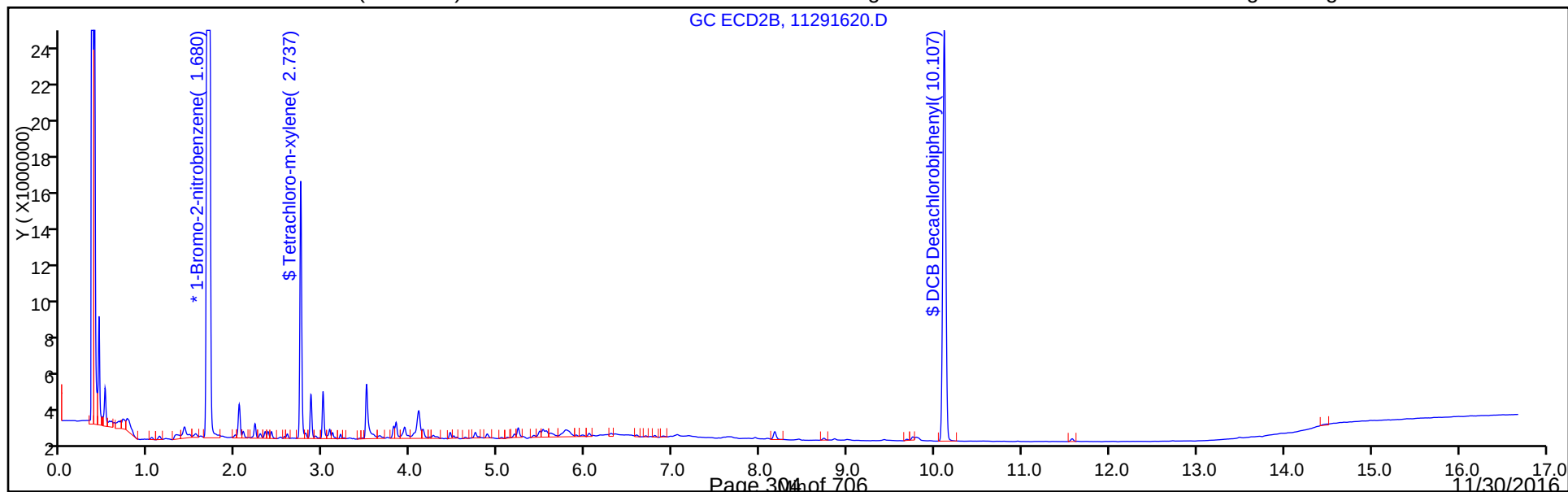
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291620.D
 Lims ID: 280-90775-A-2-A
 Client ID: CBLmw-002-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 17:47:51 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-A-2-A
 Misc. Info.: 280-0053650-020
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:58

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	7.41	37.04
\$ 15 DCB Decachlorobiphenyl	20.0	18.0	90.17

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	5.58	27.89
\$ 15 DCB Decachlorobiphenyl	20.0	19.3	96.69

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-003-110916-GW Lab Sample ID: 280-90775-3
 Matrix: Water Lab File ID: 11291621.D
 Analysis Method: 8082A Date Collected: 11/09/2016 12:45
 Extraction Method: 3510C Date Extracted: 11/15/2016 20:18
 Sample wt/vol: 998.2 (mL) Date Analyzed: 11/29/2016 18:09
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.10	U	0.15	0.10	0.042
11104-28-2	PCB-1221	0.10	U	0.15	0.10	0.042
11141-16-5	PCB-1232	0.10	U	0.15	0.10	0.042
53469-21-9	PCB-1242	0.10	U	0.15	0.10	0.042
12672-29-6	PCB-1248	0.10	U	0.15	0.10	0.042
11097-69-1	PCB-1254	0.10	U	0.15	0.10	0.042
11096-82-5	PCB-1260	0.10	U	0.15	0.10	0.042

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	50		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	107		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291621.D
 Lims ID: 280-90775-B-3-A
 Client ID: CBLmw-003-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 18:09:33 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-B-3-A
 Misc. Info.: 280-0053650-021
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:32:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.859	1.859	0.000	305621472	1000.0
2	1.682	1.682	0.000	237086827	1000.0

RPD = 0.00

\$ 14 Tetrachloro-m-xylene

1	2.805	2.809	-0.004	59002137	14.5
2	2.739	2.739	0.000	34524114	10.0

RPD = 36.71

3 PCB-1221

1	3.023	ND
1	3.166	
1	3.206	
2	3.056	
2	3.186	
2	3.240	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291621.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

7 PCB-1232

1	3.193				ND	
1	3.547					
1	4.020					
1	4.163					
1	4.620					
2	3.234					
2	3.620					
2	4.070					
2	4.214					
2	4.870					

1 PCB-1016

1	3.205				ND	
1	3.559					
1	4.035					
1	4.179					
1	4.635					
2	3.622					
2	4.075					
2	4.219					
2	4.449					
2	4.735					

10 PCB-1242

1	3.562				ND	
1	4.035					
1	4.178					
1	5.135					
1	5.158					
2	3.625					
2	4.078					
2	4.218					
2	5.188					
2	5.235					

4 PCB-1248

1	4.032				ND	
1	4.395					
1	4.635					
1	5.132					
1	5.159					
2	4.075					
2	4.739					
2	4.875					
2	5.189					
2	5.235					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.403				ND	
1	5.736					
1	5.890					
1	6.250					
1	6.866					
2	5.476					
2	5.893					
2	6.043					
2	6.343					
2	7.056					

12 PCB-1260

1	6.129				ND	
1	6.865					
1	7.359					
1	7.795					
1	8.182					
2	6.585					
2	7.049					
2	7.575					
2	7.942					
2	8.445					

5 PCB-1262

1	6.480				ND	
1	7.010					
1	7.340					
1	7.777					
1	8.163					
2	6.580					
2	7.177					
2	7.570					
2	7.937					
2	8.437					

13 PCB-1268

1	8.245				ND	
1	8.298					
1	8.572					
1	9.085					
1	9.498					
2	8.445					
2	8.505					
2	8.855					
2	9.288					
2	9.752					

\$ 15 DCB Decachlorobiphenyl

1	9.769	9.769	0.000	77121293	19.8	
2	10.109	10.109	0.000	56489625	21.3	

RPD = 7.37

S 8 Polychlorinated biphenyls, Total

1	0.000				ND	
2	0.000					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291621.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

2 PCB-5460

1	0.000				ND	
1	12.739					
1	0.000					
1	13.802					
1	14.259					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

6 PCB-5432

1	7.063				ND	
1	7.693					
1	8.203					
1	9.029					
1	9.459					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

11 PCB-5442

1	9.459				ND	
1	9.923					
1	10.079					
1	10.289					
1	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:46

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291621.D

Injection Date: 29-Nov-2016 18:09:33

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: 280-90775-B-3-A

Lab Sample ID: 280-90775-3

Worklist Smp#: 21

Client ID: CBLmw-003-110916-GW

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

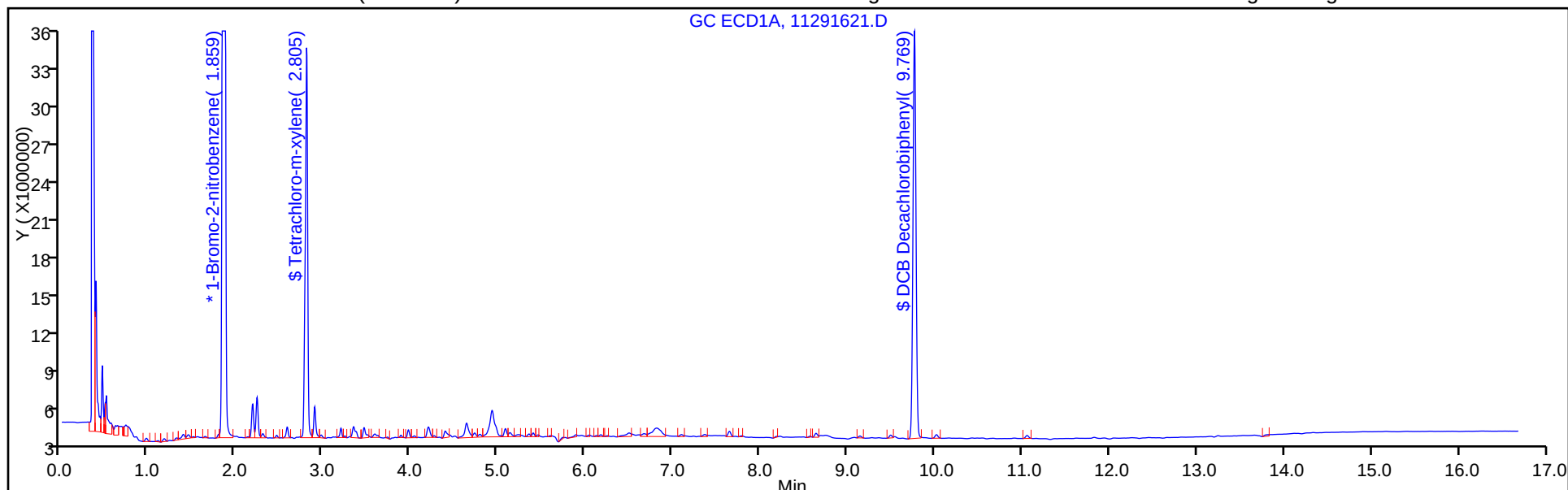
ALS Bottle#: 21

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

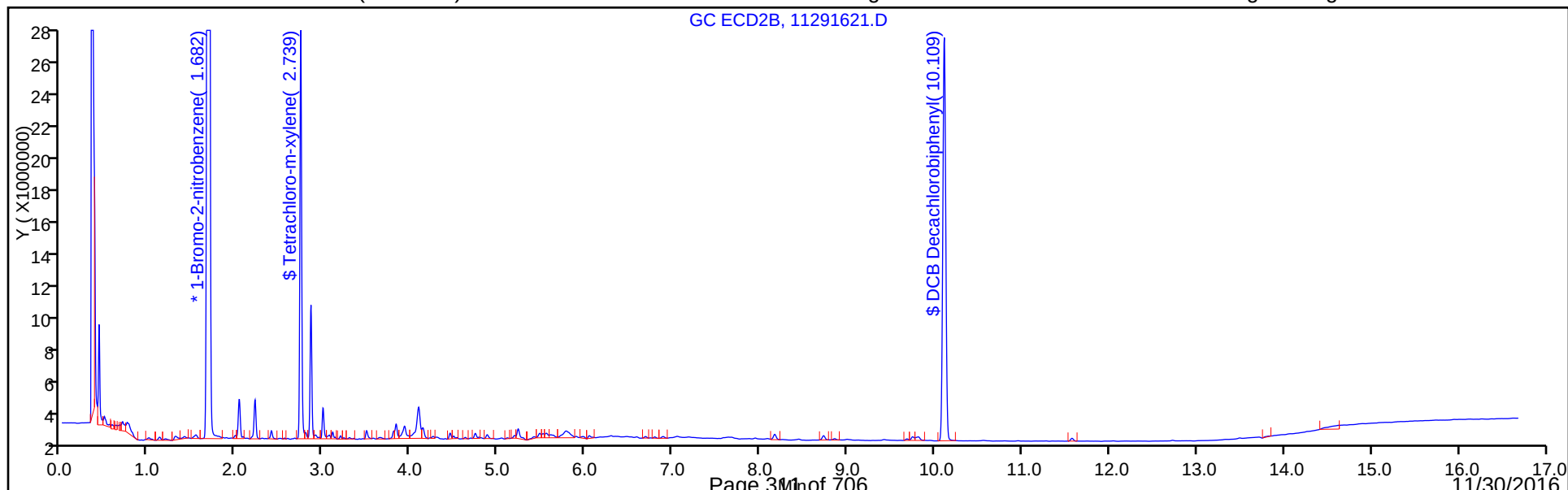
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291621.D
 Lims ID: 280-90775-B-3-A
 Client ID: CBLmw-003-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 18:09:33 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-B-3-A
 Misc. Info.: 280-0053650-021
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:32:08

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	14.5	72.74
\$ 15 DCB Decachlorobiphenyl	20.0	19.8	99.08

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	10.0	50.18
\$ 15 DCB Decachlorobiphenyl	20.0	21.3	106.66

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: CBLmw-004-110916-GW Lab Sample ID: 280-90775-4
 Matrix: Water Lab File ID: 11291622.D
 Analysis Method: 8082A Date Collected: 11/09/2016 11:25
 Extraction Method: 3510C Date Extracted: 11/15/2016 20:18
 Sample wt/vol: 983(mL) Date Analyzed: 11/29/2016 18:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.10	U	0.15	0.10	0.043
11104-28-2	PCB-1221	0.10	U	0.15	0.10	0.043
11141-16-5	PCB-1232	0.10	U	0.15	0.10	0.043
53469-21-9	PCB-1242	0.10	U	0.15	0.10	0.043
12672-29-6	PCB-1248	0.10	U	0.15	0.10	0.043
11097-69-1	PCB-1254	0.10	U	0.15	0.10	0.043
11096-82-5	PCB-1260	0.10	U	0.15	0.10	0.043

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	48		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	104		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291622.D
 Lims ID: 280-90775-A-4-A
 Client ID: CBLmw-004-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 18:31:14 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-A-4-A
 Misc. Info.: 280-0053650-022
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jackson

Date: 30-Nov-2016 06:32:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.856	1.859	-0.003	300464633	1000.0
2	1.680	1.682	-0.002	233281566	1000.0

RPD = 0.00

\$ 14 Tetrachloro-m-xylene

1	2.806	2.809	-0.003	46692622	11.6
2	2.740	2.739	0.001	32518425	9.59

RPD = 18.93

3 PCB-1221

1	3.023	ND
1	3.166	
1	3.206	
2	3.056	
2	3.186	
2	3.240	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291622.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

7 PCB-1232

1	3.193				ND	
1	3.547					
1	4.020					
1	4.163					
1	4.620					
2	3.234					
2	3.620					
2	4.070					
2	4.214					
2	4.870					

1 PCB-1016

1	3.205				ND	
1	3.559					
1	4.035					
1	4.179					
1	4.635					
2	3.622					
2	4.075					
2	4.219					
2	4.449					
2	4.735					

10 PCB-1242

1	3.562				ND	
1	4.035					
1	4.178					
1	5.135					
1	5.158					
2	3.625					
2	4.078					
2	4.218					
2	5.188					
2	5.235					

4 PCB-1248

1	4.032				ND	
1	4.395					
1	4.635					
1	5.132					
1	5.159					
2	4.075					
2	4.739					
2	4.875					
2	5.189					
2	5.235					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291622.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.403				ND	
1	5.736					
1	5.890					
1	6.250					
1	6.866					
2	5.476					
2	5.893					
2	6.043					
2	6.343					
2	7.056					

12 PCB-1260

1	6.129				ND	
1	6.865					
1	7.359					
1	7.795					
1	8.182					
2	6.585					
2	7.049					
2	7.575					
2	7.942					
2	8.445					

5 PCB-1262

1	6.480				ND	
1	7.010					
1	7.340					
1	7.777					
1	8.163					
2	6.580					
2	7.177					
2	7.570					
2	7.937					
2	8.437					

13 PCB-1268

1	8.245				ND	
1	8.298					
1	8.572					
1	9.085					
1	9.498					
2	8.445					
2	8.505					
2	8.855					
2	9.288					
2	9.752					

\$ 15 DCB Decachlorobiphenyl

1	9.766	9.769	-0.003	74942601	19.6	
2	10.107	10.109	-0.002	54060089	20.7	
						RPD = 5.73

S 8 Polychlorinated biphenyls, Total

1	0.000				ND	
2	0.000					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291622.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

2 PCB-5460

1	0.000				ND	
1	12.739					
1	0.000					
1	13.802					
1	14.259					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

6 PCB-5432

1	7.063				ND	
1	7.693					
1	8.203					
1	9.029					
1	9.459					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

11 PCB-5442

1	9.459				ND	
1	9.923					
1	10.079					
1	10.289					
1	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					
2	0.000					

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:47

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291622.D

Injection Date: 29-Nov-2016 18:31:14

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: 280-90775-A-4-A

Lab Sample ID: 280-90775-4

Worklist Smp#: 22

Client ID: CBLmw-004-110916-GW

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

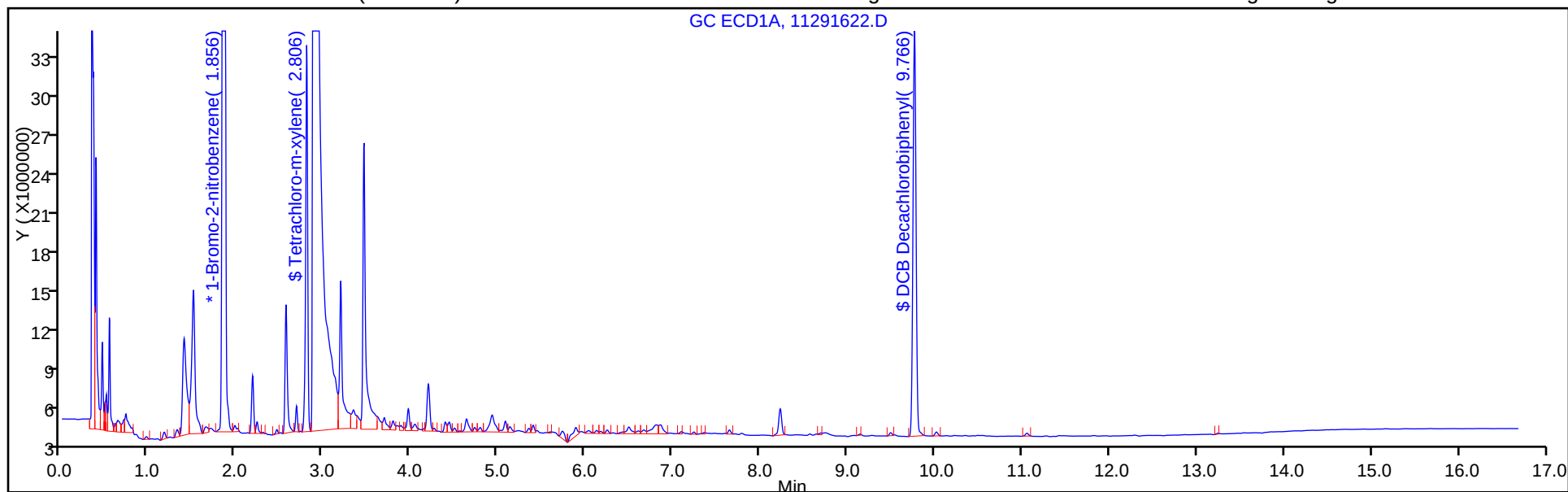
ALS Bottle#: 22

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

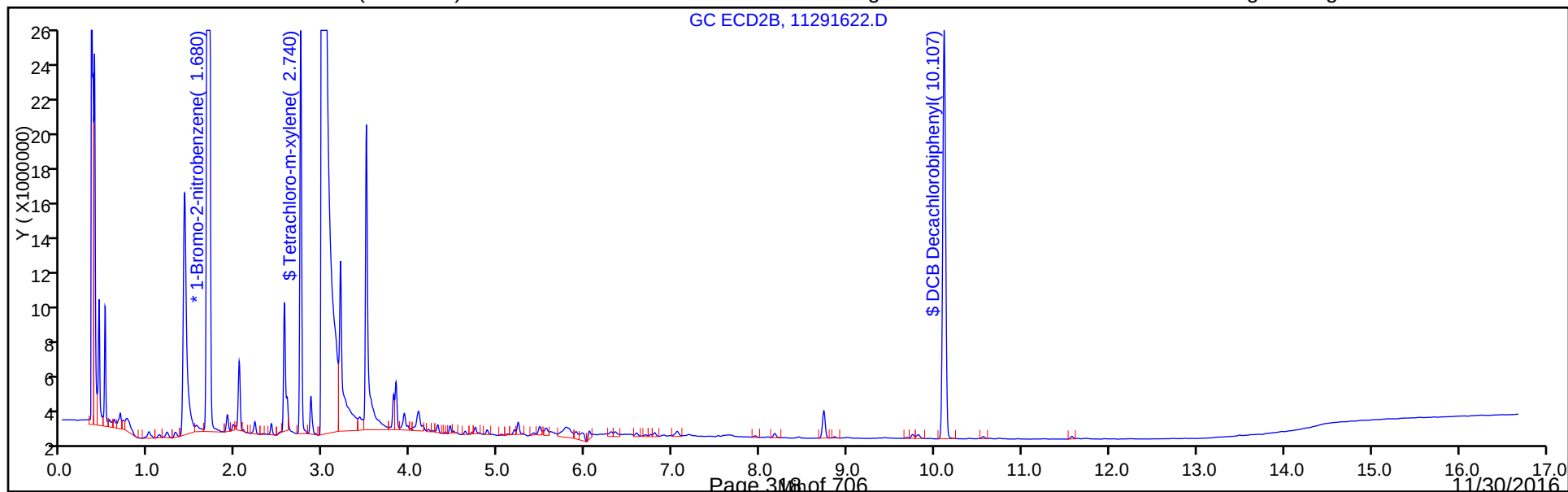
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291622.D
 Lims ID: 280-90775-A-4-A
 Client ID: CBLmw-004-110916-GW
 Sample Type: Client
 Inject. Date: 29-Nov-2016 18:31:14 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 280-90775-A-4-A
 Misc. Info.: 280-0053650-022
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:32:19

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	11.6	57.99
\$ 15 DCB Decachlorobiphenyl	20.0	19.6	97.90

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	9.59	47.96
\$ 15 DCB Decachlorobiphenyl	20.0	20.7	103.67

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 11:39 Calibration End Date: 10/08/2016 13:49 Calibration ID: 27239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11248 280-345281/7	10081607.D
Level 2	STD121248 280-345281/6	10081606.D
Level 3	STD131248 280-345281/5	10081605.D
Level 4	STD141248 280-345281/4	10081604.D
Level 5	STD151248 280-345281/3	10081603.D
Level 6	STD161248 280-345281/2	10081602.D
Level 7	STD171248 280-345281/1	10081601.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.6775 0.5040	0.6169 0.5047	0.5612	0.5330	0.5098	Lin1	5.1560	0.5005							1.0000		0.9900
PCB-1248 Peak 2	0.7575 0.5310	0.6782 0.5380	0.6219	0.5835	0.5358	Lin1	6.8653	0.5297							0.9990		0.9900
PCB-1248 Peak 3	0.7478 0.5198	0.6634 0.5107	0.5937	0.5546	0.5239	Lin1	6.9619	0.5098							1.0000		0.9900
PCB-1248 Peak 4	0.6242 0.4996	0.5669 0.4756	0.4964	0.4990	0.4913	Lin1	3.5600	0.4820							0.9990		0.9900
PCB-1248 Peak 5	0.4970 0.3669	0.4628 0.3826	0.4141	0.4092	0.3609	Lin1	3.8500	0.3703							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 11:39 Calibration End Date: 10/08/2016 13:49 Calibration ID: 27239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11248 280-345281/7	10081607.D
Level 2	STD121248 280-345281/6	10081606.D
Level 3	STD131248 280-345281/5	10081605.D
Level 4	STD141248 280-345281/4	10081604.D
Level 5	STD151248 280-345281/3	10081603.D
Level 6	STD161248 280-345281/2	10081602.D
Level 7	STD171248 280-345281/1	10081601.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin1	4632964 100376478	8376509 130736864	15814330	36870209	69479983	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 2	BNB	Lin1	5180031 105742134	9209721 139357490	17524761	40361030	73026380	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 3	BNB	Lin1	5113750 103510748	9008367 132288935	16729350	38362532	71406024	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 4	BNB	Lin1	4268535 99490860	7697525 123191463	13988290	34516669	66959345	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 5	BNB	Lin1	3399014 73059614	6284549 99089367	11670371	28308910	49183526	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081601.D
 Lims ID: STDL71248
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 11:39:41 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL71248
 Misc. Info.: 280-0051591-001
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:23 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	259013268	1000.0	1000.0	
2	1.672	1.675	-0.003	251842746	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.019	4.016	0.003	130736864	1000.0	998.3	
1	4.382	4.379	0.003	139357490	1000.0	1002.7	
1	4.622	4.619	0.003	132288935	1000.0	988.2	
1	5.115	5.116	-0.001	123191463	1000.0	979.3	
1	5.139	5.139	0.000	99089367	1000.0	1022.8	
Average of Peak Amounts =						998.3	
2	4.069	4.069	0.000	128328309	1000.0	995.6	
2	4.732	4.733	-0.001	99286717	1000.0	983.4	
2	4.866	4.869	-0.003	111469869	1000.0	998.3	
2	5.179	5.183	-0.004	109263414	1000.0	995.1	
2	5.229	5.229	0.000	127108281	1000.0	999.2	
Average of Peak Amounts =						994.3	
RPD = 0.40							

S 8 Polychlorinated biphenyls, Total

1						998.3	
2						994.3	
RPD = 0.40							

Reagents:

AR_1248_L7_00012 Amount Added: 1.00 Units: mL
 BNB IS_00008 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 09-Oct-2016 09:27:23

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081601.D

Injection Date: 08-Oct-2016 11:39:41

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD71248

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

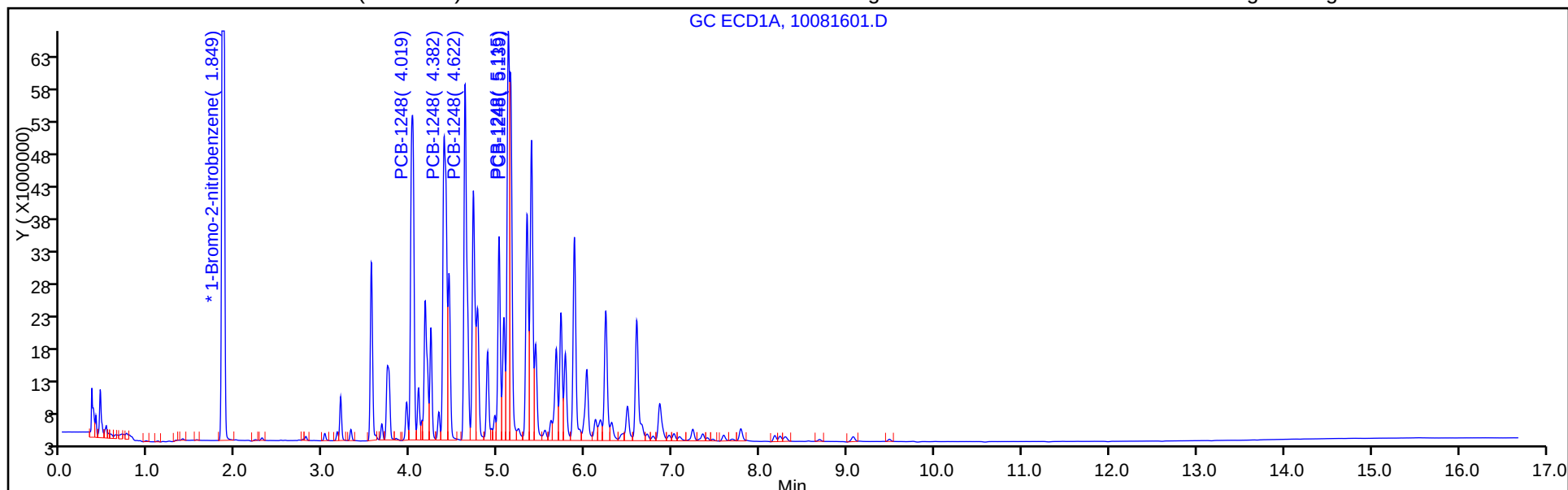
ALS Bottle#: 1

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

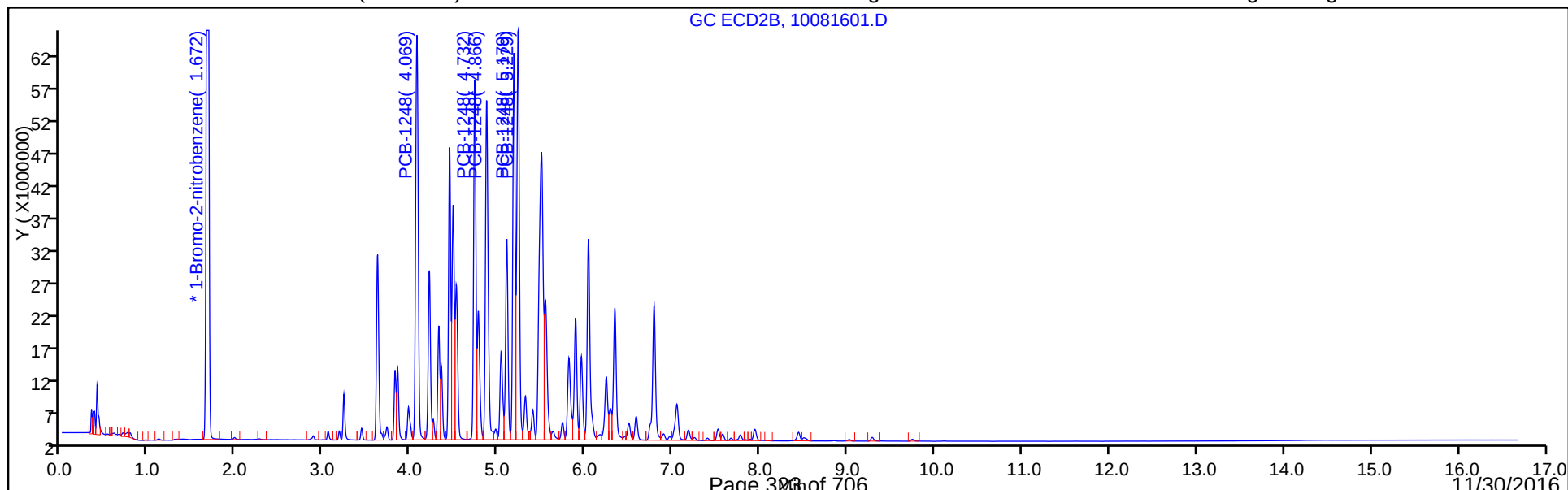
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081602.D
 Lims ID: STDL61248
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 12:01:20 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL61248
 Misc. Info.: 280-0051591-002
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 08-Oct-2016 12:28:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	265521550	1000.0	1000.0	
2	1.673	1.675	-0.002	256304452	1000.0	1000.0	
						RPD = 0.00	

4 PCB-1248

1	4.016	4.016	0.000	100376478	750.0	745.1	
1	4.379	4.379	0.000	105742134	750.0	738.8	
1	4.619	4.619	0.000	103510748	750.0	751.0	
1	5.116	5.116	0.000	99490860	750.0	770.0	
1	5.139	5.139	0.000	73059614	750.0	732.7	
Average of Peak Amounts =						747.5	
2	4.069	4.069	0.000	98122046	750.0	745.9	
2	4.733	4.733	0.000	77815226	750.0	755.0	
2	4.869	4.869	0.000	85620605	750.0	751.6	
2	5.183	5.183	0.000	83017687	750.0	741.2	
2	5.229	5.229	0.000	98604410	750.0	759.6	
Average of Peak Amounts =						750.7	

RPD = 0.42

S 8 Polychlorinated biphenyls, Total

1						747.5	
2						750.7	
						RPD = 0.42	

Reagents:

AR_1248_L6_00014

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:25

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081602.D

Injection Date: 08-Oct-2016 12:01:20

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD161248

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

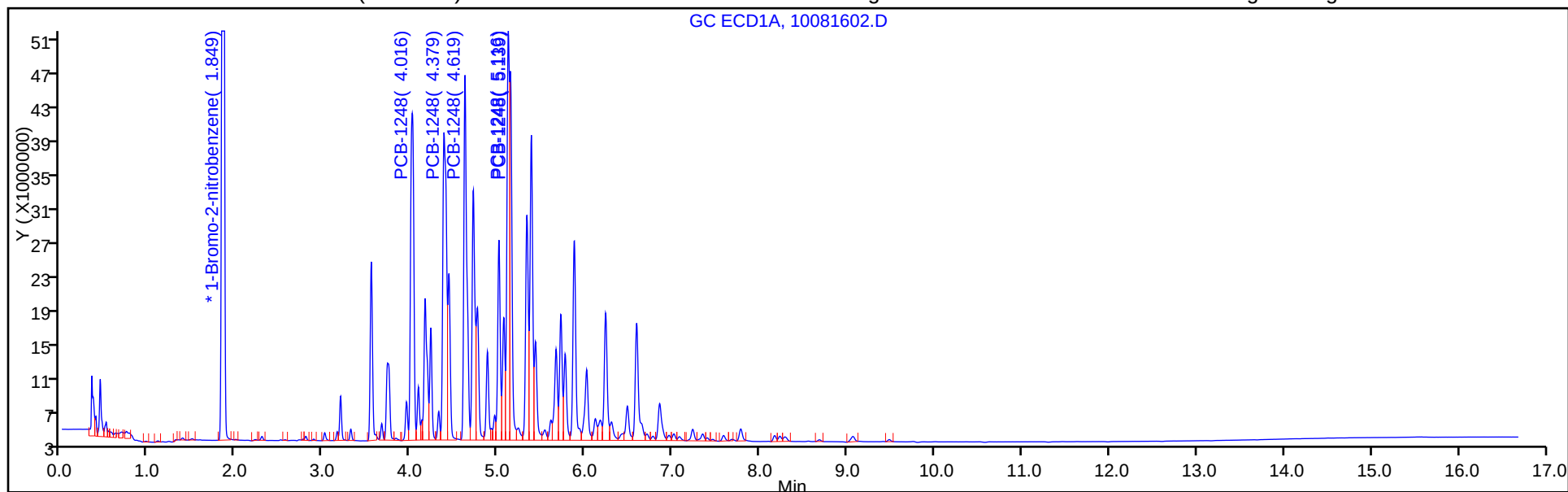
ALS Bottle#: 2

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

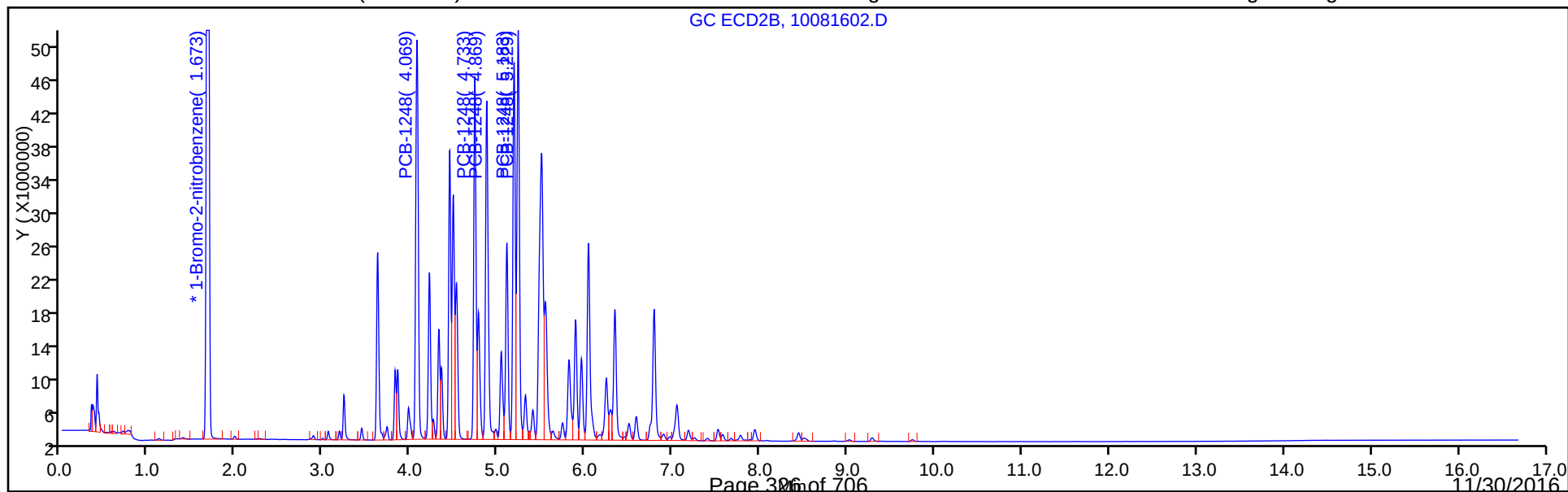
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081603.D
 Lims ID: STDL51248
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 12:22:59 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL51248
 Misc. Info.: 280-0051591-003
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:26 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 08:59:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	272570532	1000.0	1000.0	
2	1.676	1.676	0.000	262361109	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.016	4.016	0.000	69479983	500.0	499.0	
1	4.379	4.379	0.000	73026380	500.0	492.8	
1	4.619	4.619	0.000	71406024	500.0	500.2	
1	5.116	5.116	0.000	66959345	500.0	502.3	
1	5.139	5.139	0.000	49183526	500.0	476.9	
Average of Peak Amounts =							494.2
2	4.069	4.069	0.000	67844758	500.0	501.1	
2	4.733	4.733	0.000	53322748	500.0	502.1	
2	4.869	4.869	0.000	57569150	500.0	491.0	
2	5.183	5.183	0.000	57989591	500.0	503.7	
2	5.229	5.229	0.000	64868315	500.0	485.1	
Average of Peak Amounts =							496.6

RPD = 0.48

Reagents:

AR_1248_L5_00016	Amount Added: 1.00	Units: mL	
BNB IS_00008	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 09-Oct-2016 09:27:27

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081603.D

Injection Date: 08-Oct-2016 12:22:59

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD151248

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

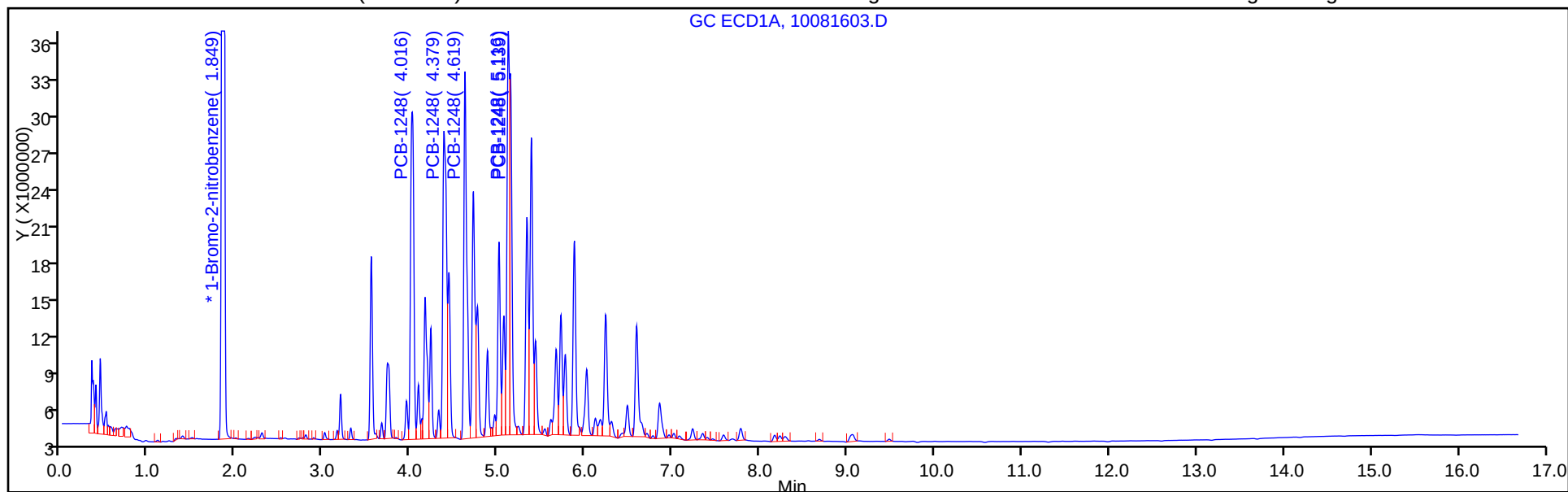
ALS Bottle#: 3

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

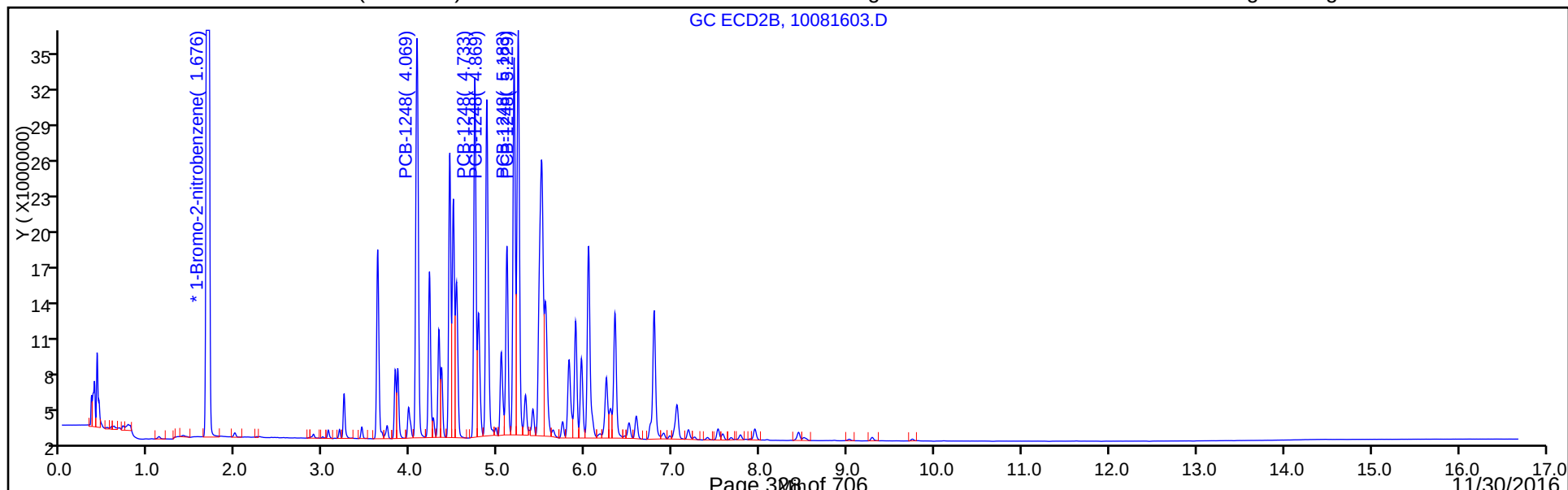
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081604.D
 Lims ID: STDL41248
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 12:44:36 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL41248
 Misc. Info.: 280-0051591-004
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:28 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	276693898	1000.0	1000.0	
2	1.675	1.676	-0.001	264568913	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.015	4.016	-0.001	36870209	250.0	256.0	
1	4.378	4.379	-0.001	40361030	250.0	262.4	
1	4.618	4.619	-0.001	38362532	250.0	258.3	
1	5.115	5.116	-0.001	34516669	250.0	251.4	
1	5.138	5.139	-0.001	28308910	250.0	265.9	
Average of Peak Amounts =						258.8	
2	4.069	4.069	0.000	35542379	250.0	256.3	
2	4.732	4.733	-0.001	28154374	250.0	258.1	
2	4.869	4.869	0.000	30927195	250.0	258.0	
2	5.182	5.183	-0.001	30535038	250.0	259.9	
2	5.229	5.229	0.000	34940042	250.0	255.2	
Average of Peak Amounts =						257.5	
RPD = 0.50							

S 8 Polychlorinated biphenyls, Total

1						258.8	
2						257.5	
RPD = 0.50							

Reagents:

AR_1248_L4_00017 Amount Added: 1.00 Units: mL
 BNB IS_00008 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 09-Oct-2016 09:27:28

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081604.D

Injection Date: 08-Oct-2016 12:44:36

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD41248

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

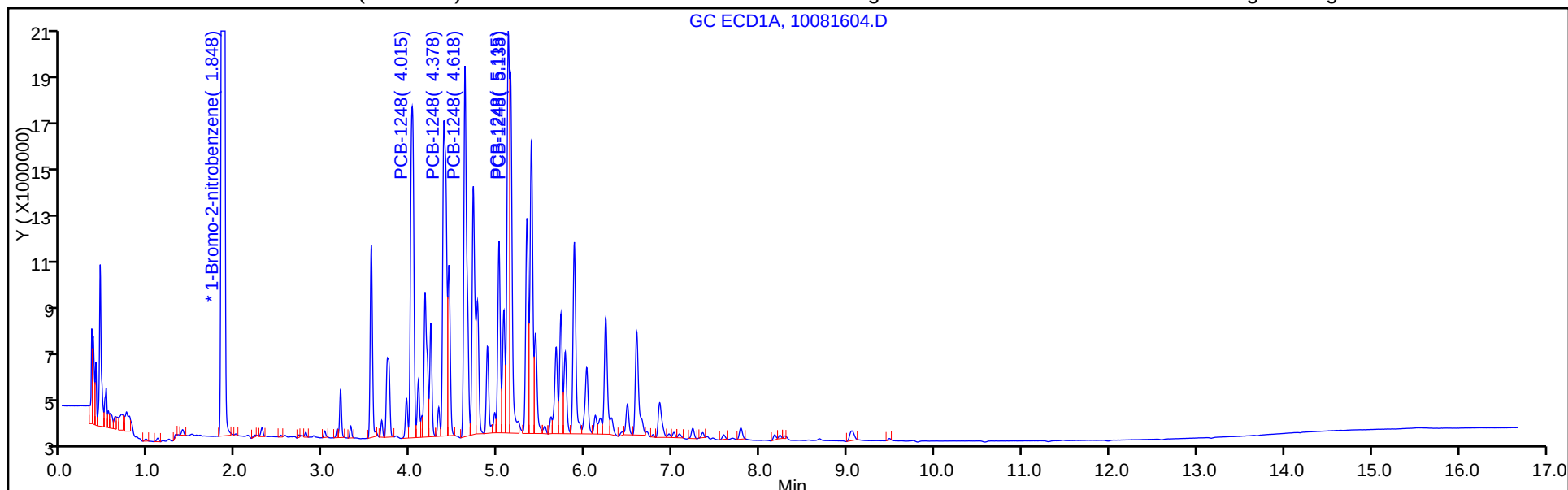
ALS Bottle#: 4

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

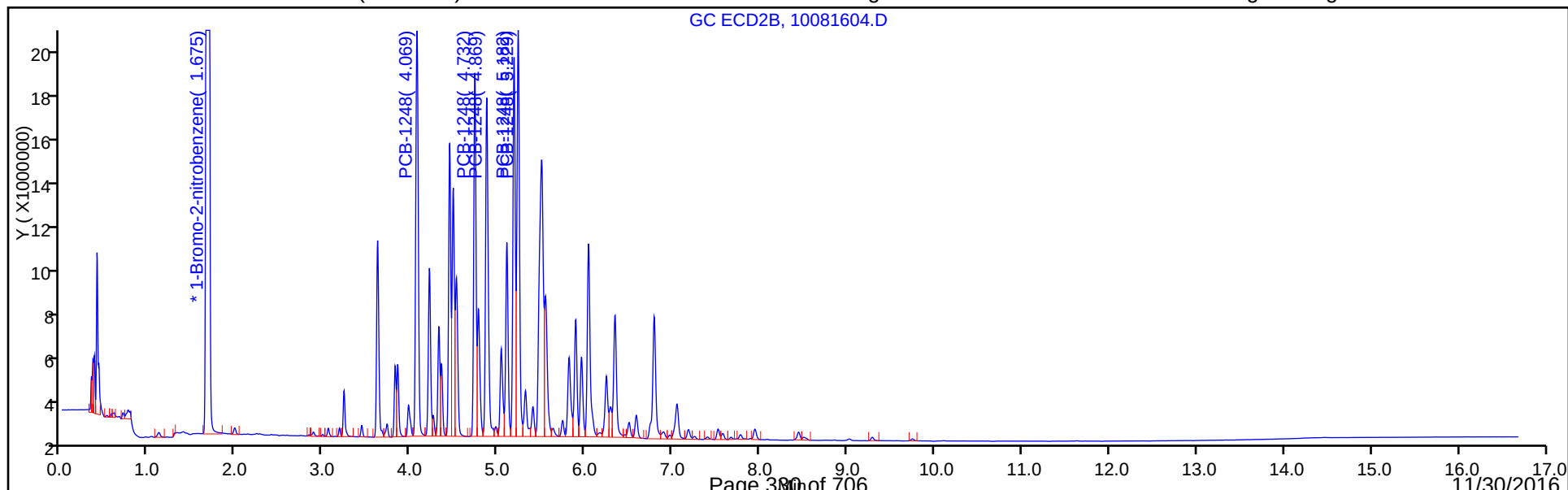
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081605.D
 Lims ID: STDL31248
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 13:06:17 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL31248
 Misc. Info.: 280-0051591-005
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:30 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:15:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	281803151	1000.0	1000.0	
2	1.676	1.676	0.000	268538234	1000.0	1000.0	
						RPD = 0.00	

4 PCB-1248

1	4.016	4.016	0.000	15814330	100.0	101.8	
1	4.379	4.379	0.000	17524761	100.0	104.4	
1	4.619	4.619	0.000	16729350	100.0	102.8	
1	5.116	5.116	0.000	13988290	100.0	95.6	
1	5.139	5.139	0.000	11670371	100.0	101.4	

Average of Peak Amounts = 101.2

2	4.069	4.069	0.000	14943231	100.0	101.2	
2	4.733	4.733	0.000	11888418	100.0	101.5	
2	4.869	4.869	0.000	12826258	100.0	100.9	
2	5.183	5.183	0.000	12535083	100.0	101.2	
2	5.229	5.229	0.000	14558797	100.0	99.7	

Average of Peak Amounts = 100.9

RPD = 0.30

S 8 Polychlorinated biphenyls, Total

1						101.2	
2						100.9	
						RPD = 0.30	

Reagents:

AR_1248_L3_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:30

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081605.D

Injection Date: 08-Oct-2016 13:06:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD131248

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

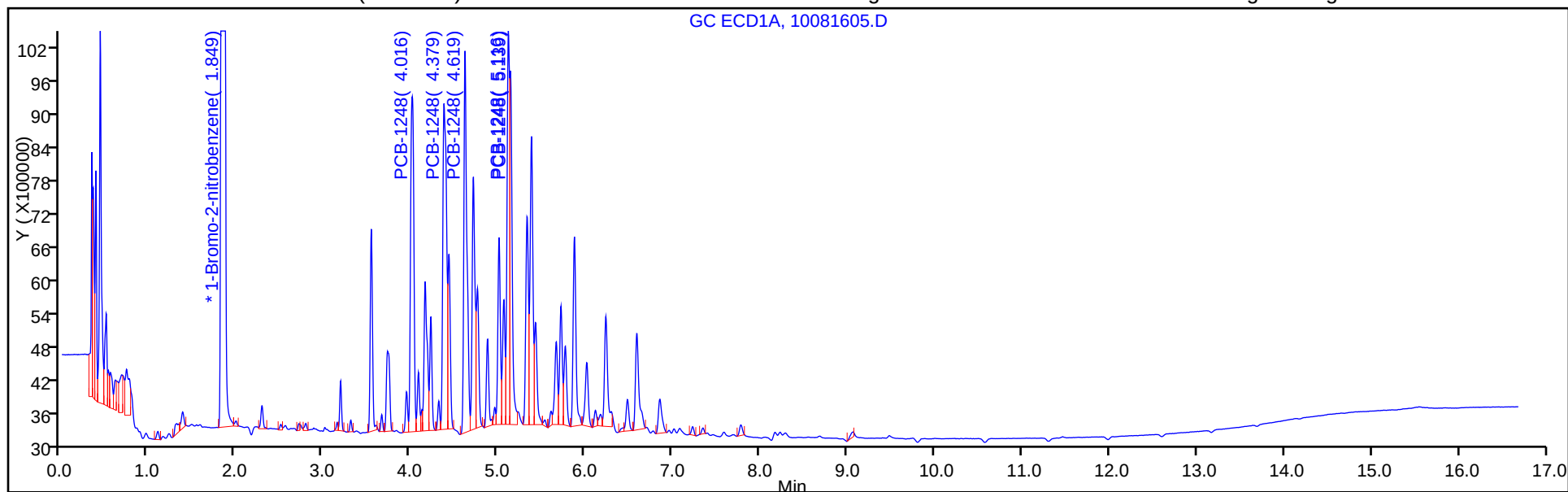
ALS Bottle#: 5

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

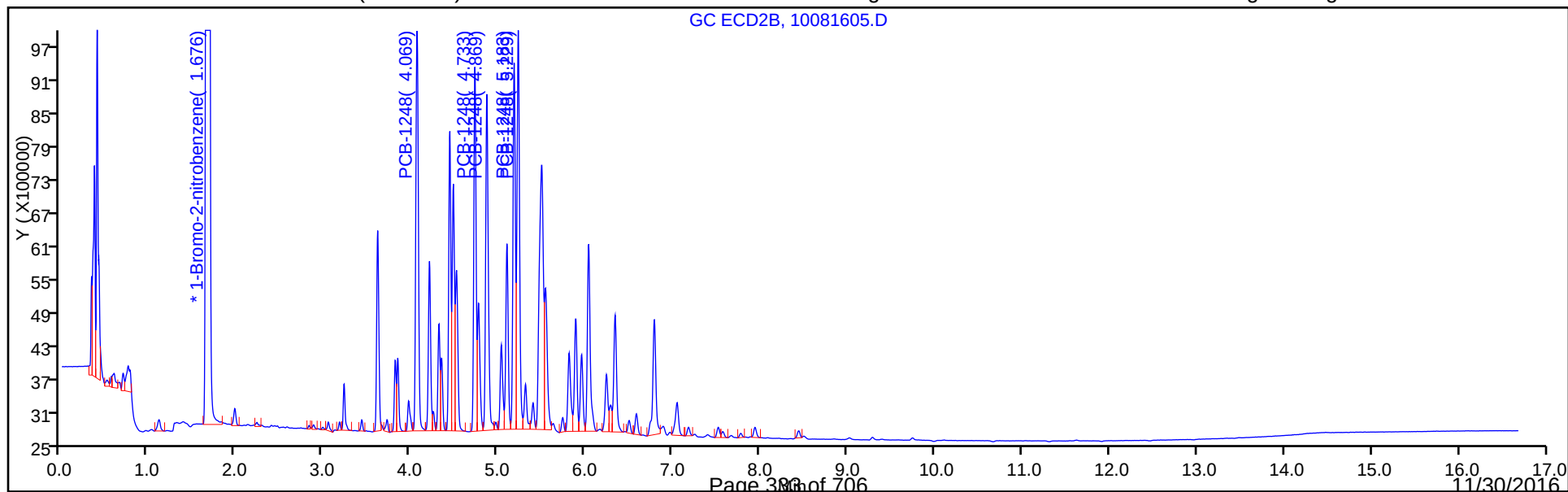
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081606.D
 Lims ID: STDL21248
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 13:27:56 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL21248
 Misc. Info.: 280-0051591-006
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:31 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:16:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	271581344	1000.0	1000.0	
2	1.673	1.676	-0.003	259611401	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

M

1	4.016	4.016	0.000	8376509	50.0	51.3	
1	4.379	4.379	0.000	9209721	50.0	51.1	
1	4.619	4.619	0.000	9008367	50.0	51.4	
1	5.116	5.116	0.000	7697525	50.0	51.4	M
1	5.139	5.139	0.000	6284549	50.0	52.1	M

Average of Peak Amounts = 51.5

2	4.069	4.069	0.000	7849705	50.0	51.1	
2	4.733	4.733	0.000	6363516	50.0	51.8	
2	4.869	4.869	0.000	6761473	50.0	51.5	
2	5.183	5.183	0.000	6346622	50.0	49.9	
2	5.229	5.229	0.000	7916930	50.0	52.4	

Average of Peak Amounts = 51.3

RPD = 0.25

S 8 Polychlorinated biphenyls, Total

1						51.5	
2						51.3	
RPD = 0.25							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1248_L2_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:32

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081606.D

Injection Date: 08-Oct-2016 13:27:56

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD L21248

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

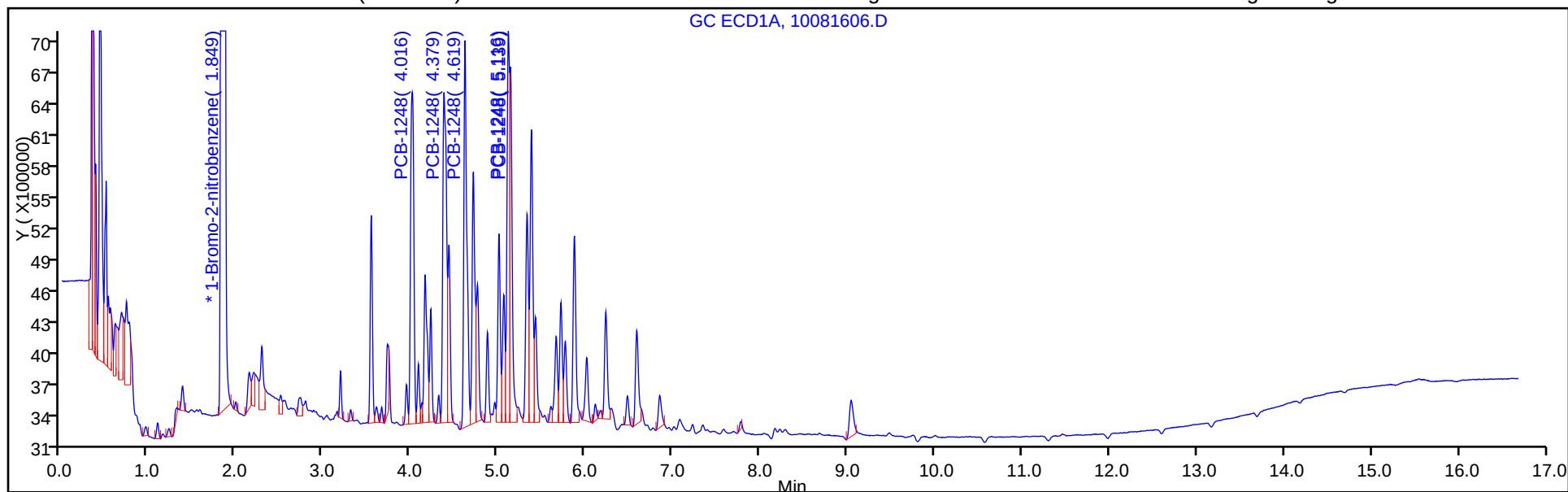
ALS Bottle#: 6

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

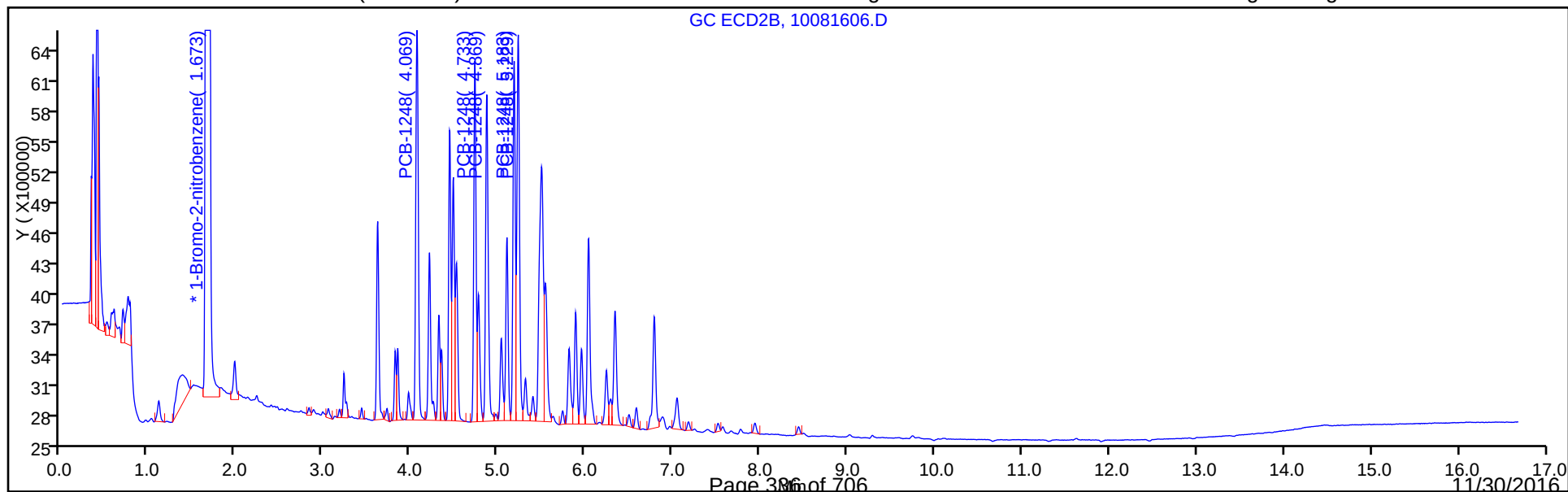
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081606.D

Injection Date: 08-Oct-2016 13:27:56

Instrument ID: SGC_P3

Lims ID: STDL21248

Client ID:

Operator ID: jax

ALS Bottle#: 6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

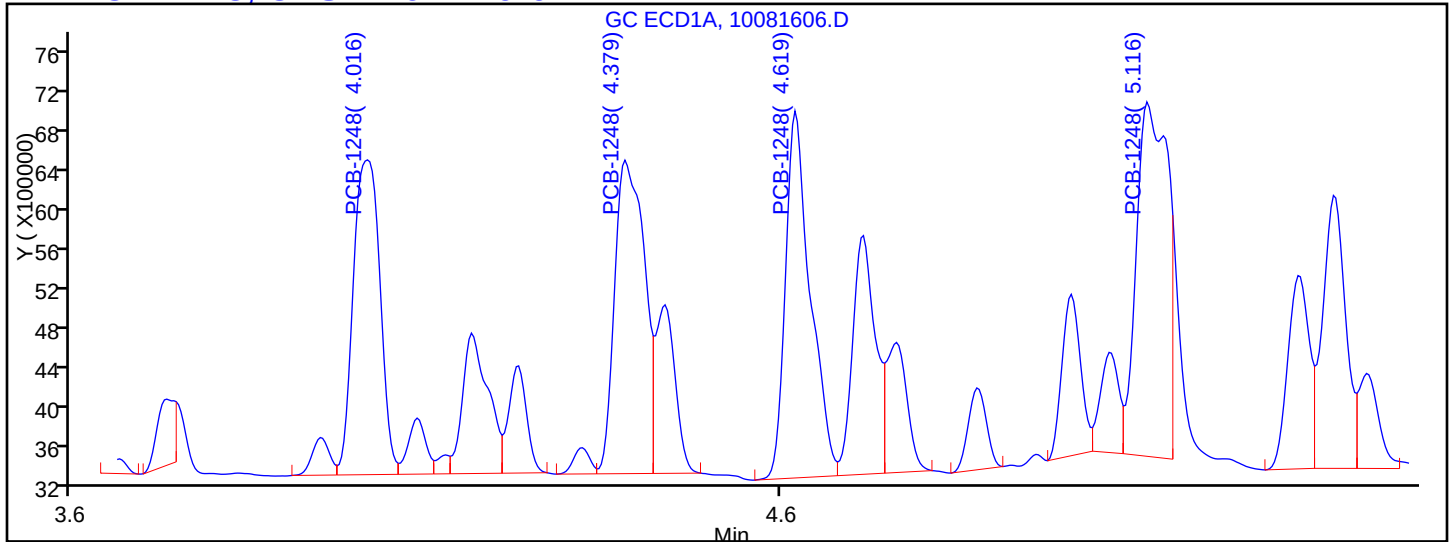
Method: PCB_P3

Limit Group: GCSV - 8082 - IS

Column: CLP1 Pesticides Column 1 (0.32 mm) Detector

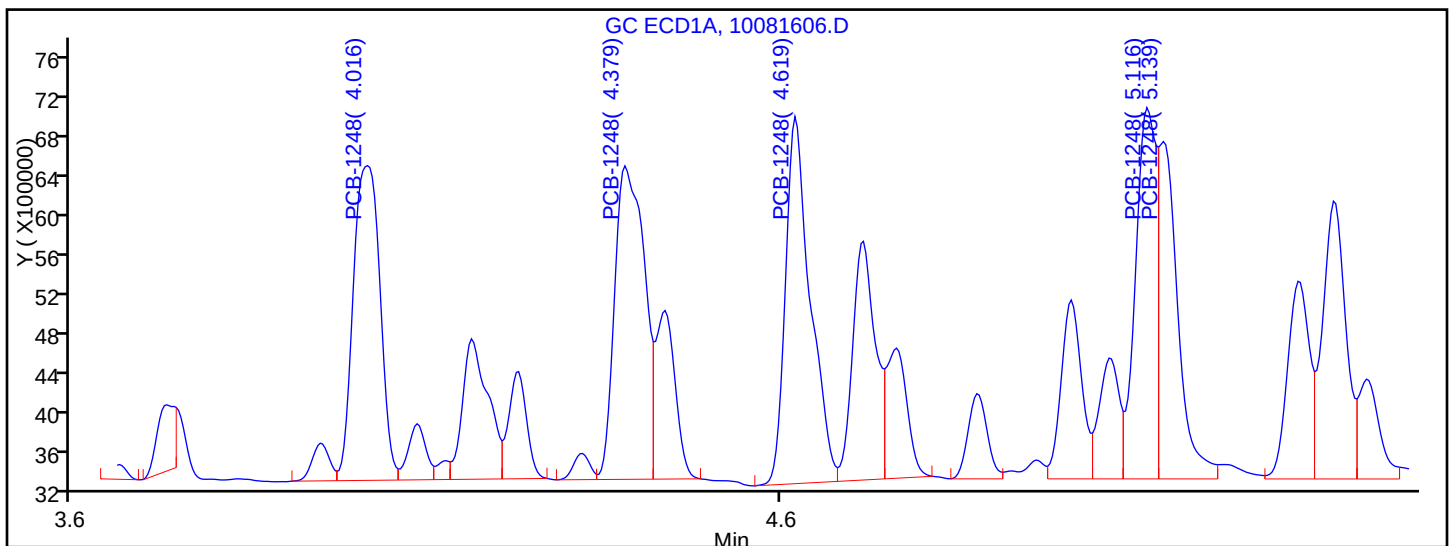
GC ECD1A

4 PCB-1248, CAS: 12672-29-6



Processing Integration Results

4.016	Response = 8376509
4.379	Response = 9209721
4.619	Response = 9008367
5.116	Response = 10855455
5.139	Response = 0



Manual Integration Results

4.016	Response = 8376509	
4.379	Response = 9209721	
4.619	Response = 9008367	
5.116	Response = 7697525	M
5.139	Response = 6284549	M

Reviewer: jacksonto, 09-Oct-2016 09:16:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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11/30/2016

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081607.D
 Lims ID: STDL11248
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 13:49:37 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL11248
 Misc. Info.: 280-0051591-007
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:33 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:17:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	273538542	1000.0	1000.0	
2	1.674	1.676	-0.002	258183302	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

M

1	4.014	4.016	-0.002	4632964	25.0	23.5	
1	4.381	4.379	0.002	5180031	25.0	22.8	
1	4.621	4.619	0.002	5113750	25.0	23.0	
1	5.118	5.116	0.002	4268535	25.0	25.0	M
1	5.138	5.139	-0.001	3399014	25.0	23.2	M

Average of Peak Amounts = 23.5

2	4.071	4.069	0.002	4210238	25.0	23.7	
2	4.734	4.733	0.001	3389824	25.0	23.1	
2	4.868	4.869	-0.001	3556460	25.0	23.6	
2	5.181	5.183	-0.002	3417810	25.0	24.0	
2	5.228	5.229	-0.001	4178481	25.0	23.8	

Average of Peak Amounts = 23.6

RPD = 0.61

S 8 Polychlorinated biphenyls, Total

1						23.5	
2						23.6	
RPD = 0.61							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1248_L1_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:34

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081607.D

Injection Date: 08-Oct-2016 13:49:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD11248

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

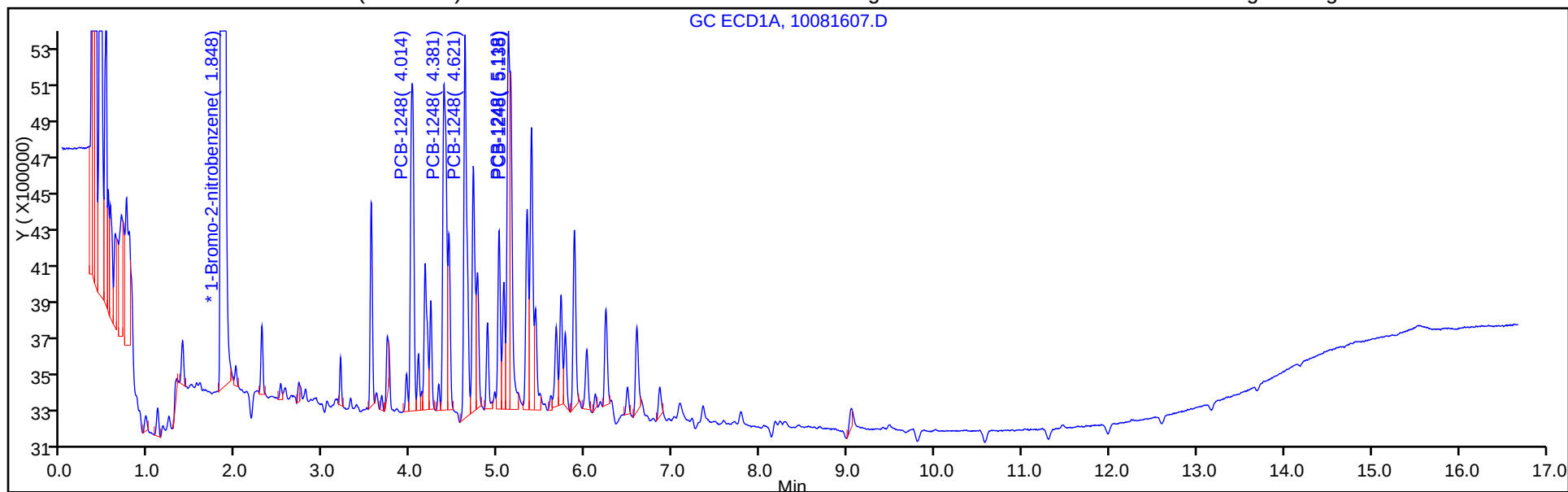
ALS Bottle#: 7

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

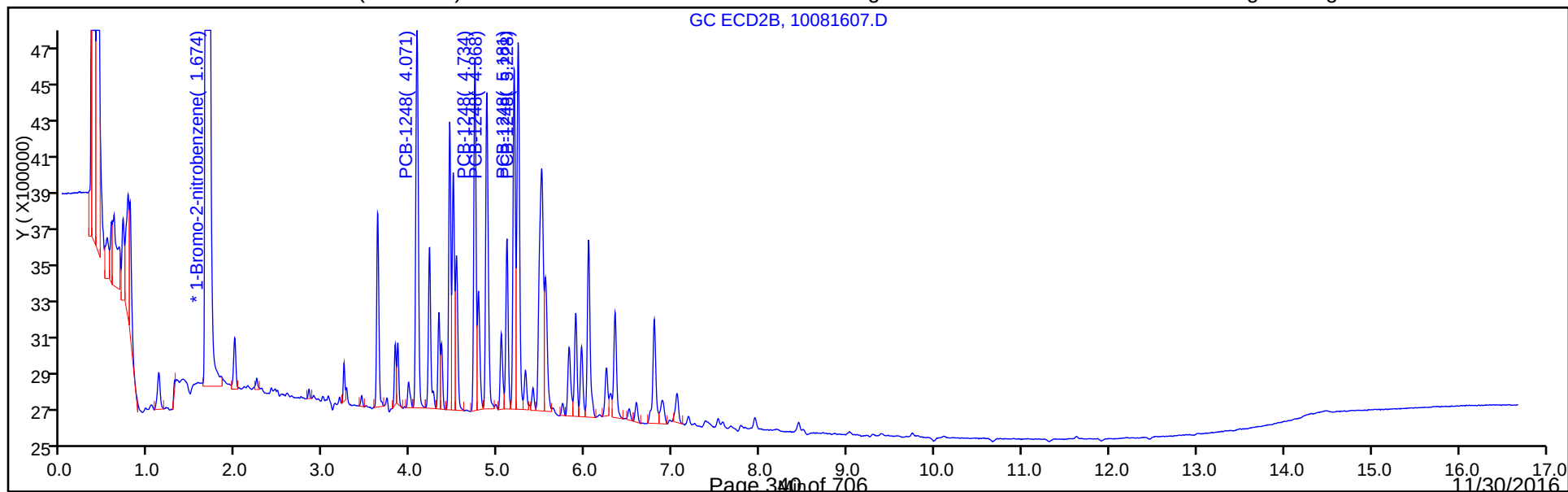
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081607.D

Injection Date: 08-Oct-2016 13:49:37

Instrument ID: SGC_P3

Lims ID: STD11248

Client ID:

Operator ID: jax

ALS Bottle#: 7

Worklist Smp#: 7

Injection Vol: 1.0 ul

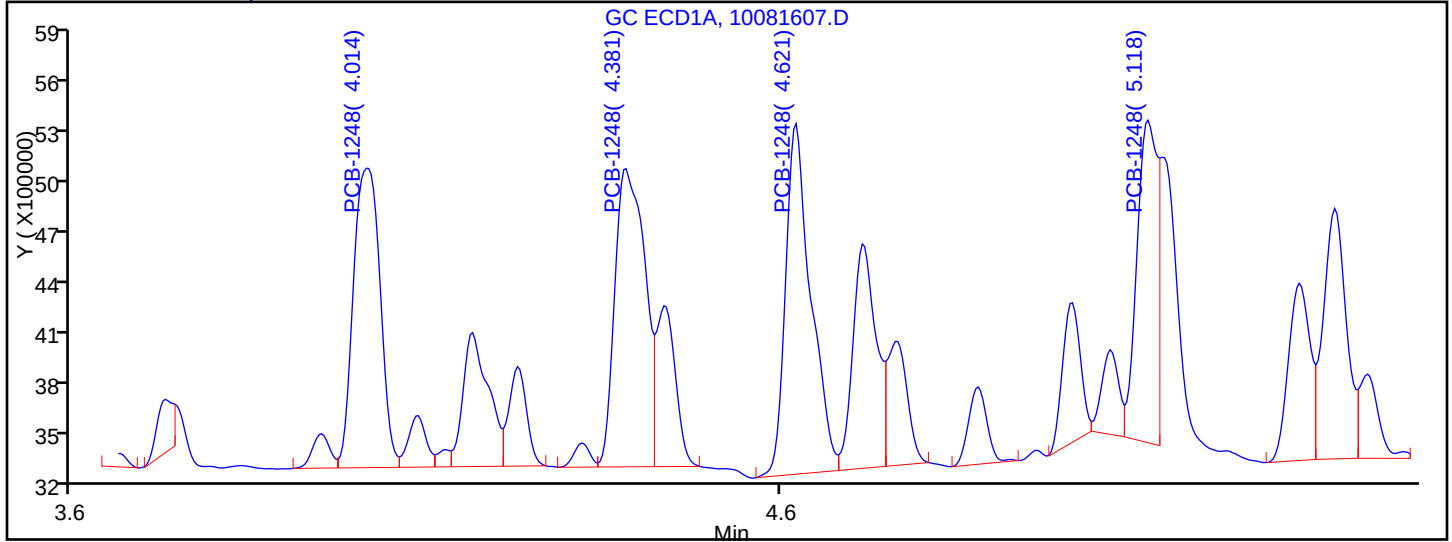
Dil. Factor: 1.0000

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

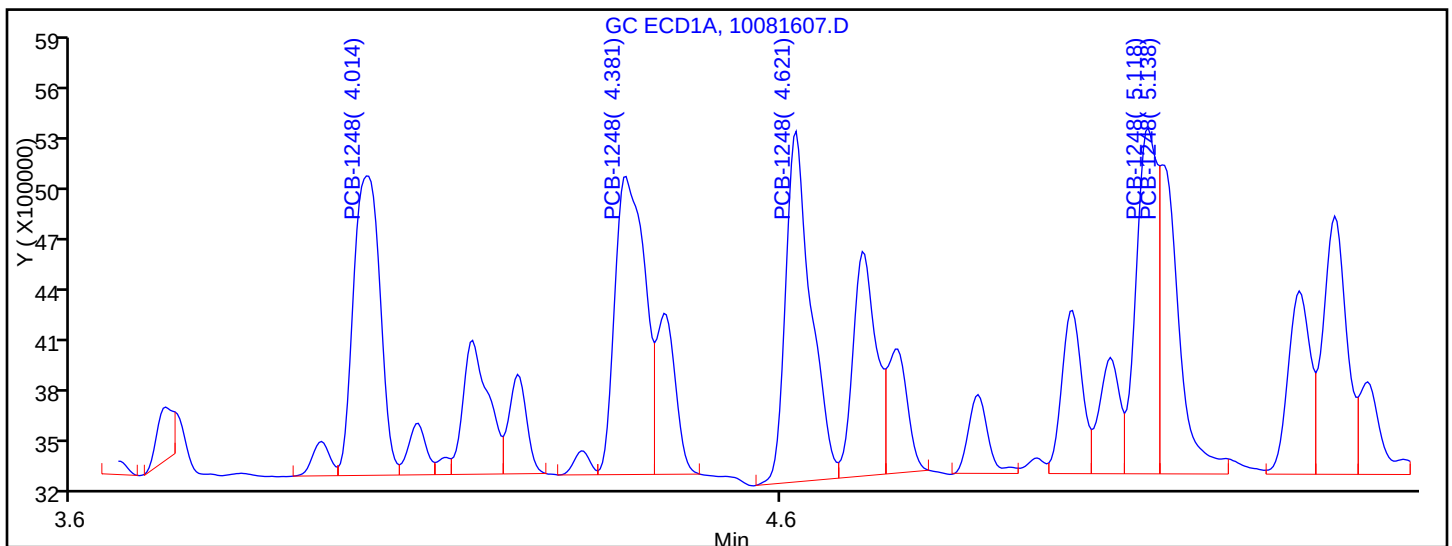
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector

GC ECD1A

4 PCB-1248, CAS: 12672-29-6

Processing Integration Results

4.014	Response = 4632964
4.381	Response = 5180031
4.621	Response = 5113750
5.118	Response = 3830185
5.139	Response = 0



Manual Integration Results

4.014	Response = 4632964	
4.381	Response = 5180031	
4.621	Response = 5113750	
5.118	Response = 4268535	M
5.138	Response = 3399014	M

Reviewer: jacksonto, 09-Oct-2016 09:17:13

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 341 of 706

11/30/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 11:39 Calibration End Date: 10/08/2016 13:49 Calibration ID: 27240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11248 280-345281/7	10081607.D
Level 2	STD121248 280-345281/6	10081606.D
Level 3	STD131248 280-345281/5	10081605.D
Level 4	STD141248 280-345281/4	10081604.D
Level 5	STD151248 280-345281/3	10081603.D
Level 6	STD161248 280-345281/2	10081602.D
Level 7	STD171248 280-345281/1	10081601.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
PCB-1248 Peak 1	0.6523 0.5104	0.6047 0.5096	0.5565	0.5374	0.5172	Lin1	4.2847	0.5075							1.0000		0.9900
PCB-1248 Peak 2	0.5252 0.4048	0.4902 0.3942	0.4427	0.4257	0.4065	Lin1	3.9742	0.3969							1.0000		0.9900
PCB-1248 Peak 3	0.5510 0.4454	0.5209 0.4426	0.4776	0.4676	0.4389	Lin1	3.3705	0.4400							1.0000		0.9900
PCB-1248 Peak 4	0.5295 0.4319	0.4889 0.4339	0.4668	0.4617	0.4421	Lin1	2.8423	0.4331							1.0000		0.9900
PCB-1248 Peak 5	0.6474 0.5130	0.6099 0.5047	0.5421	0.5283	0.4945	Lin1	4.2614	0.5009							1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 11:39 Calibration End Date: 10/08/2016 13:49 Calibration ID: 27240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11248 280-345281/7	10081607.D
Level 2	STD21248 280-345281/6	10081606.D
Level 3	STD31248 280-345281/5	10081605.D
Level 4	STD41248 280-345281/4	10081604.D
Level 5	STD51248 280-345281/3	10081603.D
Level 6	STD61248 280-345281/2	10081602.D
Level 7	STD71248 280-345281/1	10081601.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin1	4210238 98122046	7849705 128328309	14943231	35542379	67844758	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 2	BNB	Lin1	3389824 77815226	6363516 99286717	11888418	28154374	53322748	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 3	BNB	Lin1	3556460 85620605	6761473 111469869	12826258	30927195	57569150	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 4	BNB	Lin1	3417810 83017687	6346622 109263414	12535083	30535038	57989591	25.0 750	50.0 1000	100	250	500
PCB-1248 Peak 5	BNB	Lin1	4178481 98604410	7916930 127108281	14558797	34940042	64868315	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081601.D
 Lims ID: STDL71248
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 11:39:41 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL71248
 Misc. Info.: 280-0051591-001
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:23 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	259013268	1000.0	1000.0	
2	1.672	1.675	-0.003	251842746	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.019	4.016	0.003	130736864	1000.0	998.3	
1	4.382	4.379	0.003	139357490	1000.0	1002.7	
1	4.622	4.619	0.003	132288935	1000.0	988.2	
1	5.115	5.116	-0.001	123191463	1000.0	979.3	
1	5.139	5.139	0.000	99089367	1000.0	1022.8	
Average of Peak Amounts =						998.3	
2	4.069	4.069	0.000	128328309	1000.0	995.6	
2	4.732	4.733	-0.001	99286717	1000.0	983.4	
2	4.866	4.869	-0.003	111469869	1000.0	998.3	
2	5.179	5.183	-0.004	109263414	1000.0	995.1	
2	5.229	5.229	0.000	127108281	1000.0	999.2	
Average of Peak Amounts =						994.3	
RPD = 0.40							

S 8 Polychlorinated biphenyls, Total

1						998.3	
2						994.3	
RPD = 0.40							

Reagents:

AR_1248_L7_00012 Amount Added: 1.00 Units: mL
 BNB IS_00008 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 09-Oct-2016 09:27:23

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081601.D

Injection Date: 08-Oct-2016 11:39:41

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD71248

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

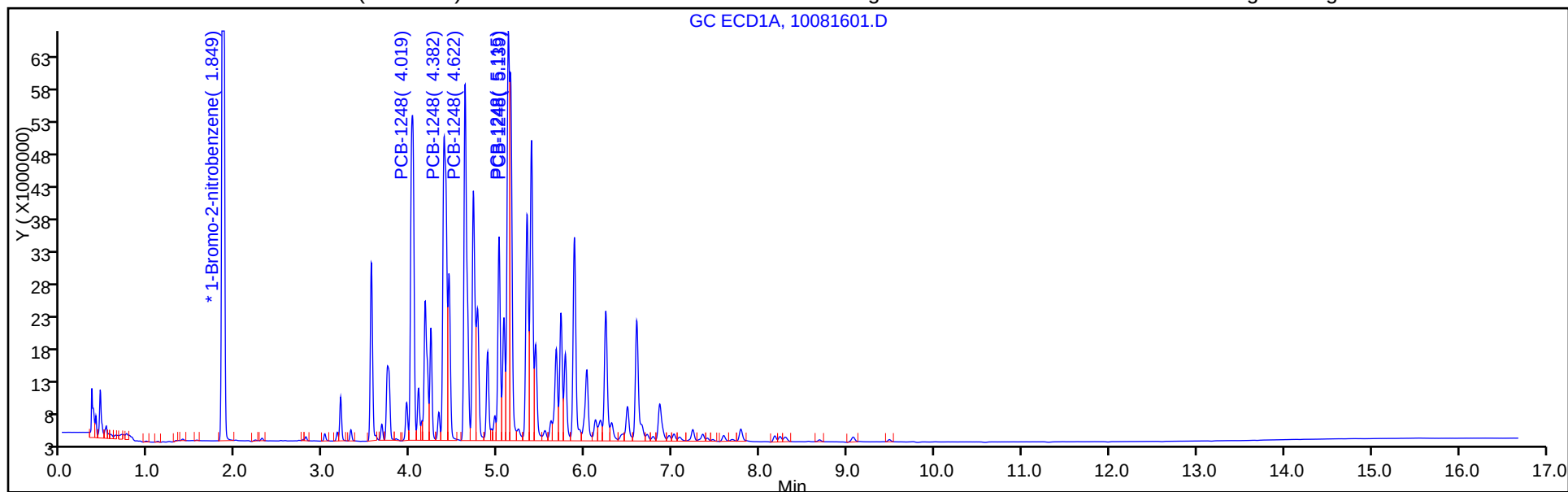
ALS Bottle#: 1

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

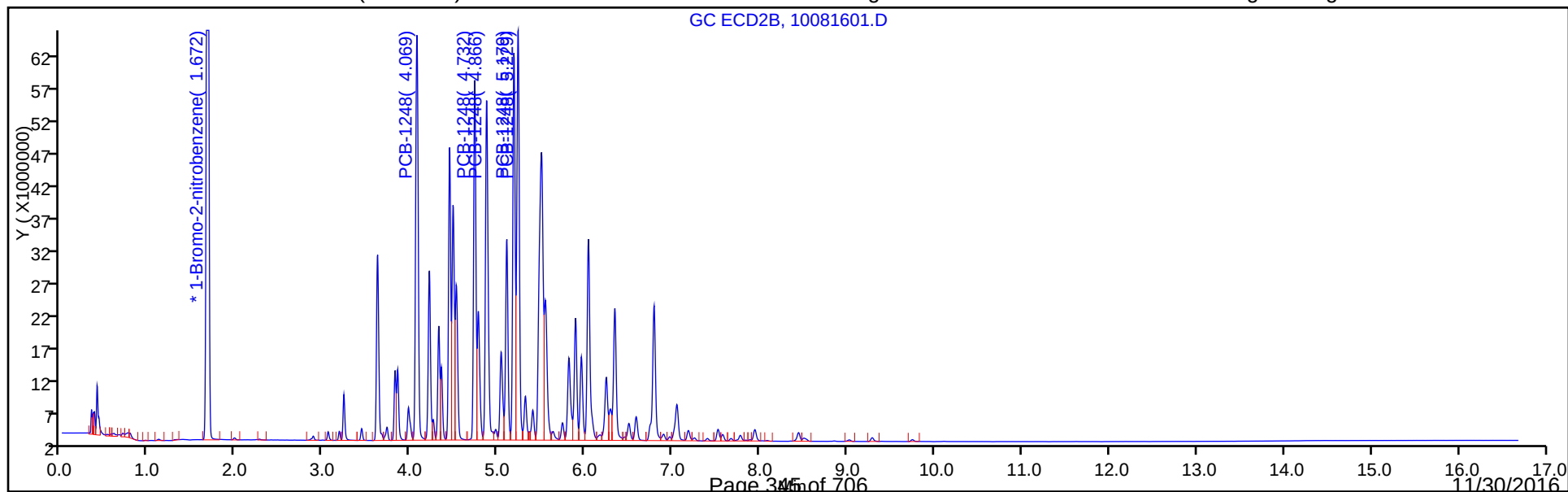
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081602.D
 Lims ID: STDL61248
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 12:01:20 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL61248
 Misc. Info.: 280-0051591-002
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 08-Oct-2016 12:28:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	265521550	1000.0	1000.0	
2	1.673	1.675	-0.002	256304452	1000.0	1000.0	
						RPD = 0.00	

4 PCB-1248

1	4.016	4.016	0.000	100376478	750.0	745.1	
1	4.379	4.379	0.000	105742134	750.0	738.8	
1	4.619	4.619	0.000	103510748	750.0	751.0	
1	5.116	5.116	0.000	99490860	750.0	770.0	
1	5.139	5.139	0.000	73059614	750.0	732.7	
Average of Peak Amounts =						747.5	
2	4.069	4.069	0.000	98122046	750.0	745.9	
2	4.733	4.733	0.000	77815226	750.0	755.0	
2	4.869	4.869	0.000	85620605	750.0	751.6	
2	5.183	5.183	0.000	83017687	750.0	741.2	
2	5.229	5.229	0.000	98604410	750.0	759.6	
Average of Peak Amounts =						750.7	

RPD = 0.42

S 8 Polychlorinated biphenyls, Total

1						747.5	
2						750.7	
						RPD = 0.42	

Reagents:

AR_1248_L6_00014

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:25

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081602.D

Injection Date: 08-Oct-2016 12:01:20

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD61248

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

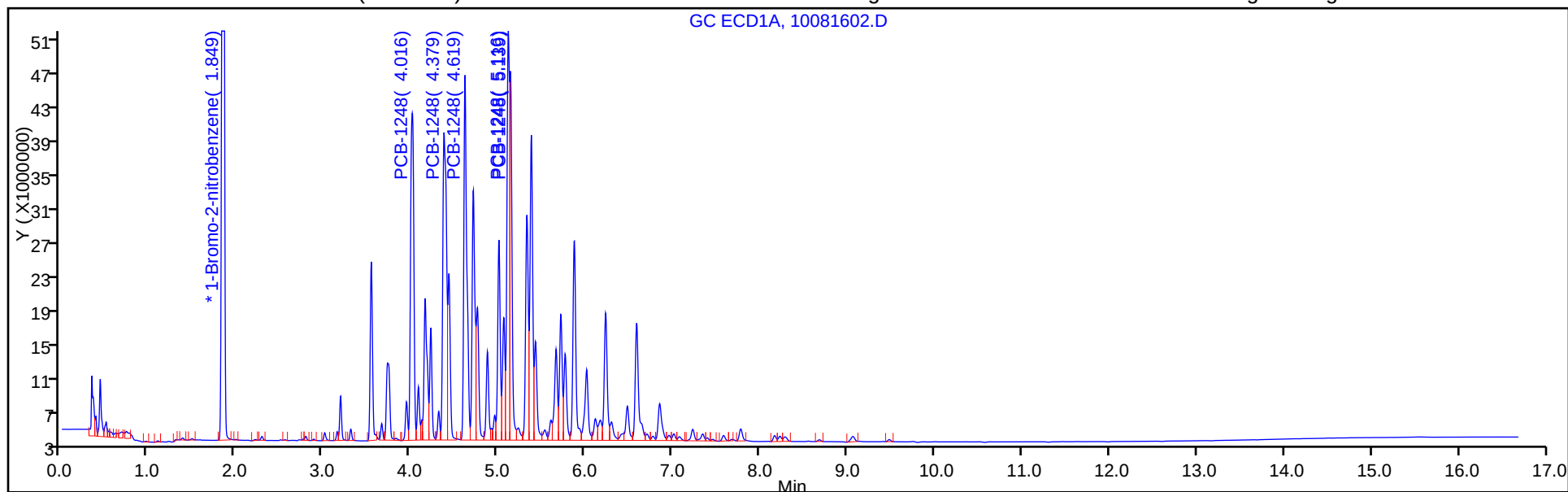
ALS Bottle#: 2

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

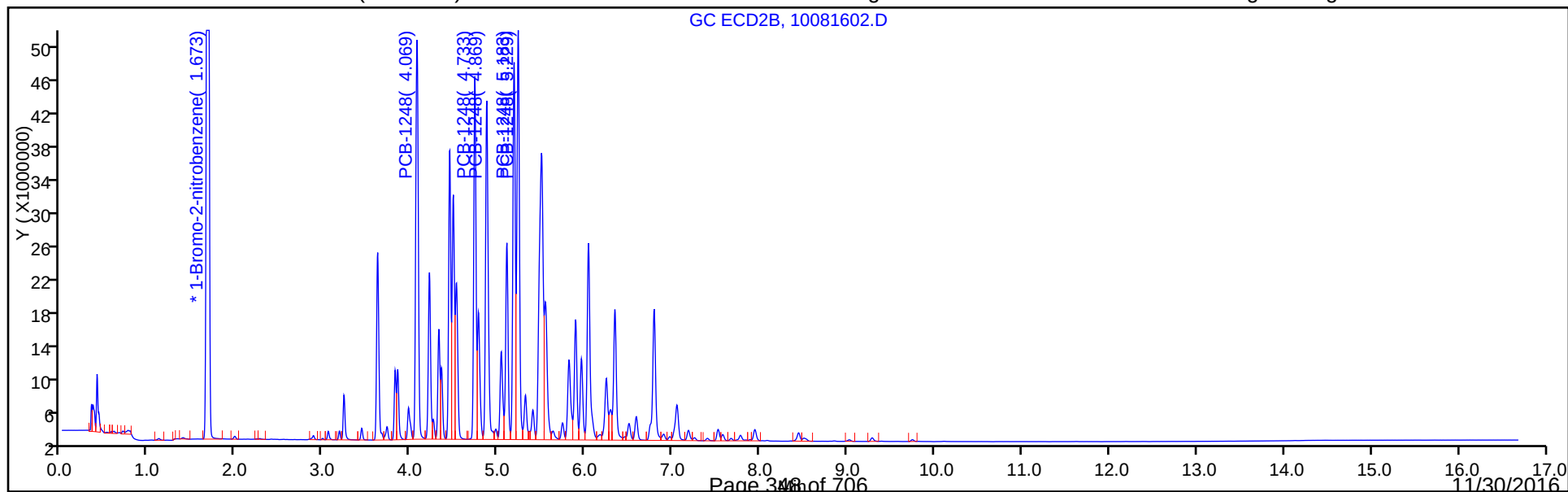
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081603.D
 Lims ID: STDL51248
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 12:22:59 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL51248
 Misc. Info.: 280-0051591-003
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:26 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 08:59:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	272570532	1000.0	1000.0	
2	1.676	1.676	0.000	262361109	1000.0	1000.0	
						RPD = 0.00	

4 PCB-1248

1	4.016	4.016	0.000	69479983	500.0	499.0	
1	4.379	4.379	0.000	73026380	500.0	492.8	
1	4.619	4.619	0.000	71406024	500.0	500.2	
1	5.116	5.116	0.000	66959345	500.0	502.3	
1	5.139	5.139	0.000	49183526	500.0	476.9	
Average of Peak Amounts =						494.2	
2	4.069	4.069	0.000	67844758	500.0	501.1	
2	4.733	4.733	0.000	53322748	500.0	502.1	
2	4.869	4.869	0.000	57569150	500.0	491.0	
2	5.183	5.183	0.000	57989591	500.0	503.7	
2	5.229	5.229	0.000	64868315	500.0	485.1	
Average of Peak Amounts =						496.6	

RPD = 0.48

Reagents:

AR_1248_L5_00016	Amount Added: 1.00	Units: mL	
BNB IS_00008	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 09-Oct-2016 09:27:27

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081603.D

Injection Date: 08-Oct-2016 12:22:59

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD151248

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

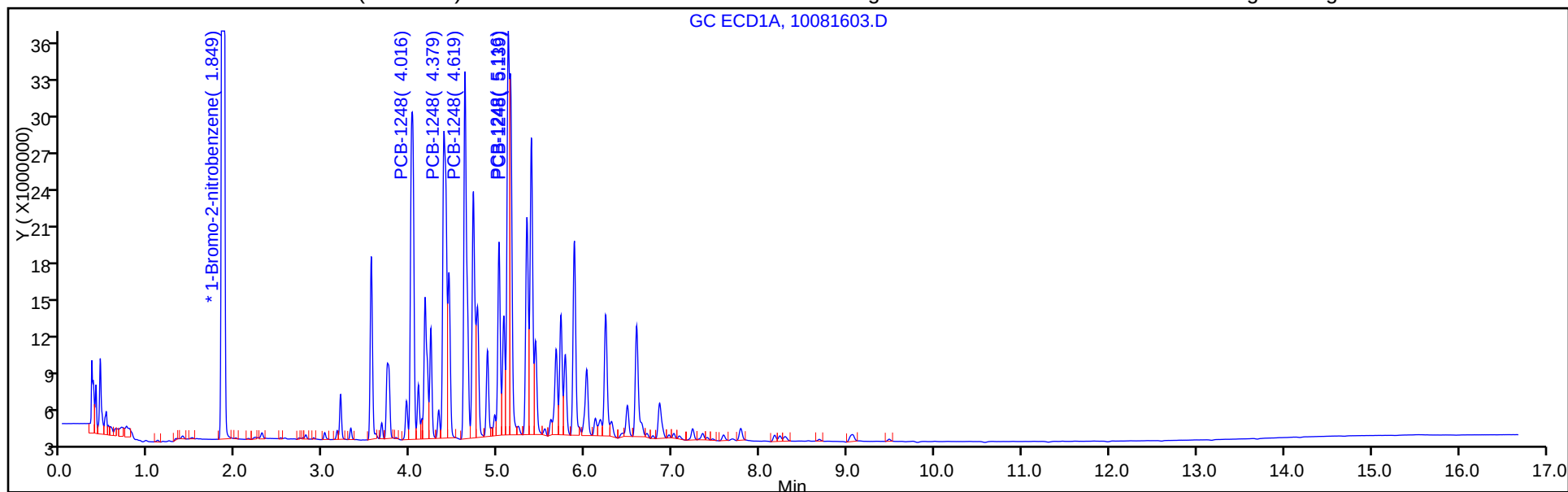
ALS Bottle#: 3

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

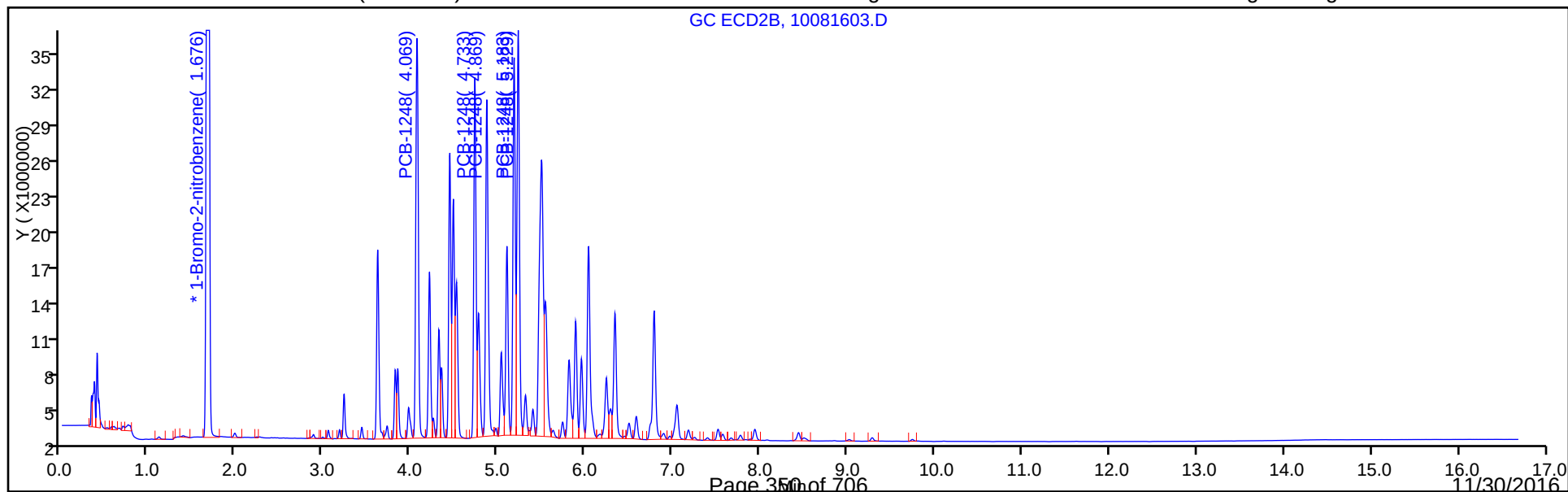
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081604.D
 Lims ID: STDL41248
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 12:44:36 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL41248
 Misc. Info.: 280-0051591-004
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:28 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	276693898	1000.0	1000.0	
2	1.675	1.676	-0.001	264568913	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.015	4.016	-0.001	36870209	250.0	256.0	
1	4.378	4.379	-0.001	40361030	250.0	262.4	
1	4.618	4.619	-0.001	38362532	250.0	258.3	
1	5.115	5.116	-0.001	34516669	250.0	251.4	
1	5.138	5.139	-0.001	28308910	250.0	265.9	
Average of Peak Amounts =						258.8	
2	4.069	4.069	0.000	35542379	250.0	256.3	
2	4.732	4.733	-0.001	28154374	250.0	258.1	
2	4.869	4.869	0.000	30927195	250.0	258.0	
2	5.182	5.183	-0.001	30535038	250.0	259.9	
2	5.229	5.229	0.000	34940042	250.0	255.2	
Average of Peak Amounts =						257.5	
RPD = 0.50							

S 8 Polychlorinated biphenyls, Total

1						258.8	
2						257.5	
RPD = 0.50							

Reagents:

AR_1248_L4_00017 Amount Added: 1.00 Units: mL
 BNB IS_00008 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 09-Oct-2016 09:27:29

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081604.D

Injection Date: 08-Oct-2016 12:44:36

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD41248

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

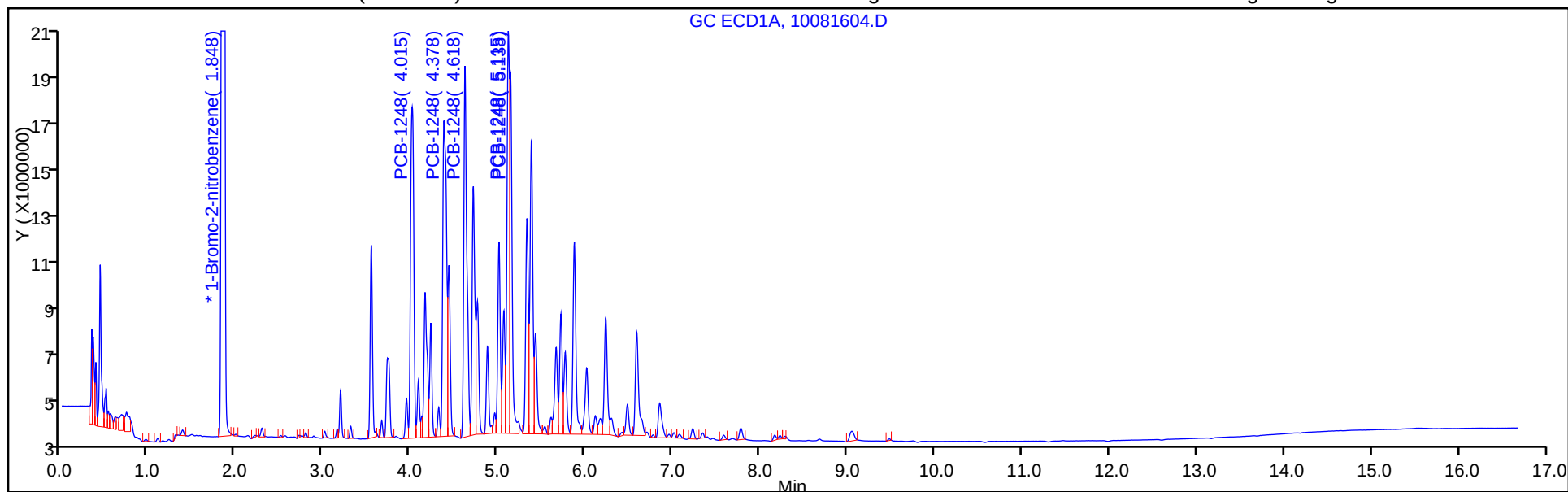
ALS Bottle#: 4

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

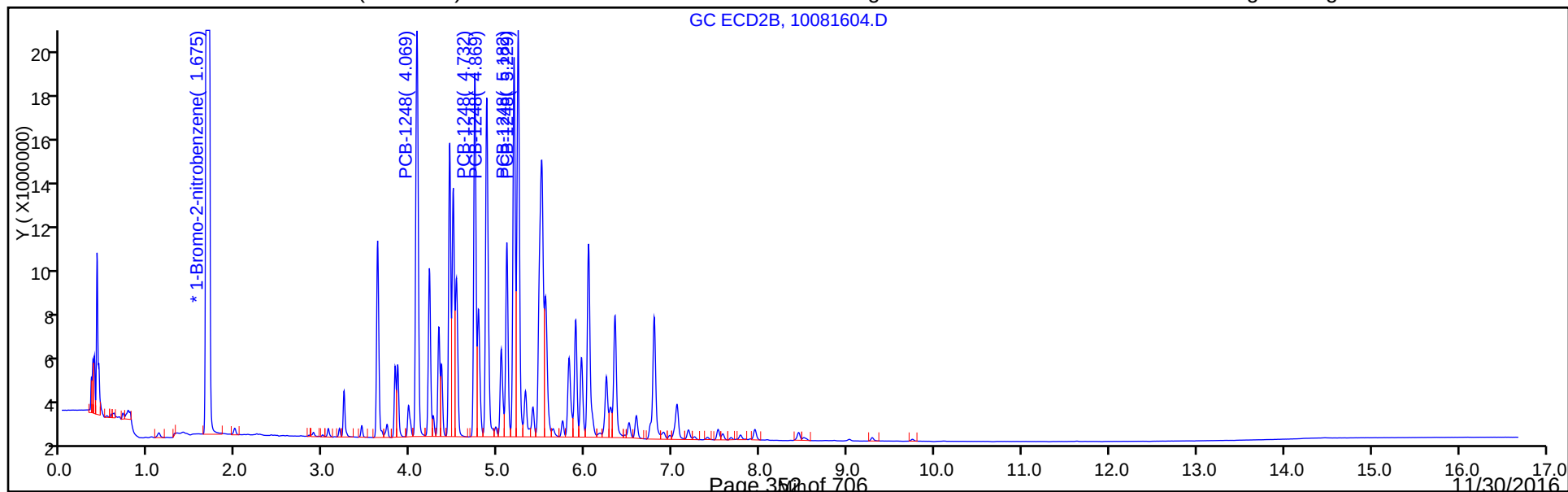
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081605.D
 Lims ID: STDL31248
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 13:06:17 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL31248
 Misc. Info.: 280-0051591-005
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:30 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:15:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	281803151	1000.0	1000.0	
2	1.676	1.676	0.000	268538234	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.016	4.016	0.000	15814330	100.0	101.8	
1	4.379	4.379	0.000	17524761	100.0	104.4	
1	4.619	4.619	0.000	16729350	100.0	102.8	
1	5.116	5.116	0.000	13988290	100.0	95.6	
1	5.139	5.139	0.000	11670371	100.0	101.4	
Average of Peak Amounts =						101.2	
2	4.069	4.069	0.000	14943231	100.0	101.2	
2	4.733	4.733	0.000	11888418	100.0	101.5	
2	4.869	4.869	0.000	12826258	100.0	100.9	
2	5.183	5.183	0.000	12535083	100.0	101.2	
2	5.229	5.229	0.000	14558797	100.0	99.7	
Average of Peak Amounts =						100.9	

RPD = 0.30

S 8 Polychlorinated biphenyls, Total

1						101.2	
2						100.9	
RPD = 0.30							

Reagents:

AR_1248_L3_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:30

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081605.D

Injection Date: 08-Oct-2016 13:06:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD131248

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

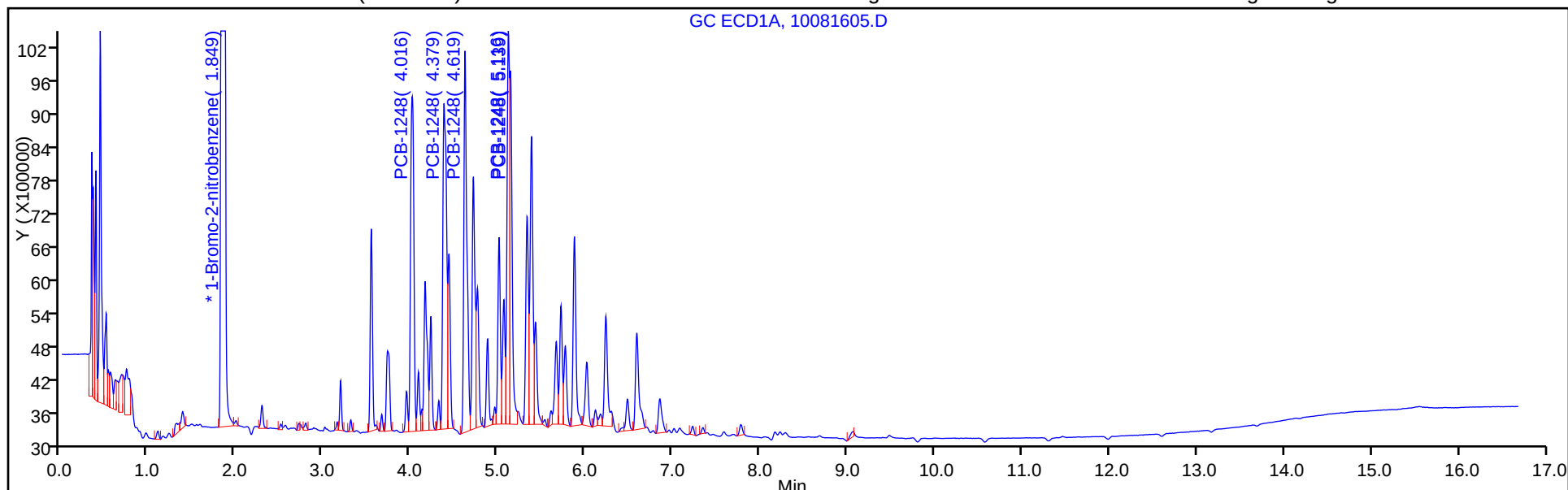
ALS Bottle#: 5

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

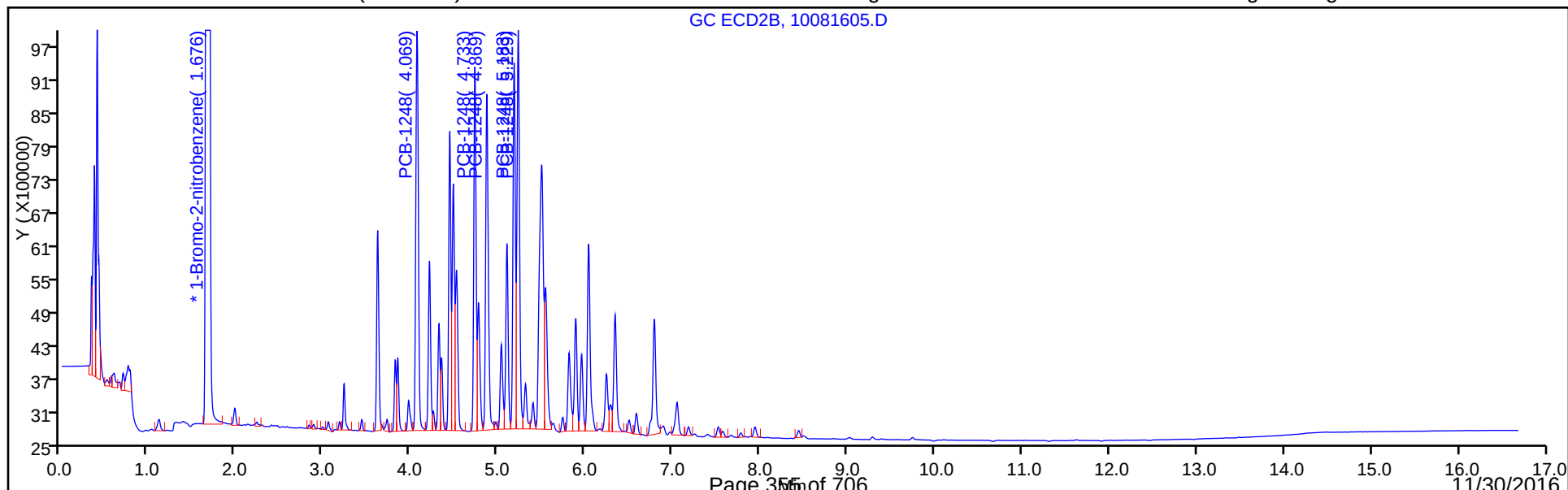
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081606.D
 Lims ID: STDL21248
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 13:27:56 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL21248
 Misc. Info.: 280-0051591-006
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:31 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:16:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	271581344	1000.0	1000.0	
2	1.673	1.676	-0.003	259611401	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

M

1	4.016	4.016	0.000	8376509	50.0	51.3	
1	4.379	4.379	0.000	9209721	50.0	51.1	
1	4.619	4.619	0.000	9008367	50.0	51.4	
1	5.116	5.116	0.000	7697525	50.0	51.4	M
1	5.139	5.139	0.000	6284549	50.0	52.1	M

Average of Peak Amounts = 51.5

2	4.069	4.069	0.000	7849705	50.0	51.1	
2	4.733	4.733	0.000	6363516	50.0	51.8	
2	4.869	4.869	0.000	6761473	50.0	51.5	
2	5.183	5.183	0.000	6346622	50.0	49.9	
2	5.229	5.229	0.000	7916930	50.0	52.4	

Average of Peak Amounts = 51.3

RPD = 0.25

S 8 Polychlorinated biphenyls, Total

1						51.5	
2						51.3	
RPD = 0.25							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1248_L2_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:32

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081606.D

Injection Date: 08-Oct-2016 13:27:56

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD L21248

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

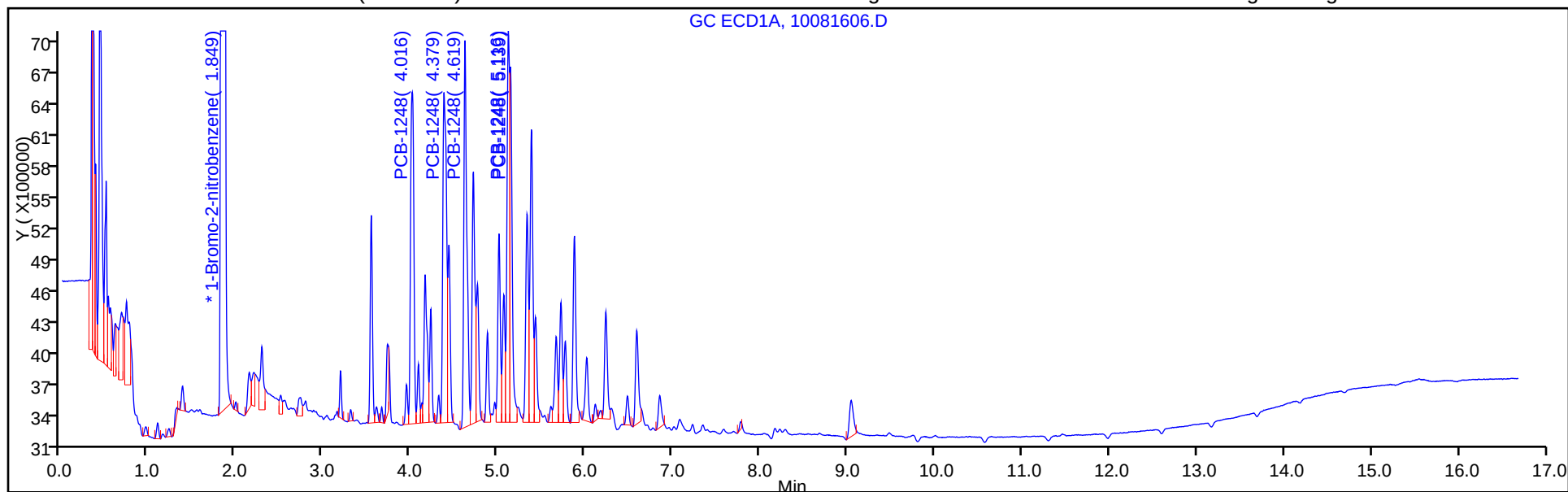
ALS Bottle#: 6

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

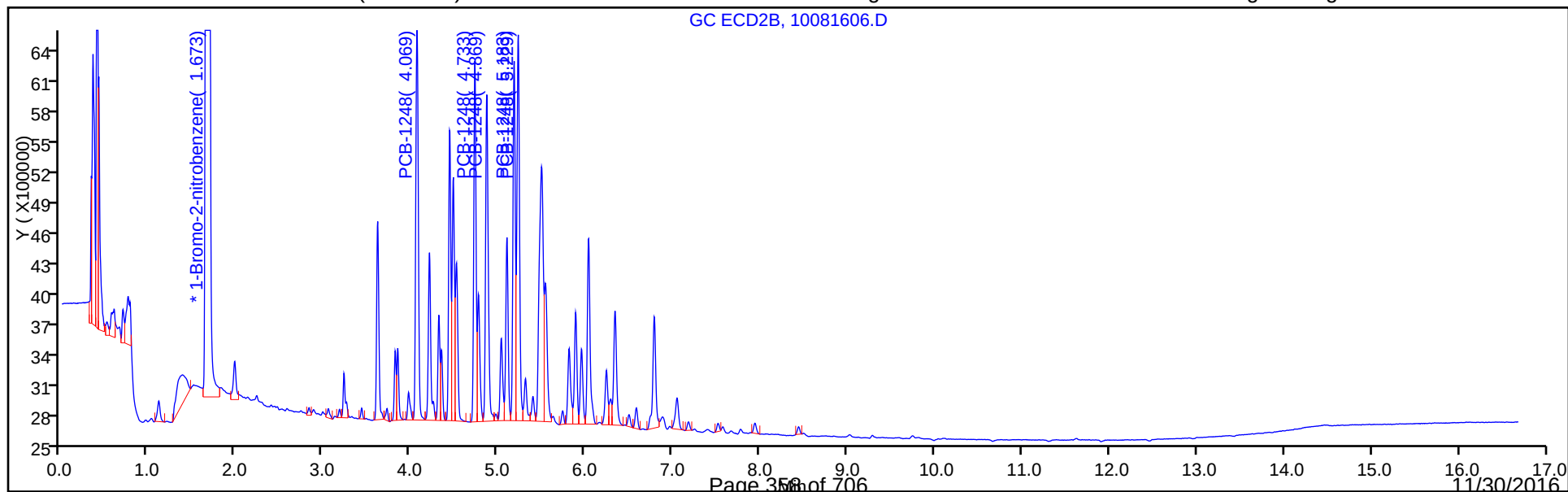
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081607.D
 Lims ID: STDL11248
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 13:49:37 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL11248
 Misc. Info.: 280-0051591-007
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub2
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:33 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:17:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	273538542	1000.0	1000.0	
2	1.674	1.676	-0.002	258183302	1000.0	1000.0	

RPD = 0.00

4 PCB-1248

1	4.014	4.016	-0.002	4632964	25.0	23.5	M
1	4.381	4.379	0.002	5180031	25.0	22.8	
1	4.621	4.619	0.002	5113750	25.0	23.0	
1	5.118	5.116	0.002	4268535	25.0	25.0	M
1	5.138	5.139	-0.001	3399014	25.0	23.2	M

Average of Peak Amounts = 23.5

2	4.071	4.069	0.002	4210238	25.0	23.7	
2	4.734	4.733	0.001	3389824	25.0	23.1	
2	4.868	4.869	-0.001	3556460	25.0	23.6	
2	5.181	5.183	-0.002	3417810	25.0	24.0	
2	5.228	5.229	-0.001	4178481	25.0	23.8	

Average of Peak Amounts = 23.6

RPD = 0.61

S 8 Polychlorinated biphenyls, Total

1						23.5	
2						23.6	

RPD = 0.61

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1248_L1_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:34

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081607.D

Injection Date: 08-Oct-2016 13:49:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD11248

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

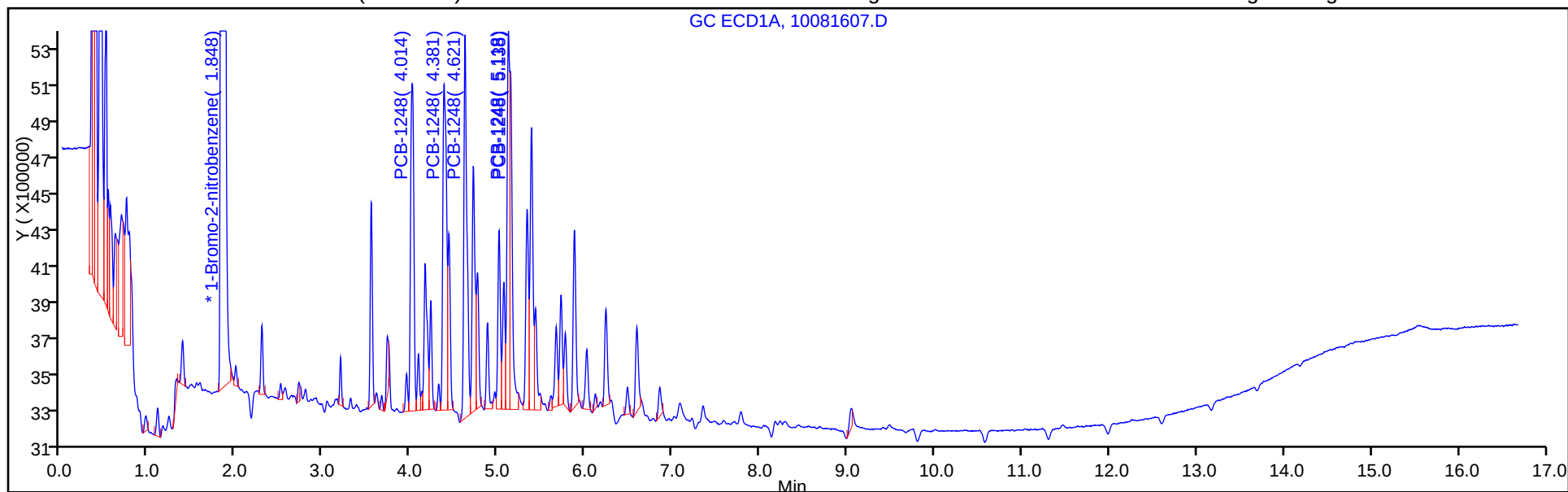
ALS Bottle#: 7

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

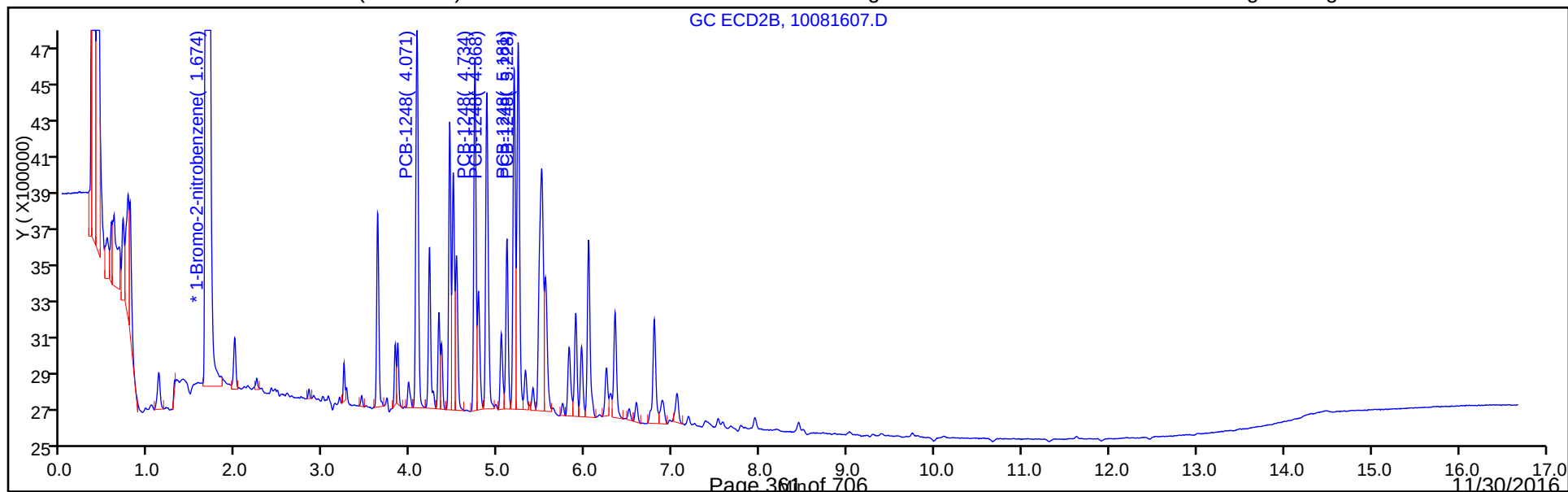
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 14:11 Calibration End Date: 10/08/2016 16:21 Calibration ID: 27243

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD12154 280-345281/14	10081614.D
Level 2	STD122154 280-345281/13	10081613.D
Level 3	STD132154 280-345281/12	10081612.D
Level 4	STD142154 280-345281/11	10081611.D
Level 5	STD152154 280-345281/10	10081610.D
Level 6	STD162154 280-345281/9	10081609.D
Level 7	STD172154 280-345281/8	10081608.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.1821 0.1131	0.1532 0.1156	0.1486	0.1302	0.1350	Lin1	2.0102	0.1172							0.9940		0.9900
PCB-1221 Peak 2	0.1273 0.0768	0.1088 0.0766	0.0985	0.0846	0.0914	Lin1	1.4923	0.0782							0.9940		0.9900
PCB-1221 Peak 3	0.4545 0.2894	0.3857 0.2762	0.3613	0.3181	0.3212	Lin1	5.2092	0.2855							0.9960		0.9900
PCB-1254 Peak 1	0.7907 0.5720	0.6950 0.5604	0.6395	0.5880	0.6319	Lin1	6.1160	0.5712							0.9980		0.9900
PCB-1254 Peak 2	0.6098 0.4691	0.5231 0.4527	0.5320	0.4607	0.5147	Lin1	3.9058	0.4652							0.9970		0.9900
PCB-1254 Peak 3	1.0313 0.7856	0.8991 0.7723	0.8889	0.7834	0.8634	Lin1	6.6881	0.7857							0.9980		0.9900
PCB-1254 Peak 4	0.7584 0.5925	0.6886 0.5846	0.7678	0.6221	0.6525	Lin1	6.2048	0.5972							0.9960		0.9900
PCB-1254 Peak 5	1.0899 0.8259	0.9728 0.8089	0.9346	0.8342	0.9058	Lin1	7.6716	0.8244							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 14:11 Calibration End Date: 10/08/2016 16:21 Calibration ID: 27243

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD12154 280-345281/14	10081614.D
Level 2	STD122154 280-345281/13	10081613.D
Level 3	STD132154 280-345281/12	10081612.D
Level 4	STD142154 280-345281/11	10081611.D
Level 5	STD152154 280-345281/10	10081610.D
Level 6	STD162154 280-345281/9	10081609.D
Level 7	STD172154 280-345281/8	10081608.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin1	1260306 22866436	2103559 31121751	4090911	9148083	18382021	25.0 750	50.0 1000	100	250	500
PCB-1221 Peak 2	BNB	Lin1	881311 15528238	1494052 20621681	2711634	5941861	12446726	25.0 750	50.0 1000	100	250	500
PCB-1221 Peak 3	BNB	Lin1	3146378 58518497	5296623 74356663	9946625	22352344	43728816	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 1	BNB	Lin1	5473714 115671475	9545603 150885472	17604886	41322876	86033598	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 2	BNB	Lin1	4220959 94874289	7183911 121869708	14644970	32373571	70080268	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 3	BNB	Lin1	7139210 158866867	12348592 207922692	24468733	55050614	117566919	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 4	BNB	Lin1	5249823 119826078	9457275 157404765	21134217	43717209	88845555	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 5	BNB	Lin1	7544355 167011781	13361226 217779989	25726260	58617922	123339491	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081608.D
 Lims ID: STDL72154
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 14:11:16 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL72154
 Misc. Info.: 280-0051591-008
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.851	1.849	0.002	269232670	1000.0	1000.0	
2	1.674	1.676	-0.002	258362097	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.011	3.012	-0.001	31121751	1000.0	969.3	
1	3.154	3.155	-0.001	20621681	1000.0	961.0	
1	3.194	3.195	-0.001	74356663	1000.0	949.2	
Average of Peak Amounts =						959.8	
2	3.054	3.052	0.002	32942936	1000.0	957.6	
2	3.181	3.182	-0.001	20938508	1000.0	953.9	
2	3.234	3.236	-0.002	73582489	1000.0	946.0	
Average of Peak Amounts =						952.5	
						RPD = 0.77	

9 PCB-1254

1	5.384	5.382	0.002	150885472	1000.0	970.4	
1	5.717	5.715	0.002	121869708	1000.0	964.7	
1	5.871	5.872	-0.001	207922692	1000.0	974.4	
1	6.231	6.229	0.002	157404765	1000.0	968.6	
1	6.847	6.849	-0.002	217779989	1000.0	971.8	
Average of Peak Amounts =						970.0	
2	5.468	5.469	-0.001	140741741	1000.0	973.4	
2	5.888	5.886	0.002	105408523	1000.0	973.6	
2	6.034	6.032	0.002	192171388	1000.0	969.6	
2	6.338	6.336	0.002	142128238	1000.0	964.6	
2	7.048	7.046	0.002	198624137	1000.0	971.3	
Average of Peak Amounts =						970.5	
						RPD = 0.05	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081608.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 1929.8

2 1923.0

RPD = 0.35

Reagents:

AR_2154_L7_00012

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:35

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081608.D

Injection Date: 08-Oct-2016 14:11:16

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD72154

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

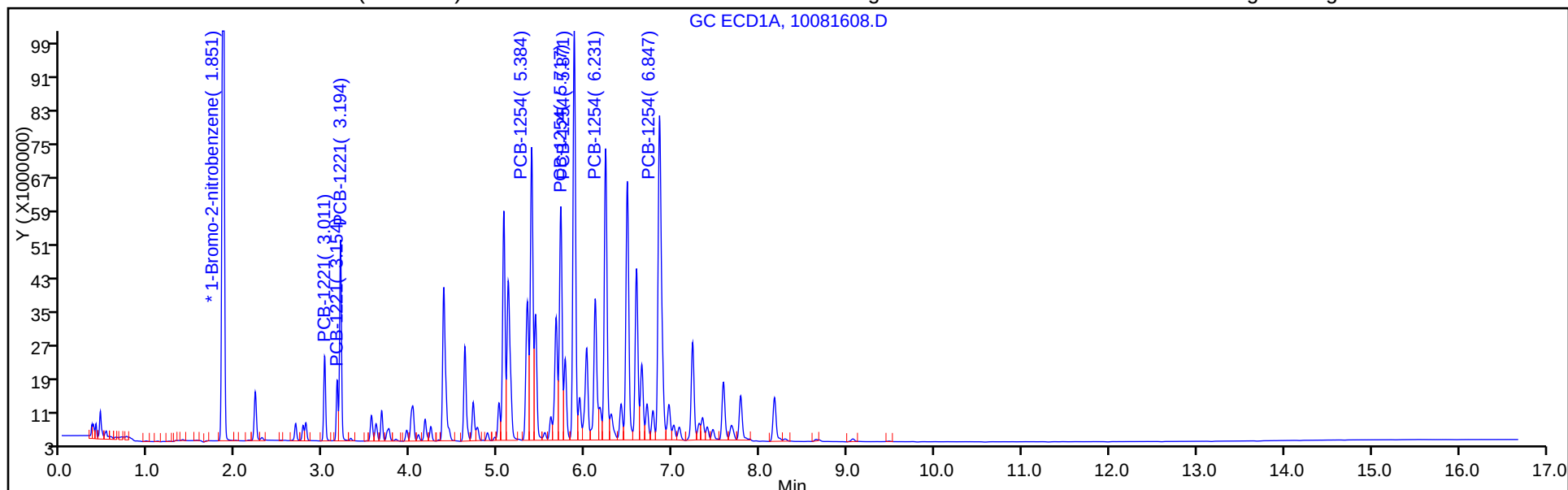
ALS Bottle#: 8

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

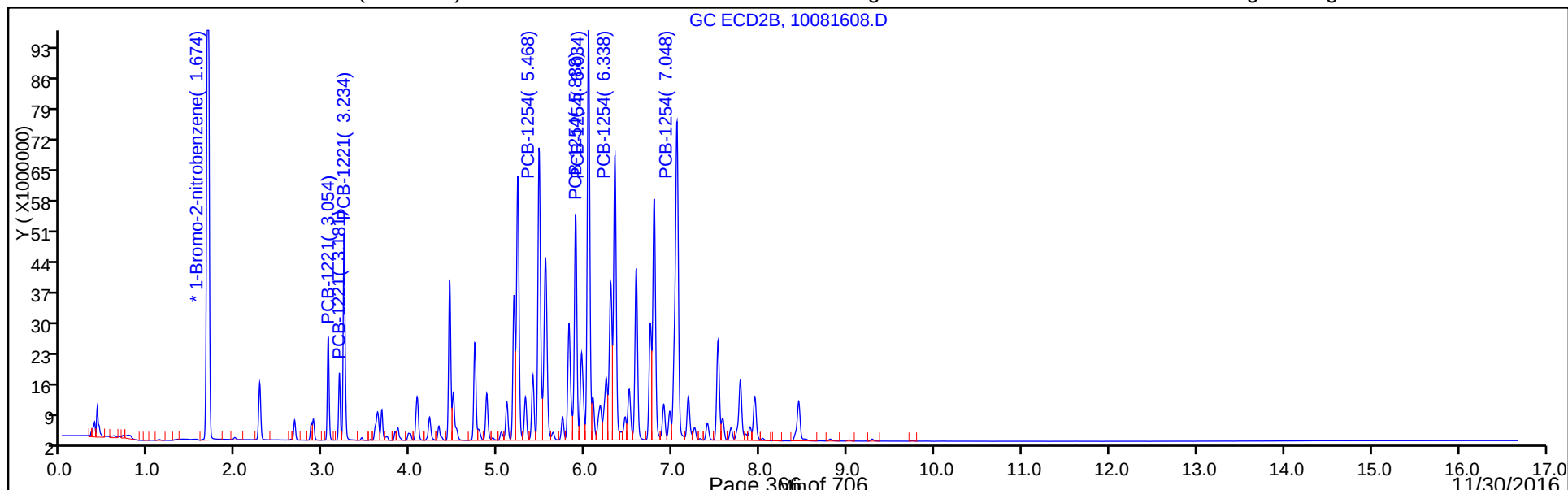
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081609.D
 Lims ID: STDL62154
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 14:32:58 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL62154
 Misc. Info.: 280-0051591-009
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:37 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	269638864	1000.0	1000.0	
2	1.676	1.676	0.000	258972991	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.012	3.012	0.000	22866436	750.0	706.6	
1	3.156	3.155	0.001	15528238	750.0	717.8	
1	3.192	3.195	-0.003	58518497	750.0	742.0	
Average of Peak Amounts =						722.1	
2	3.053	3.052	0.001	25631969	750.0	740.3	
2	3.183	3.182	0.001	16303008	750.0	738.1	
2	3.233	3.236	-0.003	57816652	750.0	737.7	
Average of Peak Amounts =						738.7	
						RPD = 2.27	

9 PCB-1254

1	5.382	5.382	0.000	115671475	750.0	740.3	
1	5.716	5.715	0.001	94874289	750.0	748.0	
1	5.872	5.872	0.000	158866867	750.0	741.3	
1	6.229	6.229	0.000	119826078	750.0	733.7	
1	6.849	6.849	0.000	167011781	750.0	742.0	
Average of Peak Amounts =						741.1	
2	5.469	5.469	0.000	107013897	750.0	735.7	
2	5.886	5.886	0.000	80569460	750.0	740.6	
2	6.032	6.032	0.000	147075721	750.0	737.2	
2	6.336	6.336	0.000	109033624	750.0	736.0	
2	7.046	7.046	0.000	151600315	750.0	737.2	
Average of Peak Amounts =						737.3	
						RPD = 0.50	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081609.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1

1463.2

2

1476.1

RPD = 0.87

Reagents:

AR_2154_L6_00014

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:37

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081609.D

Injection Date: 08-Oct-2016 14:32:58

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD62154

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

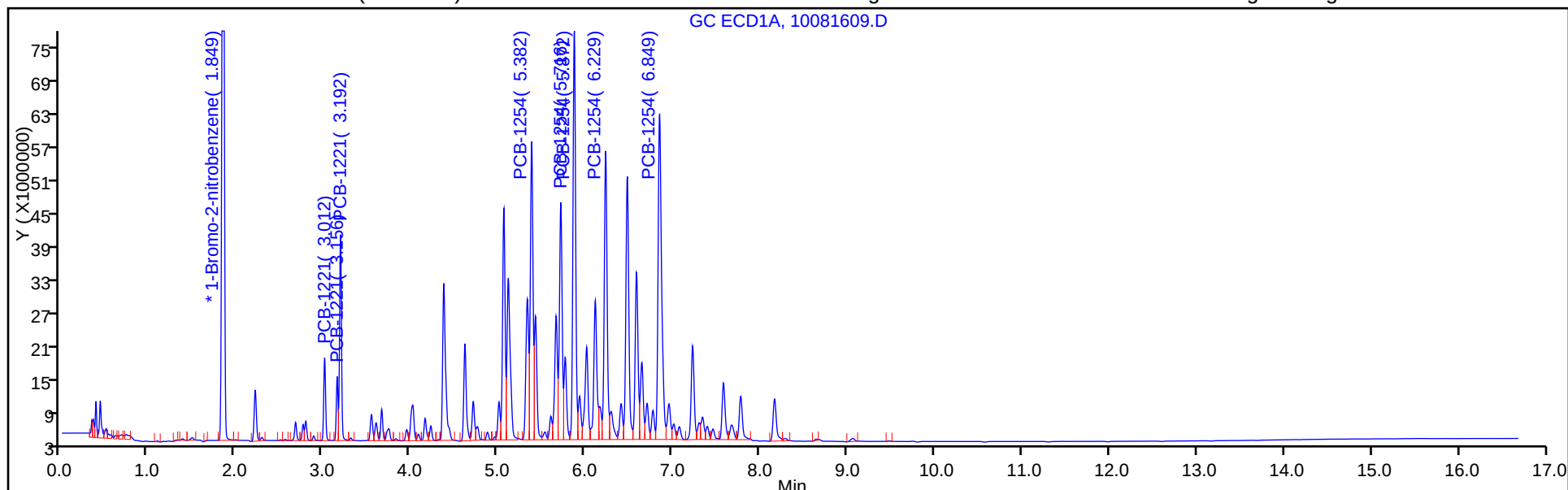
ALS Bottle#: 9

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

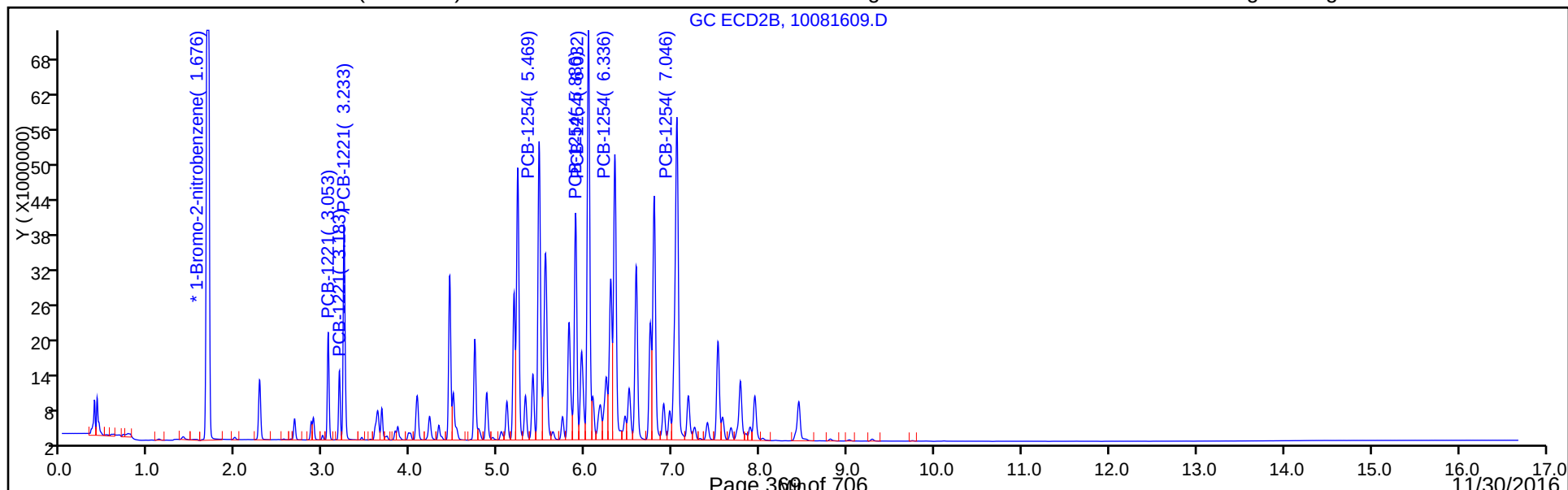
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081610.D
 Lims ID: STDL52154
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 14:54:37 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL52154
 Misc. Info.: 280-0051591-010
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:39 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 08:59:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	272320112	1000.0	1000.0	
2	1.676	1.676	0.000	259054874	1000.0	1000.0	
						RPD =	0.00

3 PCB-1221

1	3.012	3.012	0.000	18382021	500.0	558.9	
1	3.155	3.155	0.000	12446726	500.0	565.7	
1	3.195	3.195	0.000	43728816	500.0	544.3	
Average of Peak Amounts =						556.3	
2	3.052	3.052	0.000	19045461	500.0	546.3	
2	3.182	3.182	0.000	12153048	500.0	546.8	
2	3.236	3.236	0.000	43622061	500.0	552.1	
Average of Peak Amounts =						548.4	
						RPD =	1.43

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081610.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.382	5.382	0.000	86033598	500.0	542.4	
1	5.715	5.715	0.000	70080268	500.0	544.8	
1	5.872	5.872	0.000	117566919	500.0	540.9	
1	6.229	6.229	0.000	88845555	500.0	535.9	
1	6.849	6.849	0.000	123339491	500.0	540.1	

Average of Peak Amounts = 540.8

2	5.469	5.469	0.000	79004330	500.0	540.1	
2	5.886	5.886	0.000	58766371	500.0	538.0	
2	6.032	6.032	0.000	109336396	500.0	544.5	
2	6.336	6.336	0.000	81466458	500.0	547.3	
2	7.046	7.046	0.000	112253443	500.0	543.1	

Average of Peak Amounts = 542.6

RPD = 0.33

Reagents:

AR_2154_L5_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:39

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081610.D

Injection Date: 08-Oct-2016 14:54:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD152154

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

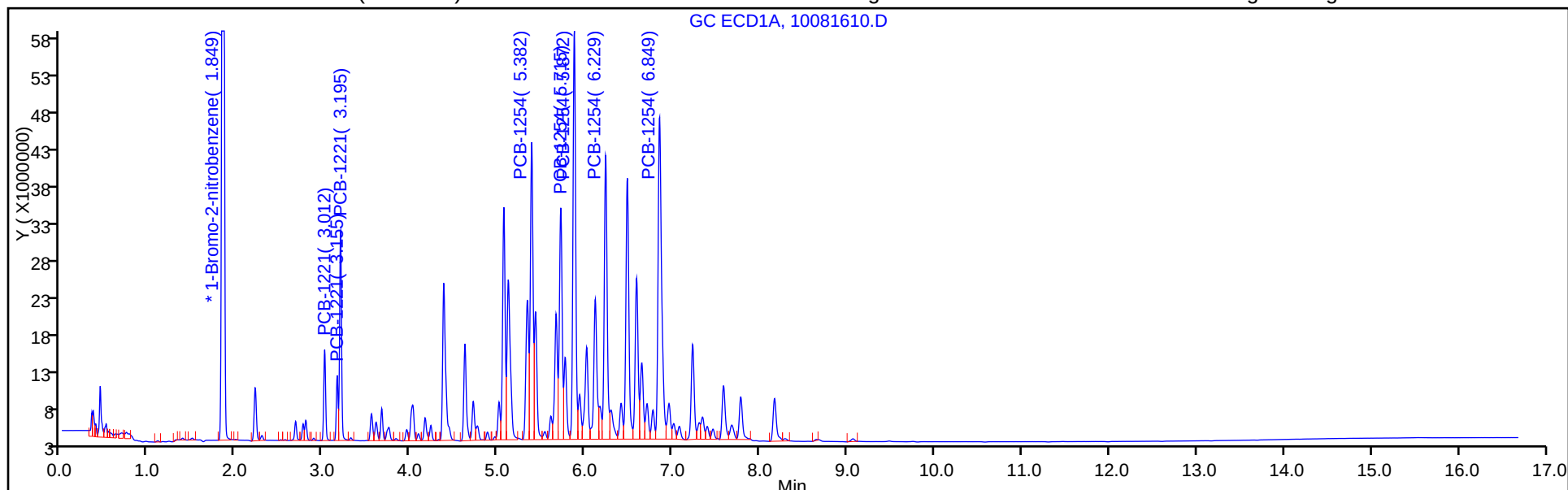
ALS Bottle#: 10

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

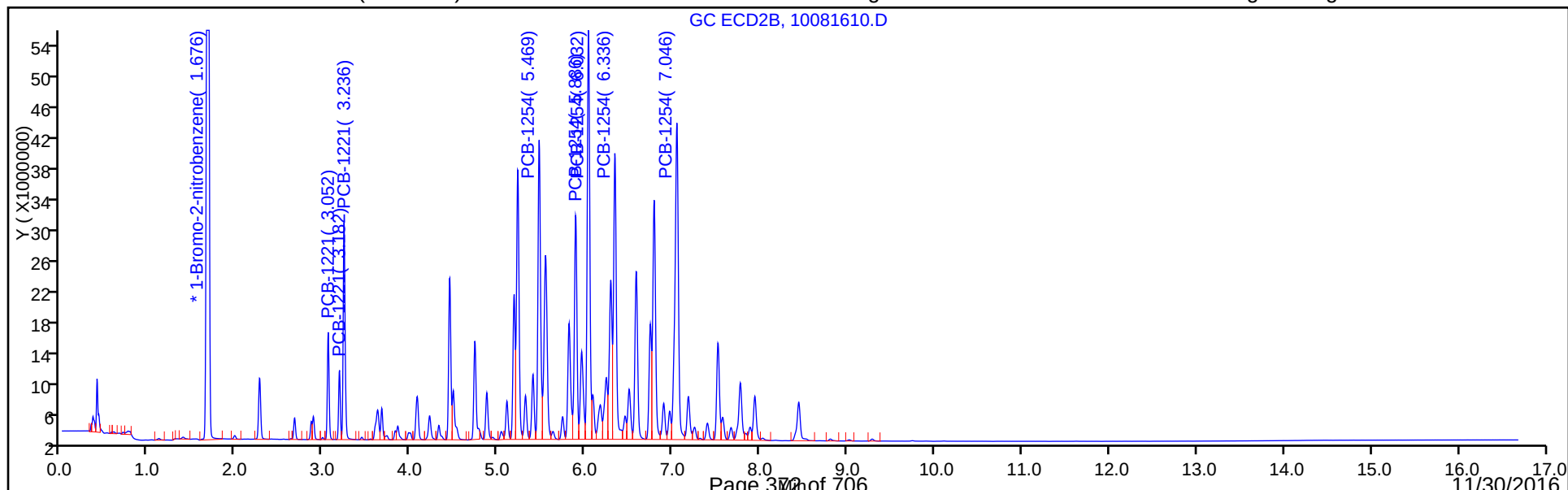
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081611.D
 Lims ID: STDL42154
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 15:16:17 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL42154
 Misc. Info.: 280-0051591-011
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:41 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	281085328	1000.0	1000.0	
2	1.676	1.676	0.000	269511166	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.013	3.012	0.001	9148083	250.0	260.6	
1	3.156	3.155	0.001	5941861	250.0	251.4	
1	3.193	3.195	-0.002	22352344	250.0	260.3	
Average of Peak Amounts =						257.4	
2	3.053	3.052	0.001	9459303	250.0	253.6	
2	3.183	3.182	0.001	6102545	250.0	257.4	
2	3.233	3.236	-0.003	22172563	250.0	260.7	
Average of Peak Amounts =						257.2	
						RPD = 0.08	

9 PCB-1254

1	5.383	5.382	0.001	41322876	250.0	246.7	
1	5.716	5.715	0.001	32373571	250.0	239.2	
1	5.873	5.872	0.001	55050614	250.0	240.7	
1	6.233	6.229	0.004	43717209	250.0	250.0	
1	6.849	6.849	0.000	58617922	250.0	243.6	
Average of Peak Amounts =						244.1	
2	5.469	5.469	0.000	38773462	250.0	249.0	
2	5.886	5.886	0.000	28597981	250.0	247.6	
2	6.033	6.032	0.001	53650433	250.0	249.9	
2	6.336	6.336	0.000	39806315	250.0	252.0	
2	7.046	7.046	0.000	54462736	250.0	247.9	
Average of Peak Amounts =						249.3	
						RPD = 2.11	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081611.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 501.5

2 506.5

RPD = 0.99

Reagents:

AR_2154_L4_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081611.D

Injection Date: 08-Oct-2016 15:16:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD42154

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

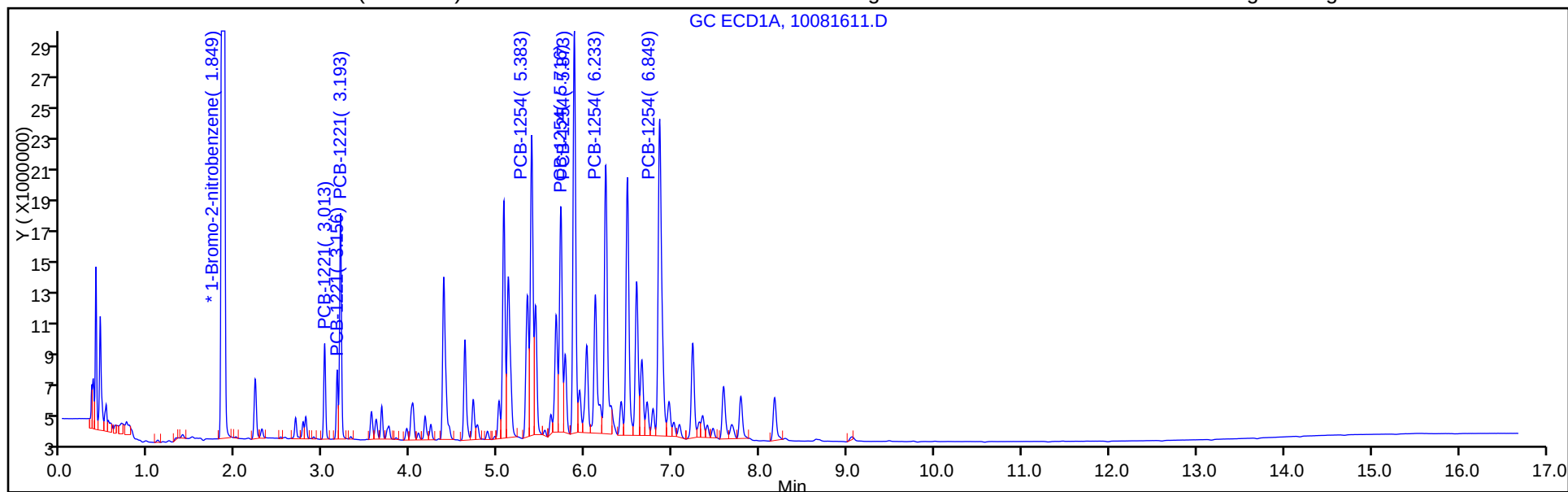
ALS Bottle#: 11

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

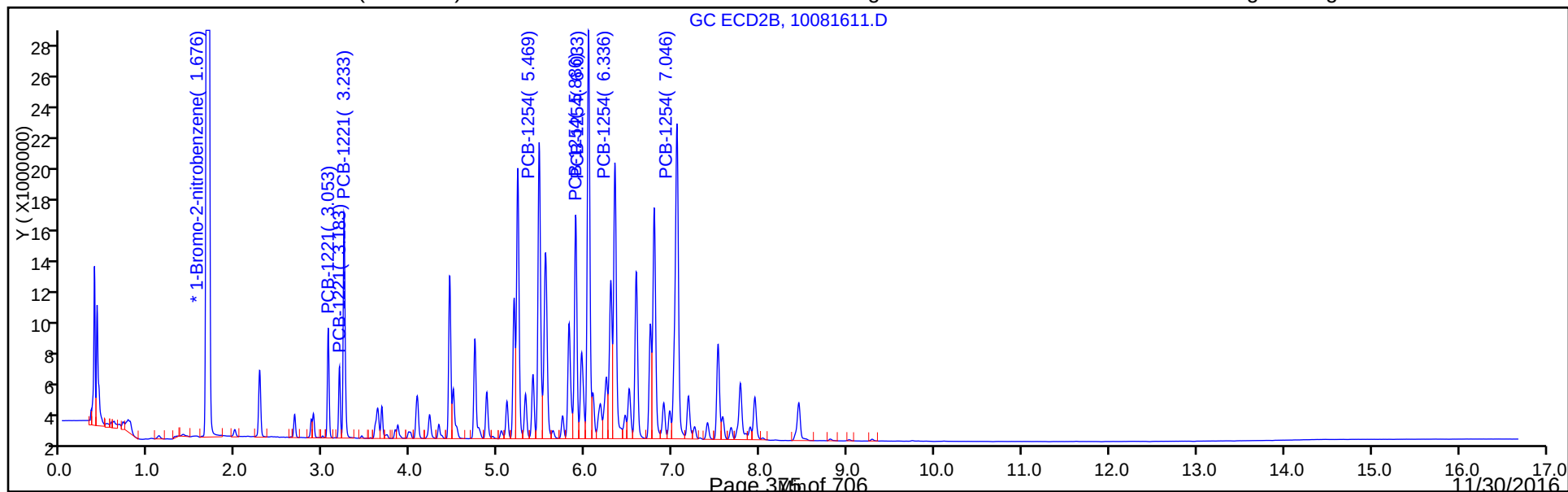
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081612.D
 Lims ID: STDL32154
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 15:37:57 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL32154
 Misc. Info.: 280-0051591-012
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:42 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.849	0.001	275270020	1000.0	1000.0	
2	1.673	1.676	-0.003	259575839	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.013	3.012	0.001	4090911	100.0	109.7	
1	3.156	3.155	0.001	2711634	100.0	107.0	
1	3.193	3.195	-0.002	9946625	100.0	108.3	
Average of Peak Amounts =						108.3	
2	3.053	3.052	0.001	4053216	100.0	105.1	
2	3.180	3.182	-0.002	2605449	100.0	107.0	
2	3.233	3.236	-0.003	9629371	100.0	107.9	
Average of Peak Amounts =						106.7	
						RPD = 1.51	

9 PCB-1254

1	5.383	5.382	0.001	17604886	100.0	101.3	
1	5.716	5.715	0.001	14644970	100.0	106.0	
1	5.873	5.872	0.001	24468733	100.0	104.6	
1	6.230	6.229	0.001	21134217	100.0	118.2	
1	6.850	6.849	0.001	25726260	100.0	104.1	
Average of Peak Amounts =						106.8	
2	5.470	5.469	0.001	16444205	100.0	103.5	
2	5.887	5.886	0.001	12028833	100.0	103.8	
2	6.033	6.032	0.001	22406798	100.0	101.0	
2	6.337	6.336	0.001	16593665	100.0	103.7	
2	7.047	7.046	0.001	22845753	100.0	102.3	
Average of Peak Amounts =						102.8	
						RPD = 3.79	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081612.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1	215.1
2	209.5
RPD = 2.64	

Reagents:

AR_2154_L3_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:43

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081612.D

Injection Date: 08-Oct-2016 15:37:57

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD132154

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

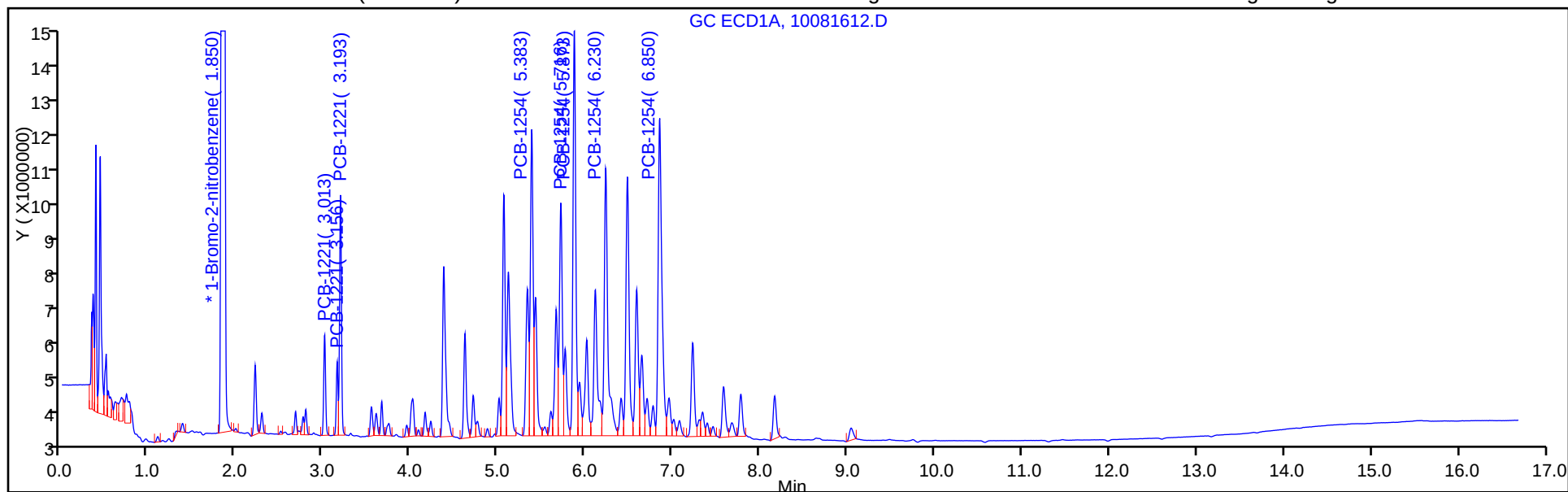
ALS Bottle#: 12

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

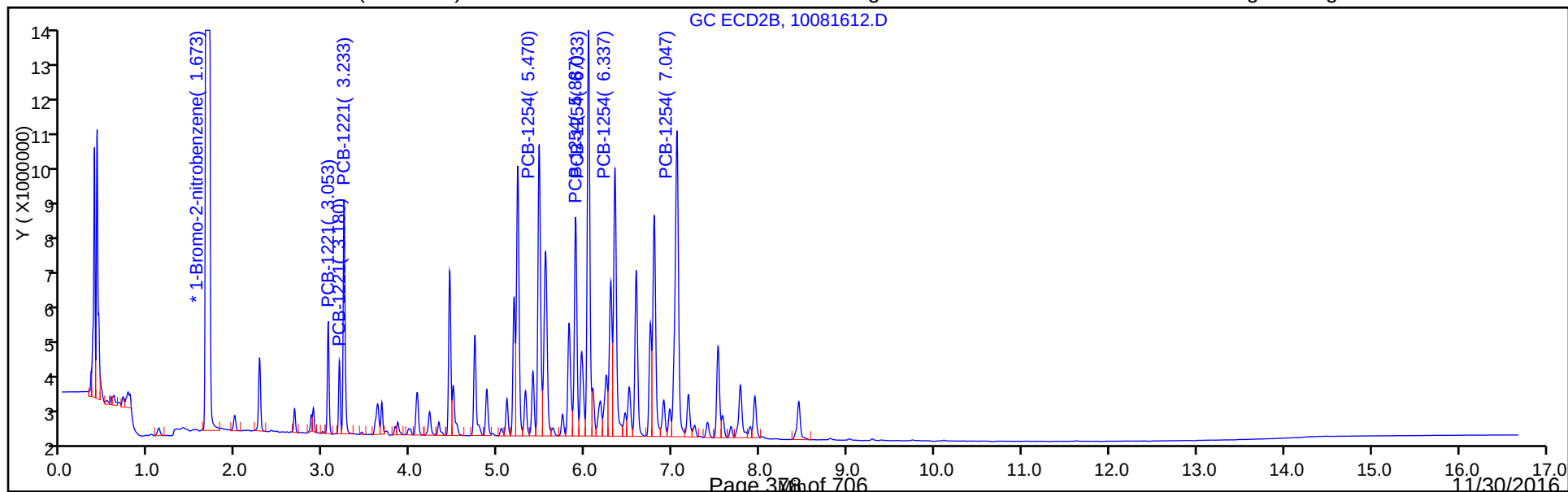
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081613.D
 Lims ID: STDL22154
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 15:59:37 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL22154
 Misc. Info.: 280-0051591-013
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:44 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	274682261	1000.0	1000.0	
2	1.675	1.676	-0.001	259356788	1000.0	1000.0	
RPD = 0.00							

3 PCB-1221

1	3.011	3.012	-0.001	2103559	50.0	48.2	
1	3.154	3.155	-0.001	1494052	50.0	50.5	
1	3.194	3.195	-0.001	5296623	50.0	49.3	
Average of Peak Amounts =							49.3
2	3.051	3.052	-0.001	2147920	50.0	49.3	
2	3.181	3.182	-0.001	1363390	50.0	50.0	
2	3.235	3.236	-0.001	5101274	50.0	48.9	
Average of Peak Amounts =							49.4
RPD = 0.16							

9 PCB-1254

1	5.384	5.382	0.002	9545603	50.0	50.1	
1	5.718	5.715	0.003	7183911	50.0	47.8	
1	5.871	5.872	-0.001	12348592	50.0	48.7	
1	6.231	6.229	0.002	9457275	50.0	47.3	
1	6.848	6.849	-0.001	13361226	50.0	49.7	
Average of Peak Amounts =							48.7
2	5.468	5.469	-0.001	8731074	50.0	49.8	
2	5.885	5.886	-0.001	5805015	50.0	46.2	
2	6.035	6.032	0.003	12044355	50.0	48.3	
2	6.338	6.336	0.002	8299413	50.0	47.2	
2	7.048	7.046	0.002	12050675	50.0	49.2	
Average of Peak Amounts =							48.1
RPD = 1.22							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081613.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 98.1

2 97.5

RPD = 0.52

Reagents:

AR_2154_L2_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:44

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081613.D

Injection Date: 08-Oct-2016 15:59:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD122154

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

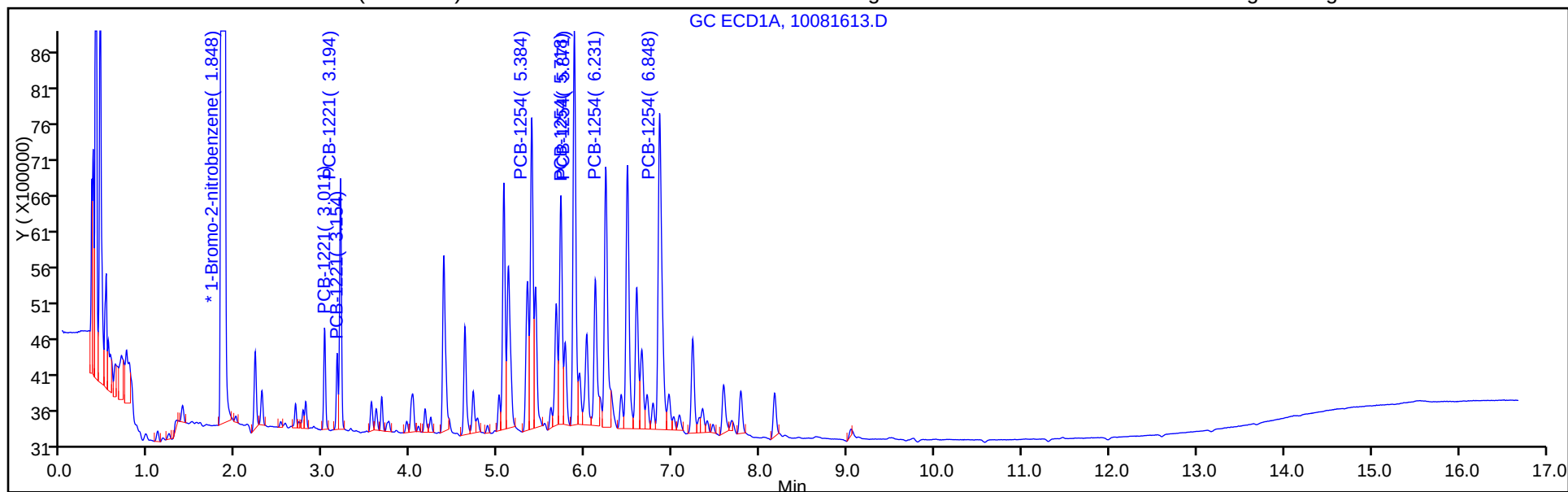
ALS Bottle#: 13

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

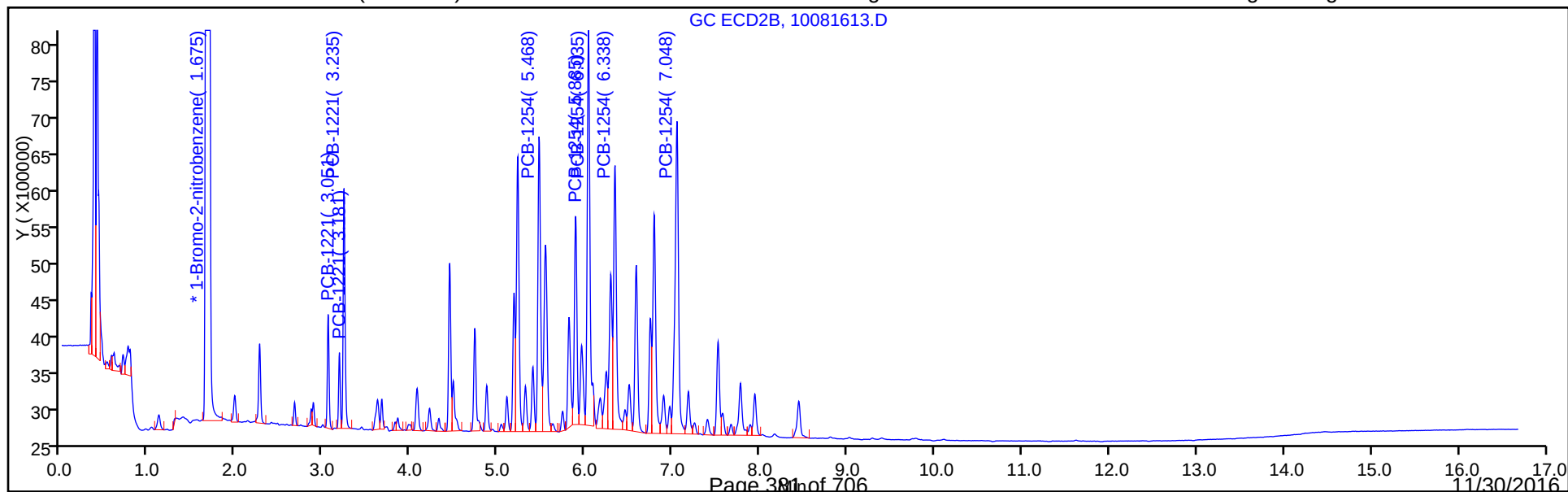
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081614.D
 Lims ID: STDL12154
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 16:21:17 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL12154
 Misc. Info.: 280-0051591-014
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:46 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:19:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	276889714	1000.0	1000.0	
2	1.675	1.676	-0.001	262009479	1000.0	1000.0	
						RPD =	0.00

3 PCB-1221

1	3.011	3.012	-0.001	1260306	25.0	21.7	
1	3.155	3.155	0.000	881311	25.0	21.6	
1	3.195	3.195	0.000	3146378	25.0	21.6	
Average of Peak Amounts =						21.6	
2	3.051	3.052	-0.001	1259018	25.0	22.8	
2	3.181	3.182	-0.001	754627	25.0	21.7	
2	3.235	3.236	-0.001	3040349	25.0	21.6	
Average of Peak Amounts =						22.0	
						RPD =	1.89

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081614.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.385	5.382	0.003	5473714	25.0	23.9	
1	5.718	5.715	0.003	4220959	25.0	24.4	
1	5.871	5.872	-0.001	7139210	25.0	24.3	
1	6.231	6.229	0.002	5249823	25.0	21.4	
1	6.851	6.849	0.002	7544355	25.0	23.7	

Average of Peak Amounts = 23.5

2	5.471	5.469	0.002	4998278	25.0	23.5	
2	5.888	5.886	0.002	3589092	25.0	25.3	
2	6.035	6.032	0.003	7468217	25.0	24.6	
2	6.338	6.336	0.002	5000680	25.0	24.3	
2	7.045	7.046	-0.001	6997974	25.0	24.0	

Average of Peak Amounts = 24.3

RPD = 3.31

S 8 Polychlorinated biphenyls, Total

1	45.2	
2	46.4	

RPD = 2.63

Reagents:

AR_2154_L1_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:46

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081614.D

Injection Date: 08-Oct-2016 16:21:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD12154

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

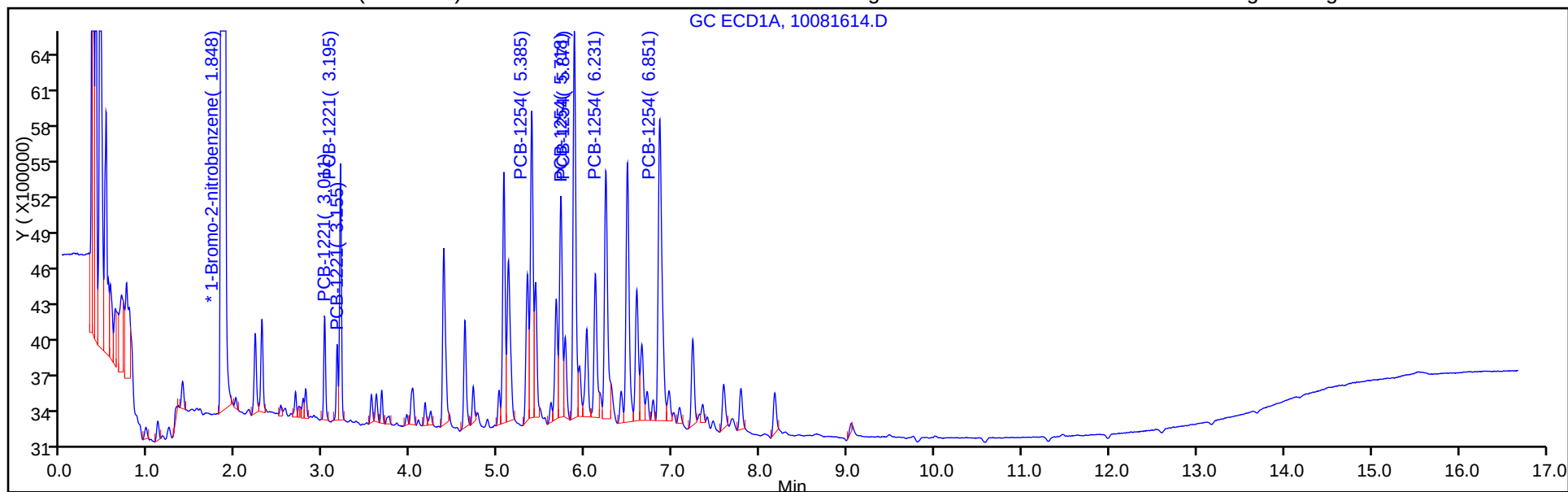
ALS Bottle#: 14

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

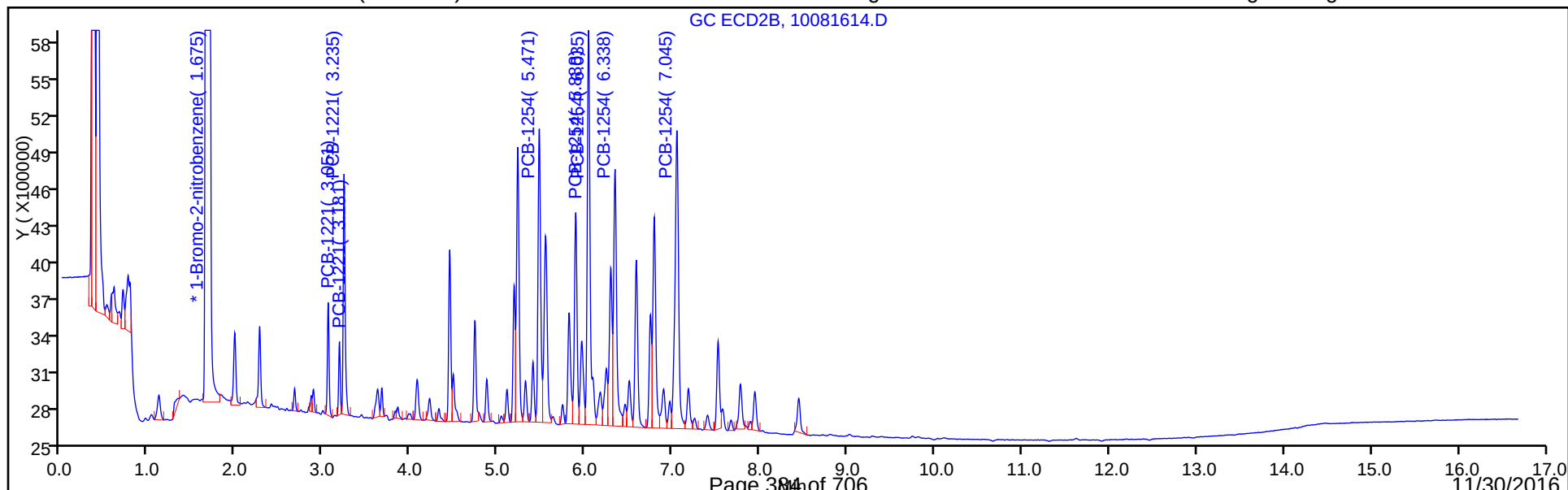
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 14:11 Calibration End Date: 10/08/2016 16:21 Calibration ID: 27244

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD12154 280-345281/14	10081614.D
Level 2	STD122154 280-345281/13	10081613.D
Level 3	STD132154 280-345281/12	10081612.D
Level 4	STD142154 280-345281/11	10081611.D
Level 5	STD152154 280-345281/10	10081610.D
Level 6	STD162154 280-345281/9	10081609.D
Level 7	STD172154 280-345281/8	10081608.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.1922 0.1320	0.1656 0.1275	0.1561	0.1404	0.1470	Lin1	1.8144	0.1313							0.9970		0.9900
PCB-1221 Peak 2	0.1152 0.0839	0.1051 0.0810	0.1004	0.0906	0.0938	Lin1	1.0615	0.0838							0.9960		0.9900
PCB-1221 Peak 3	0.4642 0.2977	0.3934 0.2848	0.3710	0.3291	0.3368	Lin1	5.2070	0.2956							0.9950		0.9900
PCB-1254 Peak 1	0.7631 0.5510	0.6733 0.5447	0.6335	0.5755	0.6099	Lin1	6.0954	0.5534							0.9980		0.9900
PCB-1254 Peak 2	0.5479 0.4148	0.4476 0.4080	0.4634	0.4244	0.4537	Lin1	3.1858	0.4158							0.9980		0.9900
PCB-1254 Peak 3	1.1401 0.7572	0.9288 0.7438	0.8632	0.7963	0.8441	Lin1	9.8912	0.7570							0.9970		0.9900
PCB-1254 Peak 4	0.7634 0.5614	0.6400 0.5501	0.6393	0.5908	0.6290	Lin1	5.3692	0.5648							0.9970		0.9900
PCB-1254 Peak 5	1.0684 0.7805	0.9293 0.7688	0.8801	0.8083	0.8666	Lin1	7.8956	0.7834							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 14:11 Calibration End Date: 10/08/2016 16:21 Calibration ID: 27244

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDL12154 280-345281/14	10081614.D
Level 2	STDL22154 280-345281/13	10081613.D
Level 3	STDL32154 280-345281/12	10081612.D
Level 4	STDL42154 280-345281/11	10081611.D
Level 5	STDL52154 280-345281/10	10081610.D
Level 6	STDL62154 280-345281/9	10081609.D
Level 7	STDL72154 280-345281/8	10081608.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin1	1259018 25631969	2147920 32942936	4053216	9459303	19045461	25.0 750	50.0 1000	100	250	500
PCB-1221 Peak 2	BNB	Lin1	754627 16303008	1363390 20938508	2605449	6102545	12153048	25.0 750	50.0 1000	100	250	500
PCB-1221 Peak 3	BNB	Lin1	3040349 57816652	5101274 73582489	9629371	22172563	43622061	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 1	BNB	Lin1	4998278 107013897	8731074 140741741	16444205	38773462	79004330	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 2	BNB	Lin1	3589092 80569460	5805015 105408523	12028833	28597981	58766371	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 3	BNB	Lin1	7468217 147075721	12044355 192171388	22406798	53650433	109336396	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 4	BNB	Lin1	5000680 109033624	8299413 142128238	16593665	39806315	81466458	25.0 750	50.0 1000	100	250	500
PCB-1254 Peak 5	BNB	Lin1	6997974 151600315	12050675 198624137	22845753	54462736	112253443	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081608.D
 Lims ID: STDL72154
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 14:11:16 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL72154
 Misc. Info.: 280-0051591-008
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.851	1.849	0.002	269232670	1000.0	1000.0	
2	1.674	1.676	-0.002	258362097	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.011	3.012	-0.001	31121751	1000.0	969.3	
1	3.154	3.155	-0.001	20621681	1000.0	961.0	
1	3.194	3.195	-0.001	74356663	1000.0	949.2	
Average of Peak Amounts =						959.8	
2	3.054	3.052	0.002	32942936	1000.0	957.6	
2	3.181	3.182	-0.001	20938508	1000.0	953.9	
2	3.234	3.236	-0.002	73582489	1000.0	946.0	
Average of Peak Amounts =						952.5	
						RPD = 0.77	

9 PCB-1254

1	5.384	5.382	0.002	150885472	1000.0	970.4	
1	5.717	5.715	0.002	121869708	1000.0	964.7	
1	5.871	5.872	-0.001	207922692	1000.0	974.4	
1	6.231	6.229	0.002	157404765	1000.0	968.6	
1	6.847	6.849	-0.002	217779989	1000.0	971.8	
Average of Peak Amounts =						970.0	
2	5.468	5.469	-0.001	140741741	1000.0	973.4	
2	5.888	5.886	0.002	105408523	1000.0	973.6	
2	6.034	6.032	0.002	192171388	1000.0	969.6	
2	6.338	6.336	0.002	142128238	1000.0	964.6	
2	7.048	7.046	0.002	198624137	1000.0	971.3	
Average of Peak Amounts =						970.5	
						RPD = 0.05	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081608.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 1929.8

2 1923.0

RPD = 0.35

Reagents:

AR_2154_L7_00012

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:36

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081608.D

Injection Date: 08-Oct-2016 14:11:16

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD72154

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

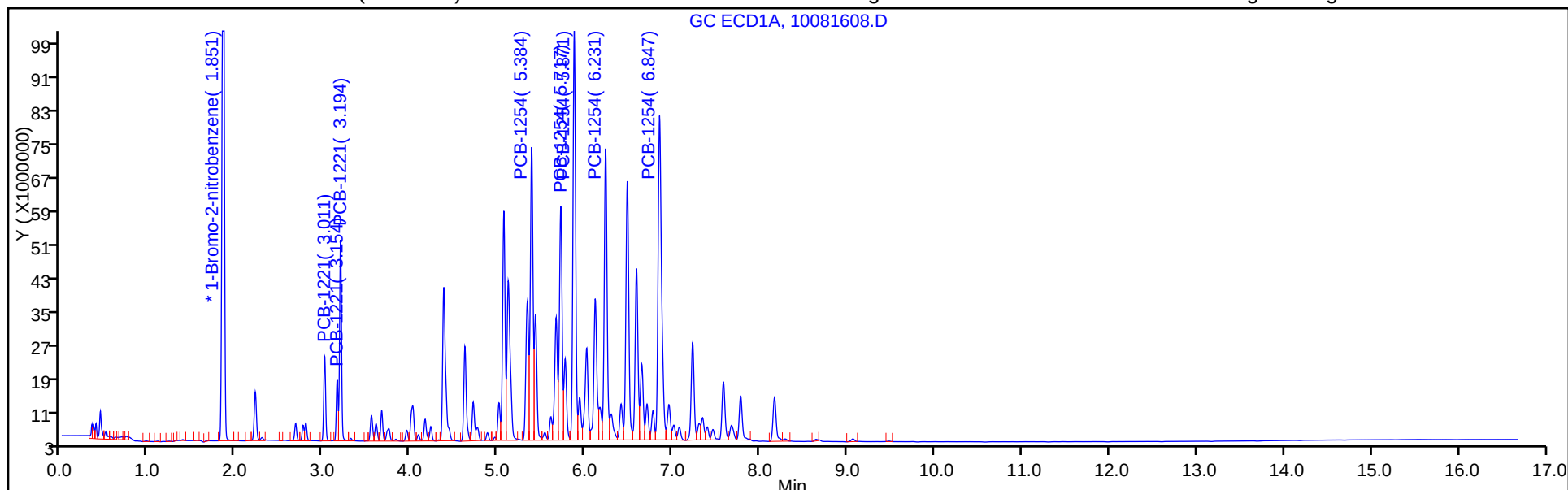
ALS Bottle#: 8

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

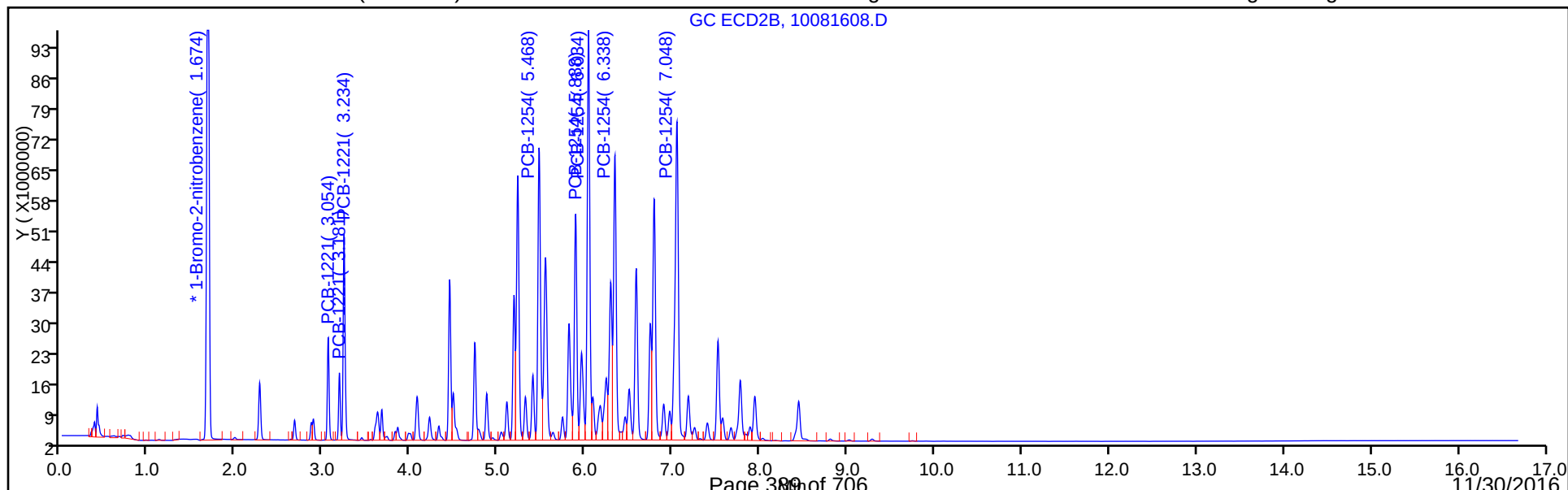
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081609.D
 Lims ID: STDL62154
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 14:32:58 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL62154
 Misc. Info.: 280-0051591-009
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:37 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	269638864	1000.0	1000.0	
2	1.676	1.676	0.000	258972991	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.012	3.012	0.000	22866436	750.0	706.6	
1	3.156	3.155	0.001	15528238	750.0	717.8	
1	3.192	3.195	-0.003	58518497	750.0	742.0	
Average of Peak Amounts =						722.1	
2	3.053	3.052	0.001	25631969	750.0	740.3	
2	3.183	3.182	0.001	16303008	750.0	738.1	
2	3.233	3.236	-0.003	57816652	750.0	737.7	
Average of Peak Amounts =						738.7	
						RPD = 2.27	

9 PCB-1254

1	5.382	5.382	0.000	115671475	750.0	740.3	
1	5.716	5.715	0.001	94874289	750.0	748.0	
1	5.872	5.872	0.000	158866867	750.0	741.3	
1	6.229	6.229	0.000	119826078	750.0	733.7	
1	6.849	6.849	0.000	167011781	750.0	742.0	
Average of Peak Amounts =						741.1	
2	5.469	5.469	0.000	107013897	750.0	735.7	
2	5.886	5.886	0.000	80569460	750.0	740.6	
2	6.032	6.032	0.000	147075721	750.0	737.2	
2	6.336	6.336	0.000	109033624	750.0	736.0	
2	7.046	7.046	0.000	151600315	750.0	737.2	
Average of Peak Amounts =						737.3	
						RPD = 0.50	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081609.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 1463.2

2 1476.1

RPD = 0.87

Reagents:

AR_2154_L6_00014

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:38

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081609.D

Injection Date: 08-Oct-2016 14:32:58

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD62154

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

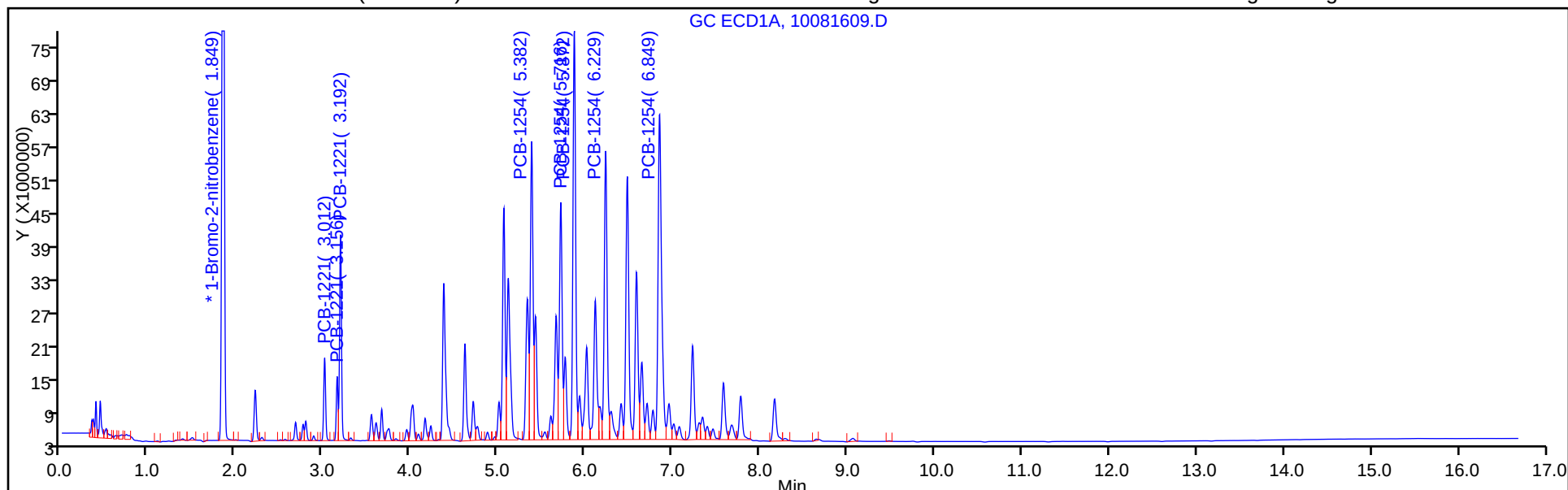
ALS Bottle#: 9

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

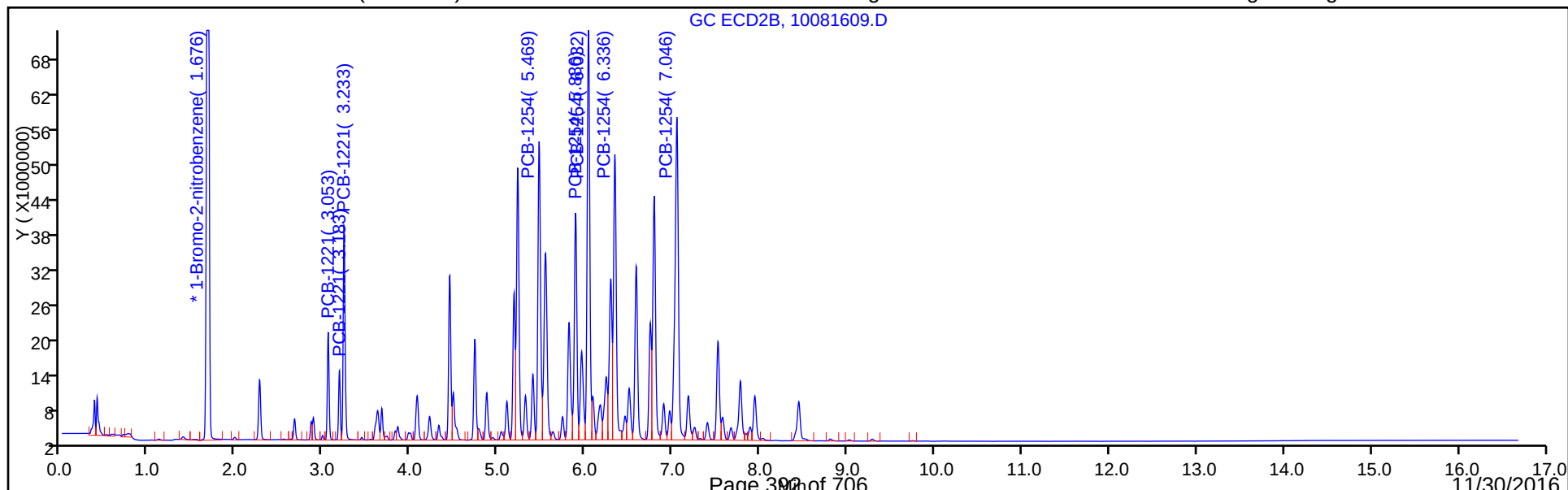
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081610.D
 Lims ID: STDL52154
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 14:54:37 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL52154
 Misc. Info.: 280-0051591-010
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:39 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 08:59:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	272320112	1000.0	1000.0	
2	1.676	1.676	0.000	259054874	1000.0	1000.0	
RPD = 0.00							

3 PCB-1221

1	3.012	3.012	0.000	18382021	500.0	558.9	
1	3.155	3.155	0.000	12446726	500.0	565.7	
1	3.195	3.195	0.000	43728816	500.0	544.3	
Average of Peak Amounts =						556.3	
2	3.052	3.052	0.000	19045461	500.0	546.3	
2	3.182	3.182	0.000	12153048	500.0	546.8	
2	3.236	3.236	0.000	43622061	500.0	552.1	
Average of Peak Amounts =						548.4	
RPD = 1.43							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081610.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.382	5.382	0.000	86033598	500.0	542.4	
1	5.715	5.715	0.000	70080268	500.0	544.8	
1	5.872	5.872	0.000	117566919	500.0	540.9	
1	6.229	6.229	0.000	88845555	500.0	535.9	
1	6.849	6.849	0.000	123339491	500.0	540.1	

Average of Peak Amounts = 540.8

2	5.469	5.469	0.000	79004330	500.0	540.1	
2	5.886	5.886	0.000	58766371	500.0	538.0	
2	6.032	6.032	0.000	109336396	500.0	544.5	
2	6.336	6.336	0.000	81466458	500.0	547.3	
2	7.046	7.046	0.000	112253443	500.0	543.1	

Average of Peak Amounts = 542.6

RPD = 0.33

Reagents:

AR_2154_L5_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:39

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081610.D

Injection Date: 08-Oct-2016 14:54:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD152154

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

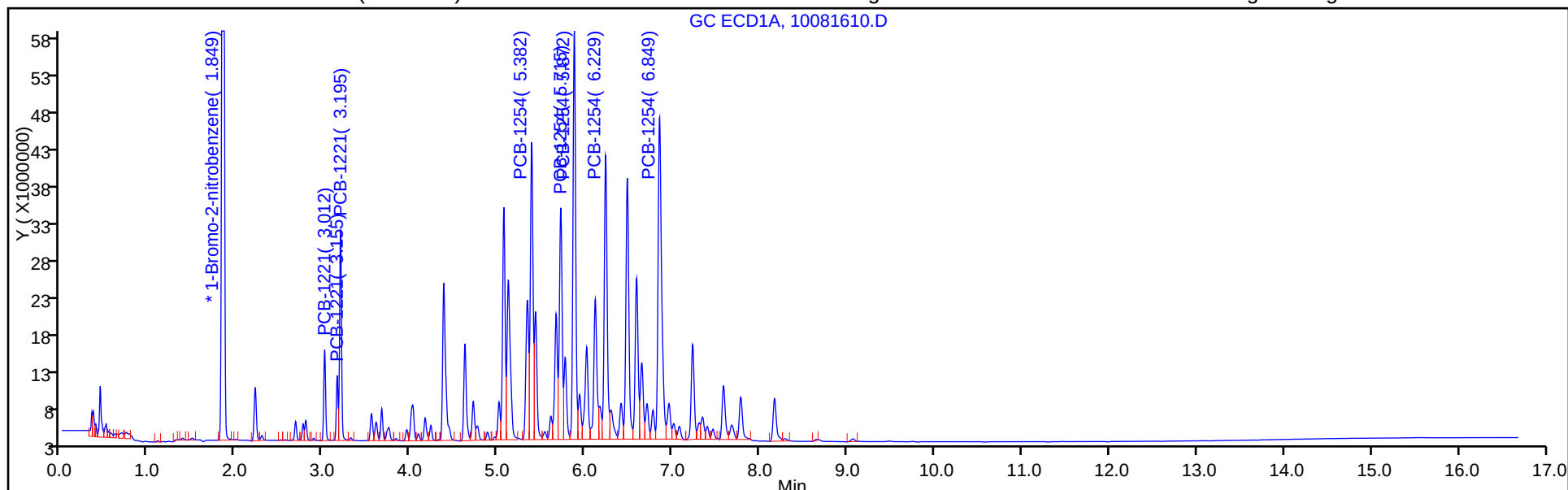
ALS Bottle#: 10

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

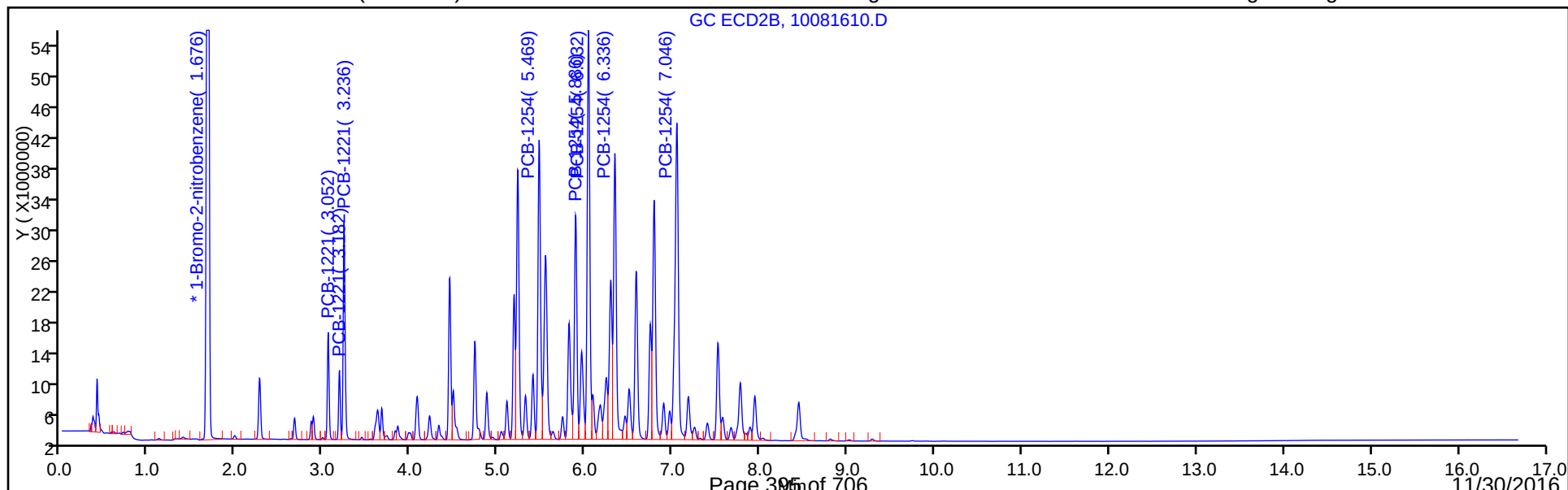
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081611.D
 Lims ID: STDL42154
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 15:16:17 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL42154
 Misc. Info.: 280-0051591-011
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:41 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	281085328	1000.0	1000.0	
2	1.676	1.676	0.000	269511166	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.013	3.012	0.001	9148083	250.0	260.6	
1	3.156	3.155	0.001	5941861	250.0	251.4	
1	3.193	3.195	-0.002	22352344	250.0	260.3	
Average of Peak Amounts =						257.4	
2	3.053	3.052	0.001	9459303	250.0	253.6	
2	3.183	3.182	0.001	6102545	250.0	257.4	
2	3.233	3.236	-0.003	22172563	250.0	260.7	
Average of Peak Amounts =						257.2	
						RPD = 0.08	

9 PCB-1254

1	5.383	5.382	0.001	41322876	250.0	246.7	
1	5.716	5.715	0.001	32373571	250.0	239.2	
1	5.873	5.872	0.001	55050614	250.0	240.7	
1	6.233	6.229	0.004	43717209	250.0	250.0	
1	6.849	6.849	0.000	58617922	250.0	243.6	
Average of Peak Amounts =						244.1	
2	5.469	5.469	0.000	38773462	250.0	249.0	
2	5.886	5.886	0.000	28597981	250.0	247.6	
2	6.033	6.032	0.001	53650433	250.0	249.9	
2	6.336	6.336	0.000	39806315	250.0	252.0	
2	7.046	7.046	0.000	54462736	250.0	247.9	
Average of Peak Amounts =						249.3	
						RPD = 2.11	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081611.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 501.5

2 506.5

RPD = 0.99

Reagents:

AR_2154_L4_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081611.D

Injection Date: 08-Oct-2016 15:16:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD42154

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

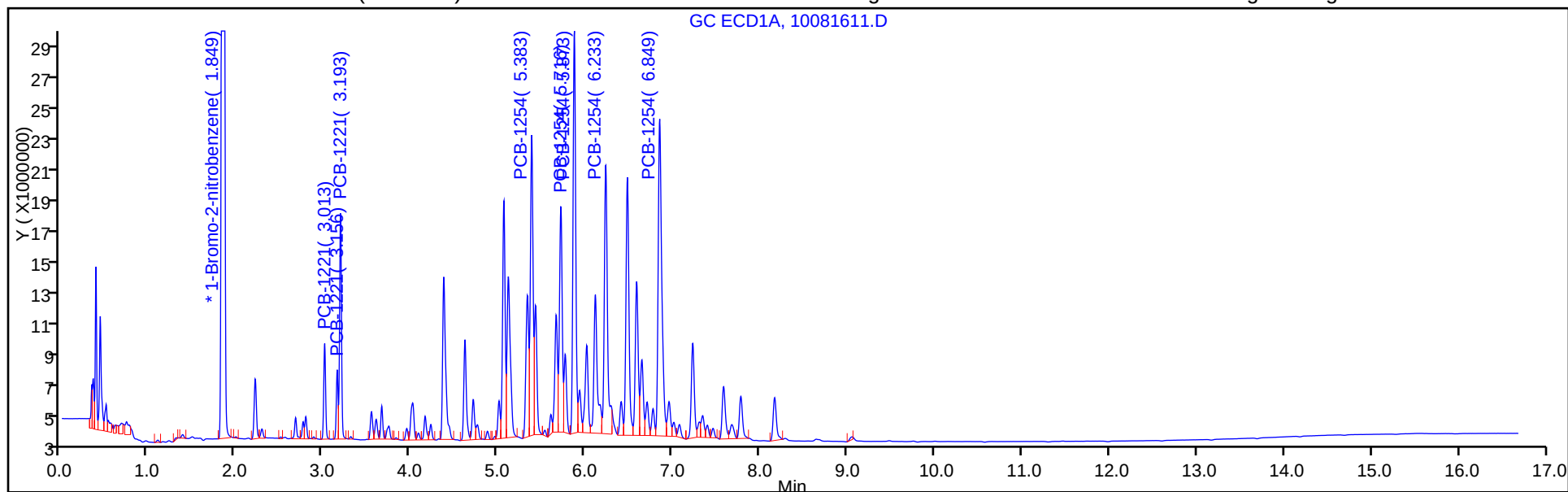
ALS Bottle#: 11

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

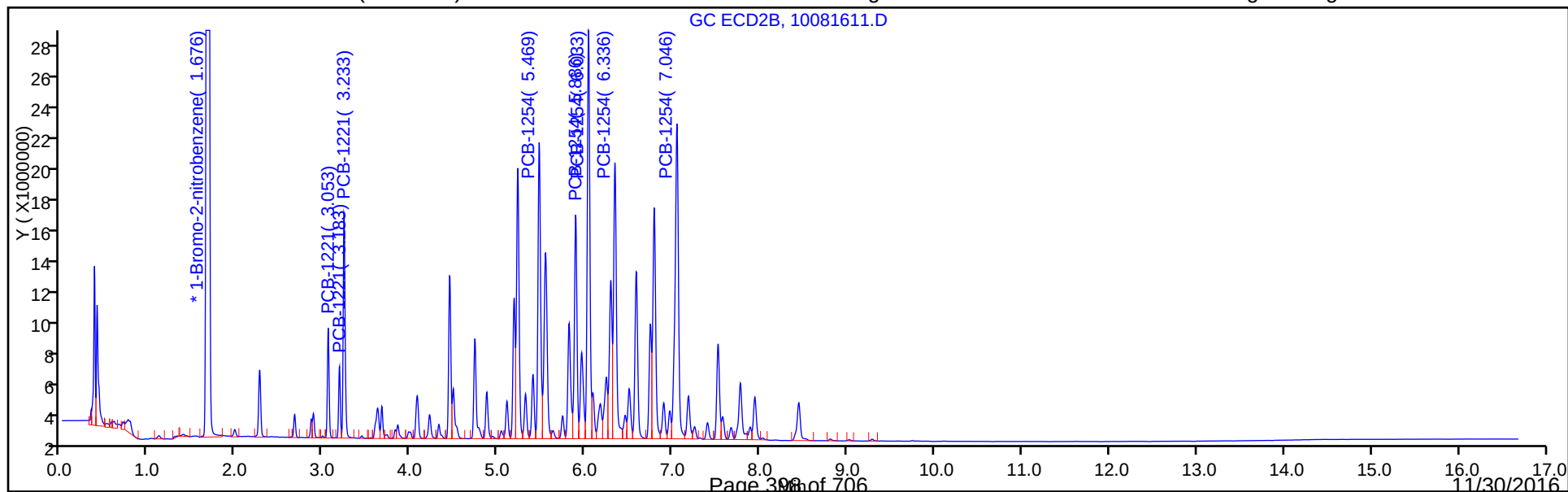
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081612.D
 Lims ID: STDL32154
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 15:37:57 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL32154
 Misc. Info.: 280-0051591-012
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:42 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.849	0.001	275270020	1000.0	1000.0	
2	1.673	1.676	-0.003	259575839	1000.0	1000.0	
						RPD = 0.00	

3 PCB-1221

1	3.013	3.012	0.001	4090911	100.0	109.7	
1	3.156	3.155	0.001	2711634	100.0	107.0	
1	3.193	3.195	-0.002	9946625	100.0	108.3	
Average of Peak Amounts =						108.3	
2	3.053	3.052	0.001	4053216	100.0	105.1	
2	3.180	3.182	-0.002	2605449	100.0	107.0	
2	3.233	3.236	-0.003	9629371	100.0	107.9	
Average of Peak Amounts =						106.7	
						RPD = 1.51	

9 PCB-1254

1	5.383	5.382	0.001	17604886	100.0	101.3	
1	5.716	5.715	0.001	14644970	100.0	106.0	
1	5.873	5.872	0.001	24468733	100.0	104.6	
1	6.230	6.229	0.001	21134217	100.0	118.2	
1	6.850	6.849	0.001	25726260	100.0	104.1	
Average of Peak Amounts =						106.8	
2	5.470	5.469	0.001	16444205	100.0	103.5	
2	5.887	5.886	0.001	12028833	100.0	103.8	
2	6.033	6.032	0.001	22406798	100.0	101.0	
2	6.337	6.336	0.001	16593665	100.0	103.7	
2	7.047	7.046	0.001	22845753	100.0	102.3	
Average of Peak Amounts =						102.8	
						RPD = 3.79	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081612.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1	215.1
2	209.5
RPD = 2.64	

Reagents:

AR_2154_L3_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:43

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081612.D

Injection Date: 08-Oct-2016 15:37:57

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD132154

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

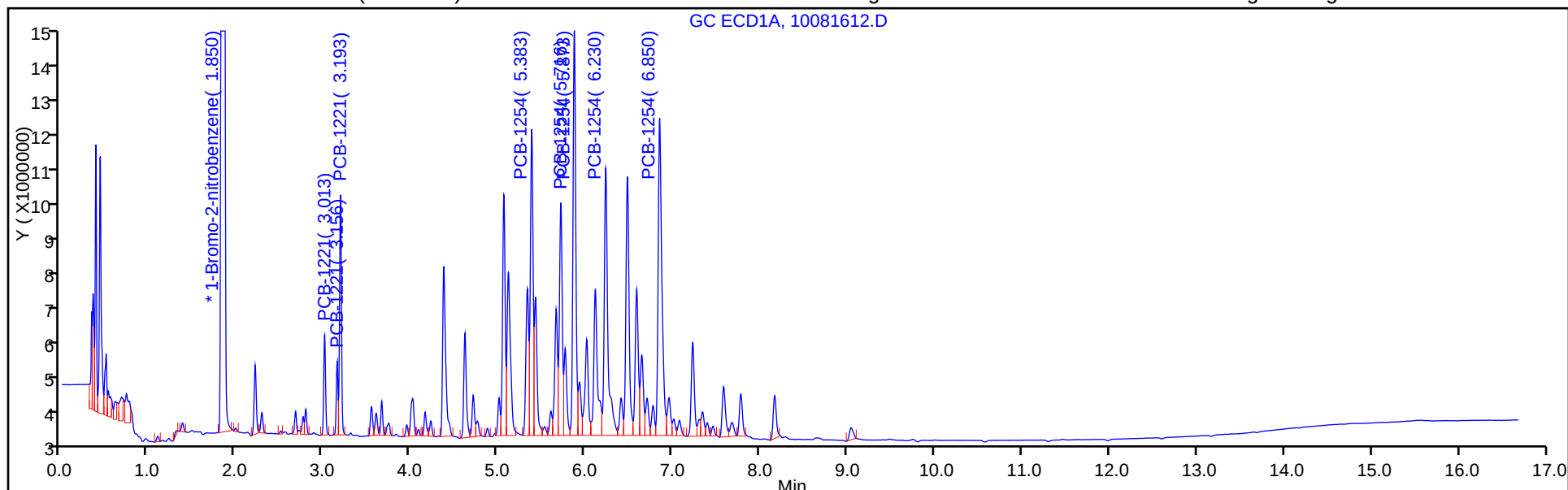
ALS Bottle#: 12

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

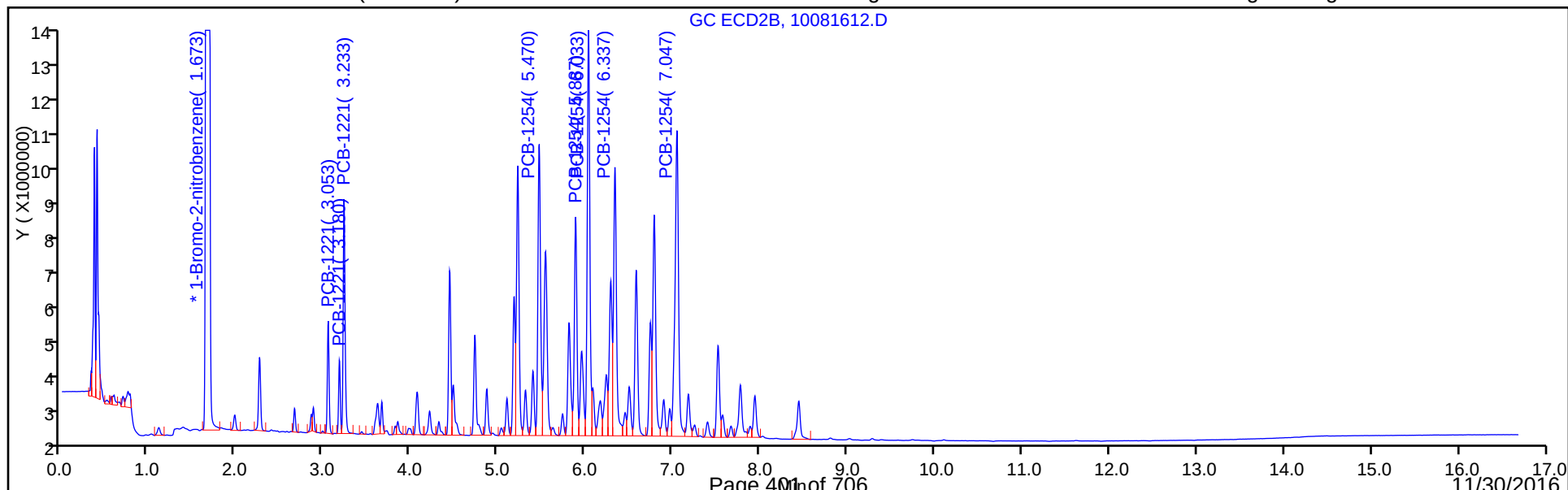
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081613.D
 Lims ID: STDL22154
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 15:59:37 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL22154
 Misc. Info.: 280-0051591-013
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:44 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	274682261	1000.0	1000.0	
2	1.675	1.676	-0.001	259356788	1000.0	1000.0	
RPD = 0.00							

3 PCB-1221

1	3.011	3.012	-0.001	2103559	50.0	48.2	
1	3.154	3.155	-0.001	1494052	50.0	50.5	
1	3.194	3.195	-0.001	5296623	50.0	49.3	
Average of Peak Amounts =							49.3
2	3.051	3.052	-0.001	2147920	50.0	49.3	
2	3.181	3.182	-0.001	1363390	50.0	50.0	
2	3.235	3.236	-0.001	5101274	50.0	48.9	
Average of Peak Amounts =							49.4
RPD = 0.16							

9 PCB-1254

1	5.384	5.382	0.002	9545603	50.0	50.1	
1	5.718	5.715	0.003	7183911	50.0	47.8	
1	5.871	5.872	-0.001	12348592	50.0	48.7	
1	6.231	6.229	0.002	9457275	50.0	47.3	
1	6.848	6.849	-0.001	13361226	50.0	49.7	
Average of Peak Amounts =							48.7
2	5.468	5.469	-0.001	8731074	50.0	49.8	
2	5.885	5.886	-0.001	5805015	50.0	46.2	
2	6.035	6.032	0.003	12044355	50.0	48.3	
2	6.338	6.336	0.002	8299413	50.0	47.2	
2	7.048	7.046	0.002	12050675	50.0	49.2	
Average of Peak Amounts =							48.1
RPD = 1.22							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081613.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1 98.1

2 97.5

RPD = 0.52

Reagents:

AR_2154_L2_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:45

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081613.D

Injection Date: 08-Oct-2016 15:59:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD122154

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

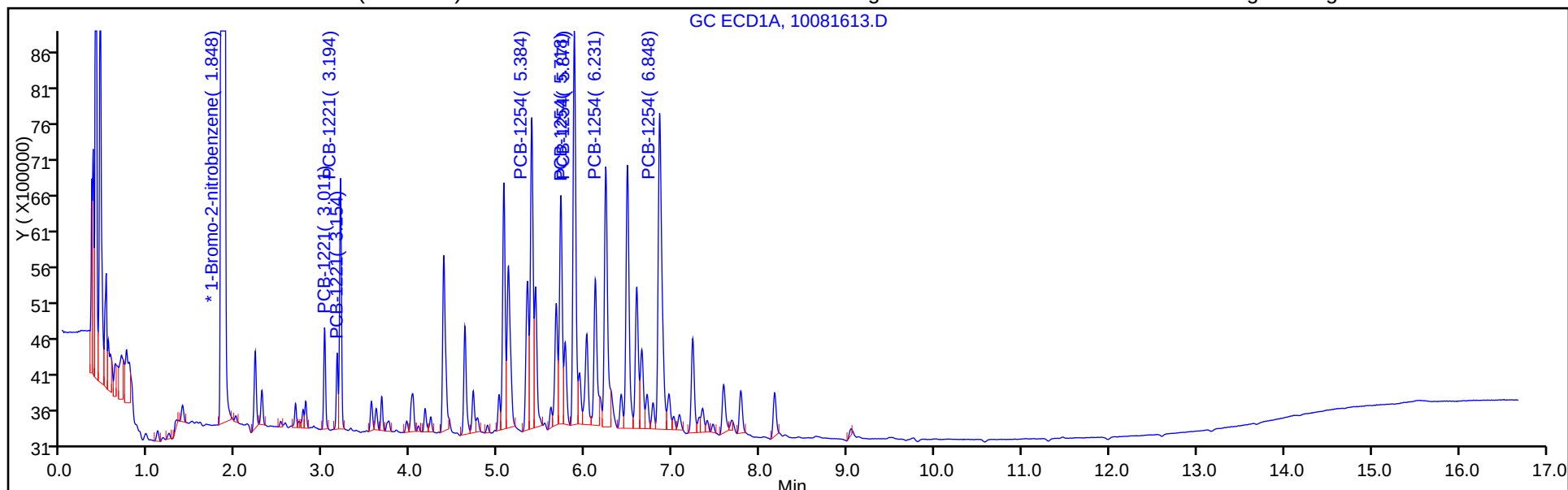
ALS Bottle#: 13

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

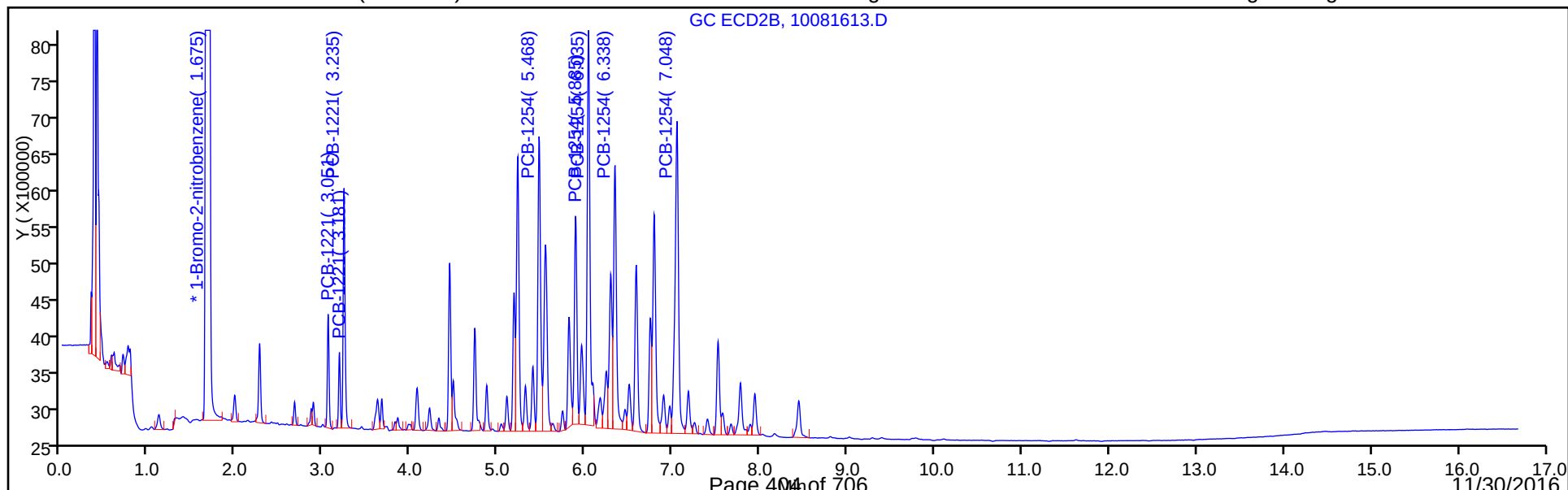
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081614.D
 Lims ID: STDL12154
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 16:21:17 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL12154
 Misc. Info.: 280-0051591-014
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:46 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:19:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.849	-0.001	276889714	1000.0	1000.0	
2	1.675	1.676	-0.001	262009479	1000.0	1000.0	
						RPD =	0.00

3 PCB-1221

1	3.011	3.012	-0.001	1260306	25.0	21.7	
1	3.155	3.155	0.000	881311	25.0	21.6	
1	3.195	3.195	0.000	3146378	25.0	21.6	
Average of Peak Amounts =						21.6	
2	3.051	3.052	-0.001	1259018	25.0	22.8	
2	3.181	3.182	-0.001	754627	25.0	21.7	
2	3.235	3.236	-0.001	3040349	25.0	21.6	
Average of Peak Amounts =						22.0	
						RPD =	1.89

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081614.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.385	5.382	0.003	5473714	25.0	23.9	
1	5.718	5.715	0.003	4220959	25.0	24.4	
1	5.871	5.872	-0.001	7139210	25.0	24.3	
1	6.231	6.229	0.002	5249823	25.0	21.4	
1	6.851	6.849	0.002	7544355	25.0	23.7	

Average of Peak Amounts = 23.5

2	5.471	5.469	0.002	4998278	25.0	23.5	
2	5.888	5.886	0.002	3589092	25.0	25.3	
2	6.035	6.032	0.003	7468217	25.0	24.6	
2	6.338	6.336	0.002	5000680	25.0	24.3	
2	7.045	7.046	-0.001	6997974	25.0	24.0	

Average of Peak Amounts = 24.3

RPD = 3.31

S 8 Polychlorinated biphenyls, Total

1	45.2	
2	46.4	

RPD = 2.63

Reagents:

AR_2154_L1_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:46

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081614.D

Injection Date: 08-Oct-2016 16:21:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD12154

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

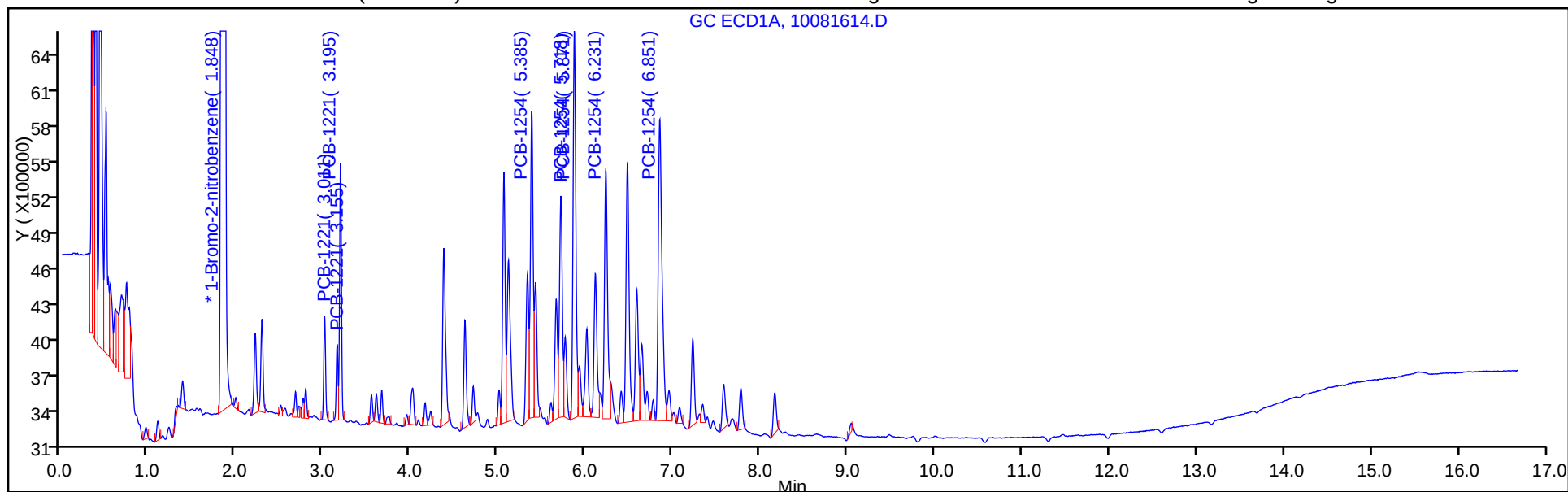
ALS Bottle#: 14

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

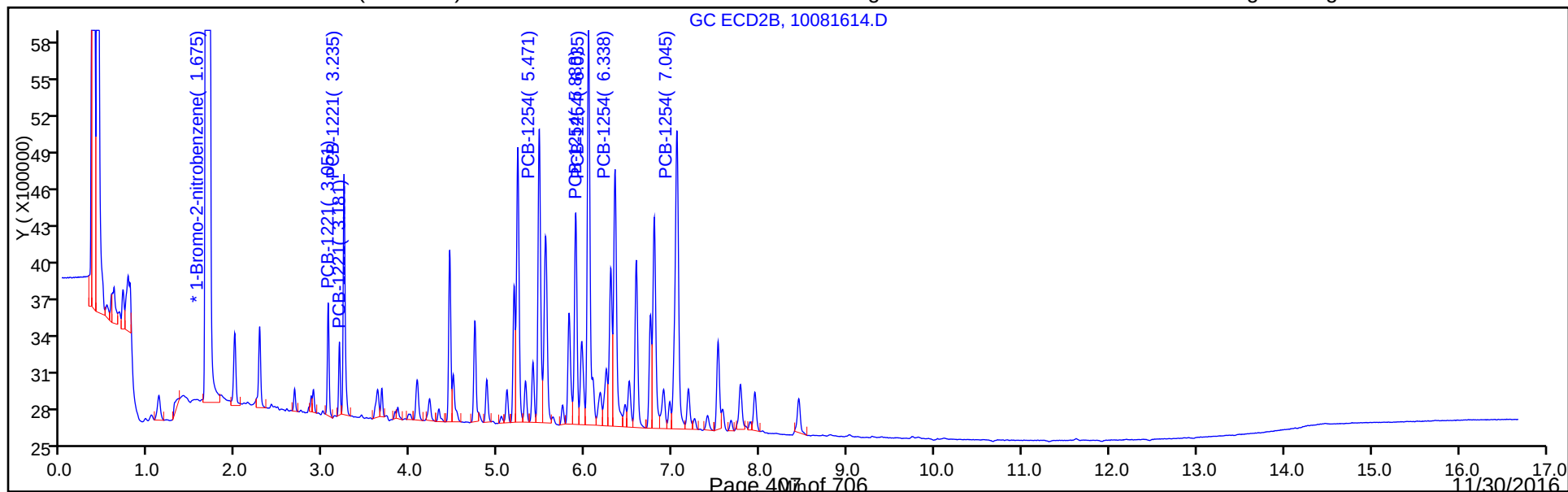
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 16:42 Calibration End Date: 10/08/2016 18:52 Calibration ID: 27247

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11660 280-345281/21	10081621.D
Level 2	STD121660 280-345281/20	10081620.D
Level 3	STD131660 280-345281/19	10081619.D
Level 4	STD141660 280-345281/18	10081618.D
Level 5	STD151660 280-345281/17	10081617.D
Level 6	STD161660 280-345281/16	10081616.D
Level 7	STD171660 280-345281/15	10081615.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.2971 0.2110	0.2746 0.2051	0.2571	0.2265	0.2203	Lin1	3.0285	0.2078							0.9990		0.9900
PCB-1016 Peak 2	0.5618 0.3922	0.5330 0.3773	0.4902	0.4307	0.4170	Lin1	6.3804	0.3861							0.9970		0.9900
PCB-1016 Peak 3	1.1705 0.8783	1.0767 0.8592	1.0122	0.9217	0.9149	Lin1	9.6486	0.8682							0.9990		0.9900
PCB-1016 Peak 4	0.5264 0.3931	0.4948 0.3787	0.4630	0.4135	0.4077	Lin1	4.8372	0.3855							0.9990		0.9900
PCB-1016 Peak 5	0.5245 0.3997	0.4866 0.3875	0.4647	0.3985	0.4010	Lin1	4.3181	0.3892							0.9990		0.9900
PCB-1260 Peak 1	0.8124 0.5957	0.7347 0.5835	0.6854	0.6099	0.6310	Lin1	6.7206	0.5895							0.9990		0.9900
PCB-1260 Peak 2	1.4253 1.1247	1.3201 1.0937	1.2445	1.1079	1.1704	Lin1	9.4887	1.1062							0.9990		0.9900
PCB-1260 Peak 3	0.6949 0.5485	0.6305 0.5428	0.5886	0.5312	0.5676	Lin1	3.9156	0.5425							0.9990		0.9900
PCB-1260 Peak 4	1.5844 1.1776	1.4990 1.1454	1.4218	1.2979	1.2265	Lin1	15.302	1.1649							0.9980		0.9900
PCB-1260 Peak 5	0.8322 0.6530	0.7791 0.6499	0.7368	0.6841	0.6903	Lin1	5.7185	0.6539							0.9990		0.9900
Tetrachloro-m-xylene (Surr)	17.307 12.870	15.989 12.604	15.027	13.677	13.515	Lin1	7.4657	12.756							0.9990		0.9900
DCB Decachlorobiphenyl (Surr)	16.966 12.562	15.478 12.195	14.421	13.129	13.124	Lin1	7.1978	12.371							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 16:42 Calibration End Date: 10/08/2016 18:52 Calibration ID: 27247

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11660 280-345281/21	10081621.D
Level 2	STD21660 280-345281/20	10081620.D
Level 3	STD31660 280-345281/19	10081619.D
Level 4	STD41660 280-345281/18	10081618.D
Level 5	STD51660 280-345281/17	10081617.D
Level 6	STD61660 280-345281/16	10081616.D
Level 7	STD71660 280-345281/15	10081615.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	2068792 42520565	3704299 55040808	7229394	15929332	30681611	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 2	BNB	Lin1	3911568 79050845	7190201 101232778	13785568	30291915	58084143	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 3	BNB	Lin1	8150652 177006327	14526378 230529784	28461655	64822500	127440814	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 4	BNB	Lin1	3665410 79230979	6675916 101620993	13019160	29078133	56798187	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 5	BNB	Lin1	3652312 80546084	6564298 103960024	13067394	28022370	55853071	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 1	BNB	Lin1	5657078 120046212	9911386 156560058	19274263	42891675	87905559	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 2	BNB	Lin1	9924750 226656596	17810078 293460060	34994844	77912763	163032185	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 3	BNB	Lin1	4838426 110539541	8506323 145645097	16551860	37357200	79068724	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 4	BNB	Lin1	11032629 237334174	20222696 307330151	39981555	91276632	170845932	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 5	BNB	Lin1	5794670 131607970	10511237 174373109	20718344	48110482	96156099	25.0 750	50.0 1000	100	250	500
Tetrachloro-m-xylene (Surr)	BNB	Lin1	6025618 129689586	10785571 169082456	21127413	48094725	94134005	1.25 37.5	2.50 50.0	5.00	12.5	25.0
DCB Decachlorobiphenyl (Surr)	BNB	Lin1	5906808 126579845	10440662 163599797	20275699	46167799	91408864	1.25 37.5	2.50 50.0	5.00	12.5	25.0

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D
 Lims ID: STDL71660
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 16:42:57 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL71660
 Misc. Info.: 280-0051591-015
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:47 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:13:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	268307579	1000.0	1000.0	
2	1.672	1.676	-0.004	253574546	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.796	2.797	-0.001	169082456	50.0	48.8	
2	2.736	2.734	0.002	175966913	50.0	49.2	
RPD = 0.88							

1 PCB-1016

M

1	3.196	3.193	0.003	55040808	1000.0	972.7	
1	3.546	3.547	-0.001	101232778	1000.0	960.8	M
1	4.022	4.020	0.002	230529784	1000.0	978.5	M
1	4.162	4.163	-0.001	101620993	1000.0	970.0	M
1	4.619	4.620	-0.001	103960024	1000.0	984.6	M
Average of Peak Amounts =						973.3	
2	3.619	3.620	-0.001	103145363	1000.0	965.6	
2	4.072	4.070	0.002	217662809	1000.0	973.5	
2	4.212	4.214	-0.002	93557678	1000.0	976.4	
2	4.446	4.444	0.002	53541018	1000.0	1005.2	
2	4.732	4.734	-0.002	75743411	1000.0	995.8	
Average of Peak Amounts =						983.3	
RPD = 1.02							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.112	6.110	0.002	156560058	1000.0	978.5
1	6.846	6.847	-0.001	293460060	1000.0	980.2
1	7.342	7.340	0.002	145645097	1000.0	993.4
1	7.776	7.777	-0.001	307330151	1000.0	970.2
1	8.162	8.163	-0.001	174373109	1000.0	985.1

Average of Peak Amounts =

981.5

2	6.579	6.580	-0.001	172031476	1000.0	978.9
2	7.046	7.044	0.002	263806910	1000.0	981.7
2	7.572	7.570	0.002	125703859	1000.0	992.2
2	7.939	7.940	-0.001	277241764	1000.0	987.6
2	8.439	8.440	-0.001	206769032	1000.0	982.8

Average of Peak Amounts =

984.6

RPD = 0.32

\$ 15 DCB Decachlorobiphenyl

1	9.749	9.750	-0.001	163599797	50.0	48.7
2	10.102	10.104	-0.002	137561004	50.0	49.2

RPD = 0.98

S 8 Polychlorinated biphenyls, Total

1						1954.8
2						1967.9

RPD = 0.67

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1660_L7_00020

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:48

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D

Injection Date: 08-Oct-2016 16:42:57

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD71660

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

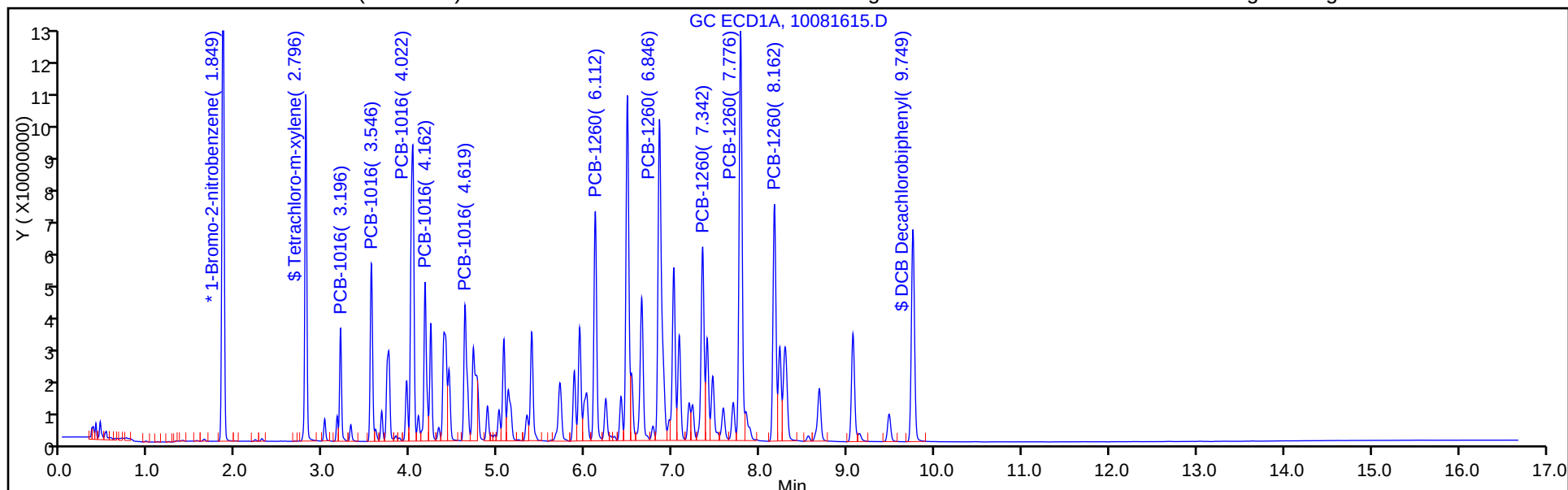
ALS Bottle#: 15

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

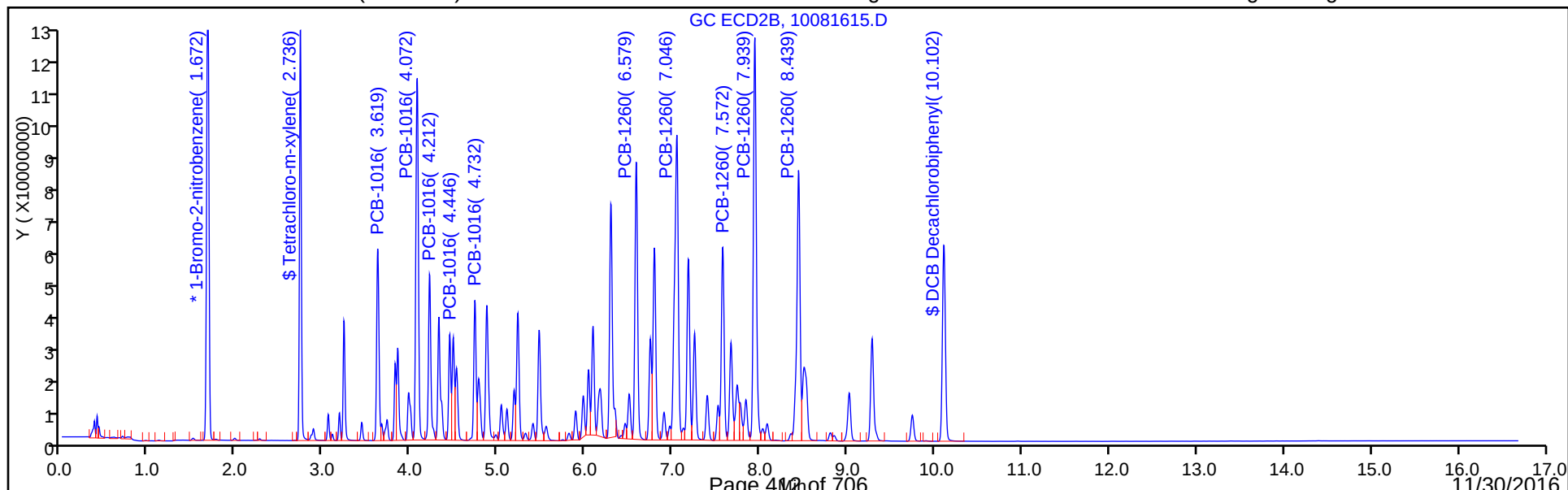
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D

Injection Date: 08-Oct-2016 16:42:57

Instrument ID: SGC_P3

Lims ID: STDL71660

Client ID:

Operator ID: jax

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCB_P3

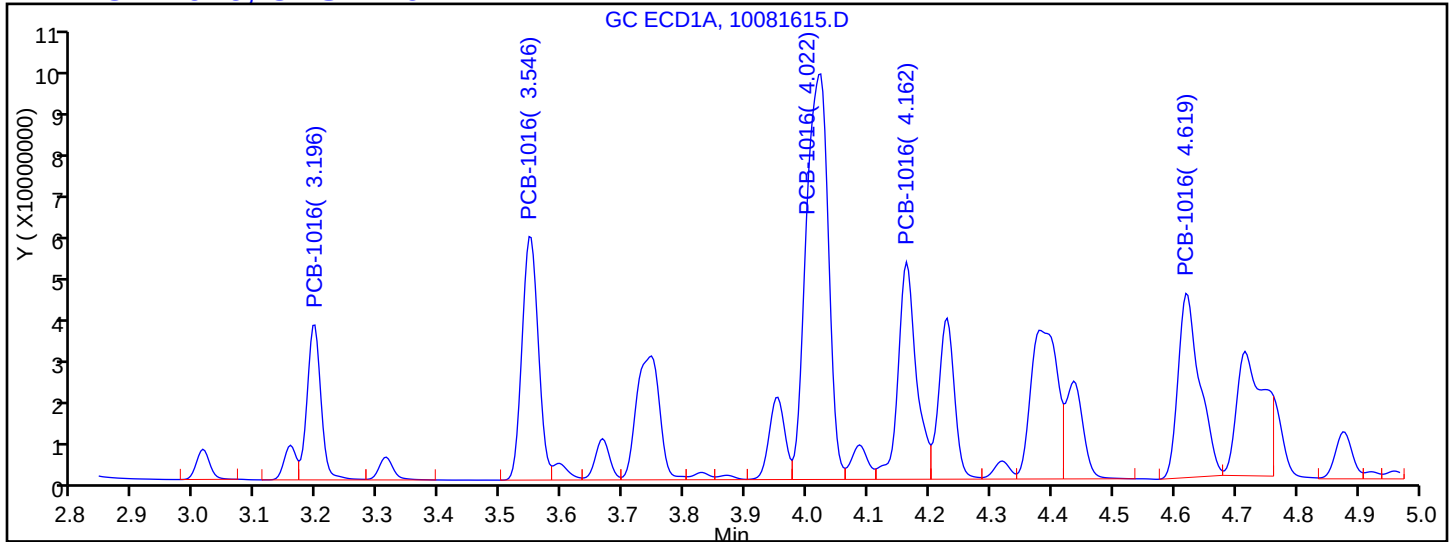
Limit Group:

GCSV - 8082 - IS

Column: CLP1 Pesticides Column 1 (0.32 mm)

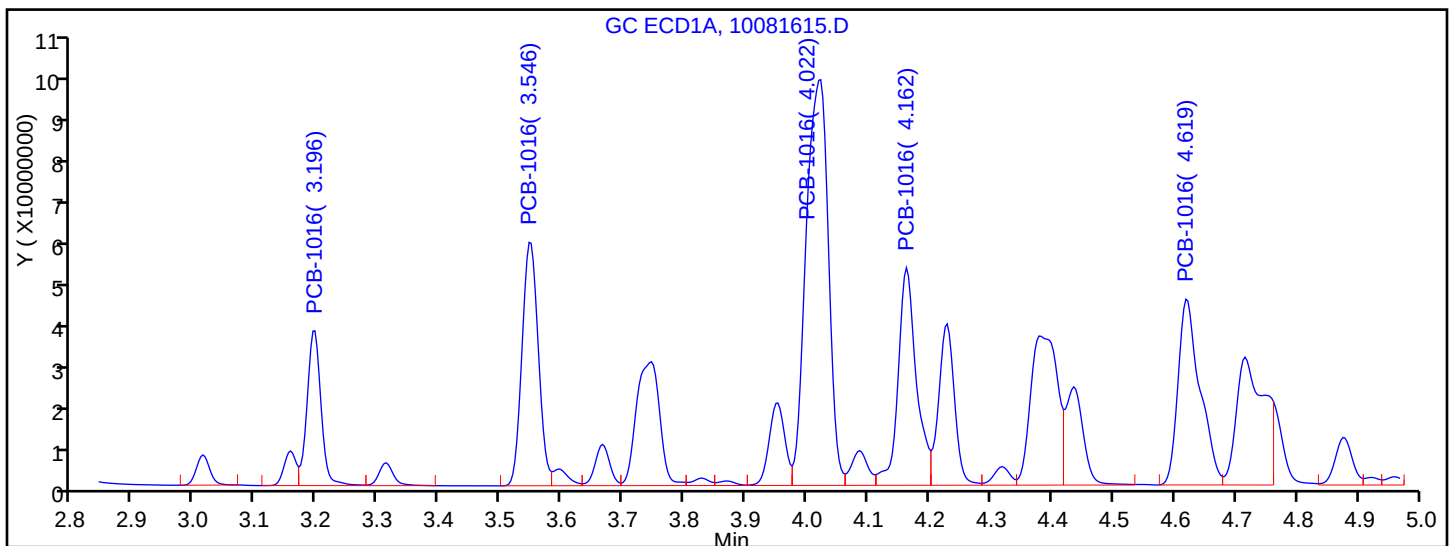
Detector

GC ECD1A

1 PCB-1016, CAS: 12674-11-2

Processing Integration Results

3.196	Response = 55040808
3.546	Response = 101270671
4.022	Response = 230263380
4.162	Response = 101252500
4.619	Response = 101281352



Manual Integration Results

3.196	Response = 55040808	
3.546	Response = 101232778	M
4.022	Response = 230529784	M
4.162	Response = 101620993	M
4.619	Response = 103960024	M

Reviewer: jacksonto, 09-Oct-2016 09:13:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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11/30/2016

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D
 Lims ID: STDL61660
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 17:04:38 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL61660
 Misc. Info.: 280-0051591-016
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:49 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:12:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.847	1.849	-0.002	268709937	1000.0	1000.0	
2	1.673	1.676	-0.003	253592332	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	129689586	37.5	37.3	
2	2.733	2.734	-0.001	134152881	37.5	37.5	
RPD = 0.54							

1 PCB-1016

M

1	3.193	3.193	0.000	42520565	750.0	747.0	
1	3.547	3.547	0.000	79050845	750.0	745.5	M
1	4.020	4.020	0.000	177006327	750.0	747.6	M
1	4.163	4.163	0.000	79230979	750.0	752.3	M
1	4.620	4.620	0.000	80546084	750.0	759.2	M
Average of Peak Amounts =						750.3	
2	3.620	3.620	0.000	80228770	750.0	747.5	
2	4.070	4.070	0.000	167889635	750.0	748.4	
2	4.213	4.214	-0.001	72017346	750.0	749.2	
2	4.443	4.444	-0.001	39155213	750.0	732.2	
2	4.733	4.734	-0.001	56756339	750.0	743.9	
Average of Peak Amounts =						744.2	

RPD = 0.81

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.110	6.110	0.000	120046212	750.0	746.5	
1	6.846	6.847	-0.001	226656596	750.0	753.9	
1	7.340	7.340	0.000	110539541	750.0	751.1	
1	7.776	7.777	-0.001	237334174	750.0	745.1	
1	8.163	8.163	0.000	131607970	750.0	740.2	

Average of Peak Amounts = 747.4

2	6.580	6.580	0.000	131640945	750.0	746.7	
2	7.043	7.044	-0.001	201986527	750.0	749.4	
2	7.570	7.570	0.000	96359675	750.0	758.5	
2	7.937	7.940	-0.003	211581655	750.0	751.8	
2	8.440	8.440	0.000	158422282	750.0	751.2	

Average of Peak Amounts = 751.5

RPD = 0.55

\$ 15 DCB Decachlorobiphenyl

1	9.750	9.750	0.000	126579845	37.5	37.5	
2	10.103	10.104	-0.001	104633981	37.5	37.3	

RPD = 0.54

S 8 Polychlorinated biphenyls, Total

1						1497.7	
2						1495.8	

RPD = 0.13

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1660_L6_00027

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:50

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D

Injection Date: 08-Oct-2016 17:04:38

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD61660

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

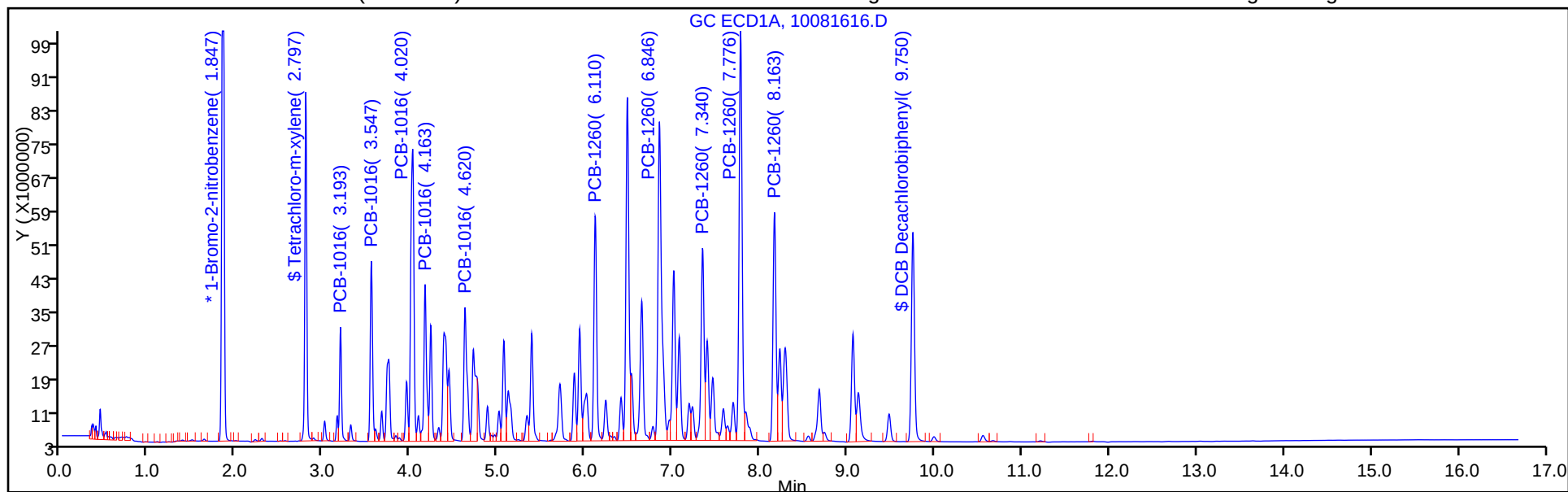
ALS Bottle#: 16

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

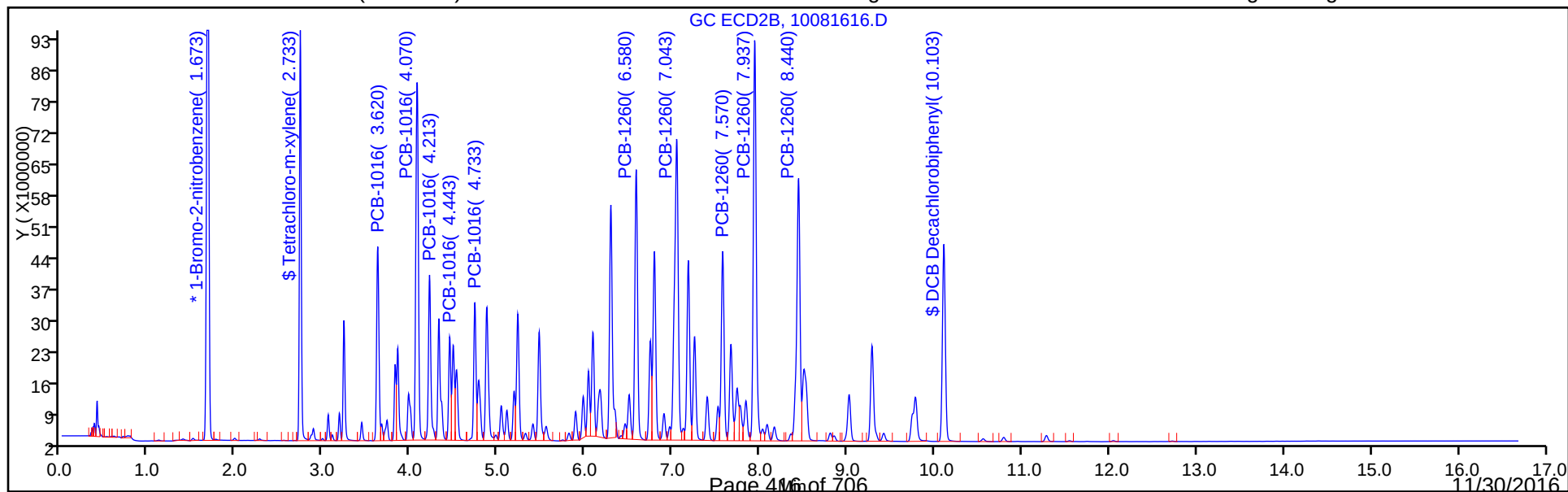
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D

Injection Date: 08-Oct-2016 17:04:38

Instrument ID: SGC_P3

Lims ID: STD161660

Client ID:

Operator ID: jax

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

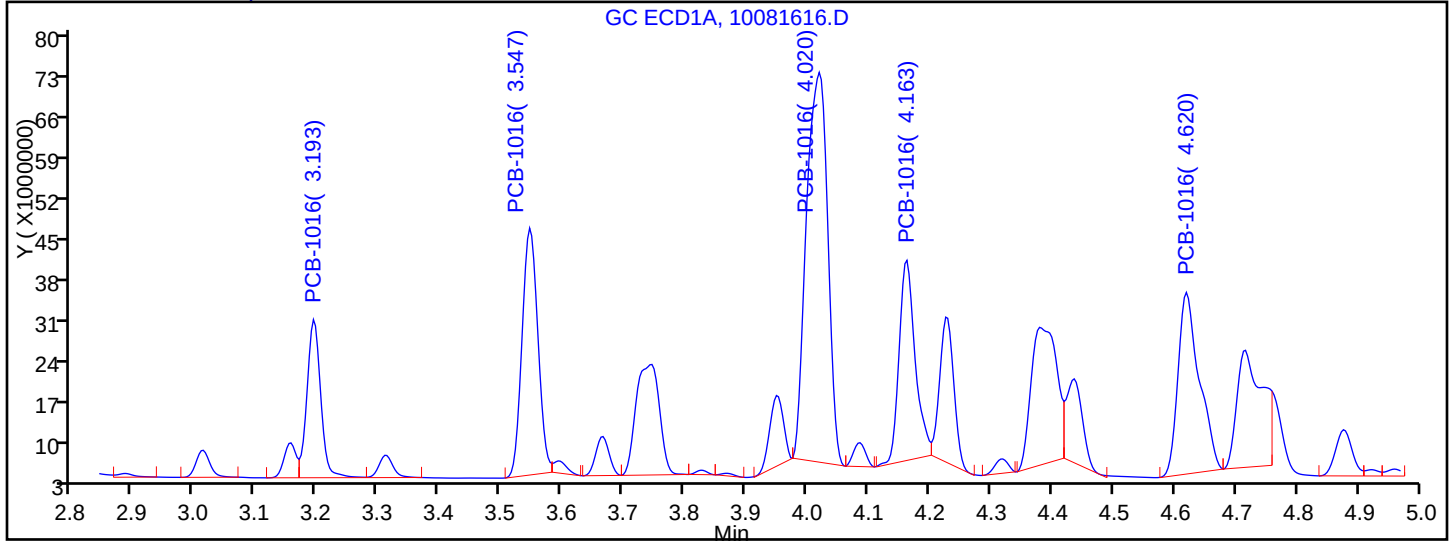
Dil. Factor: 1.0000

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

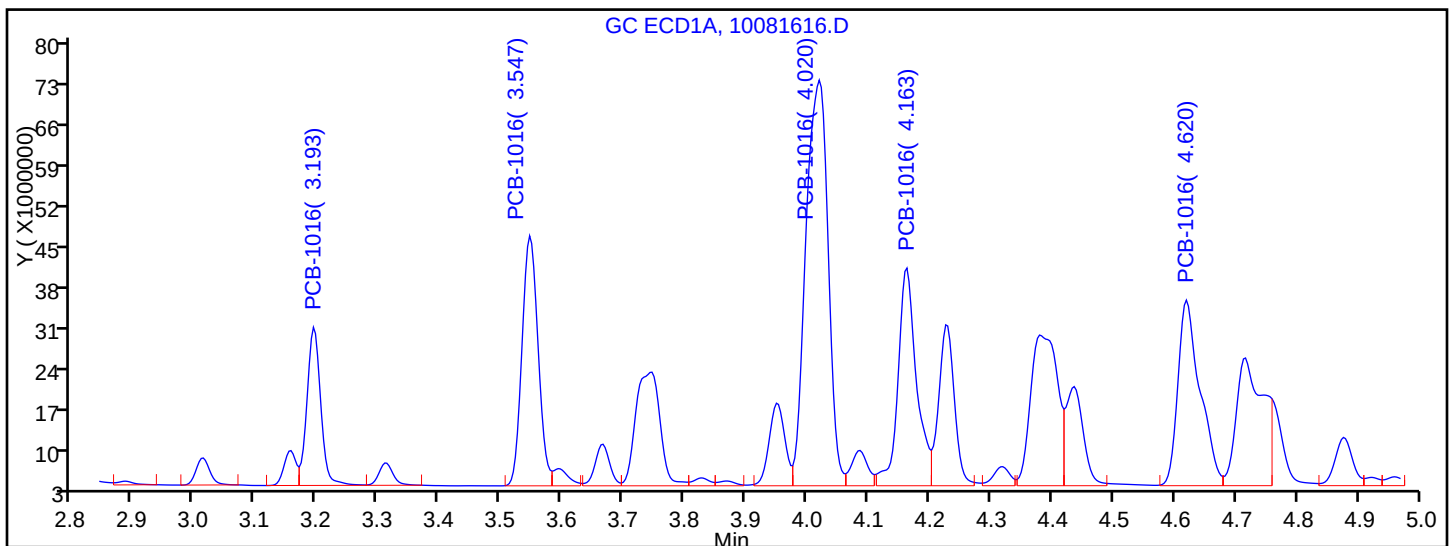
Column: CLP1 Pesticides Column 1 (0.32 mm)

Detector: GC ECD1A

1 PCB-1016, CAS: 12674-11-2

Processing Integration Results

3.193	Response = 42520565
3.547	Response = 76703380
4.020	Response = 162734802
4.163	Response = 63425019
4.620	Response = 75600784



Manual Integration Results

3.193	Response = 42520565	
3.547	Response = 79050845	M
4.020	Response = 177006327	M
4.163	Response = 79230979	M
4.620	Response = 80546084	M

Reviewer: jacksonto, 09-Oct-2016 09:12:54

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 417 of 706

11/30/2016

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081617.D
 Lims ID: STDL51660
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 08-Oct-2016 17:26:17 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL51660
 Misc. Info.: 280-0051591-017
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:51 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 08:59:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.847	1.847	0.000	278602349	1000.0	1000.0	
2	1.674	1.674	0.000	263936559	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	94134005	25.0	25.9	
2	2.734	2.734	0.000	95978795	25.0	25.6	
RPD = 1.07							

1 PCB-1016

1	3.193	3.193	0.000	30681611	500.0	515.5	
1	3.547	3.547	0.000	58084143	500.0	523.5	
1	4.020	4.020	0.000	127440814	500.0	515.7	
1	4.163	4.163	0.000	56798187	500.0	516.3	
1	4.620	4.620	0.000	55853071	500.0	504.1	
Average of Peak Amounts =						515.0	
2	3.620	3.620	0.000	59028778	500.0	523.7	
2	4.070	4.070	0.000	121652212	500.0	517.9	
2	4.214	4.214	0.000	51961220	500.0	516.2	
2	4.444	4.444	0.000	28344022	500.0	506.0	
2	4.734	4.734	0.000	40574882	500.0	508.1	
Average of Peak Amounts =						514.4	
RPD = 0.12							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081617.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.110	6.110	0.000	87905559	500.0	523.9	
1	6.847	6.847	0.000	163032185	500.0	520.4	
1	7.340	7.340	0.000	79068724	500.0	515.9	
1	7.777	7.777	0.000	170845932	500.0	513.3	
1	8.163	8.163	0.000	96156099	500.0	519.0	

Average of Peak Amounts = 518.5

2	6.580	6.580	0.000	94702932	500.0	513.1	
2	7.044	7.044	0.000	144780015	500.0	513.2	
2	7.570	7.570	0.000	65072064	500.0	489.1	
2	7.940	7.940	0.000	147875936	500.0	502.3	
2	8.440	8.440	0.000	112943857	500.0	512.3	

Average of Peak Amounts = 506.0

RPD = 2.44

\$ 15 DCB Decachlorobiphenyl

1	9.750	9.750	0.000	91408864	25.0	25.9	
2	10.104	10.104	0.000	75707503	25.0	25.8	

RPD = 0.62

Reagents:

AR_1660_L5_00060

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:52

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081617.D

Injection Date: 08-Oct-2016 17:26:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD51660

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

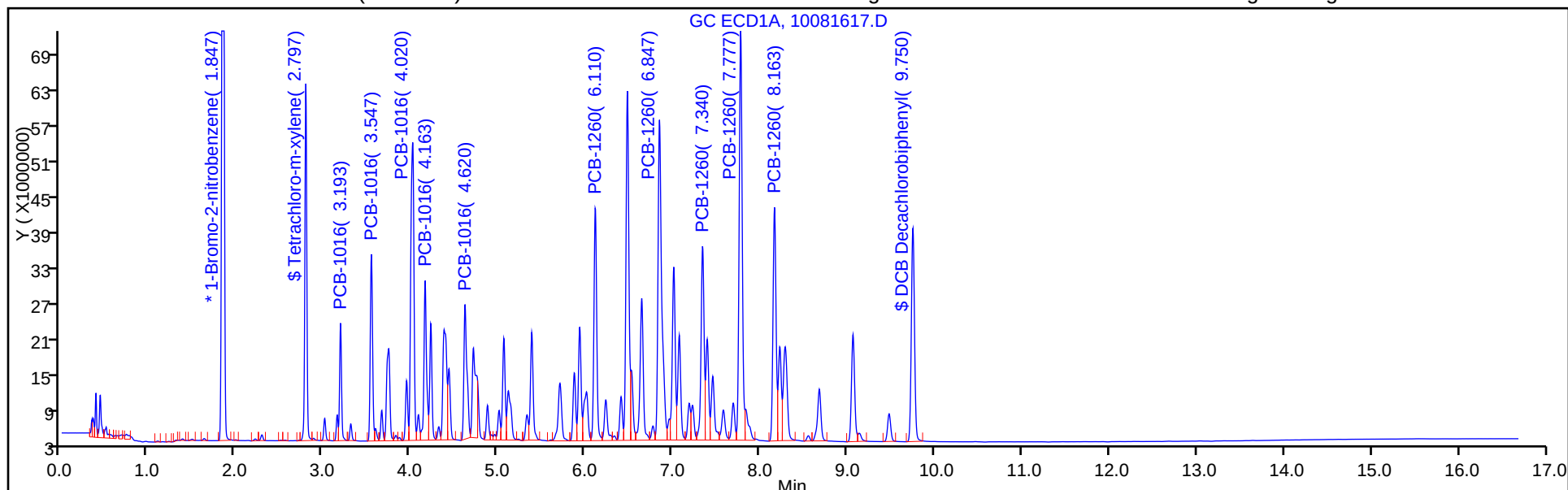
ALS Bottle#: 17

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

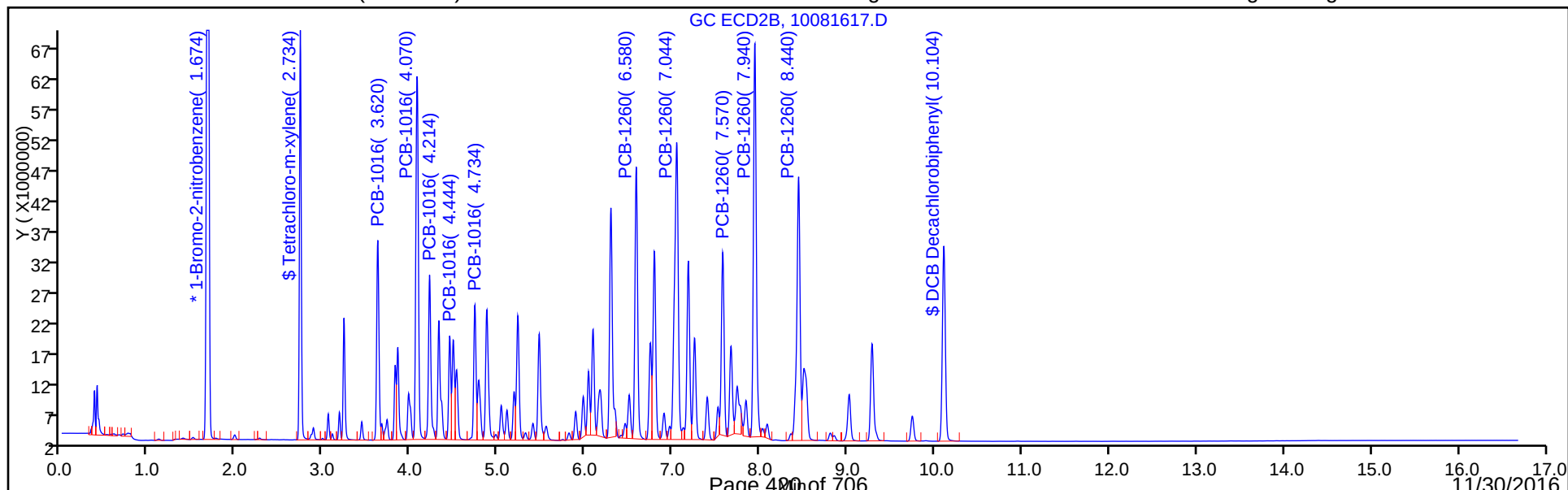
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081618.D
 Lims ID: STDL41660
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 17:47:58 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL41660
 Misc. Info.: 280-0051591-018
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:53 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.851	1.847	0.004	281308235	1000.0	1000.0	
2	1.674	1.674	0.000	266493345	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	48094725	12.5	12.8	
2	2.734	2.734	0.000	48076336	12.5	12.5	
RPD = 2.32							

1 PCB-1016

1	3.194	3.193	0.001	15929332	250.0	258.0	
1	3.547	3.547	0.000	30291915	250.0	262.4	
1	4.021	4.020	0.001	64822500	250.0	254.3	
1	4.164	4.163	0.001	29078133	250.0	255.6	
1	4.621	4.620	0.001	28022370	250.0	244.9	

Average of Peak Amounts = 255.0

2	3.621	3.620	0.001	30373439	250.0	259.0	
2	4.071	4.070	0.001	61921742	250.0	255.9	
2	4.214	4.214	0.000	26268815	250.0	253.3	
2	4.444	4.444	0.000	14493841	250.0	251.1	
2	4.734	4.734	0.000	20476139	250.0	249.4	

Average of Peak Amounts = 253.7

RPD = 0.50

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081618.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.111	6.110	0.001	42891675	250.0	247.3	
1	6.847	6.847	0.000	77912763	250.0	241.8	
1	7.341	7.340	0.001	37357200	250.0	237.6	
1	7.774	7.777	-0.003	91276632	250.0	265.4	
1	8.164	8.163	0.001	48110482	250.0	252.8	

Average of Peak Amounts = 249.0

2	6.581	6.580	0.001	48908567	250.0	257.7	
2	7.044	7.044	0.000	73427627	250.0	253.1	
2	7.571	7.570	0.001	34815751	250.0	255.2	
2	7.937	7.940	-0.003	76723593	250.0	254.3	
2	8.441	8.440	0.001	56606842	250.0	250.6	

Average of Peak Amounts = 254.2

RPD = 2.07

\$ 15 DCB Decachlorobiphenyl

1	9.751	9.750	0.001	46167799	12.5	12.7	
2	10.104	10.104	0.000	38012109	12.5	12.6	

RPD = 0.85

S 8 Polychlorinated biphenyls, Total

1						504.0	
2						507.9	

RPD = 0.78

Reagents:

AR_1660_L4_00063
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:53

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081618.D

Injection Date: 08-Oct-2016 17:47:58

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD41660

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

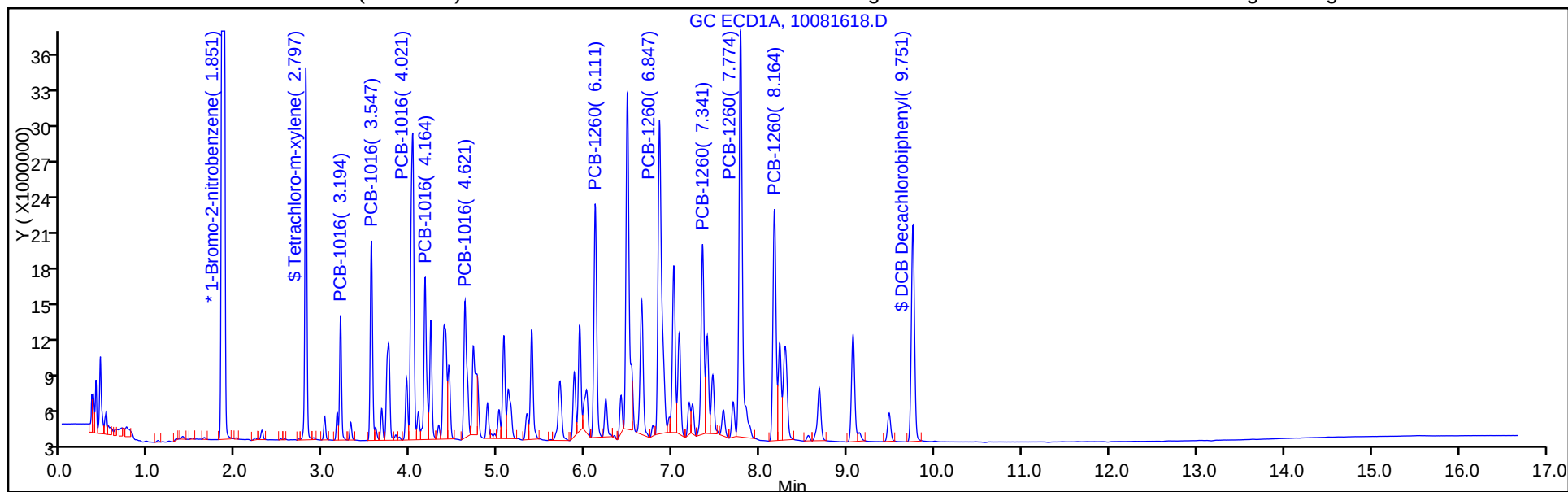
ALS Bottle#: 18

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

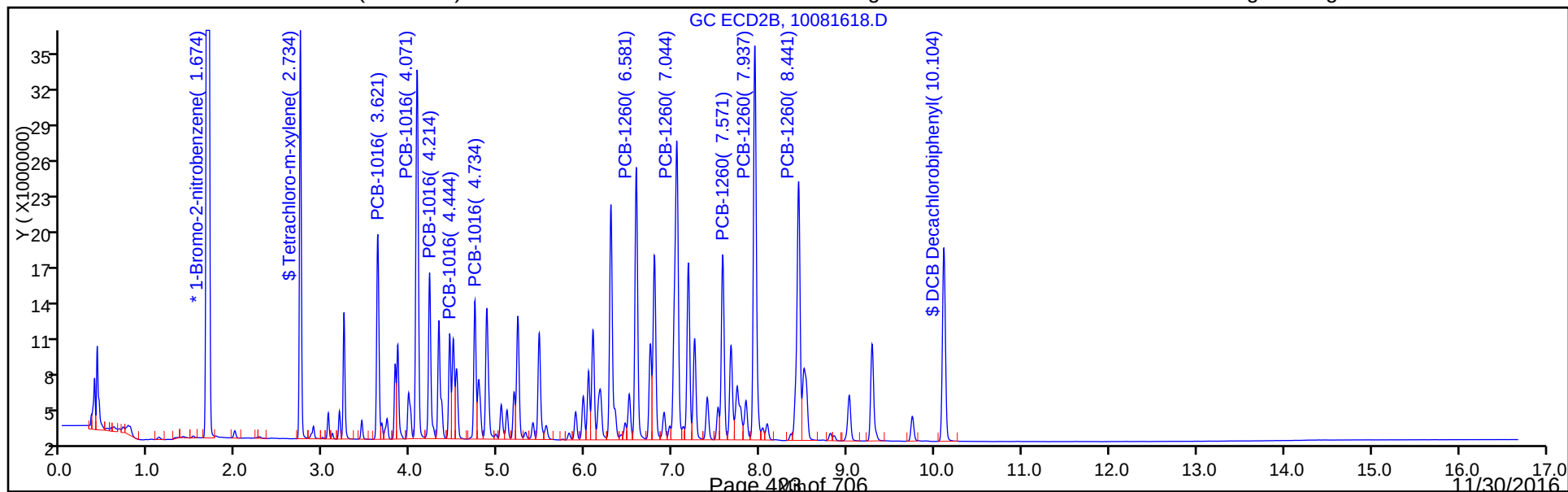
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081619.D
 Lims ID: STDL31660
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 18:09:37 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL31660
 Misc. Info.: 280-0051591-019
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:55 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.851	1.847	0.004	281194735	1000.0	1000.0	
2	1.674	1.674	0.000	267390777	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	21127413	5.00	5.30	
2	2.734	2.734	0.000	20865105	5.00	5.20	
RPD = 1.93							

1 PCB-1016

1	3.194	3.193	0.001	7229394	100.0	109.2	
1	3.547	3.547	0.000	13785568	100.0	110.5	
1	4.021	4.020	0.001	28461655	100.0	105.5	
1	4.161	4.163	-0.002	13019160	100.0	107.6	
1	4.621	4.620	0.001	13067394	100.0	108.3	
Average of Peak Amounts =						108.2	
2	3.621	3.620	0.001	13632279	100.0	107.0	
2	4.071	4.070	0.001	27232682	100.0	106.3	
2	4.214	4.214	0.000	11696309	100.0	106.7	
2	4.444	4.444	0.000	6483390	100.0	106.1	
2	4.731	4.734	-0.003	8922467	100.0	103.2	
Average of Peak Amounts =						105.8	

RPD = 2.19

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081619.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.111	6.110	0.001	19274263	100.0	104.9	
1	6.847	6.847	0.000	34994844	100.0	103.9	
1	7.341	7.340	0.001	16551860	100.0	101.3	
1	7.777	7.777	0.000	39981555	100.0	108.9	
1	8.164	8.163	0.001	20718344	100.0	103.9	

Average of Peak Amounts = 104.6

2	6.581	6.580	0.001	21200527	100.0	105.8	
2	7.044	7.044	0.000	31709422	100.0	103.6	
2	7.571	7.570	0.001	15166854	100.0	106.0	
2	7.938	7.940	-0.002	33160631	100.0	105.1	
2	8.441	8.440	0.001	24444863	100.0	103.7	

Average of Peak Amounts = 104.8

RPD = 0.22

\$ 15 DCB Decachlorobiphenyl

1	9.751	9.750	0.001	20275699	5.00	5.25	
2	10.104	10.104	0.000	16640965	5.00	5.22	

RPD = 0.59

S 8 Polychlorinated biphenyls, Total

1						212.8	
2						210.7	

RPD = 1.00

Reagents:

AR_1660_L3_00026
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:55

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081619.D

Injection Date: 08-Oct-2016 18:09:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD131660

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

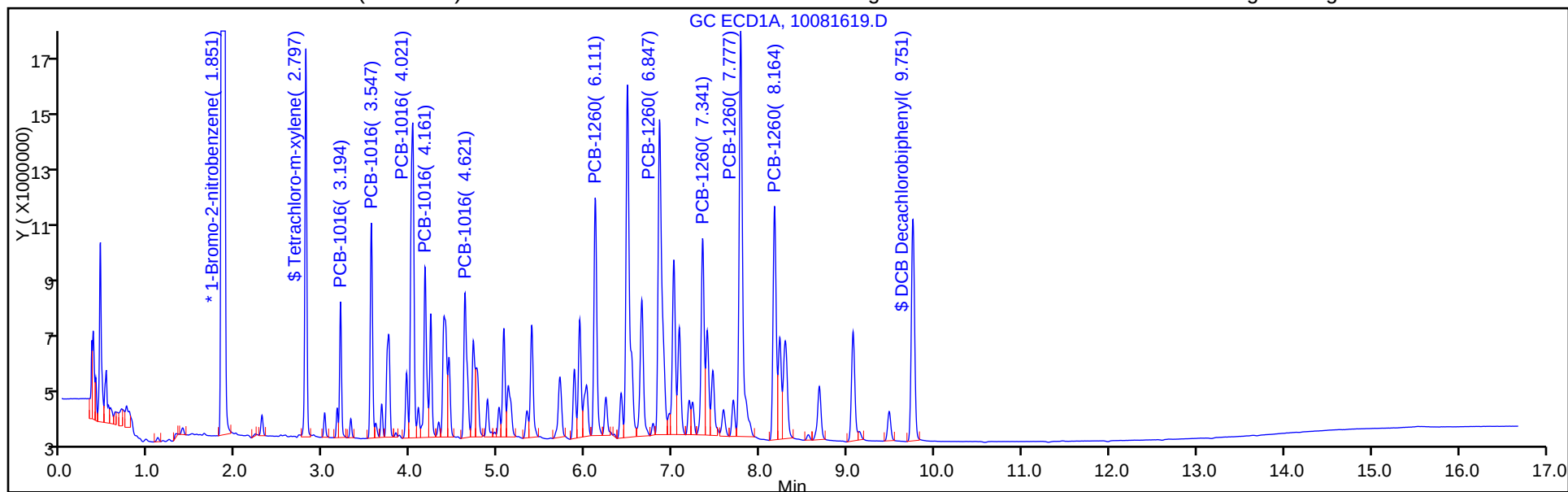
ALS Bottle#: 19

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

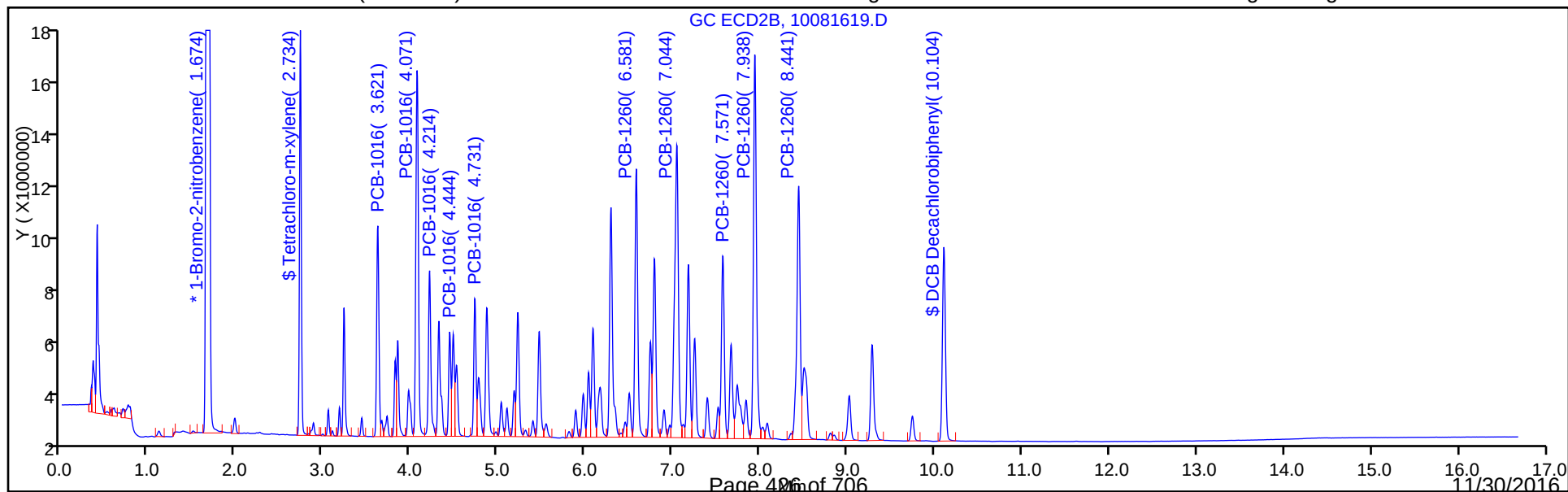
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081620.D
 Lims ID: STDL21660
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 18:31:17 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL21660
 Misc. Info.: 280-0051591-020
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:57 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.847	0.001	269819481	1000.0	1000.0	
2	1.672	1.674	-0.002	256792124	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.795	2.797	-0.002	10785571	2.50	2.55	
2	2.732	2.734	-0.002	10422018	2.50	2.53	
RPD = 0.90							

1 PCB-1016

1	3.195	3.193	0.002	3704299	50.0	51.5	
1	3.545	3.547	-0.002	7190201	50.0	52.5	
1	4.022	4.020	0.002	14526378	50.0	50.9	
1	4.162	4.163	-0.001	6675916	50.0	51.6	
1	4.618	4.620	-0.002	6564298	50.0	51.4	
Average of Peak Amounts =						51.6	
2	3.619	3.620	-0.001	7053543	50.0	50.2	
2	4.072	4.070	0.002	13679130	50.0	50.6	
2	4.212	4.214	-0.002	5886484	50.0	51.0	
2	4.445	4.444	0.001	3327251	50.0	51.7	
2	4.732	4.734	-0.002	4571082	50.0	50.9	
Average of Peak Amounts =						50.9	
RPD = 1.37							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081620.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.112	6.110	0.002	9911386	50.0	50.9	
1	6.848	6.847	0.001	17810078	50.0	51.1	
1	7.342	7.340	0.002	8506323	50.0	50.9	
1	7.778	7.777	0.001	20222696	50.0	51.2	
1	8.165	8.163	0.002	10511237	50.0	50.8	

Average of Peak Amounts = 51.0

2	6.582	6.580	0.002	10585540	50.0	50.3	
2	7.045	7.044	0.001	16234443	50.0	50.8	
2	7.572	7.570	0.002	7604224	50.0	51.2	
2	7.938	7.940	-0.002	16562215	50.0	50.9	
2	8.438	8.440	-0.002	12328783	50.0	51.0	

Average of Peak Amounts = 50.9

RPD = 0.26

\$ 15 DCB Decachlorobiphenyl

1	9.748	9.750	-0.002	10440662	2.50	2.55	
2	10.105	10.104	0.001	8507239	2.50	2.55	

RPD = 0.21

S 8 Polychlorinated biphenyls, Total

1						102.6	
2						101.7	

RPD = 0.81

Reagents:

AR_1660_L2_00025
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:57

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081620.D

Injection Date: 08-Oct-2016 18:31:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD L21660

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

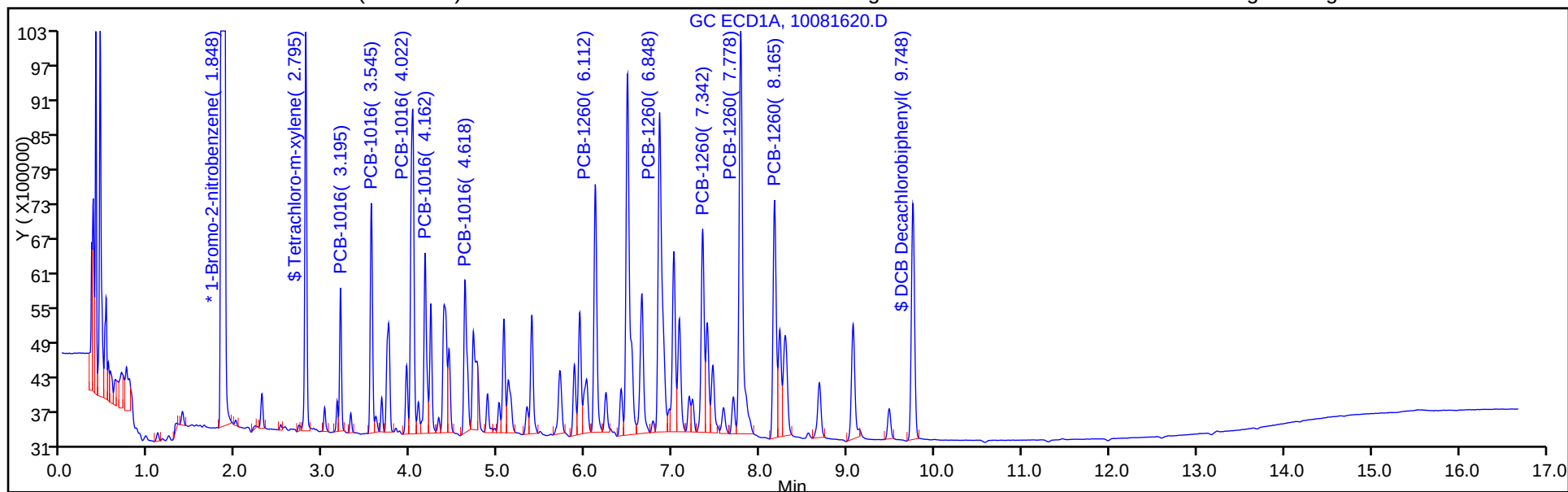
ALS Bottle#: 20

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

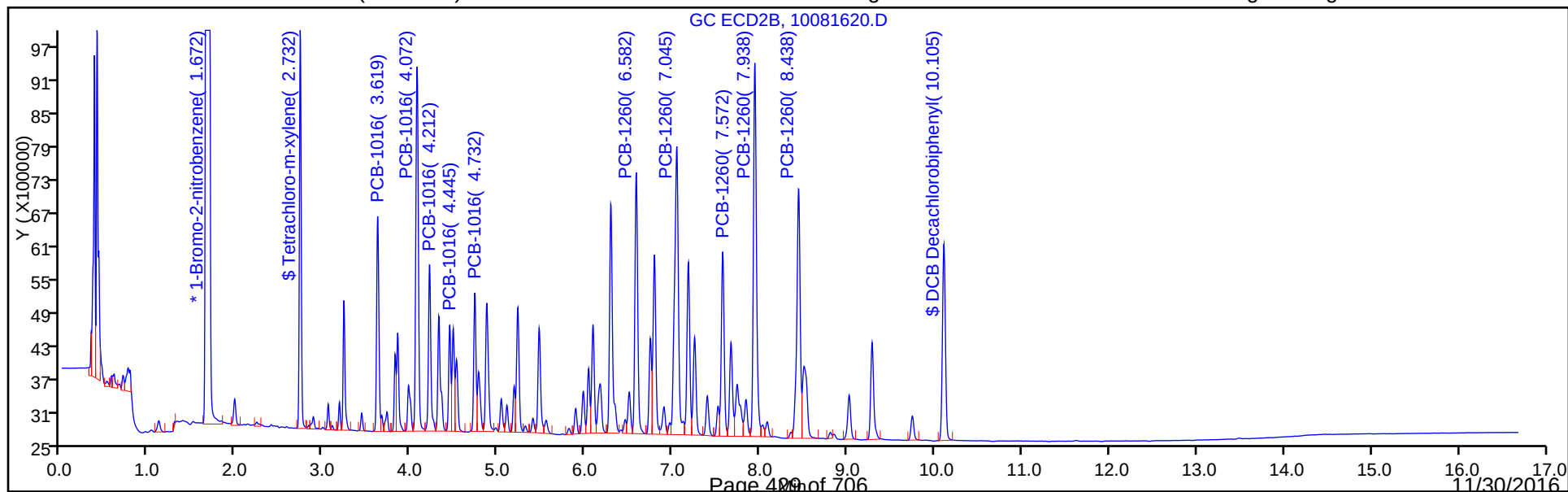
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081621.D
 Lims ID: STDL11660
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 18:52:58 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL11660
 Misc. Info.: 280-0051591-021
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:59 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.847	0.002	278525441	1000.0	1000.0	
2	1.676	1.674	0.002	265035398	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.796	2.797	-0.001	6025618	1.25	1.11	
2	2.733	2.734	-0.001	5743872	1.25	1.17	
RPD = 5.47							

1 PCB-1016

1	3.193	3.193	0.000	2068792	25.0	21.2	
1	3.546	3.547	-0.001	3911568	25.0	19.9	
1	4.019	4.020	-0.001	8150652	25.0	22.6	
1	4.163	4.163	0.000	3665410	25.0	21.6	
1	4.619	4.620	-0.001	3652312	25.0	22.6	
Average of Peak Amounts =						21.6	
2	3.619	3.620	-0.001	4180376	25.0	22.0	
2	4.073	4.070	0.003	7572879	25.0	22.3	
2	4.213	4.214	-0.001	3233906	25.0	22.3	
2	4.446	4.444	0.002	1833115	25.0	22.7	
2	4.733	4.734	-0.001	2580475	25.0	23.7	
Average of Peak Amounts =						22.6	

RPD = 4.75

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081621.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.113	6.110	0.003	5657078	25.0	23.1	
1	6.849	6.847	0.002	9924750	25.0	23.6	
1	7.343	7.340	0.003	4838426	25.0	24.8	
1	7.776	7.777	-0.001	11032629	25.0	20.9	
1	8.166	8.163	0.003	5794670	25.0	23.1	

Average of Peak Amounts = 23.1

2	6.583	6.580	0.003	5892668	25.0	22.6	
2	7.046	7.044	0.002	9070327	25.0	23.2	
2	7.573	7.570	0.003	4120910	25.0	22.8	
2	7.939	7.940	-0.001	8968208	25.0	23.0	
2	8.439	8.440	-0.001	6659442	25.0	23.3	

Average of Peak Amounts = 23.0

RPD = 0.46

\$ 15 DCB Decachlorobiphenyl

1	9.749	9.750	-0.001	5906808	1.25	1.13	
2	10.103	10.104	-0.001	4726924	1.25	1.15	

RPD = 1.63

S 8 Polychlorinated biphenyls, Total

1						44.6	
2						45.6	

RPD = 2.09

Reagents:

AR_1660_L1_00026
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:59

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081621.D

Injection Date: 08-Oct-2016 18:52:58

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD11660

Worklist Smp#: 21

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

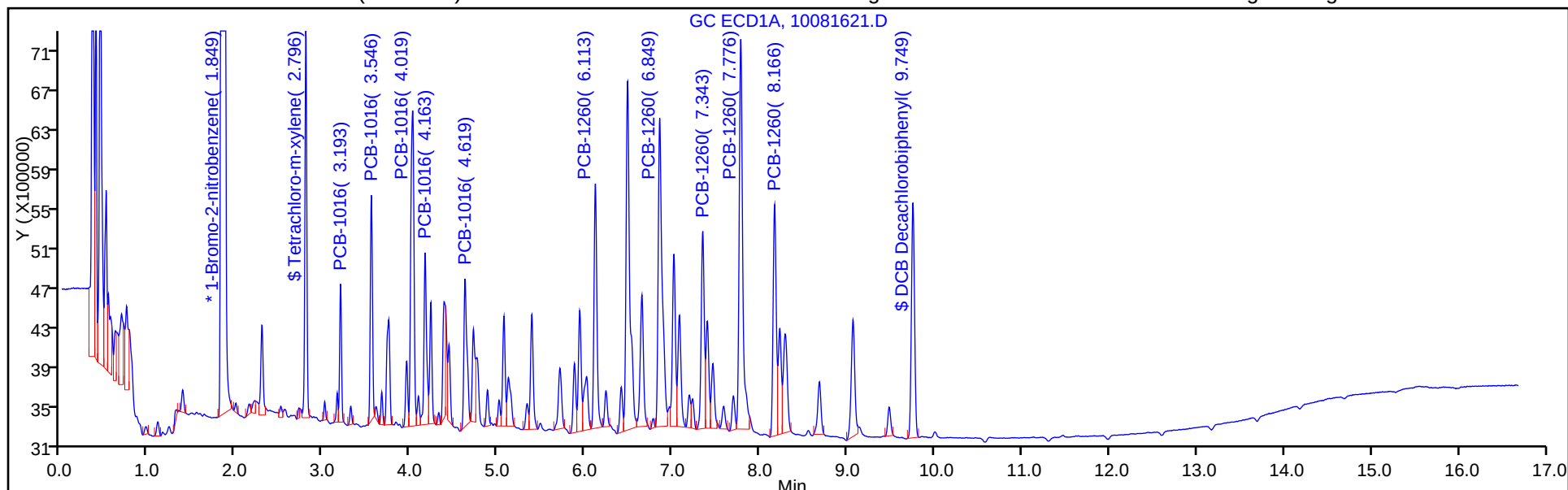
ALS Bottle#: 21

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

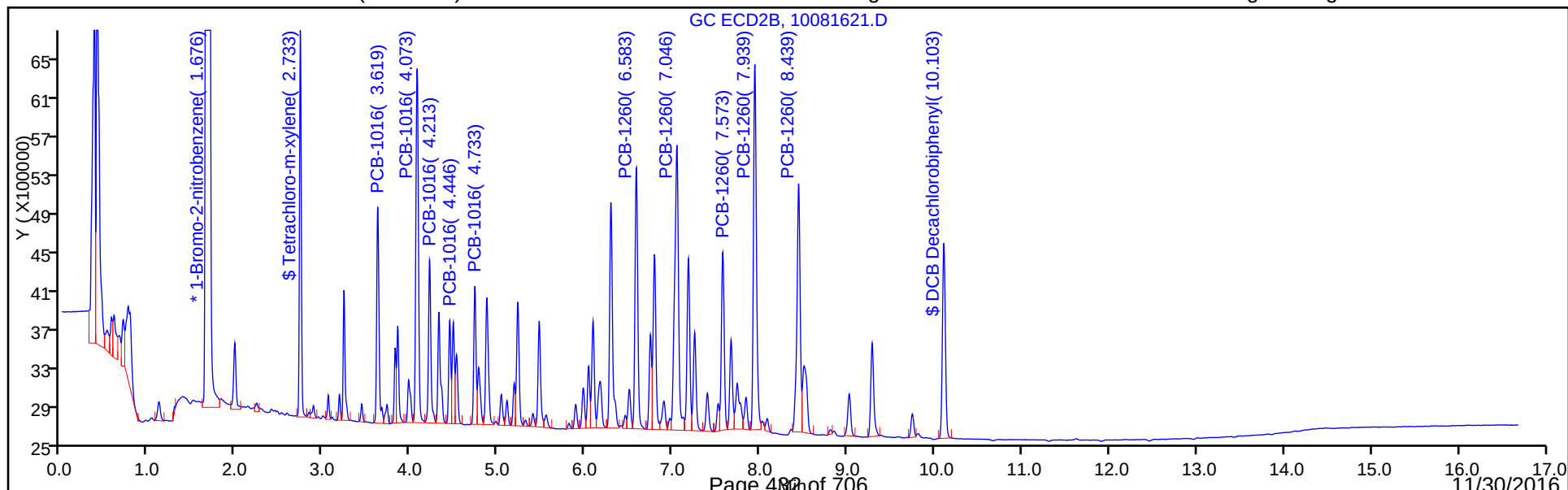
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 16:42 Calibration End Date: 10/08/2016 18:52 Calibration ID: 27248

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11660 280-345281/21	10081621.D
Level 2	STD121660 280-345281/20	10081620.D
Level 3	STD131660 280-345281/19	10081619.D
Level 4	STD141660 280-345281/18	10081618.D
Level 5	STD151660 280-345281/17	10081617.D
Level 6	STD161660 280-345281/16	10081616.D
Level 7	STD171660 280-345281/15	10081615.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.6309 0.4218	0.5494 0.4068	0.5098	0.4559	0.4473	Lin1	6.6567	0.4143							0.9980		0.9900
PCB-1016 Peak 2	1.1429 0.8827	1.0654 0.8584	1.0185	0.9294	0.9218	Lin1	9.0911	0.8724							0.9990		0.9900
PCB-1016 Peak 3	0.4881 0.3787	0.4585 0.3690	0.4374	0.3943	0.3937	Lin1	3.8566	0.3739							0.9990		0.9900
PCB-1016 Peak 4	0.2767 0.2059	0.2591 0.2111	0.2425	0.2175	0.2148	Lin1	2.2035	0.2079							0.9990		0.9900
PCB-1016 Peak 5	0.3895 0.2984	0.3560 0.2987	0.3337	0.3073	0.3075	Lin1	2.6830	0.2973							1.0000		0.9900
PCB-1260 Peak 1	0.8893 0.6921	0.8244 0.6784	0.7929	0.7341	0.7176	Lin1	6.7064	0.6862							0.9990		0.9900
PCB-1260 Peak 2	1.3689 1.0620	1.2644 1.0404	1.1859	1.1021	1.0971	Lin1	9.8689	1.0497							1.0000		0.9900
PCB-1260 Peak 3	0.6219 0.5066	0.5922 0.4957	0.5672	0.5226	0.4931	Lin1	4.2360	0.4954							0.9990		0.9900
PCB-1260 Peak 4	1.3535 1.1125	1.2899 1.0933	1.2402	1.1516	1.1205	Lin1	8.5942	1.0983							1.0000		0.9900
PCB-1260 Peak 5	1.0051 0.8329	0.9602 0.8154	0.9142	0.8497	0.8558	Lin1	5.9738	0.8236							1.0000		0.9900
Tetrachloro-m-xylene (Surr)	17.338 14.107	16.234 13.879	15.606	14.432	14.546	Lin1	5.2663	13.985							1.0000		0.9900
DCB Decachlorobiphenyl (Surr)	14.268 11.003	13.252 10.850	12.447	11.411	11.474	Lin1	5.2618	10.923							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 16:42 Calibration End Date: 10/08/2016 18:52 Calibration ID: 27248

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD11660 280-345281/21	10081621.D
Level 2	STD121660 280-345281/20	10081620.D
Level 3	STD131660 280-345281/19	10081619.D
Level 4	STD141660 280-345281/18	10081618.D
Level 5	STD151660 280-345281/17	10081617.D
Level 6	STD161660 280-345281/16	10081616.D
Level 7	STD171660 280-345281/15	10081615.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	4180376 80228770	7053543 103145363	13632279	30373439	59028778	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 2	BNB	Lin1	7572879 167889635	13679130 217662809	27232682	61921742	121652212	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 3	BNB	Lin1	3233906 72017346	5886484 93557678	11696309	26268815	51961220	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 4	BNB	Lin1	1833115 39155213	3327251 53541018	6483390	14493841	28344022	25.0 750	50.0 1000	100	250	500
PCB-1016 Peak 5	BNB	Lin1	2580475 56756339	4571082 75743411	8922467	20476139	40574882	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 1	BNB	Lin1	5892668 131640945	10585540 172031476	21200527	48908567	94702932	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 2	BNB	Lin1	9070327 201986527	16234443 263806910	31709422	73427627	144780015	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 3	BNB	Lin1	4120910 96359675	7604224 125703859	15166854	34815751	65072064	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 4	BNB	Lin1	8968208 211581655	16562215 277241764	33160631	76723593	147875936	25.0 750	50.0 1000	100	250	500
PCB-1260 Peak 5	BNB	Lin1	6659442 158422282	12328783 206769032	24444863	56606842	112943857	25.0 750	50.0 1000	100	250	500
Tetrachloro-m-xylene (Surr)	BNB	Lin1	5743872 134152881	10422018 175966913	20865105	48076336	95978795	1.25 37.5	2.50 50.0	5.00	12.5	25.0
DCB Decachlorobiphenyl (Surr)	BNB	Lin1	4726924 104633981	8507239 137561004	16640965	38012109	75707503	1.25 37.5	2.50 50.0	5.00	12.5	25.0

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D
 Lims ID: STDL71660
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 16:42:57 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL71660
 Misc. Info.: 280-0051591-015
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:47 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:13:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.849	0.000	268307579	1000.0	1000.0	
2	1.672	1.676	-0.004	253574546	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.796	2.797	-0.001	169082456	50.0	48.8	
2	2.736	2.734	0.002	175966913	50.0	49.2	
RPD = 0.88							

1 PCB-1016

M

1	3.196	3.193	0.003	55040808	1000.0	972.7	
1	3.546	3.547	-0.001	101232778	1000.0	960.8	M
1	4.022	4.020	0.002	230529784	1000.0	978.5	M
1	4.162	4.163	-0.001	101620993	1000.0	970.0	M
1	4.619	4.620	-0.001	103960024	1000.0	984.6	M
Average of Peak Amounts =						973.3	
2	3.619	3.620	-0.001	103145363	1000.0	965.6	
2	4.072	4.070	0.002	217662809	1000.0	973.5	
2	4.212	4.214	-0.002	93557678	1000.0	976.4	
2	4.446	4.444	0.002	53541018	1000.0	1005.2	
2	4.732	4.734	-0.002	75743411	1000.0	995.8	
Average of Peak Amounts =						983.3	
RPD = 1.02							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.112	6.110	0.002	156560058	1000.0	978.5	
1	6.846	6.847	-0.001	293460060	1000.0	980.2	
1	7.342	7.340	0.002	145645097	1000.0	993.4	
1	7.776	7.777	-0.001	307330151	1000.0	970.2	
1	8.162	8.163	-0.001	174373109	1000.0	985.1	

Average of Peak Amounts = 981.5

2	6.579	6.580	-0.001	172031476	1000.0	978.9	
2	7.046	7.044	0.002	263806910	1000.0	981.7	
2	7.572	7.570	0.002	125703859	1000.0	992.2	
2	7.939	7.940	-0.001	277241764	1000.0	987.6	
2	8.439	8.440	-0.001	206769032	1000.0	982.8	

Average of Peak Amounts = 984.6

RPD = 0.32

\$ 15 DCB Decachlorobiphenyl

1	9.749	9.750	-0.001	163599797	50.0	48.7	
2	10.102	10.104	-0.002	137561004	50.0	49.2	

RPD = 0.98

S 8 Polychlorinated biphenyls, Total

1						1954.8	
2						1967.9	

RPD = 0.67

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1660_L7_00020

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:48

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081615.D

Injection Date: 08-Oct-2016 16:42:57

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD171660

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

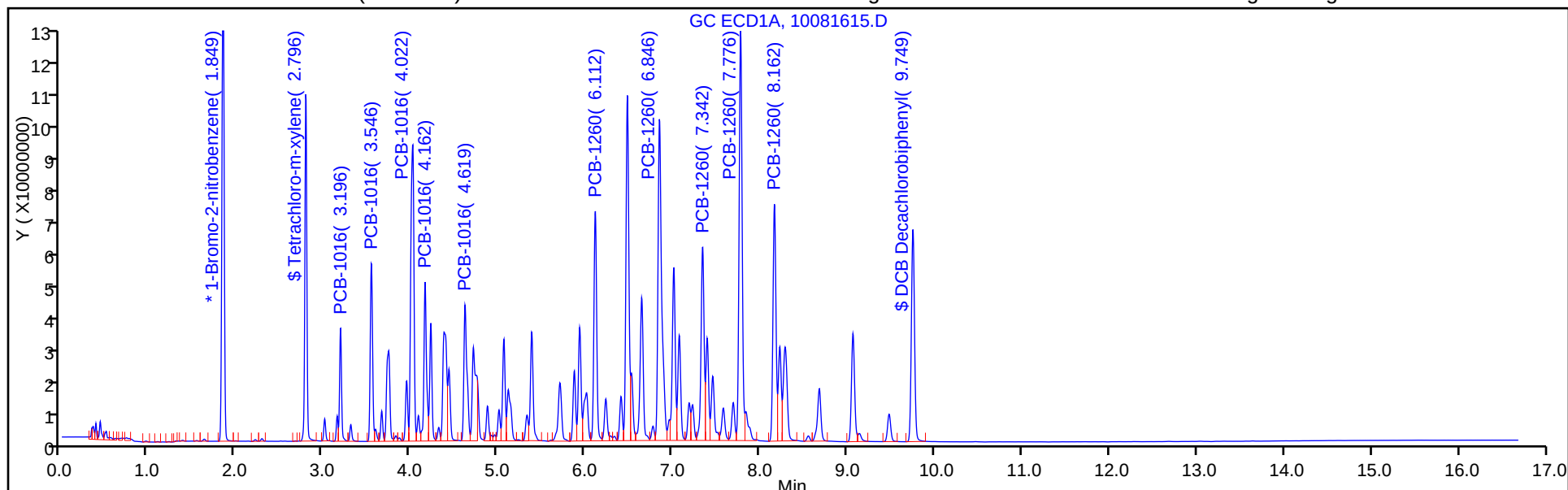
ALS Bottle#: 15

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

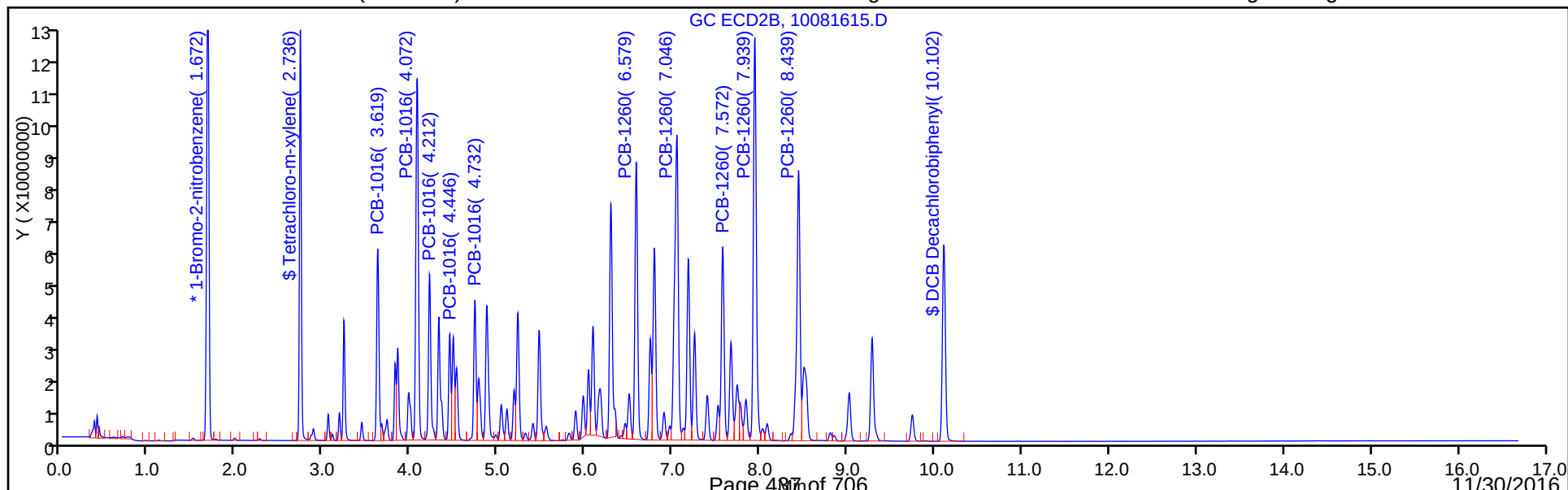
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D
 Lims ID: STDL61660
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 17:04:38 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL61660
 Misc. Info.: 280-0051591-016
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:49 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:12:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.847	1.849	-0.002	268709937	1000.0	1000.0	
2	1.673	1.676	-0.003	253592332	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	129689586	37.5	37.3	
2	2.733	2.734	-0.001	134152881	37.5	37.5	
RPD = 0.54							

1 PCB-1016

M

1	3.193	3.193	0.000	42520565	750.0	747.0	
1	3.547	3.547	0.000	79050845	750.0	745.5	M
1	4.020	4.020	0.000	177006327	750.0	747.6	M
1	4.163	4.163	0.000	79230979	750.0	752.3	M
1	4.620	4.620	0.000	80546084	750.0	759.2	M
Average of Peak Amounts =						750.3	
2	3.620	3.620	0.000	80228770	750.0	747.5	
2	4.070	4.070	0.000	167889635	750.0	748.4	
2	4.213	4.214	-0.001	72017346	750.0	749.2	
2	4.443	4.444	-0.001	39155213	750.0	732.2	
2	4.733	4.734	-0.001	56756339	750.0	743.9	
Average of Peak Amounts =						744.2	

RPD = 0.81

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.110	6.110	0.000	120046212	750.0	746.5	
1	6.846	6.847	-0.001	226656596	750.0	753.9	
1	7.340	7.340	0.000	110539541	750.0	751.1	
1	7.776	7.777	-0.001	237334174	750.0	745.1	
1	8.163	8.163	0.000	131607970	750.0	740.2	

Average of Peak Amounts = 747.4

2	6.580	6.580	0.000	131640945	750.0	746.7	
2	7.043	7.044	-0.001	201986527	750.0	749.4	
2	7.570	7.570	0.000	96359675	750.0	758.5	
2	7.937	7.940	-0.003	211581655	750.0	751.8	
2	8.440	8.440	0.000	158422282	750.0	751.2	

Average of Peak Amounts = 751.5

RPD = 0.55

\$ 15 DCB Decachlorobiphenyl

1	9.750	9.750	0.000	126579845	37.5	37.5	
2	10.103	10.104	-0.001	104633981	37.5	37.3	

RPD = 0.54

S 8 Polychlorinated biphenyls, Total

1						1497.7	
2						1495.8	

RPD = 0.13

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1660_L6_00027

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:50

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081616.D

Injection Date: 08-Oct-2016 17:04:38

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD61660

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

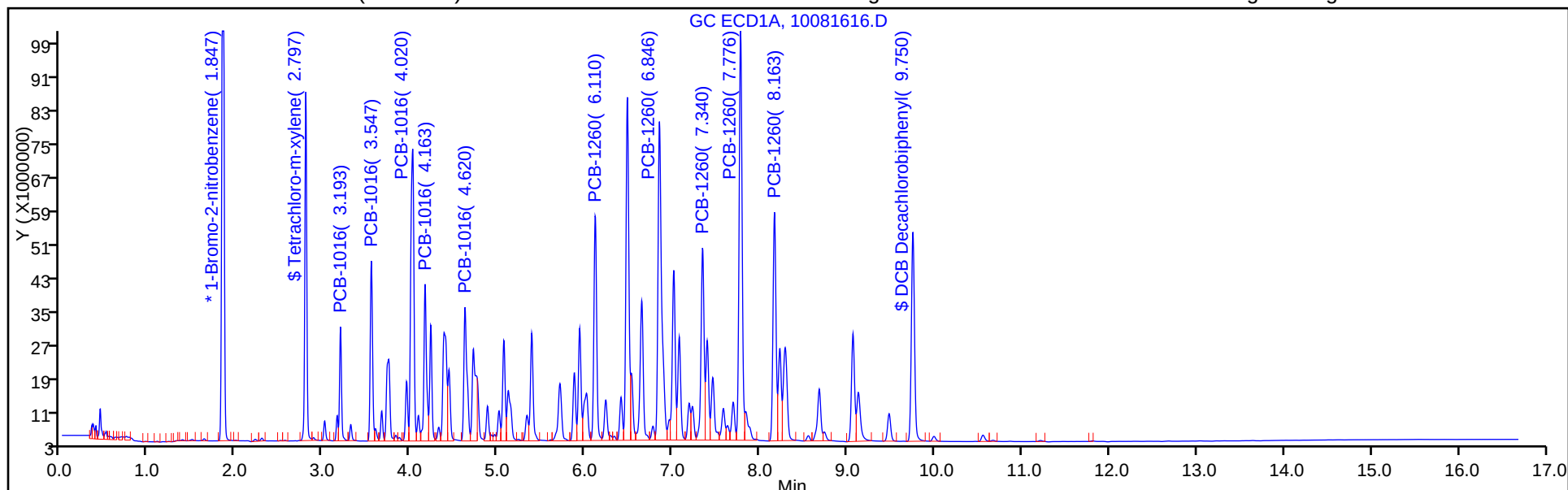
ALS Bottle#: 16

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

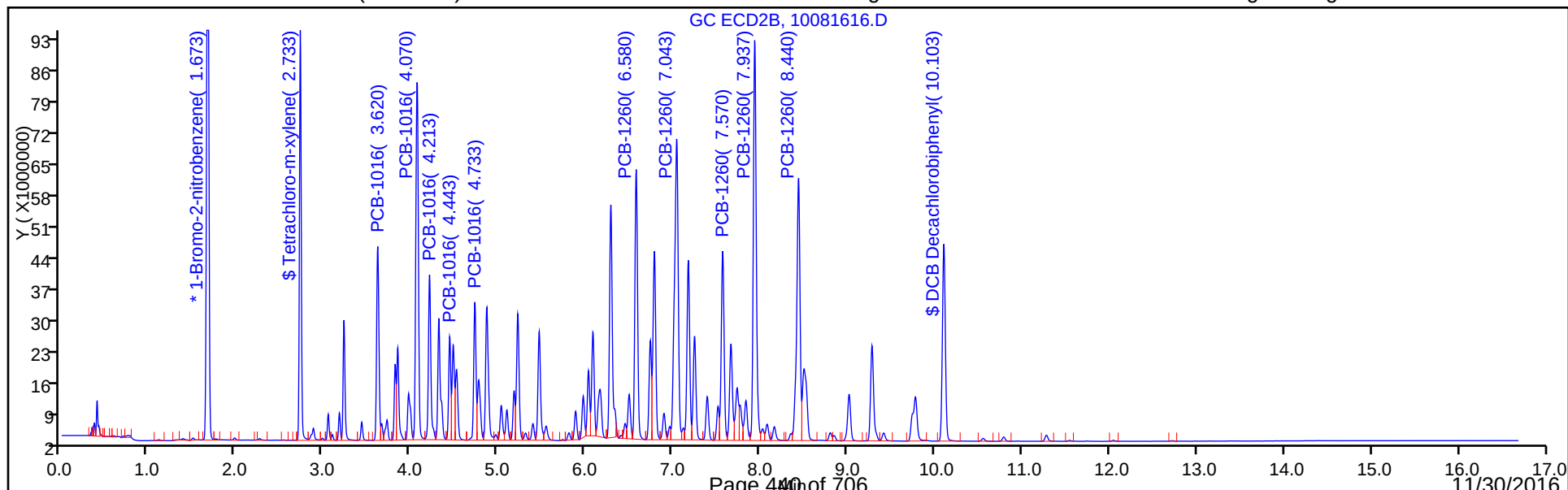
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081617.D
 Lims ID: STDL51660
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 08-Oct-2016 17:26:17 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL51660
 Misc. Info.: 280-0051591-017
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:51 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 08:59:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.847	1.847	0.000	278602349	1000.0	1000.0	
2	1.674	1.674	0.000	263936559	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	94134005	25.0	25.9	
2	2.734	2.734	0.000	95978795	25.0	25.6	
RPD = 1.07							

1 PCB-1016

1	3.193	3.193	0.000	30681611	500.0	515.5	
1	3.547	3.547	0.000	58084143	500.0	523.5	
1	4.020	4.020	0.000	127440814	500.0	515.7	
1	4.163	4.163	0.000	56798187	500.0	516.3	
1	4.620	4.620	0.000	55853071	500.0	504.1	
Average of Peak Amounts =						515.0	
2	3.620	3.620	0.000	59028778	500.0	523.7	
2	4.070	4.070	0.000	121652212	500.0	517.9	
2	4.214	4.214	0.000	51961220	500.0	516.2	
2	4.444	4.444	0.000	28344022	500.0	506.0	
2	4.734	4.734	0.000	40574882	500.0	508.1	
Average of Peak Amounts =						514.4	
RPD = 0.12							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081617.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.110	6.110	0.000	87905559	500.0	523.9	
1	6.847	6.847	0.000	163032185	500.0	520.4	
1	7.340	7.340	0.000	79068724	500.0	515.9	
1	7.777	7.777	0.000	170845932	500.0	513.3	
1	8.163	8.163	0.000	96156099	500.0	519.0	

Average of Peak Amounts = 518.5

2	6.580	6.580	0.000	94702932	500.0	513.1	
2	7.044	7.044	0.000	144780015	500.0	513.2	
2	7.570	7.570	0.000	65072064	500.0	489.1	
2	7.940	7.940	0.000	147875936	500.0	502.3	
2	8.440	8.440	0.000	112943857	500.0	512.3	

Average of Peak Amounts = 506.0

RPD = 2.44

\$ 15 DCB Decachlorobiphenyl

1	9.750	9.750	0.000	91408864	25.0	25.9	
2	10.104	10.104	0.000	75707503	25.0	25.8	

RPD = 0.62

Reagents:

AR_1660_L5_00060

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:52

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081617.D

Injection Date: 08-Oct-2016 17:26:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD151660

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

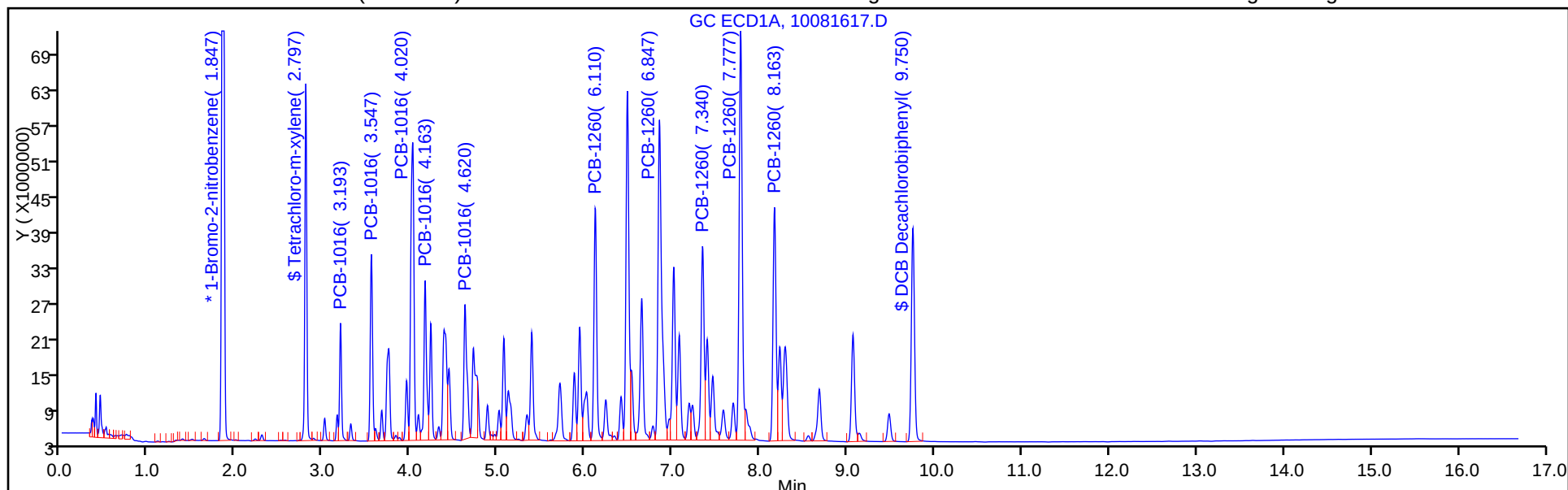
ALS Bottle#: 17

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

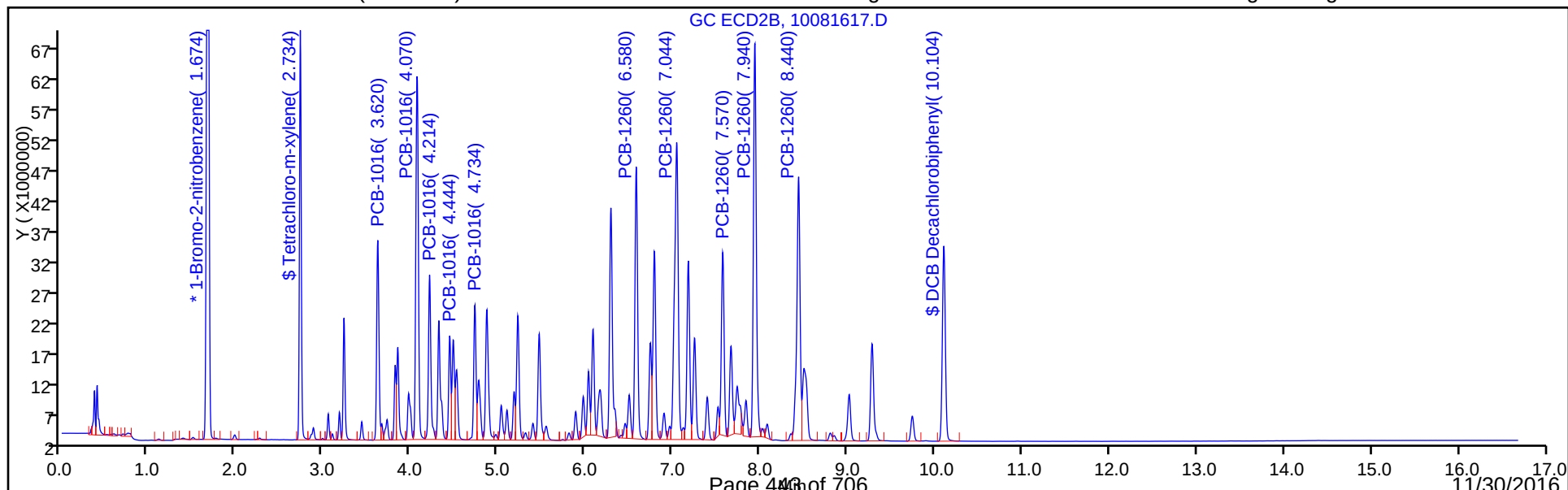
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081618.D
 Lims ID: STDL41660
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 17:47:58 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL41660
 Misc. Info.: 280-0051591-018
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:53 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.851	1.847	0.004	281308235	1000.0	1000.0	
2	1.674	1.674	0.000	266493345	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	48094725	12.5	12.8	
2	2.734	2.734	0.000	48076336	12.5	12.5	
RPD = 2.32							

1 PCB-1016

1	3.194	3.193	0.001	15929332	250.0	258.0	
1	3.547	3.547	0.000	30291915	250.0	262.4	
1	4.021	4.020	0.001	64822500	250.0	254.3	
1	4.164	4.163	0.001	29078133	250.0	255.6	
1	4.621	4.620	0.001	28022370	250.0	244.9	
Average of Peak Amounts =						255.0	
2	3.621	3.620	0.001	30373439	250.0	259.0	
2	4.071	4.070	0.001	61921742	250.0	255.9	
2	4.214	4.214	0.000	26268815	250.0	253.3	
2	4.444	4.444	0.000	14493841	250.0	251.1	
2	4.734	4.734	0.000	20476139	250.0	249.4	
Average of Peak Amounts =						253.7	
RPD = 0.50							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081618.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.111	6.110	0.001	42891675	250.0	247.3	
1	6.847	6.847	0.000	77912763	250.0	241.8	
1	7.341	7.340	0.001	37357200	250.0	237.6	
1	7.774	7.777	-0.003	91276632	250.0	265.4	
1	8.164	8.163	0.001	48110482	250.0	252.8	

Average of Peak Amounts = 249.0

2	6.581	6.580	0.001	48908567	250.0	257.7	
2	7.044	7.044	0.000	73427627	250.0	253.1	
2	7.571	7.570	0.001	34815751	250.0	255.2	
2	7.937	7.940	-0.003	76723593	250.0	254.3	
2	8.441	8.440	0.001	56606842	250.0	250.6	

Average of Peak Amounts = 254.2

RPD = 2.07

\$ 15 DCB Decachlorobiphenyl

1	9.751	9.750	0.001	46167799	12.5	12.7	
2	10.104	10.104	0.000	38012109	12.5	12.6	

RPD = 0.85

S 8 Polychlorinated biphenyls, Total

1						504.0	
2						507.9	

RPD = 0.78

Reagents:

AR_1660_L4_00063
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:54

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081618.D

Injection Date: 08-Oct-2016 17:47:58

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD41660

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

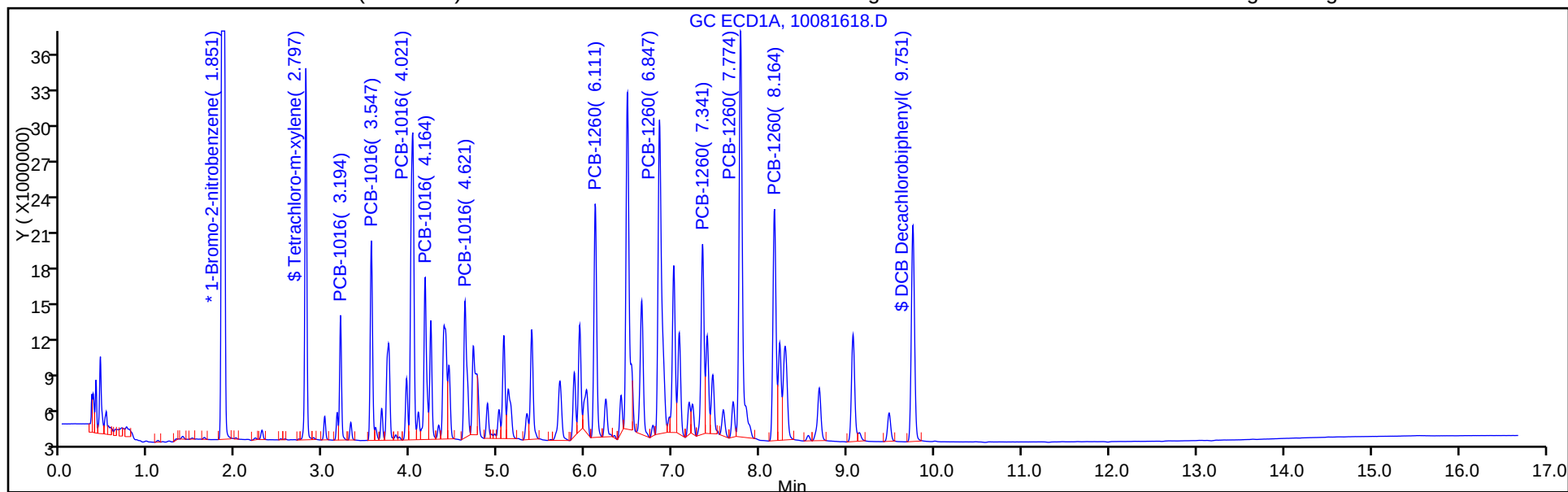
ALS Bottle#: 18

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

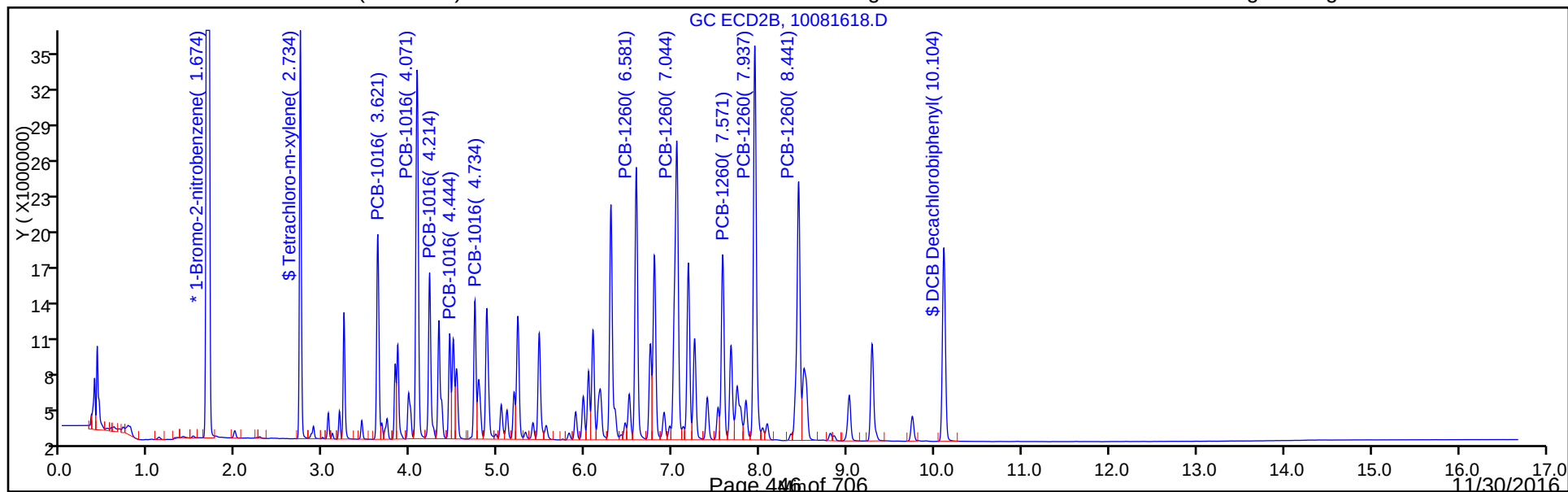
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081619.D
 Lims ID: STDL31660
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 18:09:37 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL31660
 Misc. Info.: 280-0051591-019
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:55 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.851	1.847	0.004	281194735	1000.0	1000.0	
2	1.674	1.674	0.000	267390777	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	21127413	5.00	5.30	
2	2.734	2.734	0.000	20865105	5.00	5.20	
RPD = 1.93							

1 PCB-1016

1	3.194	3.193	0.001	7229394	100.0	109.2	
1	3.547	3.547	0.000	13785568	100.0	110.5	
1	4.021	4.020	0.001	28461655	100.0	105.5	
1	4.161	4.163	-0.002	13019160	100.0	107.6	
1	4.621	4.620	0.001	13067394	100.0	108.3	
Average of Peak Amounts =						108.2	
2	3.621	3.620	0.001	13632279	100.0	107.0	
2	4.071	4.070	0.001	27232682	100.0	106.3	
2	4.214	4.214	0.000	11696309	100.0	106.7	
2	4.444	4.444	0.000	6483390	100.0	106.1	
2	4.731	4.734	-0.003	8922467	100.0	103.2	
Average of Peak Amounts =						105.8	
RPD = 2.19							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081619.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.111	6.110	0.001	19274263	100.0	104.9	
1	6.847	6.847	0.000	34994844	100.0	103.9	
1	7.341	7.340	0.001	16551860	100.0	101.3	
1	7.777	7.777	0.000	39981555	100.0	108.9	
1	8.164	8.163	0.001	20718344	100.0	103.9	

Average of Peak Amounts = 104.6

2	6.581	6.580	0.001	21200527	100.0	105.8	
2	7.044	7.044	0.000	31709422	100.0	103.6	
2	7.571	7.570	0.001	15166854	100.0	106.0	
2	7.938	7.940	-0.002	33160631	100.0	105.1	
2	8.441	8.440	0.001	24444863	100.0	103.7	

Average of Peak Amounts = 104.8

RPD = 0.22

\$ 15 DCB Decachlorobiphenyl

1	9.751	9.750	0.001	20275699	5.00	5.25	
2	10.104	10.104	0.000	16640965	5.00	5.22	

RPD = 0.59

S 8 Polychlorinated biphenyls, Total

1						212.8	
2						210.7	

RPD = 1.00

Reagents:

AR_1660_L3_00026
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:56

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081619.D

Injection Date: 08-Oct-2016 18:09:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD131660

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

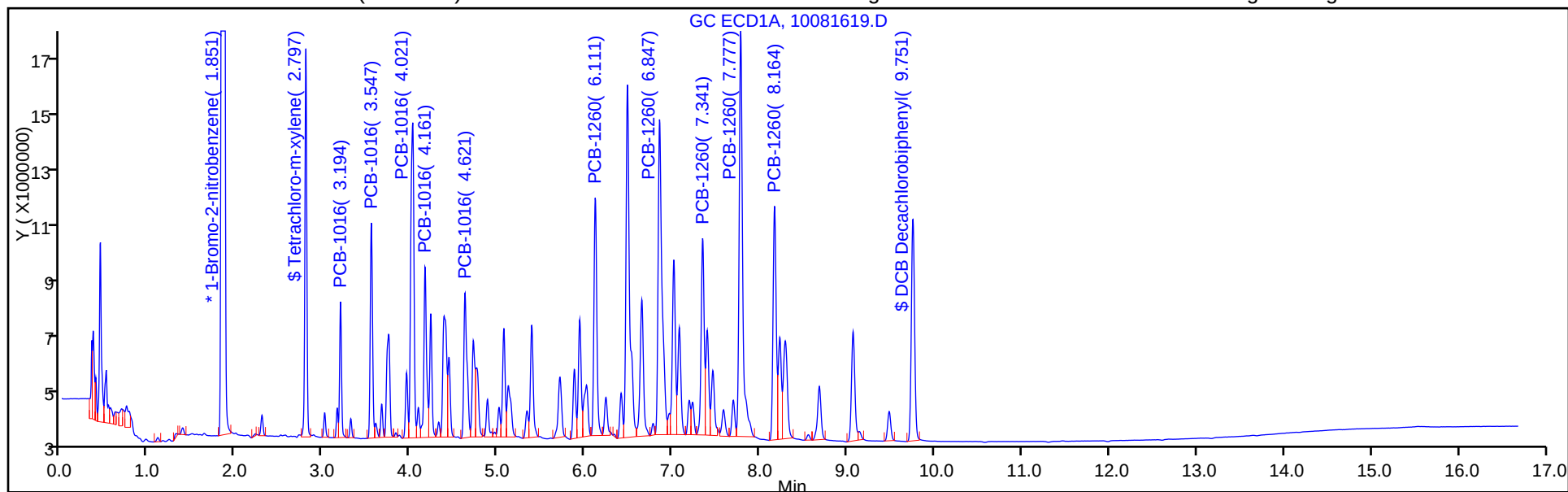
ALS Bottle#: 19

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

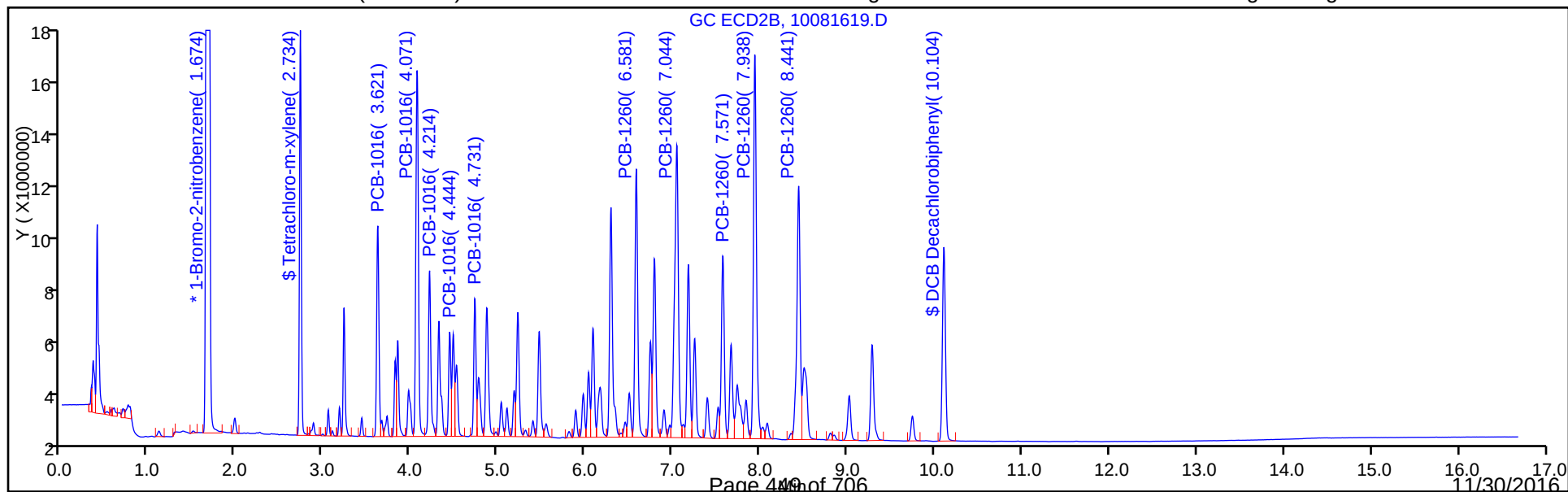
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081620.D
 Lims ID: STDL21660
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 18:31:17 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL21660
 Misc. Info.: 280-0051591-020
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:57 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.847	0.001	269819481	1000.0	1000.0	
2	1.672	1.674	-0.002	256792124	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.795	2.797	-0.002	10785571	2.50	2.55	
2	2.732	2.734	-0.002	10422018	2.50	2.53	
RPD = 0.90							

1 PCB-1016

1	3.195	3.193	0.002	3704299	50.0	51.5	
1	3.545	3.547	-0.002	7190201	50.0	52.5	
1	4.022	4.020	0.002	14526378	50.0	50.9	
1	4.162	4.163	-0.001	6675916	50.0	51.6	
1	4.618	4.620	-0.002	6564298	50.0	51.4	
Average of Peak Amounts =						51.6	
2	3.619	3.620	-0.001	7053543	50.0	50.2	
2	4.072	4.070	0.002	13679130	50.0	50.6	
2	4.212	4.214	-0.002	5886484	50.0	51.0	
2	4.445	4.444	0.001	3327251	50.0	51.7	
2	4.732	4.734	-0.002	4571082	50.0	50.9	
Average of Peak Amounts =						50.9	
RPD = 1.37							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081620.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.112	6.110	0.002	9911386	50.0	50.9	
1	6.848	6.847	0.001	17810078	50.0	51.1	
1	7.342	7.340	0.002	8506323	50.0	50.9	
1	7.778	7.777	0.001	20222696	50.0	51.2	
1	8.165	8.163	0.002	10511237	50.0	50.8	

Average of Peak Amounts = 51.0

2	6.582	6.580	0.002	10585540	50.0	50.3	
2	7.045	7.044	0.001	16234443	50.0	50.8	
2	7.572	7.570	0.002	7604224	50.0	51.2	
2	7.938	7.940	-0.002	16562215	50.0	50.9	
2	8.438	8.440	-0.002	12328783	50.0	51.0	

Average of Peak Amounts = 50.9

RPD = 0.26

\$ 15 DCB Decachlorobiphenyl

1	9.748	9.750	-0.002	10440662	2.50	2.55	
2	10.105	10.104	0.001	8507239	2.50	2.55	

RPD = 0.21

S 8 Polychlorinated biphenyls, Total

1						102.6	
2						101.7	

RPD = 0.81

Reagents:

AR_1660_L2_00025
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:58

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081620.D

Injection Date: 08-Oct-2016 18:31:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STDL21660

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

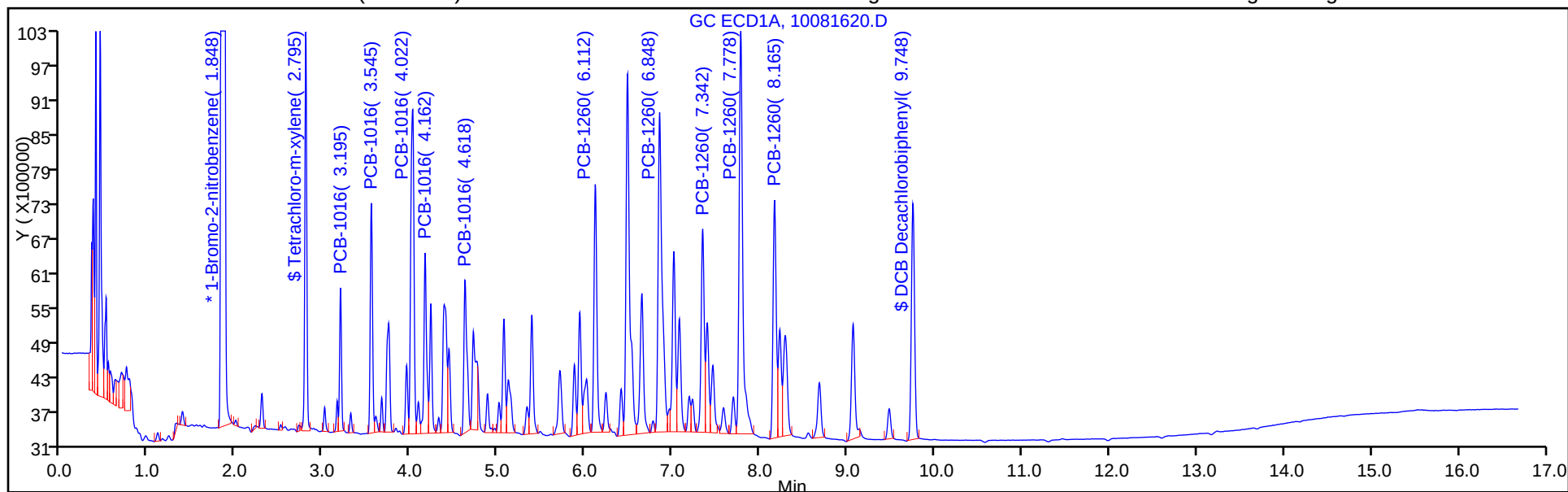
ALS Bottle#: 20

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

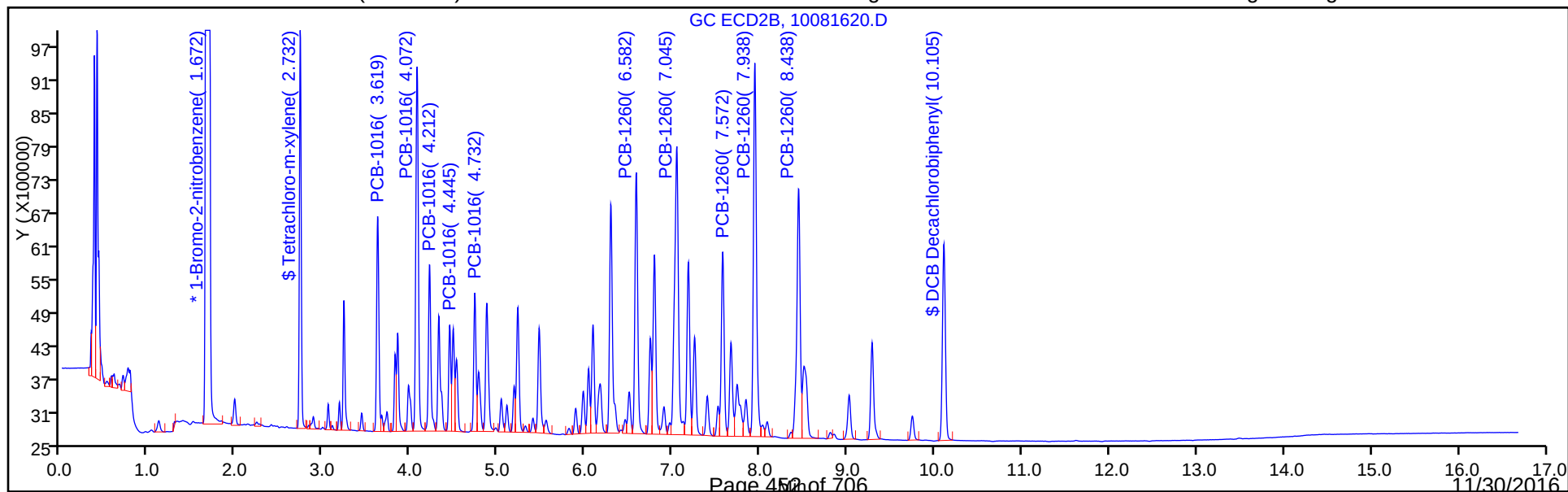
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081621.D
 Lims ID: STDL11660
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 18:52:58 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL11660
 Misc. Info.: 280-0051591-021
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:27:59 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.847	0.002	278525441	1000.0	1000.0	
2	1.676	1.674	0.002	265035398	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.796	2.797	-0.001	6025618	1.25	1.11	
2	2.733	2.734	-0.001	5743872	1.25	1.17	
RPD = 5.47							

1 PCB-1016

1	3.193	3.193	0.000	2068792	25.0	21.2	
1	3.546	3.547	-0.001	3911568	25.0	19.9	
1	4.019	4.020	-0.001	8150652	25.0	22.6	
1	4.163	4.163	0.000	3665410	25.0	21.6	
1	4.619	4.620	-0.001	3652312	25.0	22.6	
Average of Peak Amounts =						21.6	
2	3.619	3.620	-0.001	4180376	25.0	22.0	
2	4.073	4.070	0.003	7572879	25.0	22.3	
2	4.213	4.214	-0.001	3233906	25.0	22.3	
2	4.446	4.444	0.002	1833115	25.0	22.7	
2	4.733	4.734	-0.001	2580475	25.0	23.7	
Average of Peak Amounts =						22.6	
RPD = 4.75							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081621.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.113	6.110	0.003	5657078	25.0	23.1	
1	6.849	6.847	0.002	9924750	25.0	23.6	
1	7.343	7.340	0.003	4838426	25.0	24.8	
1	7.776	7.777	-0.001	11032629	25.0	20.9	
1	8.166	8.163	0.003	5794670	25.0	23.1	

Average of Peak Amounts = 23.1

2	6.583	6.580	0.003	5892668	25.0	22.6	
2	7.046	7.044	0.002	9070327	25.0	23.2	
2	7.573	7.570	0.003	4120910	25.0	22.8	
2	7.939	7.940	-0.001	8968208	25.0	23.0	
2	8.439	8.440	-0.001	6659442	25.0	23.3	

Average of Peak Amounts = 23.0

RPD = 0.46

\$ 15 DCB Decachlorobiphenyl

1	9.749	9.750	-0.001	5906808	1.25	1.13	
2	10.103	10.104	-0.001	4726924	1.25	1.15	

RPD = 1.63

S 8 Polychlorinated biphenyls, Total

1						44.6	
2						45.6	

RPD = 2.09

Reagents:

AR_1660_L1_00026
BNB IS_00008Amount Added: 1.00
Amount Added: 1.00Units: mL
Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:27:59

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081621.D

Injection Date: 08-Oct-2016 18:52:58

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD11660

Worklist Smp#: 21

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

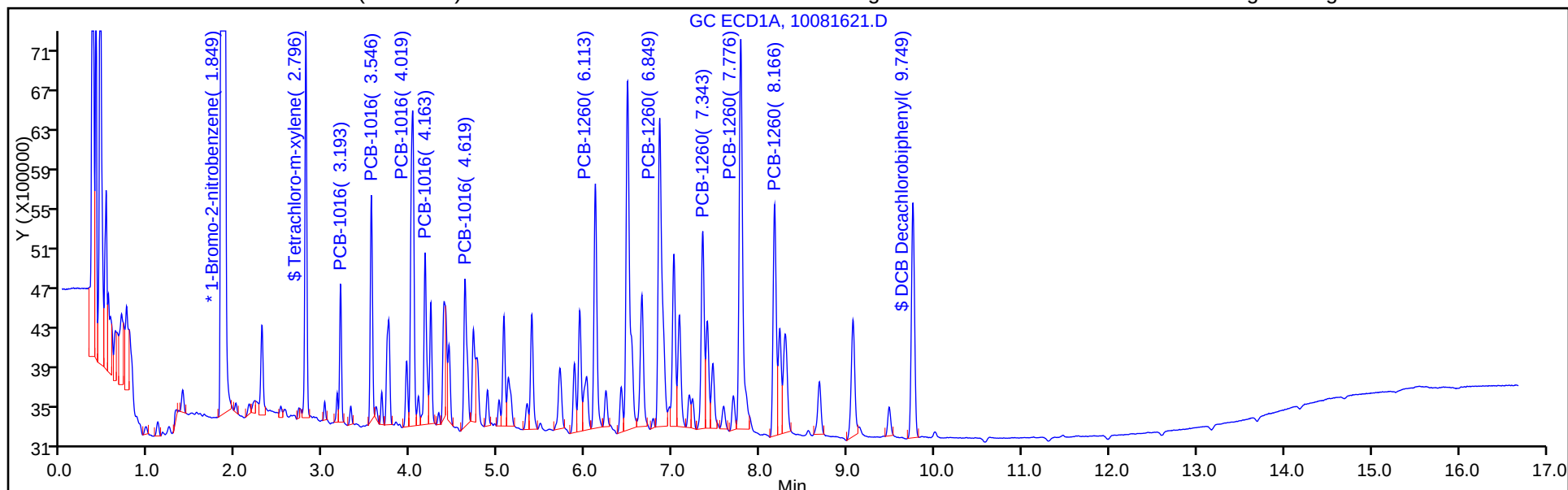
ALS Bottle#: 21

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

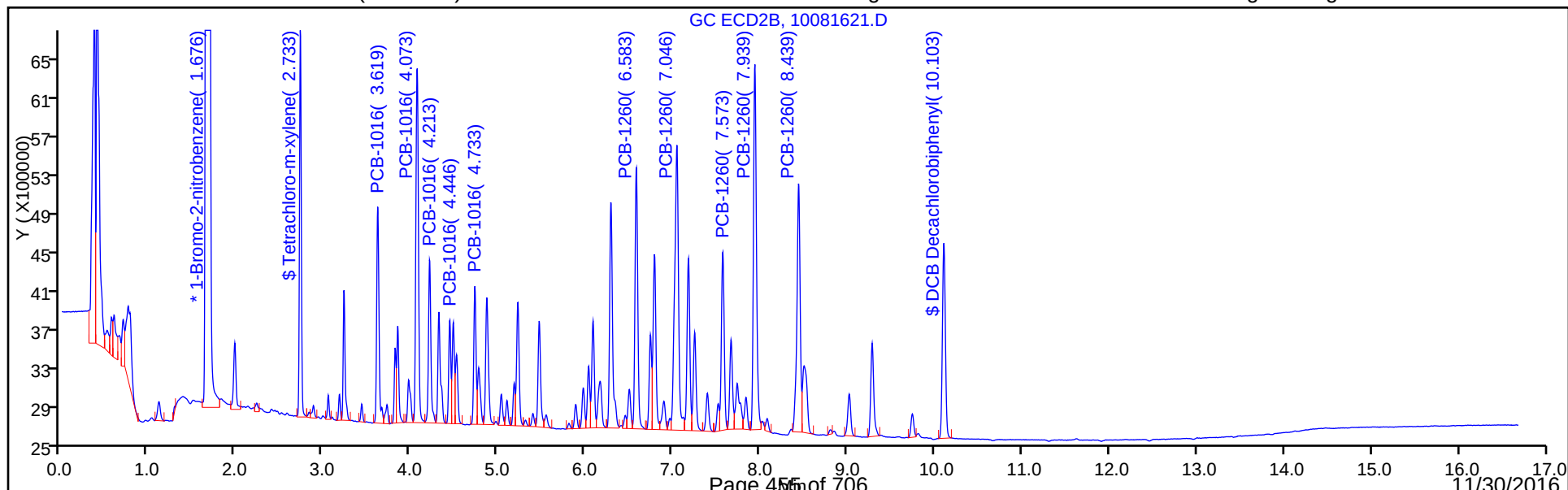
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 19:14 Calibration End Date: 10/08/2016 21:24 Calibration ID: 27251

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD13262 280-345281/28	10081628.D
Level 2	STD123262 280-345281/27	10081627.D
Level 3	STD133262 280-345281/26	10081626.D
Level 4	STD143262 280-345281/25	10081625.D
Level 5	STD153262 280-345281/24	10081624.D
Level 6	STD163262 280-345281/23	10081623.D
Level 7	STD173262 280-345281/22	10081622.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.4046 0.2472	0.3217 0.2391	0.2962	0.2680	0.2538	Lin1	4.4371	0.2404							0.9990		0.9900
PCB-1232 Peak 2	0.3165 0.2035	0.2688 0.1978	0.2394	0.2209	0.2079	Lin1	3.3784	0.1986							0.9990		0.9900
PCB-1232 Peak 3	0.6440 0.4386	0.5299 0.4288	0.4853	0.4551	0.4386	Lin1	5.4538	0.4276							1.0000		0.9900
PCB-1232 Peak 4	0.2883 0.1946	0.2394 0.1891	0.2186	0.2060	0.1961	Lin1	2.6083	0.1897							1.0000		0.9900
PCB-1232 Peak 5	0.2674 0.1803	0.2393 0.1793	0.2105	0.1885	0.1819	Lin1	2.6468	0.1771							1.0000		0.9900
PCB-1262 Peak 1	0.9077 0.6292	0.7244 0.6147	0.7033	0.6516	0.6246	Lin1	7.1706	0.6134							1.0000		0.9900
PCB-1262 Peak 2	1.1317 0.7963	0.9519 0.7822	0.8959	0.8376	0.7874	Lin1	9.3640	0.7785							1.0000		0.9900
PCB-1262 Peak 3	1.0762 0.7441	0.8568 0.7285	0.8308	0.7705	0.7442	Lin1	8.4447	0.7271							1.0000		0.9900
PCB-1262 Peak 4	2.2673 1.4885	1.8610 1.4592	1.7755	1.6607	1.4809	Lin1	22.874	1.4573							0.9990		0.9900
PCB-1262 Peak 5	0.7330 0.5363	0.6043 0.5241	0.5776	0.5371	0.5305	Lin1	4.9196	0.5225							1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 19:14 Calibration End Date: 10/08/2016 21:24 Calibration ID: 27251

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD113262 280-345281/28	10081628.D
Level 2	STD123262 280-345281/27	10081627.D
Level 3	STD133262 280-345281/26	10081626.D
Level 4	STD143262 280-345281/25	10081625.D
Level 5	STD153262 280-345281/24	10081624.D
Level 6	STD163262 280-345281/23	10081623.D
Level 7	STD173262 280-345281/22	10081622.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin1	2817230 50324255	4514804 63604910	8357089	18817472	35069974	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 2	BNB	Lin1	2203842 41425367	3772596 52630720	6756348	15511590	28729661	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 3	BNB	Lin1	4484149 89308038	7437738 114075819	13694115	31954033	60614935	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 4	BNB	Lin1	2007425 39632997	3360132 50309848	6168038	14467012	27096754	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 5	BNB	Lin1	1861828 36721446	3357952 47696216	5939777	13236440	25138078	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 1	BNB	Lin1	6320811 128107508	10166496 163520103	19843913	45752046	86330587	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 2	BNB	Lin1	7880525 162130160	13359442 208094891	25279589	58809961	108828491	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 3	BNB	Lin1	7494329 151502950	12025270 193794788	23443670	54103020	102847278	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 4	BNB	Lin1	15788378 303086439	26119552 388183198	50098554	116605749	204663838	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 5	BNB	Lin1	5104184 109206733	8481202 139415636	16299092	37715896	73320764	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081622.D
 Lims ID: STDL73262
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 19:14:36 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL73262
 Misc. Info.: 280-0051591-022
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:00 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.847	0.002	266024286	1000.0	1000.0	
2	1.672	1.674	-0.002	253550306	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.192	3.193	-0.001	63604910	1000.0	976.1	
1	3.546	3.547	-0.001	52630720	1000.0	979.2	
1	4.019	4.020	-0.001	114075819	1000.0	990.1	
1	4.162	4.163	-0.001	50309848	1000.0	983.2	
1	4.619	4.620	-0.001	47696216	1000.0	997.3	
Average of Peak Amounts =						985.2	
2	3.232	3.234	-0.002	62711924	1000.0	974.4	
2	3.619	3.620	-0.001	56169557	1000.0	982.8	
2	4.072	4.070	0.002	109559652	1000.0	990.3	
2	4.212	4.214	-0.002	46915910	1000.0	999.9	
2	4.869	4.870	-0.001	39545717	1000.0	1029.1	
Average of Peak Amounts =						995.3	
						RPD = 1.02	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081622.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.479	6.480	-0.001	163520103	1000.0	990.4	
1	7.009	7.010	-0.001	208094891	1000.0	992.8	
1	7.339	7.340	-0.001	193794788	1000.0	990.3	
1	7.776	7.777	-0.001	388183198	1000.0	985.6	
1	8.162	8.163	-0.001	139415636	1000.0	993.6	

Average of Peak Amounts = 990.5

2	6.579	6.580	-0.001	131773087	1000.0	991.2	
2	7.176	7.177	-0.001	183994504	1000.0	988.3	
2	7.572	7.570	0.002	177348389	1000.0	991.0	
2	7.939	7.937	0.002	337510692	1000.0	989.7	
2	8.439	8.437	0.002	246596790	1000.0	989.0	

Average of Peak Amounts = 989.9

RPD = 0.07

S 8 Polychlorinated biphenyls, Total

1	1975.7
2	1985.1

RPD = 0.48

Reagents:

AR_3262_L7_00012

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:01

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081622.D

Injection Date: 08-Oct-2016 19:14:36

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD L73262

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

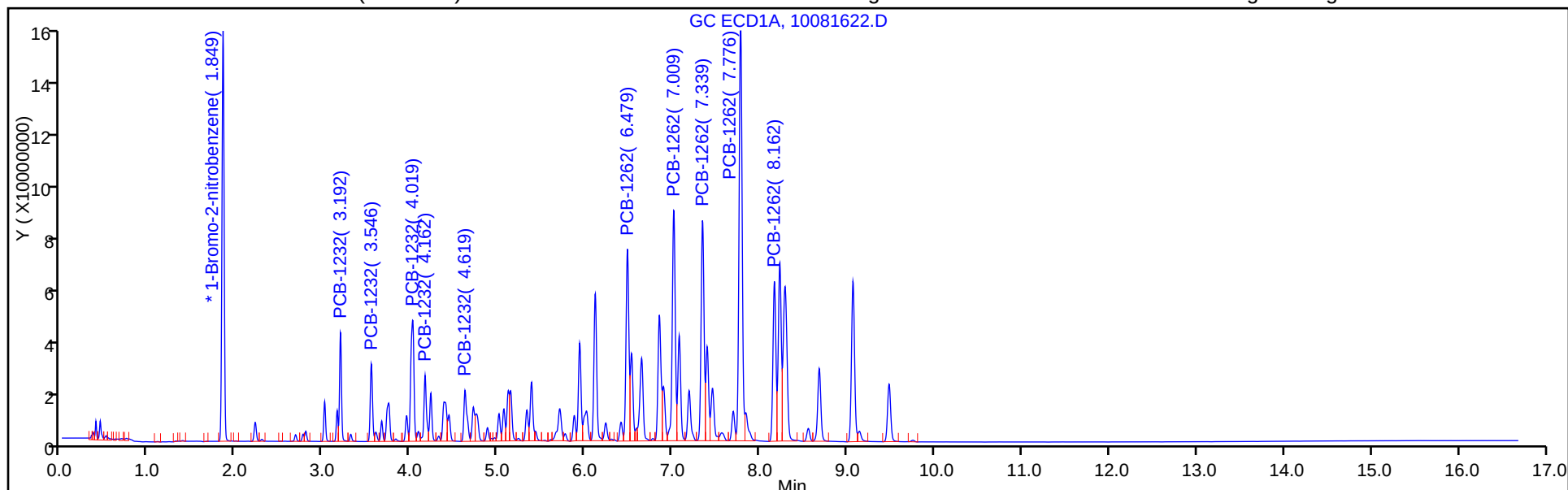
ALS Bottle#: 22

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

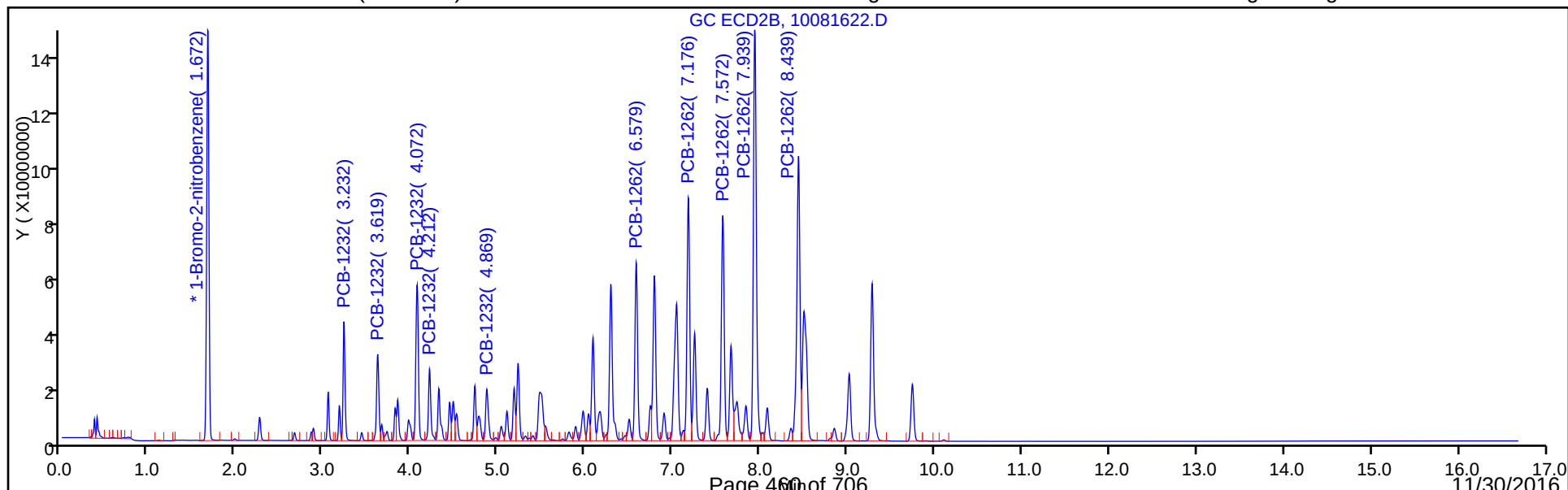
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081623.D
 Lims ID: STDL63262
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 19:36:16 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL63262
 Misc. Info.: 280-0051591-023
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:03 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.847	0.003	271484452	1000.0	1000.0	
2	1.673	1.674	-0.001	259541500	1000.0	1000.0	
RPD = 0.00							

7 PCB-1232

1	3.193	3.193	0.000	50324255	750.0	752.6	
1	3.546	3.547	-0.001	41425367	750.0	751.3	
1	4.020	4.020	0.000	89308038	750.0	756.6	
1	4.163	4.163	0.000	39632997	750.0	755.9	
1	4.620	4.620	0.000	36721446	750.0	748.7	
Average of Peak Amounts =						753.0	
2	3.233	3.234	-0.001	49994012	750.0	754.7	
2	3.620	3.620	0.000	44389994	750.0	755.5	
2	4.073	4.070	0.003	85847101	750.0	755.5	
2	4.213	4.214	-0.001	36033014	750.0	747.5	
2	4.870	4.870	0.000	28828115	750.0	730.6	
Average of Peak Amounts =						748.8	
RPD = 0.57							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081623.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.480	6.480	0.000	128107508	750.0	757.6	
1	7.010	7.010	0.000	162130160	750.0	755.1	
1	7.340	7.340	0.000	151502950	750.0	755.9	
1	7.776	7.777	-0.001	303086439	750.0	750.4	
1	8.163	8.163	0.000	109206733	750.0	760.4	

Average of Peak Amounts = 755.9

2	6.580	6.580	0.000	103314405	750.0	756.9	
2	7.176	7.177	-0.001	144573517	750.0	756.1	
2	7.570	7.570	0.000	138823800	750.0	755.4	
2	7.936	7.937	-0.001	264231749	750.0	754.4	
2	8.436	8.437	-0.001	193468130	750.0	755.7	

Average of Peak Amounts = 755.7

RPD = 0.03

S 8 Polychlorinated biphenyls, Total

1	1508.9
2	1504.4

RPD = 0.30

Reagents:

AR_3262_L6_00014

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:03

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081623.D

Injection Date: 08-Oct-2016 19:36:16

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD163262

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

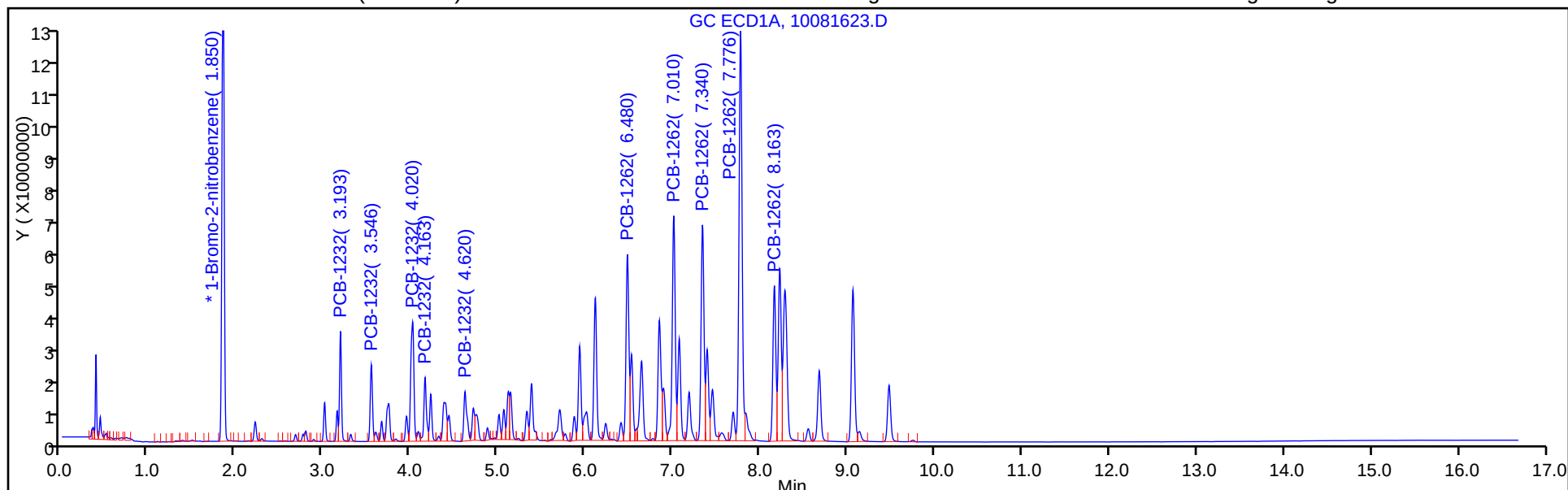
ALS Bottle#: 23

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

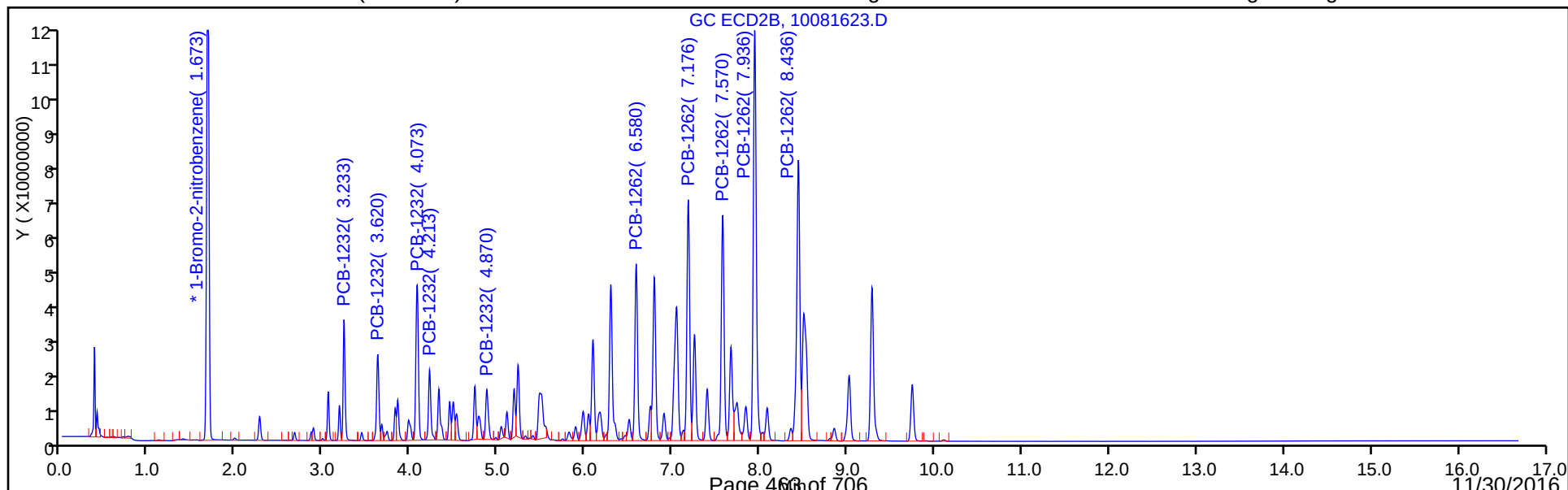
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081624.D
 Lims ID: STDL53262
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 19:57:56 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL53262
 Misc. Info.: 280-0051591-024
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:05 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:00:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.850	0.000	276413561	1000.0	1000.0	
2	1.674	1.674	0.000	263376155	1000.0	1000.0	
						RPD = 0.00	

7 PCB-1232

1	3.193	3.193	0.000	35069974	500.0	509.3	
1	3.547	3.547	0.000	28729661	500.0	506.3	
1	4.020	4.020	0.000	60614935	500.0	500.1	
1	4.163	4.163	0.000	27096754	500.0	503.0	
1	4.620	4.620	0.000	25138078	500.0	498.5	
Average of Peak Amounts =						503.5	
2	3.234	3.234	0.000	34576978	500.0	508.4	
2	3.620	3.620	0.000	30253218	500.0	502.6	
2	4.070	4.070	0.000	58228070	500.0	501.4	
2	4.214	4.214	0.000	24493576	500.0	497.1	
2	4.870	4.870	0.000	19428897	500.0	482.6	
Average of Peak Amounts =						498.4	
						RPD = 1.01	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081624.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.480	6.480	0.000	86330587	500.0	497.5	
1	7.010	7.010	0.000	108828491	500.0	493.7	
1	7.340	7.340	0.000	102847278	500.0	500.1	
1	7.777	7.777	0.000	204663838	500.0	492.4	
1	8.163	8.163	0.000	73320764	500.0	498.2	

Average of Peak Amounts = 496.4

2	6.580	6.580	0.000	69764477	500.0	500.3	
2	7.177	7.177	0.000	97929532	500.0	501.0	
2	7.570	7.570	0.000	93951034	500.0	500.4	
2	7.937	7.937	0.000	179206887	500.0	500.7	
2	8.437	8.437	0.000	130995925	500.0	500.8	

Average of Peak Amounts = 500.6

RPD = 0.85

Reagents:

AR_3262_L5_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:05

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081624.D

Injection Date: 08-Oct-2016 19:57:56

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD153262

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

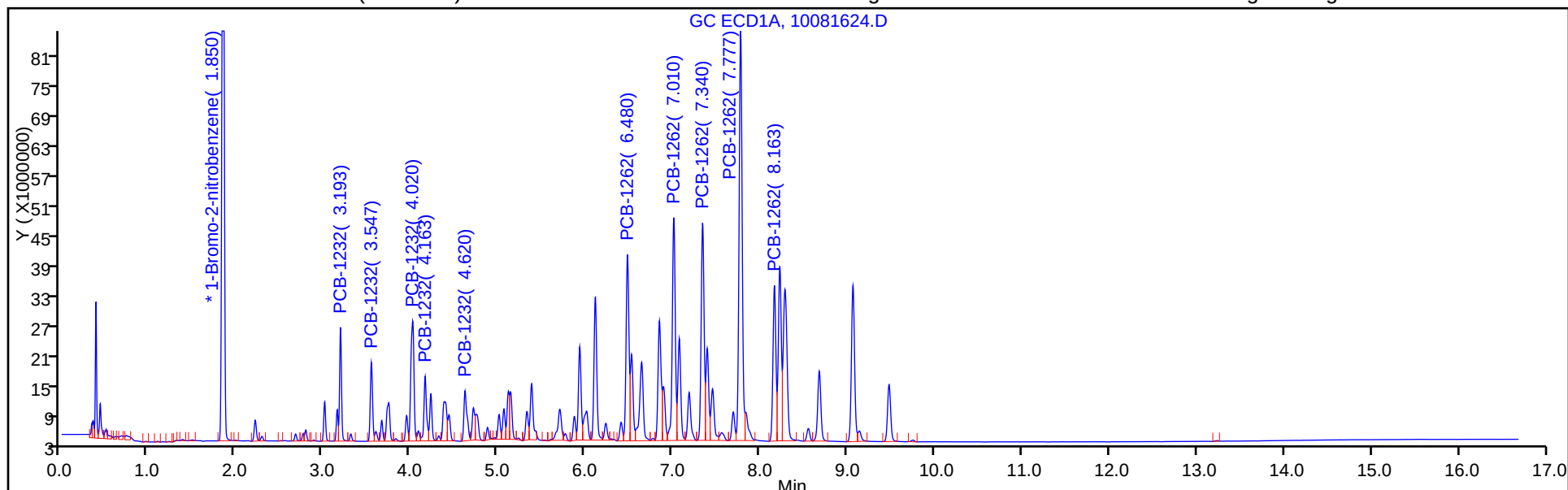
ALS Bottle#: 24

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

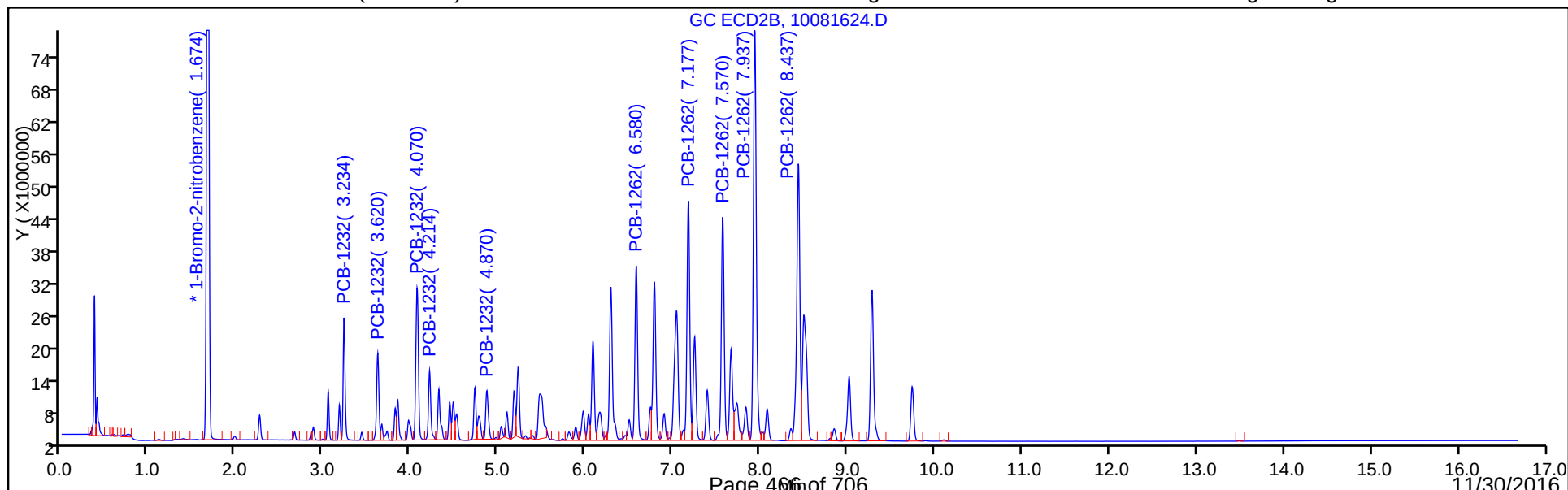
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081625.D
 Lims ID: STDL43262
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 20:19:37 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL43262
 Misc. Info.: 280-0051591-025
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:06 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.847	1.850	-0.003	280860640	1000.0	1000.0	
2	1.674	1.674	0.000	267575496	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.194	3.193	0.001	18817472	250.0	260.2	
1	3.547	3.547	0.000	15511590	250.0	261.1	
1	4.021	4.020	0.001	31954033	250.0	253.3	
1	4.164	4.163	0.001	14467012	250.0	257.8	
1	4.621	4.620	0.001	13236440	250.0	251.1	

Average of Peak Amounts = 256.7

2	3.234	3.234	0.000	18635454	250.0	260.9	
2	3.621	3.620	0.001	16170888	250.0	257.6	
2	4.071	4.070	0.001	30501851	250.0	253.3	
2	4.214	4.214	0.000	13065214	250.0	255.7	
2	4.871	4.870	0.001	10684806	250.0	257.7	

Average of Peak Amounts = 257.0

RPD = 0.13

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081625.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.481	6.480	0.001	45752046	250.0	253.9	
1	7.011	7.010	0.001	58809961	250.0	256.9	
1	7.341	7.340	0.001	54103020	250.0	253.3	
1	7.777	7.777	0.000	116605749	250.0	269.2	
1	8.164	8.163	0.001	37715896	250.0	247.6	

Average of Peak Amounts = 256.2

2	6.581	6.580	0.001	36276494	250.0	251.2	
2	7.178	7.177	0.001	51540669	250.0	254.2	
2	7.571	7.570	0.001	49193016	250.0	252.9	
2	7.938	7.937	0.001	94416115	250.0	254.6	
2	8.438	8.437	0.001	68940286	250.0	254.5	

Average of Peak Amounts = 253.5

RPD = 1.06

S 8 Polychlorinated biphenyls, Total

1	512.9	
2	510.5	

RPD = 0.46

Reagents:

AR_3262_L4_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:07

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081625.D

Injection Date: 08-Oct-2016 20:19:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD43262

Worklist Smp#: 25

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

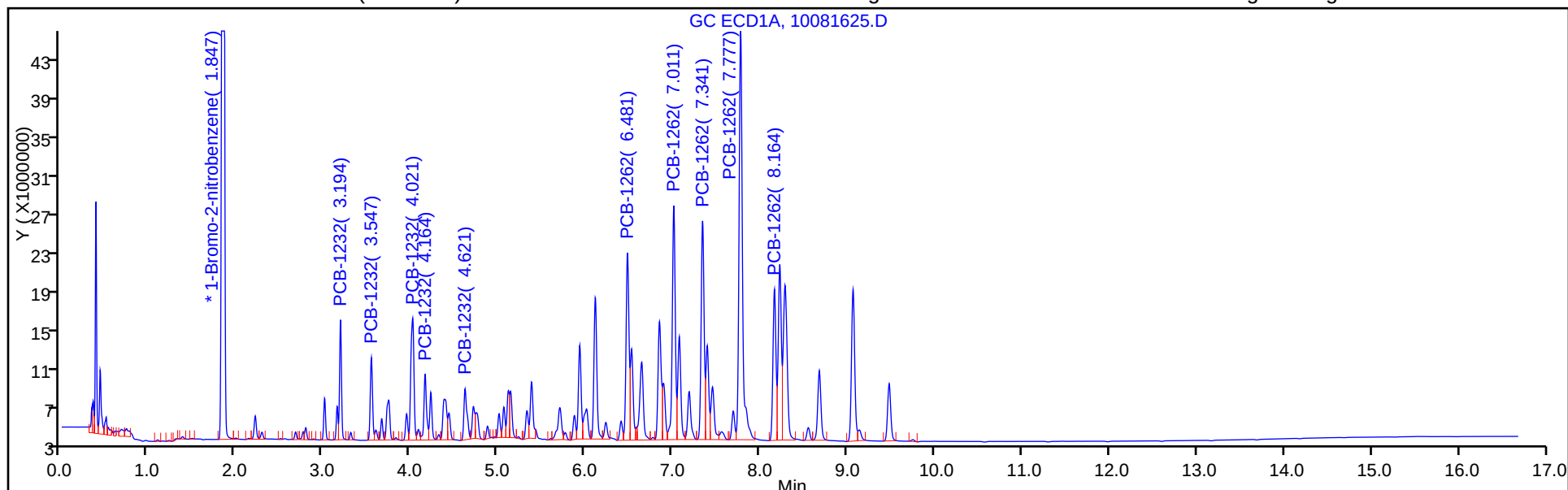
ALS Bottle#: 25

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

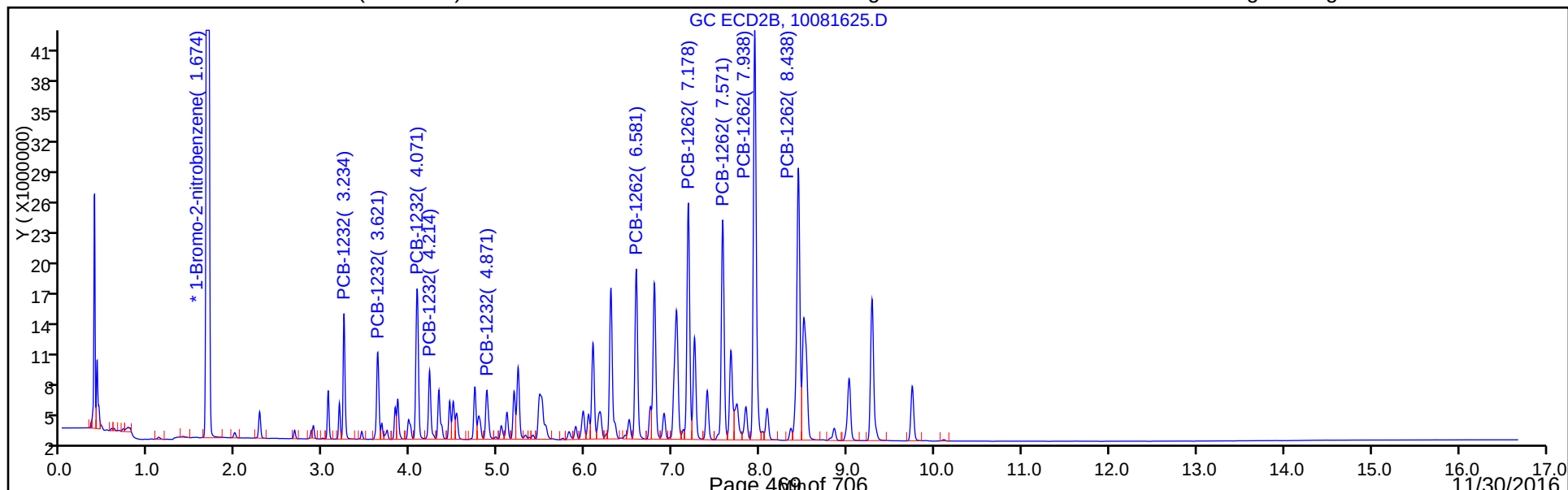
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081626.D
 Lims ID: STDL33262
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 20:41:17 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL33262
 Misc. Info.: 280-0051591-026
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:08 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.850	-0.002	282170429	1000.0	1000.0
2	1.675	1.674	0.001	269585509	1000.0	1000.0

RPD = 0.00

7 PCB-1232

1	3.195	3.193	0.002	8357089	100.0	104.7
1	3.548	3.547	0.001	6756348	100.0	103.6
1	4.021	4.020	0.001	13694115	100.0	100.7
1	4.161	4.163	-0.002	6168038	100.0	101.5
1	4.621	4.620	0.001	5939777	100.0	103.9

Average of Peak Amounts = 102.9

2	3.235	3.234	0.001	8224909	100.0	103.7
2	3.618	3.620	-0.002	7029479	100.0	103.0
2	4.071	4.070	0.001	12972497	100.0	100.7
2	4.215	4.214	0.001	5518782	100.0	100.8
2	4.868	4.870	-0.002	4382387	100.0	100.3

Average of Peak Amounts = 101.7

RPD = 1.16

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081626.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.481	6.480	0.001	19843913	100.0	103.0	
1	7.011	7.010	0.001	25279589	100.0	103.1	
1	7.341	7.340	0.001	23443670	100.0	102.7	
1	7.778	7.777	0.001	50098554	100.0	106.1	
1	8.165	8.163	0.002	16299092	100.0	101.1	

Average of Peak Amounts = 103.2

2	6.581	6.580	0.001	15557155	100.0	101.2	
2	7.178	7.177	0.001	22102495	100.0	101.8	
2	7.571	7.570	0.001	21028236	100.0	101.4	
2	7.938	7.937	0.001	40221570	100.0	101.5	
2	8.438	8.437	0.001	29394619	100.0	101.8	

Average of Peak Amounts = 101.6

RPD = 1.59

S 8 Polychlorinated biphenyls, Total

1	206.1	
2	203.3	

RPD = 1.38

Reagents:

AR_3262_L3_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:09

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081626.D

Injection Date: 08-Oct-2016 20:41:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD133262

Worklist Smp#: 26

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

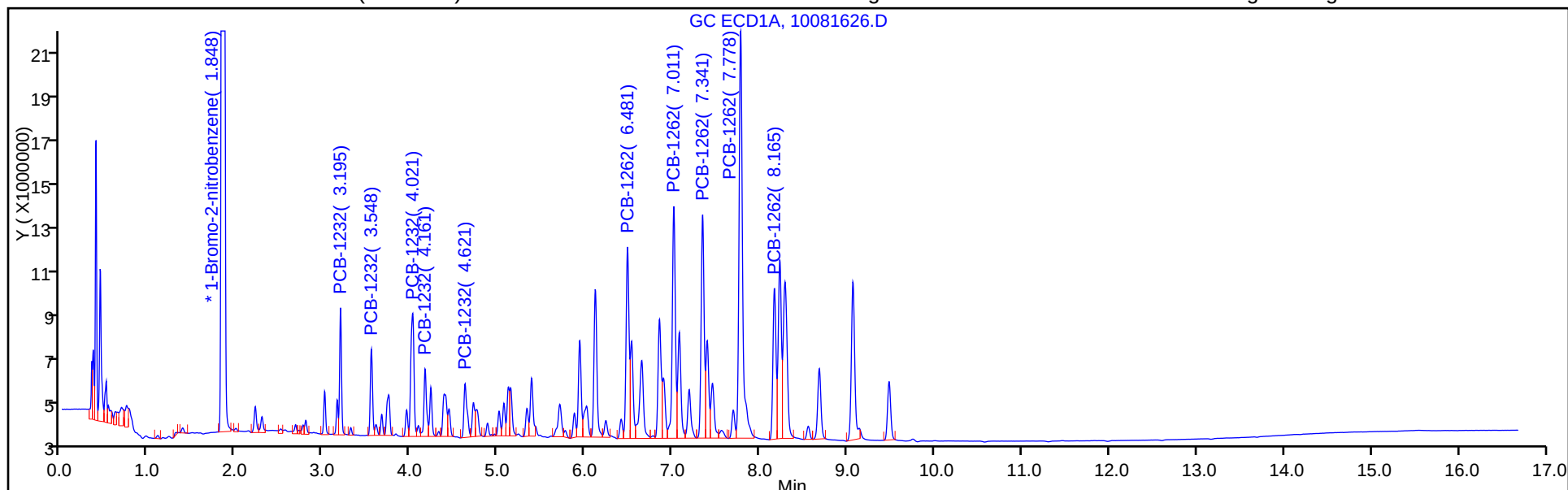
ALS Bottle#: 26

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

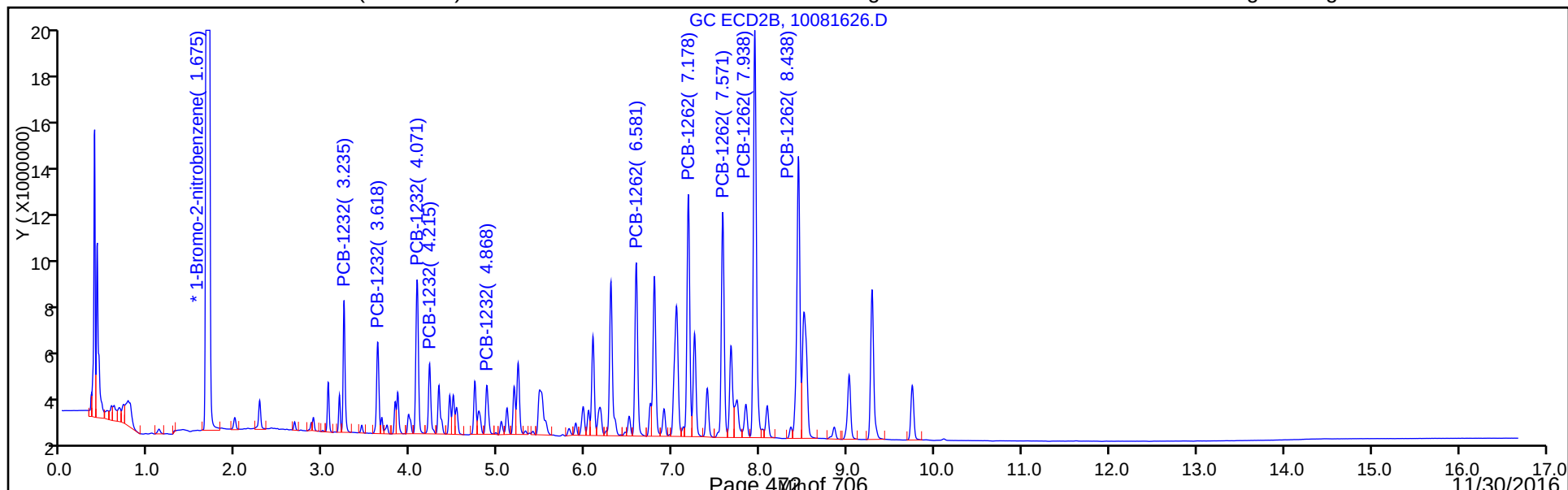
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D
 Lims ID: STDL23262
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 21:02:56 ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL23262
 Misc. Info.: 280-0051591-027
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:10 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:14:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.850	-0.002	280699303	1000.0	1000.0	
2	1.675	1.674	0.001	266339539	1000.0	1000.0	
RPD = 0.00							

7 PCB-1232

1	3.195	3.193	0.002	4514804	50.0	48.4	M
1	3.545	3.547	-0.002	3772596	50.0	50.7	
1	4.018	4.020	-0.002	7437738	50.0	49.2	M
1	4.162	4.163	-0.001	3360132	50.0	49.4	M
1	4.618	4.620	-0.002	3357952	50.0	52.6	M
Average of Peak Amounts =						50.1	
2	3.235	3.234	0.001	4540833	50.0	49.7	
2	3.619	3.620	-0.001	3798355	50.0	49.8	
2	4.072	4.070	0.002	6833016	50.0	48.6	
2	4.215	4.214	0.001	2935109	50.0	49.2	
2	4.869	4.870	-0.001	2297380	50.0	49.5	
Average of Peak Amounts =						49.4	
RPD = 1.38							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.482	6.480	0.002	10166496	50.0	47.4	
1	7.012	7.010	0.002	13359442	50.0	49.1	
1	7.342	7.340	0.002	12025270	50.0	47.3	
1	7.775	7.777	-0.002	26119552	50.0	48.2	
1	8.165	8.163	0.002	8481202	50.0	48.4	

Average of Peak Amounts = 48.1

2	6.582	6.580	0.002	8212292	50.0	49.4	
2	7.179	7.177	0.002	11598442	50.0	48.9	
2	7.572	7.570	0.002	11028381	50.0	49.1	
2	7.939	7.937	0.002	21317934	50.0	49.6	
2	8.439	8.437	0.002	15107803	50.0	48.1	

Average of Peak Amounts = 49.0

RPD = 1.91

S 8 Polychlorinated biphenyls, Total

1						98.1	
2						98.4	

RPD = 0.25

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_3262_L2_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:10

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D

Injection Date: 08-Oct-2016 21:02:56

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD123262

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

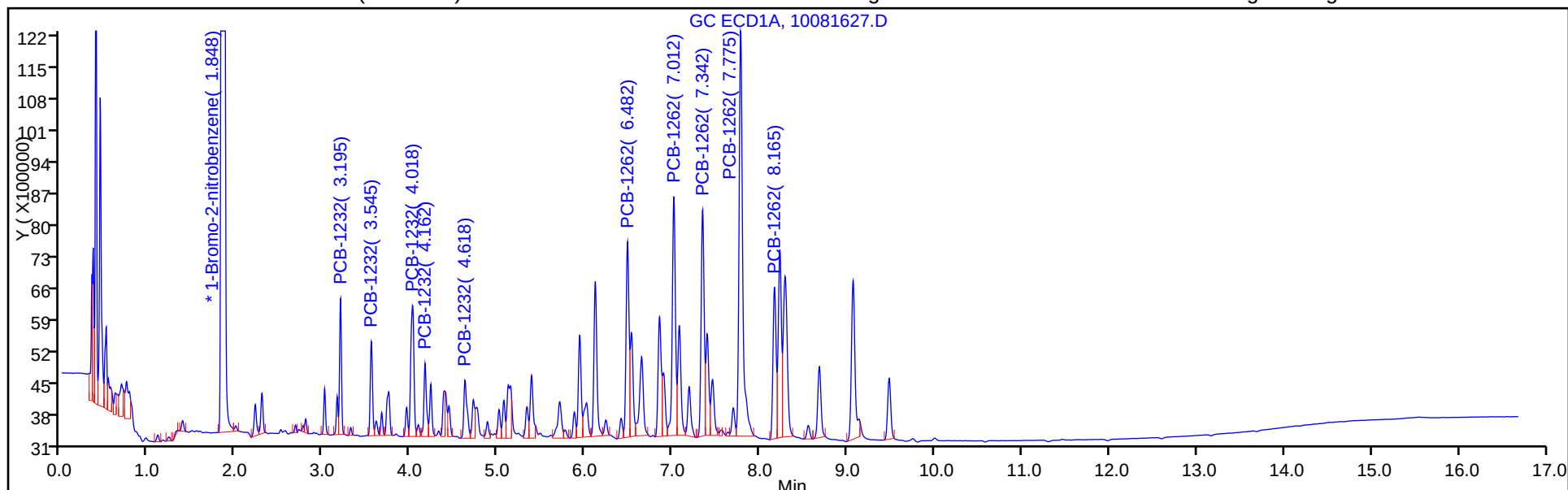
ALS Bottle#: 27

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

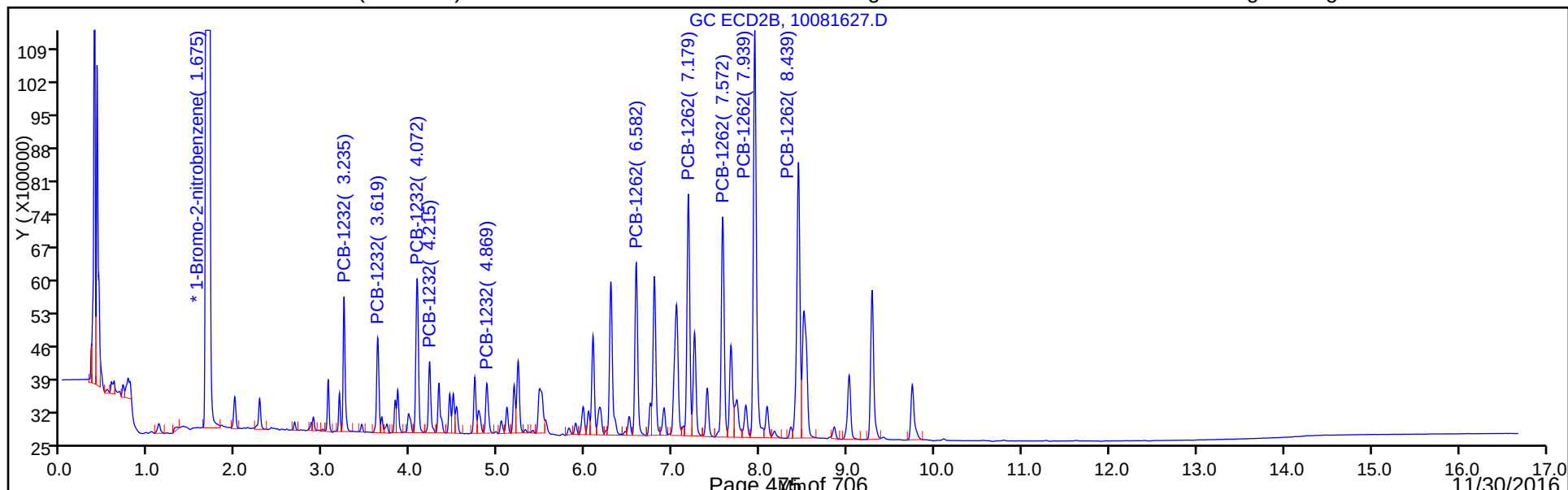
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D

Injection Date: 08-Oct-2016 21:02:56

Instrument ID: SGC_P3

Lims ID: STD L23262

Client ID:

Operator ID: jax

ALS Bottle#: 27

Worklist Smp#: 27

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCB_P3

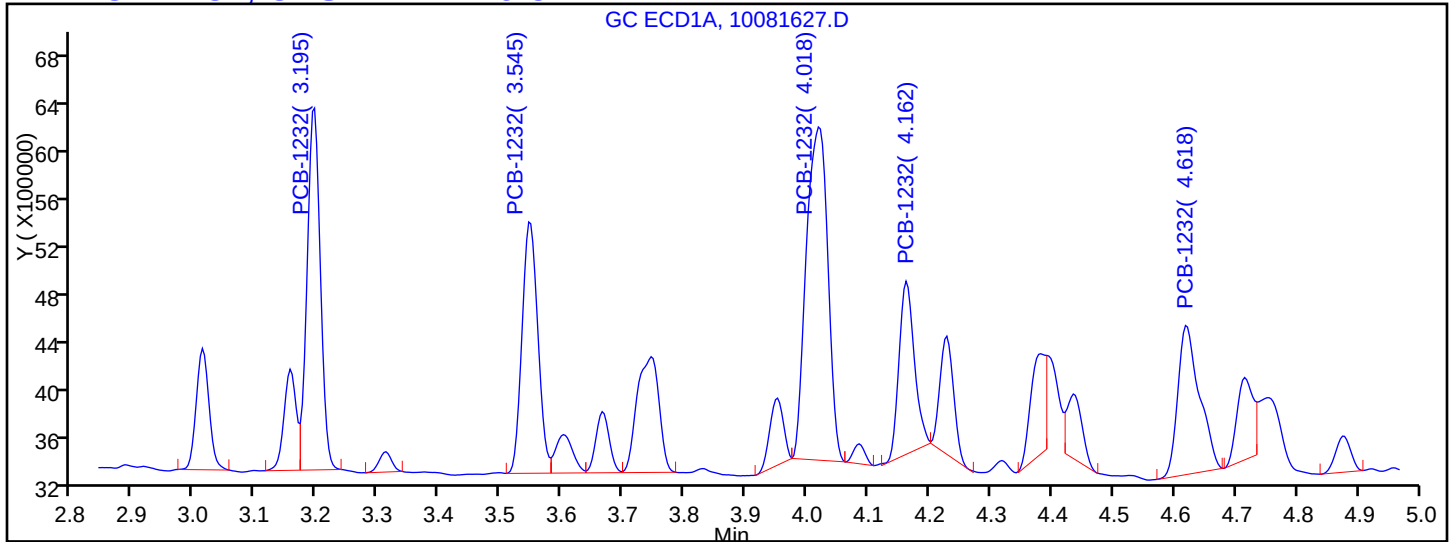
Limit Group: GCSV - 8082 - IS

Column: CLP1 Pesticides Column 1 (0.32 mm)

Detector

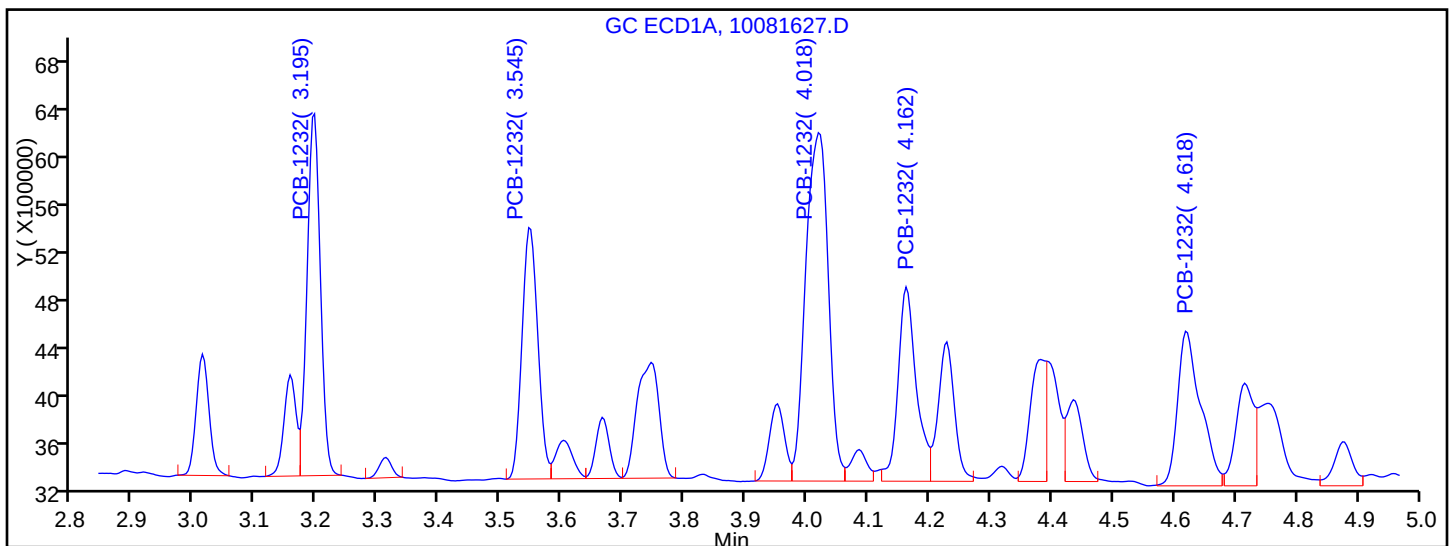
GC ECD1A

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

3.195	Response = 4514804
3.545	Response = 3772596
4.018	Response = 6779855
4.162	Response = 2516913
4.618	Response = 3031507



Manual Integration Results

3.195	Response = 4514804	
3.545	Response = 3772596	
4.018	Response = 7437738	M
4.162	Response = 3360132	M
4.618	Response = 3357952	M

Reviewer: jacksonto, 09-Oct-2016 09:14:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 476 of 706

11/30/2016

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081628.D
 Lims ID: STDL13262
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 21:24:36 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL13262
 Misc. Info.: 280-0051591-028
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:12 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.850	-0.001	278535625	1000.0	1000.0	
2	1.673	1.674	-0.001	264943055	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.193	3.193	0.000	2817230	25.0	23.6	
1	3.546	3.547	-0.001	2203842	25.0	22.8	
1	4.019	4.020	-0.001	4484149	25.0	24.9	
1	4.163	4.163	0.000	2007425	25.0	24.2	
1	4.619	4.620	-0.001	1861828	25.0	22.8	

Average of Peak Amounts = 23.7

2	3.233	3.234	-0.001	2769710	25.0	23.2	
2	3.619	3.620	-0.001	2242846	25.0	23.7	
2	4.073	4.070	0.003	4112077	25.0	25.2	
2	4.213	4.214	-0.001	1739493	25.0	24.9	
2	4.869	4.870	-0.001	1314864	25.0	25.2	

Average of Peak Amounts = 24.4

RPD = 3.11

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081628.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.483	6.480	0.003	6320811	25.0	25.3	
1	7.013	7.010	0.003	7880525	25.0	24.3	
1	7.339	7.340	-0.001	7494329	25.0	25.4	
1	7.776	7.777	-0.001	15788378	25.0	23.2	
1	8.163	8.163	0.000	5104184	25.0	25.7	

Average of Peak Amounts = 24.8

2	6.579	6.580	-0.001	4798307	25.0	24.9	
2	7.176	7.177	-0.001	6890855	25.0	24.7	
2	7.569	7.570	-0.001	6486857	25.0	24.8	
2	7.939	7.937	0.002	12346872	25.0	24.4	
2	8.439	8.437	0.002	9110551	25.0	25.1	

Average of Peak Amounts = 24.8

RPD = 0.11

S 8 Polychlorinated biphenyls, Total

1						48.4	
2						49.2	

RPD = 1.58

Reagents:

AR_3262_L1_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Chrom Revision: 2.2 08-Sep-2016 14:45:52

Data File: \\ChromNA\Denver\ChromData\SGC P3\20161006-51591.b\10081628.D

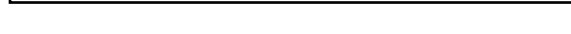
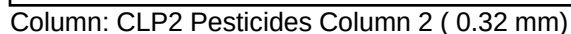
Operator ID: jax

Worklist Smp#: 28

ALS Bottle#: 28

Limit Group: GCSV - 8082 - IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 19:14 Calibration End Date: 10/08/2016 21:24 Calibration ID: 27252

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD13262 280-345281/28	10081628.D
Level 2	STD123262 280-345281/27	10081627.D
Level 3	STD133262 280-345281/26	10081626.D
Level 4	STD143262 280-345281/25	10081625.D
Level 5	STD153262 280-345281/24	10081624.D
Level 6	STD163262 280-345281/23	10081623.D
Level 7	STD173262 280-345281/22	10081622.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.4182 0.2568	0.3410 0.2473	0.3051	0.2786	0.2626	Lin1	4.6763	0.2490							0.9990		0.9900
PCB-1232 Peak 2	0.3386 0.2280	0.2852 0.2215	0.2608	0.2417	0.2297	Lin1	3.1980	0.2222							1.0000		0.9900
PCB-1232 Peak 3	0.6208 0.4410	0.5131 0.4321	0.4812	0.4560	0.4422	Lin1	4.6588	0.4316							1.0000		0.9900
PCB-1232 Peak 4	0.2626 0.1851	0.2204 0.1850	0.2047	0.1953	0.1860	Lin1	2.0155	0.1830							1.0000		0.9900
PCB-1232 Peak 5	0.1985 0.1481	0.1725 0.1560	0.1626	0.1597	0.1475	Lin1	1.1745	0.1504							0.9990		0.9900
PCB-1262 Peak 1	0.7244 0.5308	0.6167 0.5197	0.5771	0.5423	0.5298	Lin1	5.1993	0.5191							1.0000		0.9900
PCB-1262 Peak 2	1.0404 0.7427	0.8710 0.7257	0.8199	0.7705	0.7436	Lin1	8.0556	0.7261							1.0000		0.9900
PCB-1262 Peak 3	0.9794 0.7132	0.8281 0.6995	0.7800	0.7354	0.7134	Lin1	7.1286	0.6987							1.0000		0.9900
PCB-1262 Peak 4	1.8641 1.3574	1.6008 1.3311	1.4920	1.4114	1.3608	Lin1	14.071	1.3308							1.0000		0.9900
PCB-1262 Peak 5	1.3755 0.9939	1.1345 0.9726	1.0904	1.0306	0.9947	Lin1	9.9461	0.9733							1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 19:14 Calibration End Date: 10/08/2016 21:24 Calibration ID: 27252

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD113262 280-345281/28	10081628.D
Level 2	STD123262 280-345281/27	10081627.D
Level 3	STD133262 280-345281/26	10081626.D
Level 4	STD143262 280-345281/25	10081625.D
Level 5	STD153262 280-345281/24	10081624.D
Level 6	STD163262 280-345281/23	10081623.D
Level 7	STD173262 280-345281/22	10081622.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin1	2769710 49994012	4540833 62711924	8224909	18635454	34576978	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 2	BNB	Lin1	2242846 44389994	3798355 56169557	7029479	16170888	30253218	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 3	BNB	Lin1	4112077 85847101	6833016 109559652	12972497	30501851	58228070	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 4	BNB	Lin1	1739493 36033014	2935109 46915910	5518782	13065214	24493576	25.0 750	50.0 1000	100	250	500
PCB-1232 Peak 5	BNB	Lin1	1314864 28828115	2297380 39545717	4382387	10684806	19428897	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 1	BNB	Lin1	4798307 103314405	8212292 131773087	15557155	36276494	69764477	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 2	BNB	Lin1	6890855 144573517	11598442 183994504	22102495	51540669	97929532	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 3	BNB	Lin1	6486857 138823800	11028381 177348389	21028236	49193016	93951034	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 4	BNB	Lin1	12346872 264231749	21317934 337510692	40221570	94416115	179206887	25.0 750	50.0 1000	100	250	500
PCB-1262 Peak 5	BNB	Lin1	9110551 193468130	15107803 246596790	29394619	68940286	130995925	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081622.D
 Lims ID: STDL73262
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 19:14:36 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL73262
 Misc. Info.: 280-0051591-022
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:00 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.847	0.002	266024286	1000.0	1000.0
2	1.672	1.674	-0.002	253550306	1000.0	1000.0

RPD = 0.00

7 PCB-1232

1	3.192	3.193	-0.001	63604910	1000.0	976.1
1	3.546	3.547	-0.001	52630720	1000.0	979.2
1	4.019	4.020	-0.001	114075819	1000.0	990.1
1	4.162	4.163	-0.001	50309848	1000.0	983.2
1	4.619	4.620	-0.001	47696216	1000.0	997.3

Average of Peak Amounts = 985.2

2	3.232	3.234	-0.002	62711924	1000.0	974.4
2	3.619	3.620	-0.001	56169557	1000.0	982.8
2	4.072	4.070	0.002	109559652	1000.0	990.3
2	4.212	4.214	-0.002	46915910	1000.0	999.9
2	4.869	4.870	-0.001	39545717	1000.0	1029.1

Average of Peak Amounts = 995.3

RPD = 1.02

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081622.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.479	6.480	-0.001	163520103	1000.0	990.4	
1	7.009	7.010	-0.001	208094891	1000.0	992.8	
1	7.339	7.340	-0.001	193794788	1000.0	990.3	
1	7.776	7.777	-0.001	388183198	1000.0	985.6	
1	8.162	8.163	-0.001	139415636	1000.0	993.6	

Average of Peak Amounts = 990.5

2	6.579	6.580	-0.001	131773087	1000.0	991.2	
2	7.176	7.177	-0.001	183994504	1000.0	988.3	
2	7.572	7.570	0.002	177348389	1000.0	991.0	
2	7.939	7.937	0.002	337510692	1000.0	989.7	
2	8.439	8.437	0.002	246596790	1000.0	989.0	

Average of Peak Amounts = 989.9

RPD = 0.07

S 8 Polychlorinated biphenyls, Total

1	1975.7
2	1985.1

RPD = 0.48

Reagents:

AR_3262_L7_00012

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:01

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081622.D

Injection Date: 08-Oct-2016 19:14:36

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD173262

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

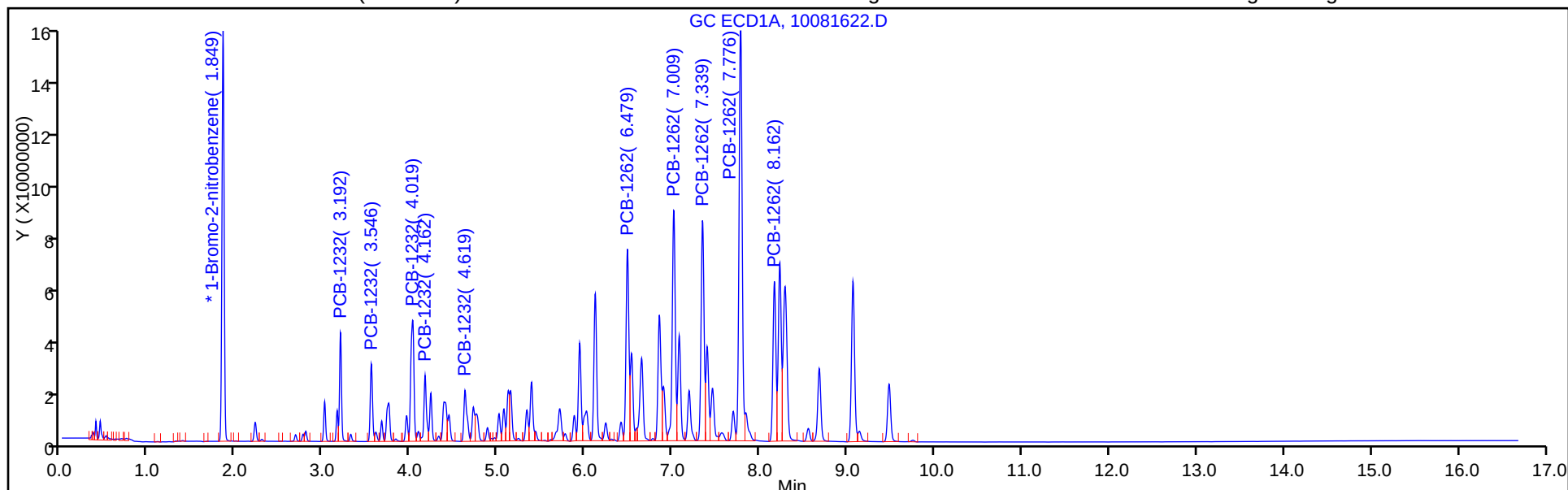
ALS Bottle#: 22

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

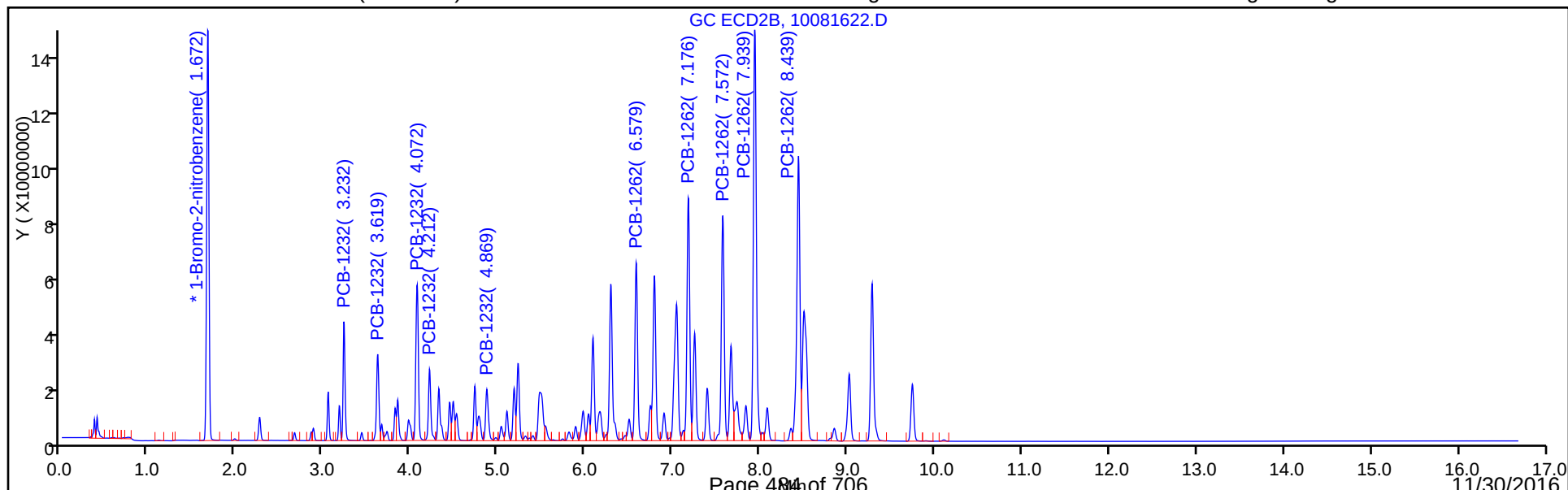
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081623.D
 Lims ID: STDL63262
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 19:36:16 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL63262
 Misc. Info.: 280-0051591-023
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:03 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.847	0.003	271484452	1000.0	1000.0	
2	1.673	1.674	-0.001	259541500	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.193	3.193	0.000	50324255	750.0	752.6	
1	3.546	3.547	-0.001	41425367	750.0	751.3	
1	4.020	4.020	0.000	89308038	750.0	756.6	
1	4.163	4.163	0.000	39632997	750.0	755.9	
1	4.620	4.620	0.000	36721446	750.0	748.7	
				Average of Peak Amounts =		753.0	
2	3.233	3.234	-0.001	49994012	750.0	754.7	
2	3.620	3.620	0.000	44389994	750.0	755.5	
2	4.073	4.070	0.003	85847101	750.0	755.5	
2	4.213	4.214	-0.001	36033014	750.0	747.5	
2	4.870	4.870	0.000	28828115	750.0	730.6	
				Average of Peak Amounts =		748.8	

RPD = 0.57

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081623.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.480	6.480	0.000	128107508	750.0	757.6	
1	7.010	7.010	0.000	162130160	750.0	755.1	
1	7.340	7.340	0.000	151502950	750.0	755.9	
1	7.776	7.777	-0.001	303086439	750.0	750.4	
1	8.163	8.163	0.000	109206733	750.0	760.4	

Average of Peak Amounts = 755.9

2	6.580	6.580	0.000	103314405	750.0	756.9	
2	7.176	7.177	-0.001	144573517	750.0	756.1	
2	7.570	7.570	0.000	138823800	750.0	755.4	
2	7.936	7.937	-0.001	264231749	750.0	754.4	
2	8.436	8.437	-0.001	193468130	750.0	755.7	

Average of Peak Amounts = 755.7

RPD = 0.03

S 8 Polychlorinated biphenyls, Total

1	1508.9
2	1504.4

RPD = 0.30

Reagents:

AR_3262_L6_00014

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:03

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081623.D

Injection Date: 08-Oct-2016 19:36:16

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD163262

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

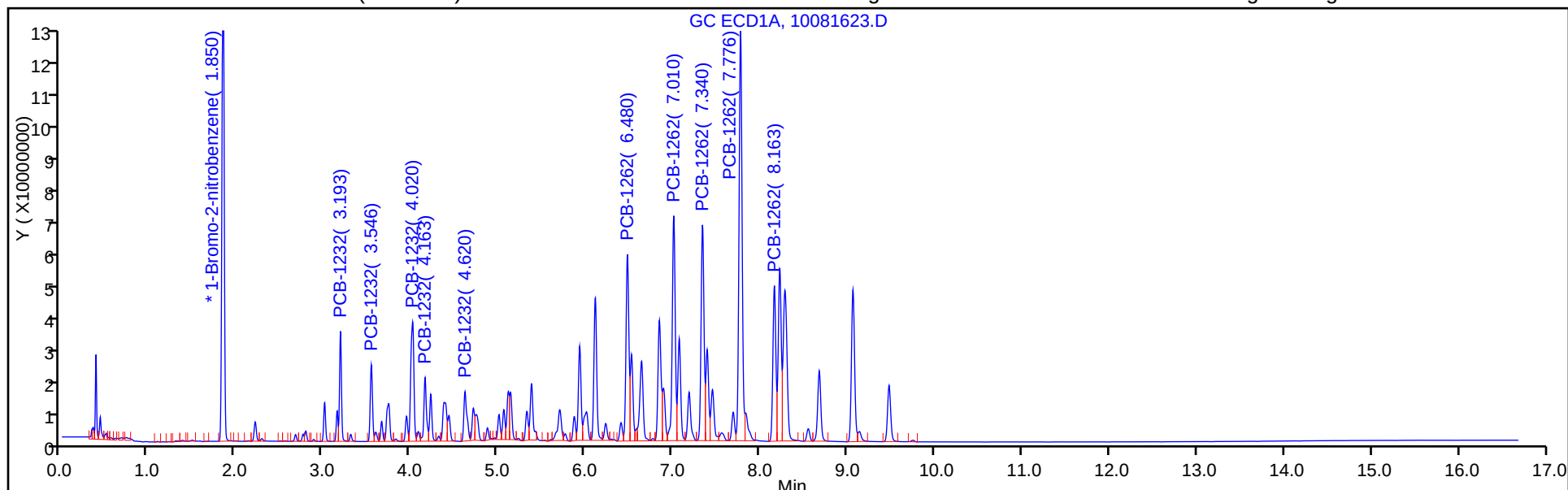
ALS Bottle#: 23

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

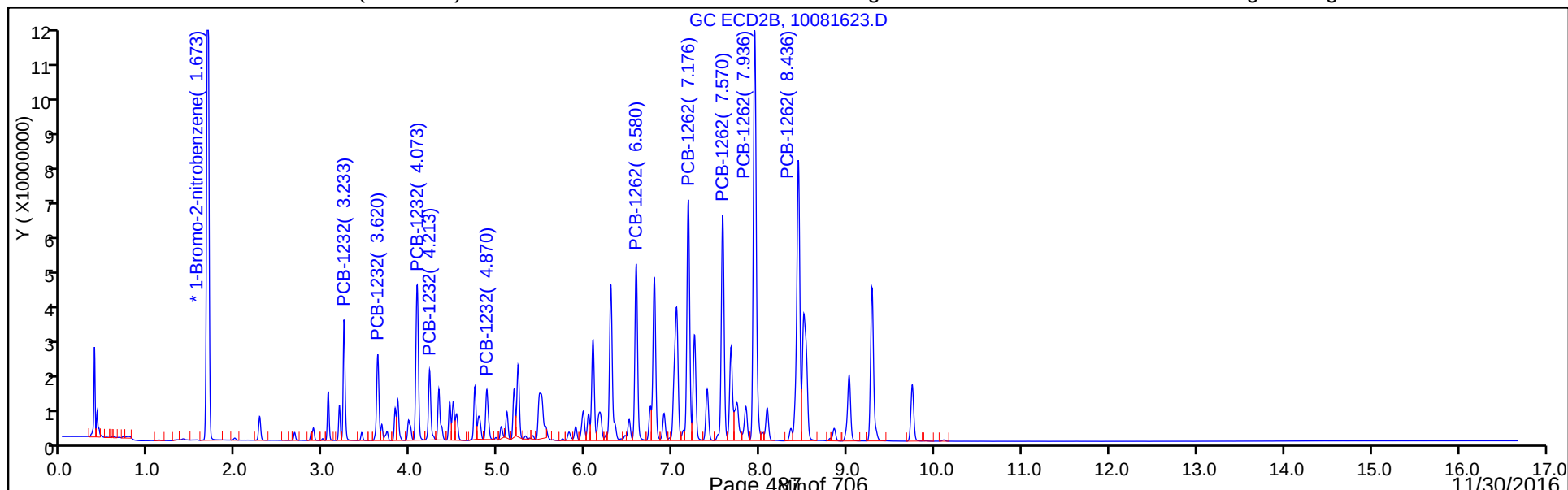
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081624.D
 Lims ID: STDL53262
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 19:57:56 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL53262
 Misc. Info.: 280-0051591-024
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:05 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:00:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.850	0.000	276413561	1000.0	1000.0	
2	1.674	1.674	0.000	263376155	1000.0	1000.0	
RPD = 0.00							

7 PCB-1232

1	3.193	3.193	0.000	35069974	500.0	509.3	
1	3.547	3.547	0.000	28729661	500.0	506.3	
1	4.020	4.020	0.000	60614935	500.0	500.1	
1	4.163	4.163	0.000	27096754	500.0	503.0	
1	4.620	4.620	0.000	25138078	500.0	498.5	
Average of Peak Amounts =							503.5
2	3.234	3.234	0.000	34576978	500.0	508.4	
2	3.620	3.620	0.000	30253218	500.0	502.6	
2	4.070	4.070	0.000	58228070	500.0	501.4	
2	4.214	4.214	0.000	24493576	500.0	497.1	
2	4.870	4.870	0.000	19428897	500.0	482.6	
Average of Peak Amounts =							498.4
RPD = 1.01							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081624.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.480	6.480	0.000	86330587	500.0	497.5	
1	7.010	7.010	0.000	108828491	500.0	493.7	
1	7.340	7.340	0.000	102847278	500.0	500.1	
1	7.777	7.777	0.000	204663838	500.0	492.4	
1	8.163	8.163	0.000	73320764	500.0	498.2	

Average of Peak Amounts = 496.4

2	6.580	6.580	0.000	69764477	500.0	500.3	
2	7.177	7.177	0.000	97929532	500.0	501.0	
2	7.570	7.570	0.000	93951034	500.0	500.4	
2	7.937	7.937	0.000	179206887	500.0	500.7	
2	8.437	8.437	0.000	130995925	500.0	500.8	

Average of Peak Amounts = 500.6

RPD = 0.85

Reagents:

AR_3262_L5_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:05

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081624.D

Injection Date: 08-Oct-2016 19:57:56

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD153262

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

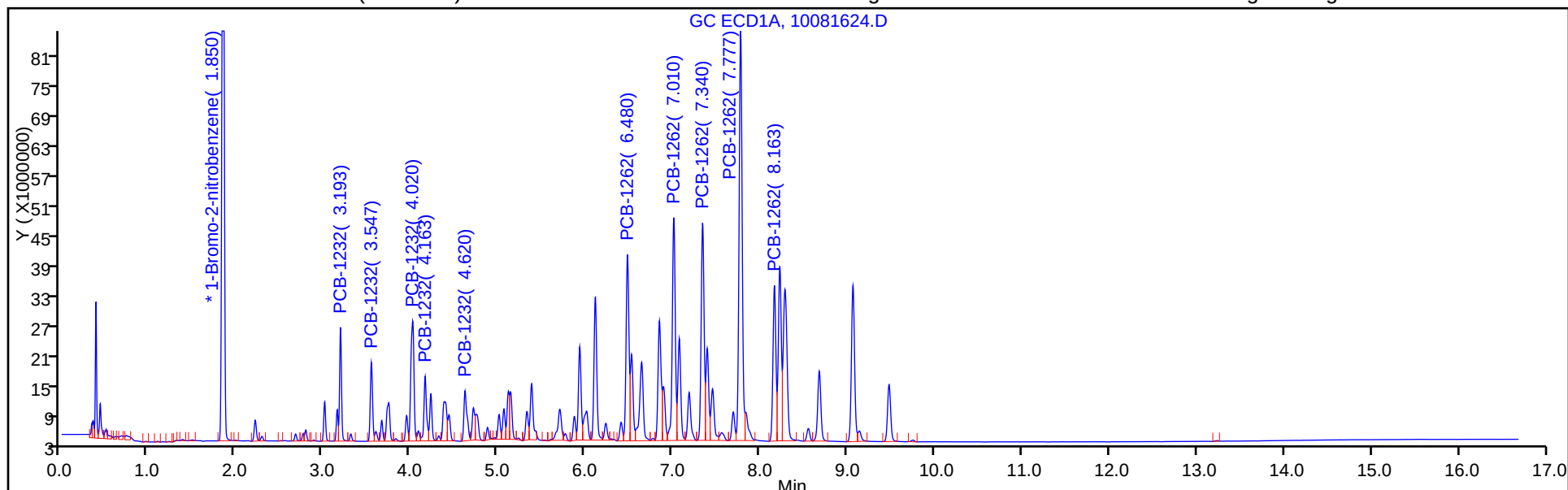
ALS Bottle#: 24

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

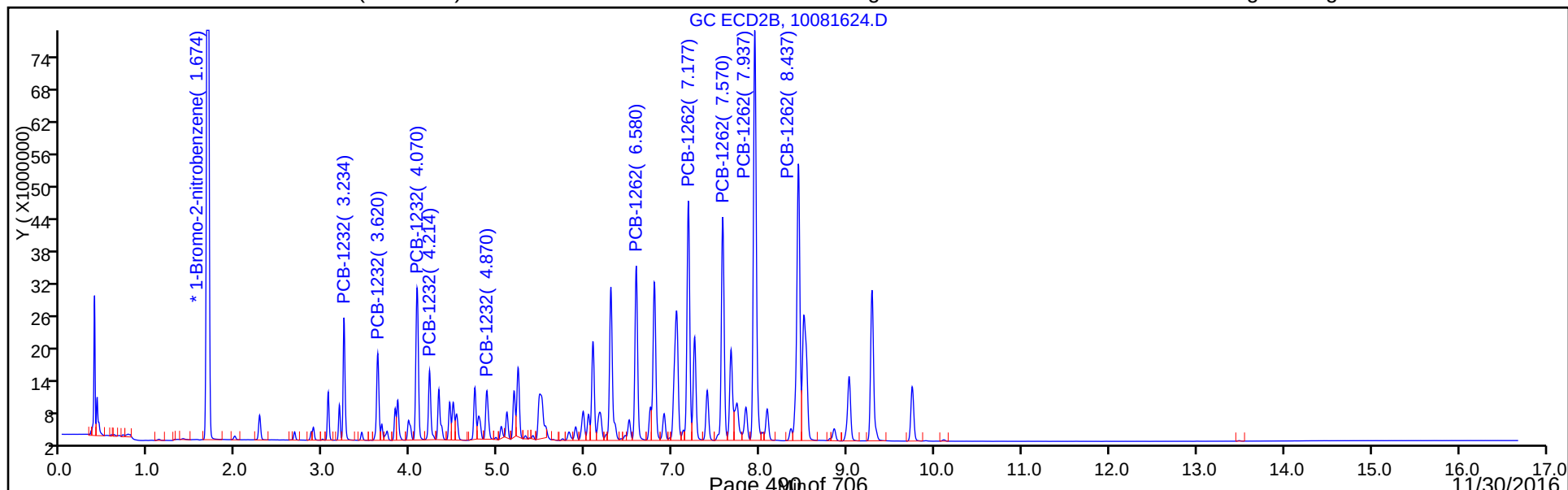
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081625.D
 Lims ID: STDL43262
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 20:19:37 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL43262
 Misc. Info.: 280-0051591-025
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:06 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.847	1.850	-0.003	280860640	1000.0	1000.0	
2	1.674	1.674	0.000	267575496	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.194	3.193	0.001	18817472	250.0	260.2	
1	3.547	3.547	0.000	15511590	250.0	261.1	
1	4.021	4.020	0.001	31954033	250.0	253.3	
1	4.164	4.163	0.001	14467012	250.0	257.8	
1	4.621	4.620	0.001	13236440	250.0	251.1	

Average of Peak Amounts = 256.7

2	3.234	3.234	0.000	18635454	250.0	260.9	
2	3.621	3.620	0.001	16170888	250.0	257.6	
2	4.071	4.070	0.001	30501851	250.0	253.3	
2	4.214	4.214	0.000	13065214	250.0	255.7	
2	4.871	4.870	0.001	10684806	250.0	257.7	

Average of Peak Amounts = 257.0

RPD = 0.13

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081625.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.481	6.480	0.001	45752046	250.0	253.9	
1	7.011	7.010	0.001	58809961	250.0	256.9	
1	7.341	7.340	0.001	54103020	250.0	253.3	
1	7.777	7.777	0.000	116605749	250.0	269.2	
1	8.164	8.163	0.001	37715896	250.0	247.6	

Average of Peak Amounts = 256.2

2	6.581	6.580	0.001	36276494	250.0	251.2	
2	7.178	7.177	0.001	51540669	250.0	254.2	
2	7.571	7.570	0.001	49193016	250.0	252.9	
2	7.938	7.937	0.001	94416115	250.0	254.6	
2	8.438	8.437	0.001	68940286	250.0	254.5	

Average of Peak Amounts = 253.5

RPD = 1.06

S 8 Polychlorinated biphenyls, Total

1	512.9	
2	510.5	

RPD = 0.46

Reagents:

AR_3262_L4_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:07

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081625.D

Injection Date: 08-Oct-2016 20:19:37

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD43262

Worklist Smp#: 25

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

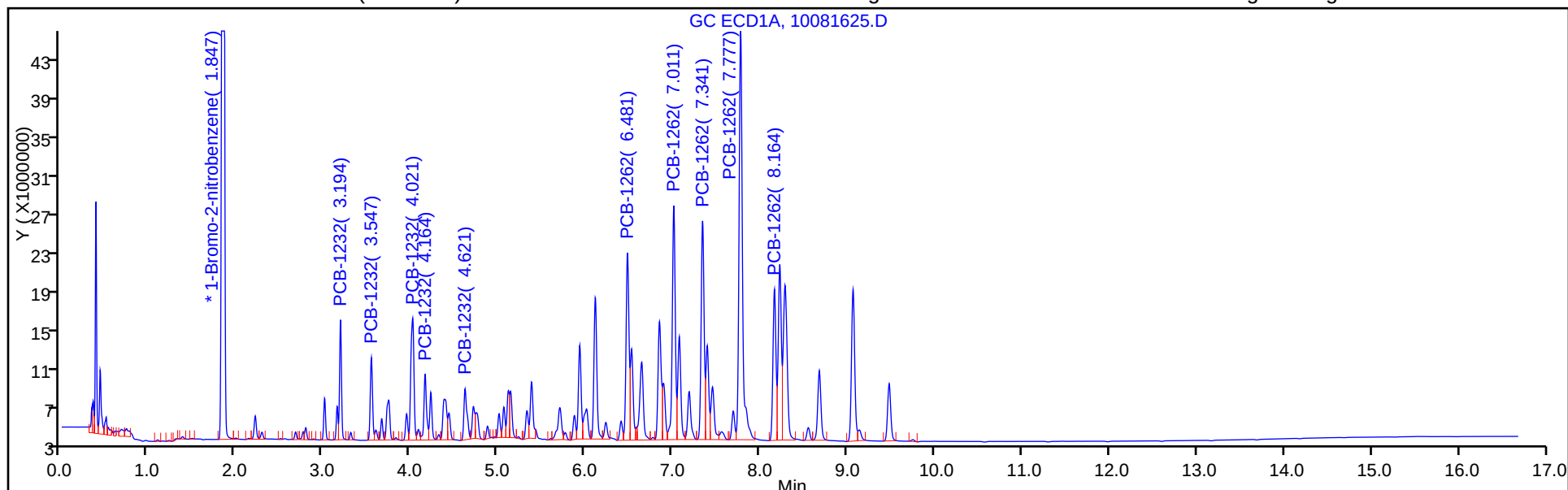
ALS Bottle#: 25

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

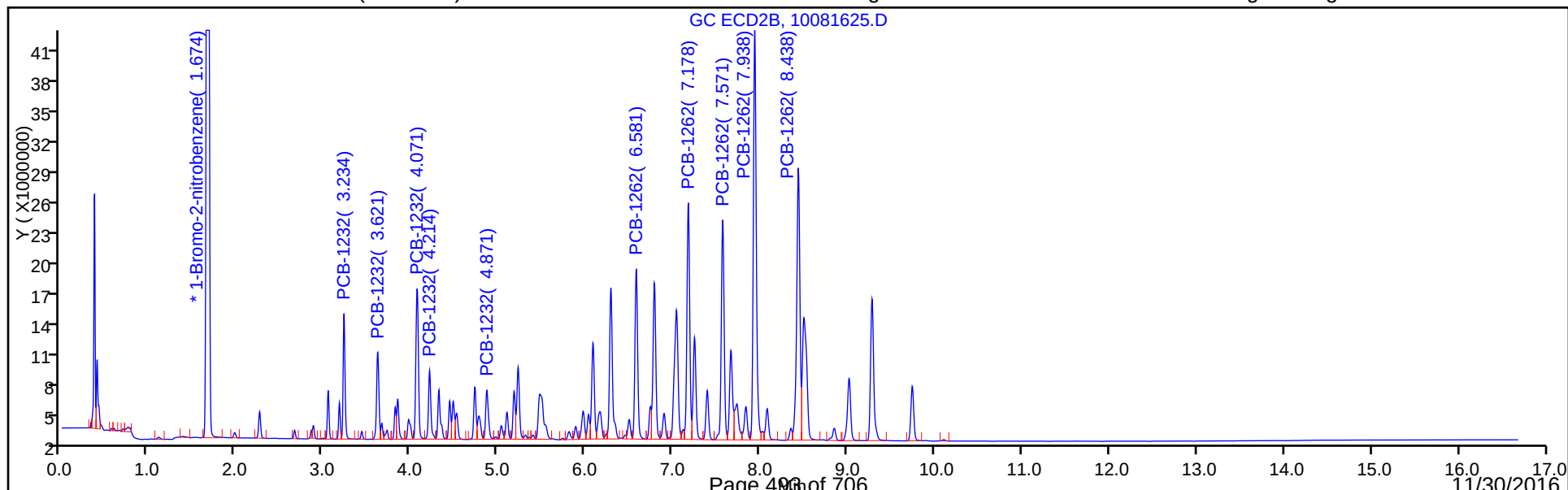
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081626.D
 Lims ID: STDL33262
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 20:41:17 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL33262
 Misc. Info.: 280-0051591-026
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:08 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.850	-0.002	282170429	1000.0	1000.0	
2	1.675	1.674	0.001	269585509	1000.0	1000.0	
						RPD = 0.00	

7 PCB-1232

1	3.195	3.193	0.002	8357089	100.0	104.7	
1	3.548	3.547	0.001	6756348	100.0	103.6	
1	4.021	4.020	0.001	13694115	100.0	100.7	
1	4.161	4.163	-0.002	6168038	100.0	101.5	
1	4.621	4.620	0.001	5939777	100.0	103.9	
Average of Peak Amounts =						102.9	
2	3.235	3.234	0.001	8224909	100.0	103.7	
2	3.618	3.620	-0.002	7029479	100.0	103.0	
2	4.071	4.070	0.001	12972497	100.0	100.7	
2	4.215	4.214	0.001	5518782	100.0	100.8	
2	4.868	4.870	-0.002	4382387	100.0	100.3	
Average of Peak Amounts =						101.7	
						RPD = 1.16	

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081626.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.481	6.480	0.001	19843913	100.0	103.0	
1	7.011	7.010	0.001	25279589	100.0	103.1	
1	7.341	7.340	0.001	23443670	100.0	102.7	
1	7.778	7.777	0.001	50098554	100.0	106.1	
1	8.165	8.163	0.002	16299092	100.0	101.1	

Average of Peak Amounts = 103.2

2	6.581	6.580	0.001	15557155	100.0	101.2	
2	7.178	7.177	0.001	22102495	100.0	101.8	
2	7.571	7.570	0.001	21028236	100.0	101.4	
2	7.938	7.937	0.001	40221570	100.0	101.5	
2	8.438	8.437	0.001	29394619	100.0	101.8	

Average of Peak Amounts = 101.6

RPD = 1.59

S 8 Polychlorinated biphenyls, Total

1	206.1	
2	203.3	

RPD = 1.38

Reagents:

AR_3262_L3_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:09

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081626.D

Injection Date: 08-Oct-2016 20:41:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD133262

Worklist Smp#: 26

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

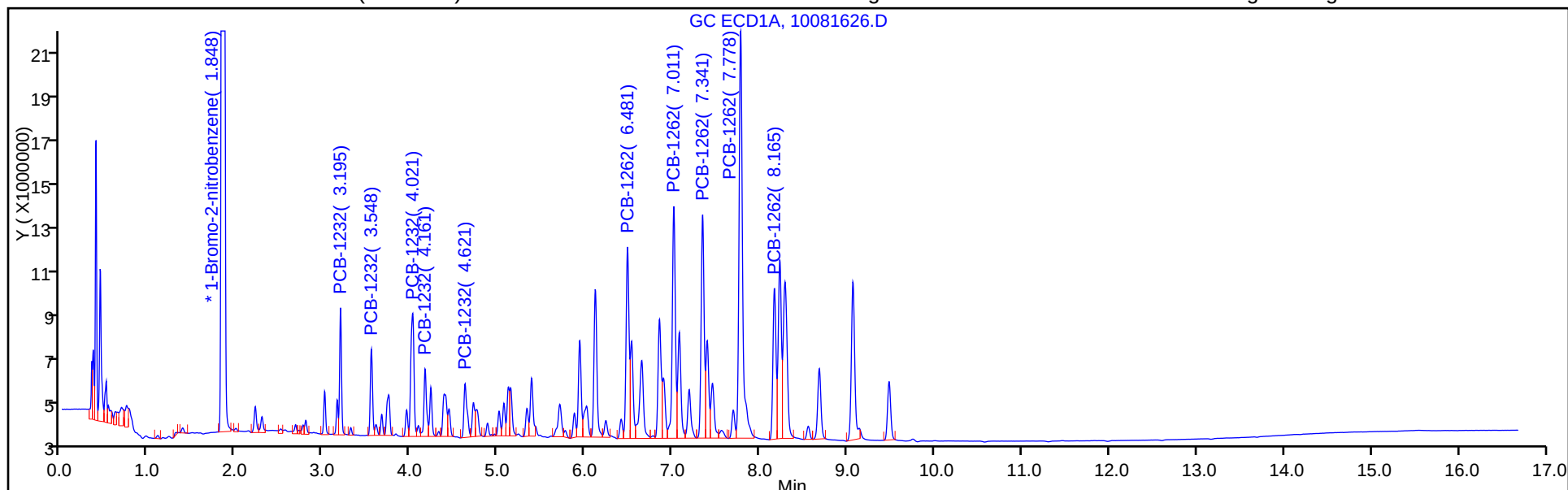
ALS Bottle#: 26

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

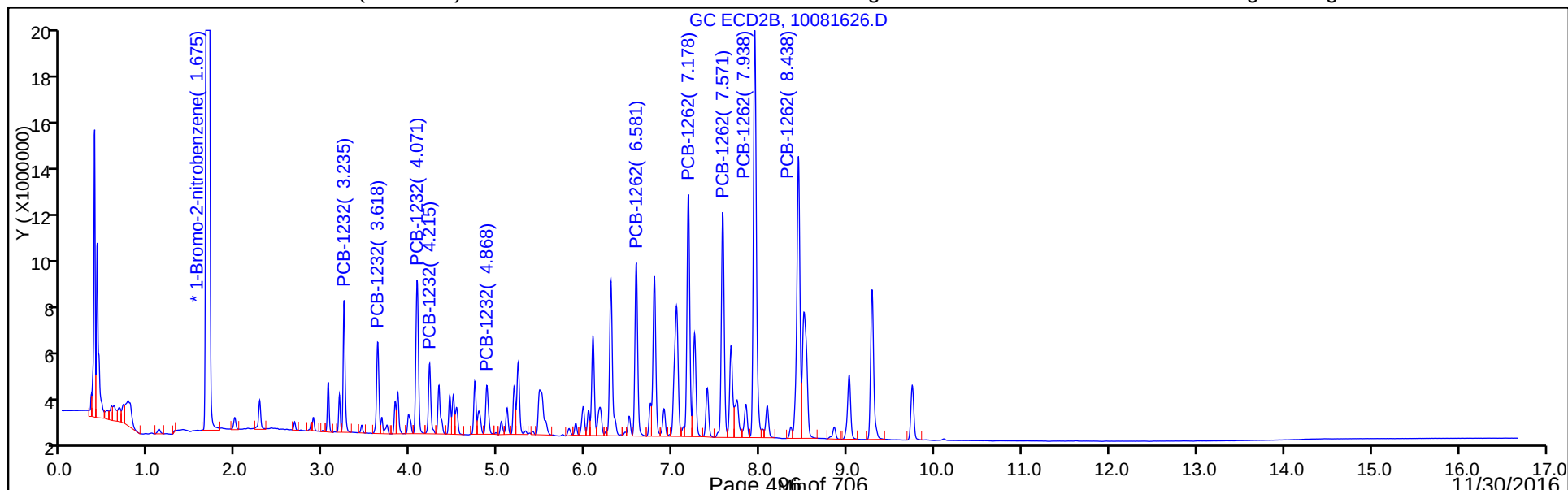
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D
 Lims ID: STDL23262
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 21:02:56 ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL23262
 Misc. Info.: 280-0051591-027
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:10 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:14:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.850	-0.002	280699303	1000.0	1000.0	
2	1.675	1.674	0.001	266339539	1000.0	1000.0	
RPD = 0.00							

7 PCB-1232

M

1	3.195	3.193	0.002	4514804	50.0	48.4	
1	3.545	3.547	-0.002	3772596	50.0	50.7	
1	4.018	4.020	-0.002	7437738	50.0	49.2	M
1	4.162	4.163	-0.001	3360132	50.0	49.4	M
1	4.618	4.620	-0.002	3357952	50.0	52.6	M

Average of Peak Amounts = 50.1

2	3.235	3.234	0.001	4540833	50.0	49.7	
2	3.619	3.620	-0.001	3798355	50.0	49.8	
2	4.072	4.070	0.002	6833016	50.0	48.6	
2	4.215	4.214	0.001	2935109	50.0	49.2	
2	4.869	4.870	-0.001	2297380	50.0	49.5	

Average of Peak Amounts = 49.4

RPD = 1.38

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.482	6.480	0.002	10166496	50.0	47.4	
1	7.012	7.010	0.002	13359442	50.0	49.1	
1	7.342	7.340	0.002	12025270	50.0	47.3	
1	7.775	7.777	-0.002	26119552	50.0	48.2	
1	8.165	8.163	0.002	8481202	50.0	48.4	

Average of Peak Amounts =

48.1

2	6.582	6.580	0.002	8212292	50.0	49.4	
2	7.179	7.177	0.002	11598442	50.0	48.9	
2	7.572	7.570	0.002	11028381	50.0	49.1	
2	7.939	7.937	0.002	21317934	50.0	49.6	
2	8.439	8.437	0.002	15107803	50.0	48.1	

Average of Peak Amounts =

49.0

RPD = 1.91

S 8 Polychlorinated biphenyls, Total

1						98.1	
2						98.4	

RPD = 0.25

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_3262_L2_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:10

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081627.D

Injection Date: 08-Oct-2016 21:02:56

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD123262

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

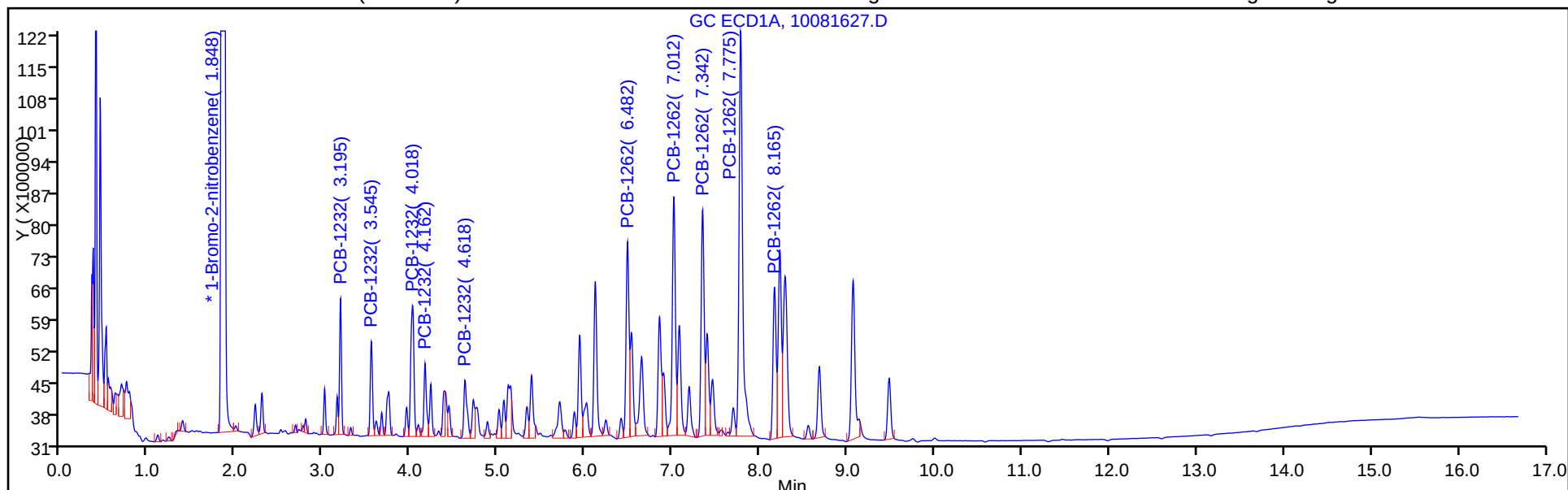
ALS Bottle#: 27

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

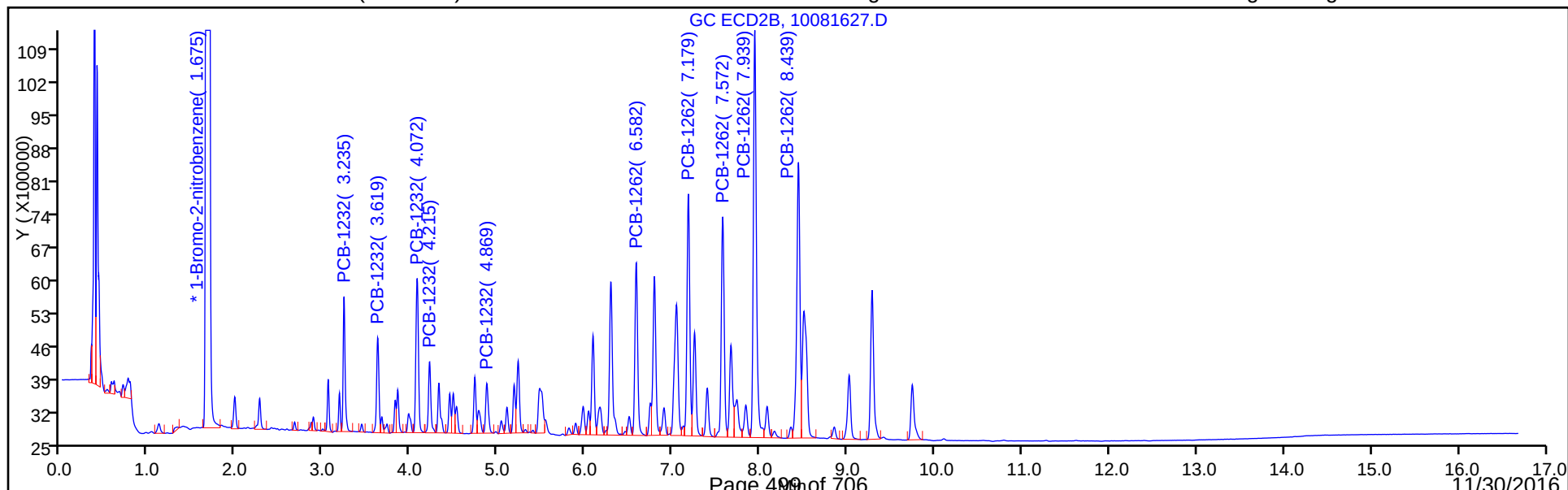
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081628.D
 Lims ID: STDL13262
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 21:24:36 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL13262
 Misc. Info.: 280-0051591-028
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub4
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:12 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.850	-0.001	278535625	1000.0	1000.0
2	1.673	1.674	-0.001	264943055	1000.0	1000.0

RPD = 0.00

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1	3.193	3.193	0.000	2817230	25.0	23.6
1	3.546	3.547	-0.001	2203842	25.0	22.8
1	4.019	4.020	-0.001	4484149	25.0	24.9
1	4.163	4.163	0.000	2007425	25.0	24.2
1	4.619	4.620	-0.001	1861828	25.0	22.8

Average of Peak Amounts = 23.7

2	3.233	3.234	-0.001	2769710	25.0	23.2
2	3.619	3.620	-0.001	2242846	25.0	23.7
2	4.073	4.070	0.003	4112077	25.0	25.2
2	4.213	4.214	-0.001	1739493	25.0	24.9
2	4.869	4.870	-0.001	1314864	25.0	25.2

Average of Peak Amounts = 24.4

RPD = 3.11

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081628.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.483	6.480	0.003	6320811	25.0	25.3	
1	7.013	7.010	0.003	7880525	25.0	24.3	
1	7.339	7.340	-0.001	7494329	25.0	25.4	
1	7.776	7.777	-0.001	15788378	25.0	23.2	
1	8.163	8.163	0.000	5104184	25.0	25.7	

Average of Peak Amounts = 24.8

2	6.579	6.580	-0.001	4798307	25.0	24.9	
2	7.176	7.177	-0.001	6890855	25.0	24.7	
2	7.569	7.570	-0.001	6486857	25.0	24.8	
2	7.939	7.937	0.002	12346872	25.0	24.4	
2	8.439	8.437	0.002	9110551	25.0	25.1	

Average of Peak Amounts = 24.8

RPD = 0.11

S 8 Polychlorinated biphenyls, Total

1	48.4	
2	49.2	

RPD = 1.58

Reagents:

AR_3262_L1_00017

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:12

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081628.D

Injection Date: 08-Oct-2016 21:24:36

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD13262

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

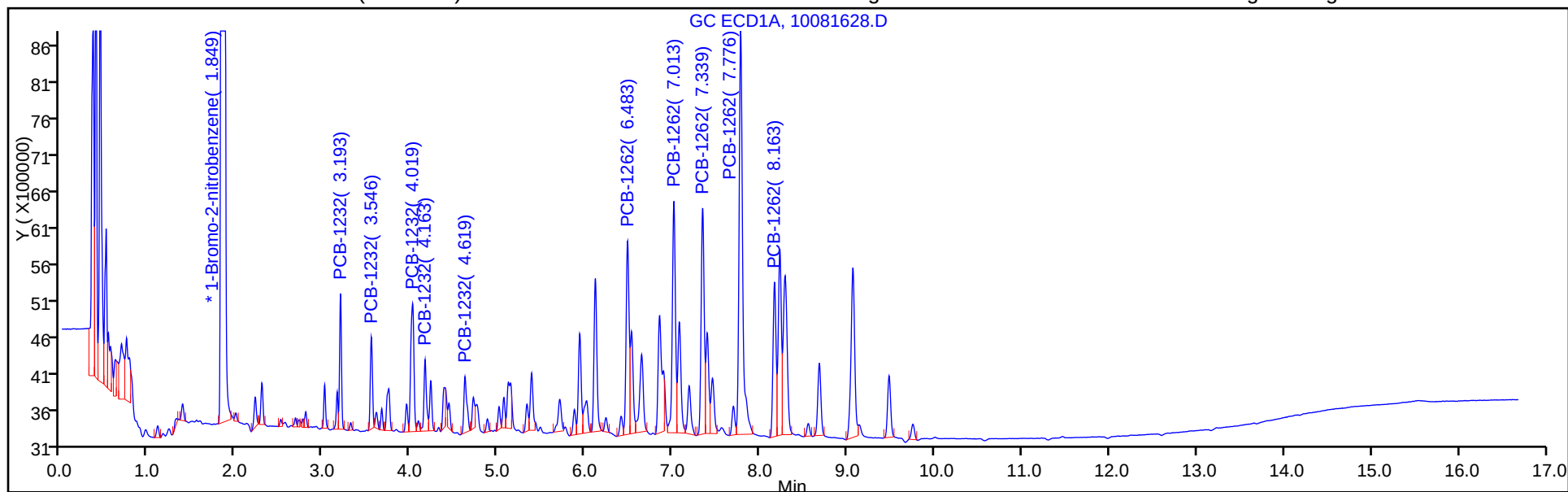
ALS Bottle#: 28

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

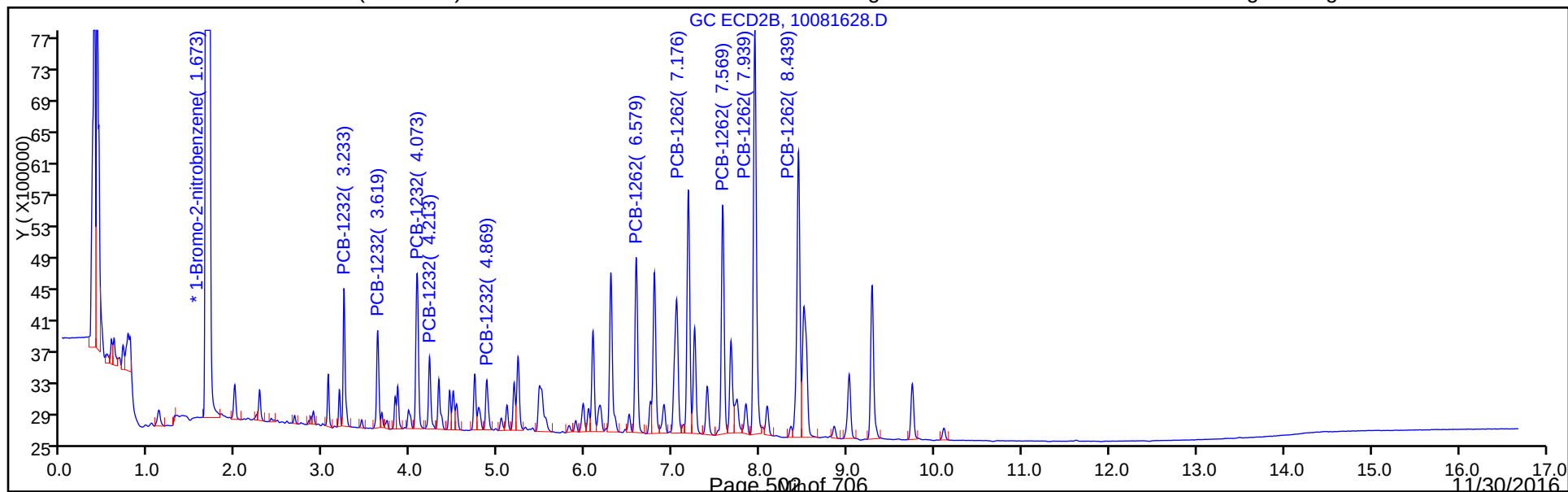
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 21:46 Calibration End Date: 10/08/2016 23:55 Calibration ID: 27255

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD14268 280-345281/35	10081635.D
Level 2	STD124268 280-345281/34	10081634.D
Level 3	STD134268 280-345281/33	10081633.D
Level 4	STD144268 280-345281/32	10081632.D
Level 5	STD154268 280-345281/31	10081631.D
Level 6	STD164268 280-345281/30	10081630.D
Level 7	STD174268 280-345281/29	10081629.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.5070 0.3355	0.4672 0.3243	0.4129	0.3782	0.3654	Lin1	5.9240	0.3324							0.9970		0.9900
PCB-1242 Peak 2	1.0004 0.7414	0.9349 0.7255	0.8435	0.7968	0.7986	Lin1	8.5452	0.7388							0.9980		0.9900
PCB-1242 Peak 3	0.4503 0.3277	0.4333 0.3229	0.3843	0.3567	0.3540	Lin1	4.2955	0.3275							0.9980		0.9900
PCB-1242 Peak 4	0.3150 0.2509	0.2743 0.2550	0.2656	0.2627	0.2714	Lin1	1.3677	0.2554							0.9990		0.9900
PCB-1242 Peak 5	0.3126 0.2620	0.3340 0.2547	0.3025	0.2810	0.2772	Lin1	2.5557	0.2605							0.9980		0.9900
PCB-1268 Peak 1	2.1377 1.6249	1.9959 1.5943	1.7813	1.7220	1.7747	Lin1	15.896	1.6265							0.9980		0.9900
PCB-1268 Peak 2	2.0856 1.5420	1.9174 1.4776	1.7865	1.6596	1.6466	Lin1	18.783	1.5206							0.9980		0.9900
PCB-1268 Peak 3	1.7621 1.3361	1.6311 1.2980	1.4897	1.4174	1.4410	Lin1	13.751	1.3283							0.9980		0.9900
PCB-1268 Peak 4	0.9321 0.6272	0.9212 0.6096	0.7487	0.6884	0.6821	Lin1	11.046	0.6206							0.9970		0.9900
PCB-1268 Peak 5	5.3547 4.0086	5.0324 3.8487	4.6055	4.3467	4.3220	Lin1	47.776	3.9680							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 21:46 Calibration End Date: 10/08/2016 23:55 Calibration ID: 27255

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD14268 280-345281/35	10081635.D
Level 2	STD124268 280-345281/34	10081634.D
Level 3	STD134268 280-345281/33	10081633.D
Level 4	STD144268 280-345281/32	10081632.D
Level 5	STD154268 280-345281/31	10081631.D
Level 6	STD164268 280-345281/30	10081630.D
Level 7	STD174268 280-345281/29	10081629.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Lin1	3580800 69419054	6558220 87356528	11661763	26551198	51450818	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 2	BNB	Lin1	7065428 153406856	13122587 195399840	23821854	55939284	112452480	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 3	BNB	Lin1	3180174 67813090	6082088 86971394	10854484	25042229	49846863	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 4	BNB	Lin1	2224400 51924510	3850975 68690383	7500410	18439990	38221302	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 5	BNB	Lin1	2207797 54216963	4688162 68607919	8542661	19727832	39028926	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 1	BNB	Lin1	15097445 336228569	28015758 429391784	50306954	120890328	249880822	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 2	BNB	Lin1	14729590 319082846	26914135 397972569	50453857	116513744	231844422	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 3	BNB	Lin1	12444447 276474927	22895628 349588195	42071016	99511065	202901087	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 4	BNB	Lin1	6583001 129790165	12931307 164181181	21145381	48330101	96049474	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 5	BNB	Lin1	37817020 829480250	70639126 1036571157	130067066	305165035	608556671	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081629.D
 Lims ID: STDL74268
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 21:46:14 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL74268
 Misc. Info.: 280-0051591-029
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:13 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.850	-0.001	269329949	1000.0	1000.0	
2	1.676	1.674	0.002	256392346	1000.0	1000.0	
RPD = 0.00							

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1	3.545	3.545	0.000	87356528	1000.0	958.1	
1	4.019	4.018	0.001	195399840	1000.0	970.4	
1	4.162	4.162	0.000	86971394	1000.0	972.8	
1	5.115	5.115	0.000	68690383	1000.0	993.2	
1	5.139	5.142	-0.003	68607919	1000.0	967.9	
Average of Peak Amounts =						972.5	
2	3.619	3.619	0.000	89264201	1000.0	959.5	
2	4.069	4.072	-0.003	186087835	1000.0	963.2	
2	4.212	4.215	-0.003	79848524	1000.0	979.2	
2	5.179	5.182	-0.003	63118095	1000.0	961.1	
2	5.229	5.229	0.000	75935069	1000.0	986.4	
Average of Peak Amounts =						969.9	
RPD = 0.27							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081629.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.222	8.225	-0.003	429391784	1000.0	970.4	
1	8.275	8.275	0.000	397972569	1000.0	959.4	
1	8.549	8.548	0.001	349588195	1000.0	966.8	
1	9.062	9.062	0.000	164181181	1000.0	964.5	
1	9.475	9.475	0.000	1036571157	1000.0	957.9	

Average of Peak Amounts = 963.8

2	8.436	8.435	0.001	373823171	1000.0	968.6	
2	8.499	8.499	0.000	346676715	1000.0	967.1	
2	8.849	8.849	0.000	303349558	1000.0	970.8	
2	9.282	9.279	0.003	134882163	1000.0	972.6	
2	9.742	9.742	0.000	877060976	1000.0	967.1	

Average of Peak Amounts = 969.2

RPD = 0.56

S 8 Polychlorinated biphenyls, Total

1	1936.3
2	1939.1

RPD = 0.15

Reagents:

AR_4268_L7_00011

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:14

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081629.D

Injection Date: 08-Oct-2016 21:46:14

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD74268

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

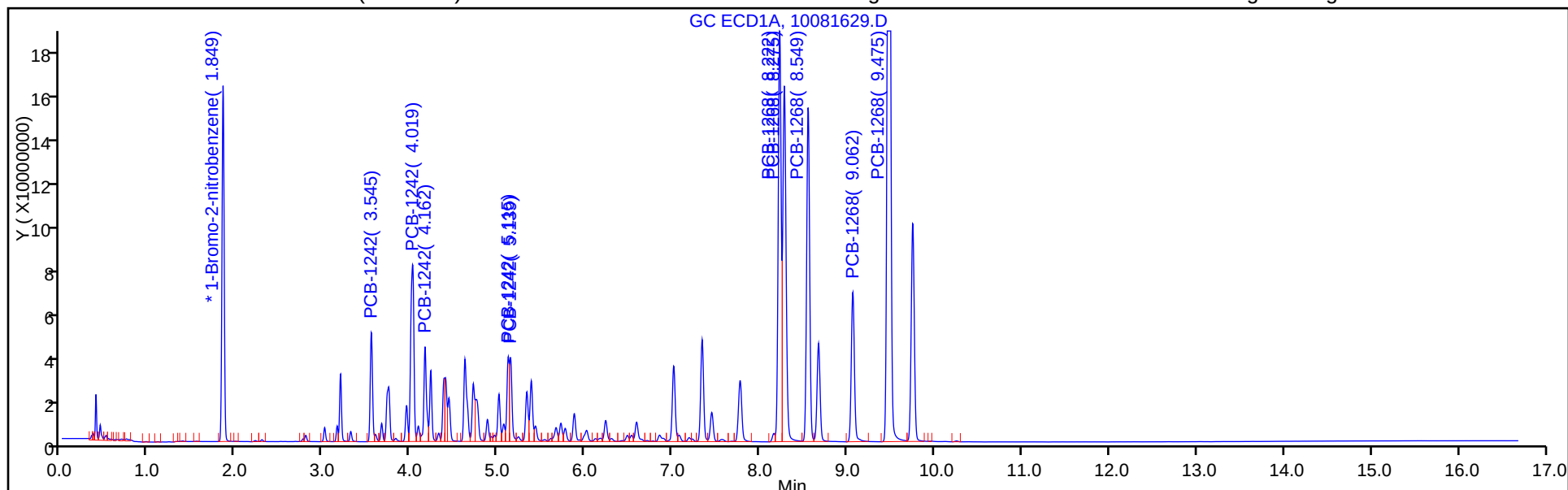
ALS Bottle#: 29

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

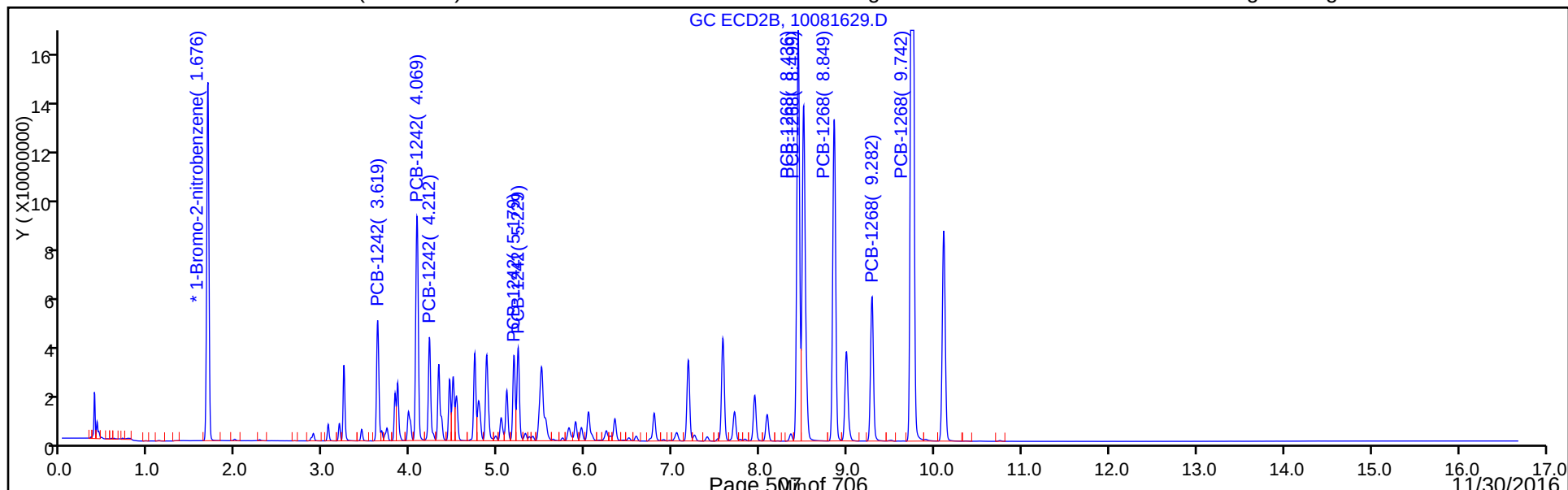
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081630.D
 Lims ID: STDL64268
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 22:07:51 ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL64268
 Misc. Info.: 280-0051591-030
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:15 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.850	-0.002	275899324	1000.0	1000.0	
2	1.675	1.674	0.001	262013683	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.548	3.545	0.003	69419054	750.0	739.2	
1	4.018	4.018	0.000	153406856	750.0	741.0	
1	4.161	4.162	-0.001	67813090	750.0	737.3	
1	5.115	5.115	0.000	51924510	750.0	731.5	
1	5.141	5.142	-0.001	54216963	750.0	744.4	
Average of Peak Amounts =						738.7	
2	3.618	3.619	-0.001	70501133	750.0	737.7	
2	4.072	4.072	0.000	146475301	750.0	739.4	
2	4.212	4.215	-0.003	62507152	750.0	747.5	
2	5.182	5.182	0.000	50063531	750.0	744.7	
2	5.228	5.229	-0.001	58056678	750.0	736.0	
Average of Peak Amounts =						741.0	
RPD = 0.32							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081630.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	336228569	750.0	739.5	
1	8.278	8.275	0.003	319082846	750.0	748.2	
1	8.548	8.548	0.000	276474927	750.0	744.0	
1	9.061	9.062	-0.001	129790165	750.0	740.2	
1	9.475	9.475	0.000	829480250	750.0	745.6	

Average of Peak Amounts = 743.5

2	8.435	8.435	0.000	292430350	750.0	739.3	
2	8.498	8.499	-0.001	272917256	750.0	742.5	
2	8.848	8.849	-0.001	237233644	750.0	740.8	
2	9.278	9.279	-0.001	105234233	750.0	740.6	
2	9.742	9.742	0.000	688341491	750.0	740.0	

Average of Peak Amounts = 740.6

RPD = 0.39

S 8 Polychlorinated biphenyls, Total

1	1482.2
2	1481.7

RPD = 0.03

Reagents:

AR_4268_L6_00013

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:15

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081630.D

Injection Date: 08-Oct-2016 22:07:51

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD64268

Worklist Smp#: 30

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

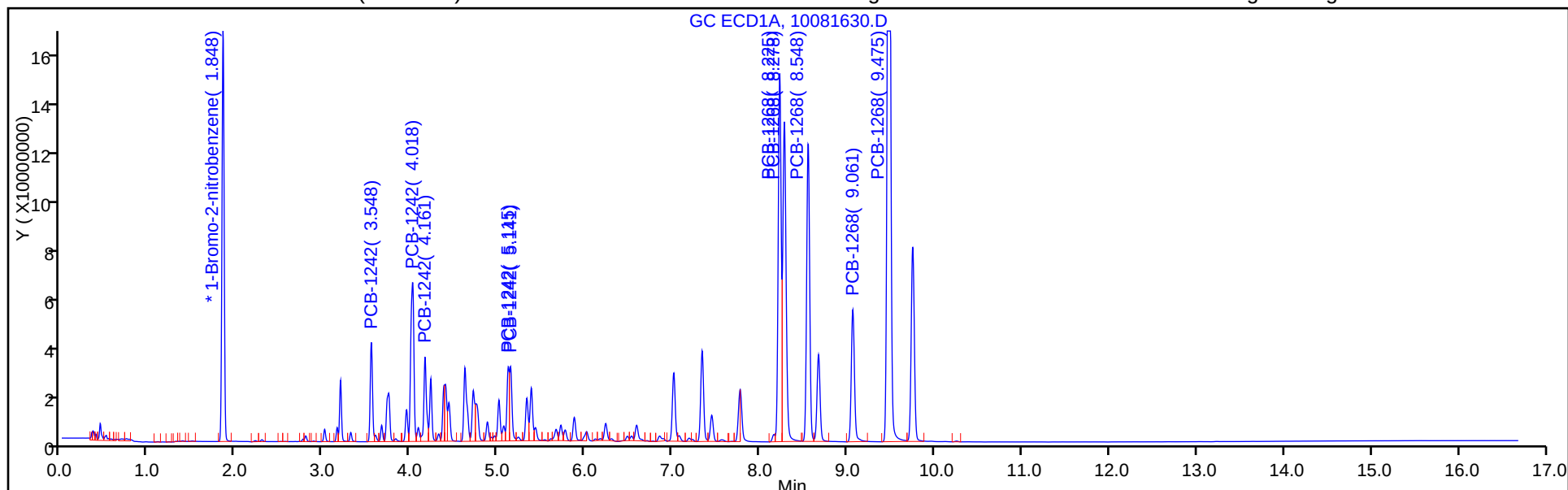
ALS Bottle#: 30

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

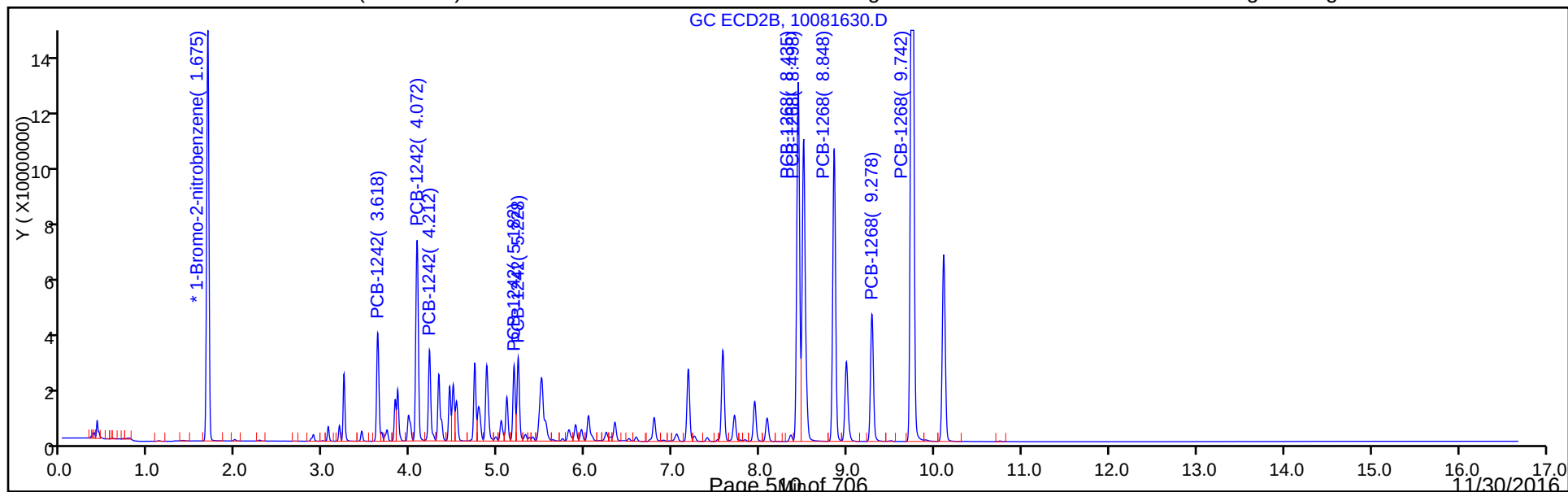
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081631.D
 Lims ID: STDL54268
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 22:29:30 ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL54268
 Misc. Info.: 280-0051591-031
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:17 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:01:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.848	0.000	281608897	1000.0	1000.0	
2	1.675	1.675	0.000	268125441	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.545	3.545	0.000	51450818	500.0	531.9	
1	4.018	4.018	0.000	112452480	500.0	528.9	
1	4.162	4.162	0.000	49846863	500.0	527.3	
1	5.115	5.115	0.000	38221302	500.0	526.1	
1	5.142	5.142	0.000	39028926	500.0	522.1	
Average of Peak Amounts =						527.3	
2	3.619	3.619	0.000	52870729	500.0	536.1	
2	4.072	4.072	0.000	109307821	500.0	536.3	
2	4.215	4.215	0.000	43846002	500.0	508.8	
2	5.182	5.182	0.000	37078013	500.0	537.4	
2	5.229	5.229	0.000	42203600	500.0	520.5	
Average of Peak Amounts =						527.8	
RPD = 0.11							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081631.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	249880822	500.0	535.8	
1	8.275	8.275	0.000	231844422	500.0	529.1	
1	8.548	8.548	0.000	202901087	500.0	532.1	
1	9.062	9.062	0.000	96049474	500.0	531.8	
1	9.475	9.475	0.000	608556671	500.0	532.6	

Average of Peak Amounts = 532.3

2	8.435	8.435	0.000	216930005	500.0	533.3	
2	8.499	8.499	0.000	200262369	500.0	529.4	
2	8.849	8.849	0.000	174885272	500.0	531.1	
2	9.279	9.279	0.000	77273759	500.0	529.2	
2	9.742	9.742	0.000	508390166	500.0	530.9	

Average of Peak Amounts = 530.8

RPD = 0.28

Reagents:

AR_4268_L5_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:17

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081631.D

Injection Date: 08-Oct-2016 22:29:30

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD154268

Worklist Smp#: 31

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

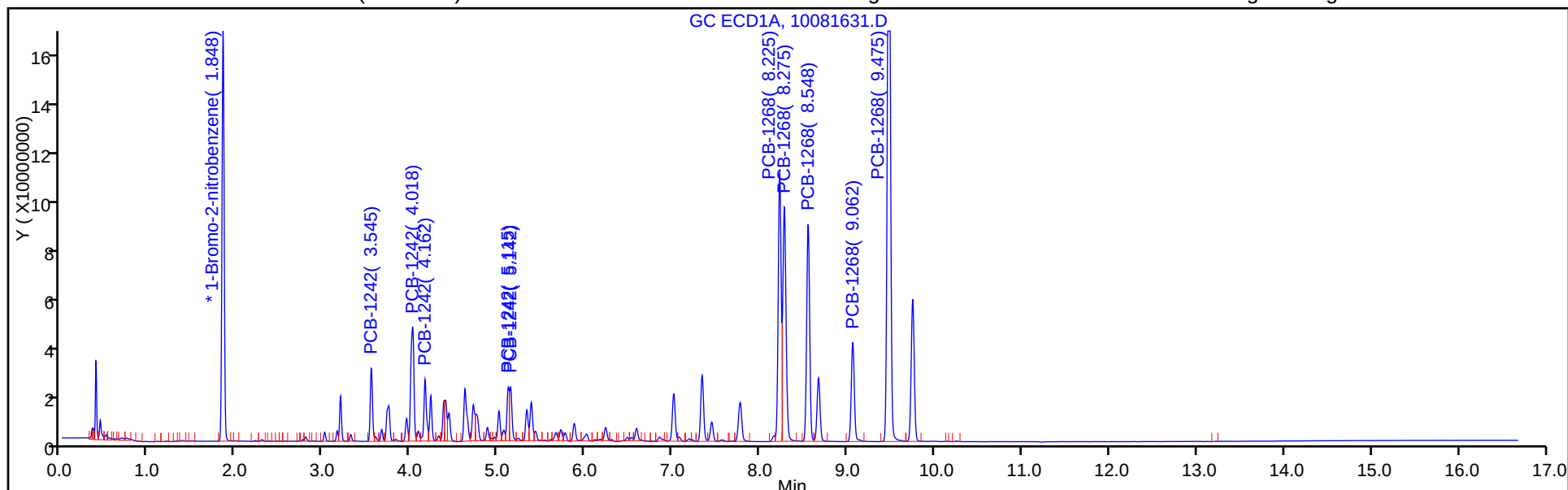
ALS Bottle#: 31

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

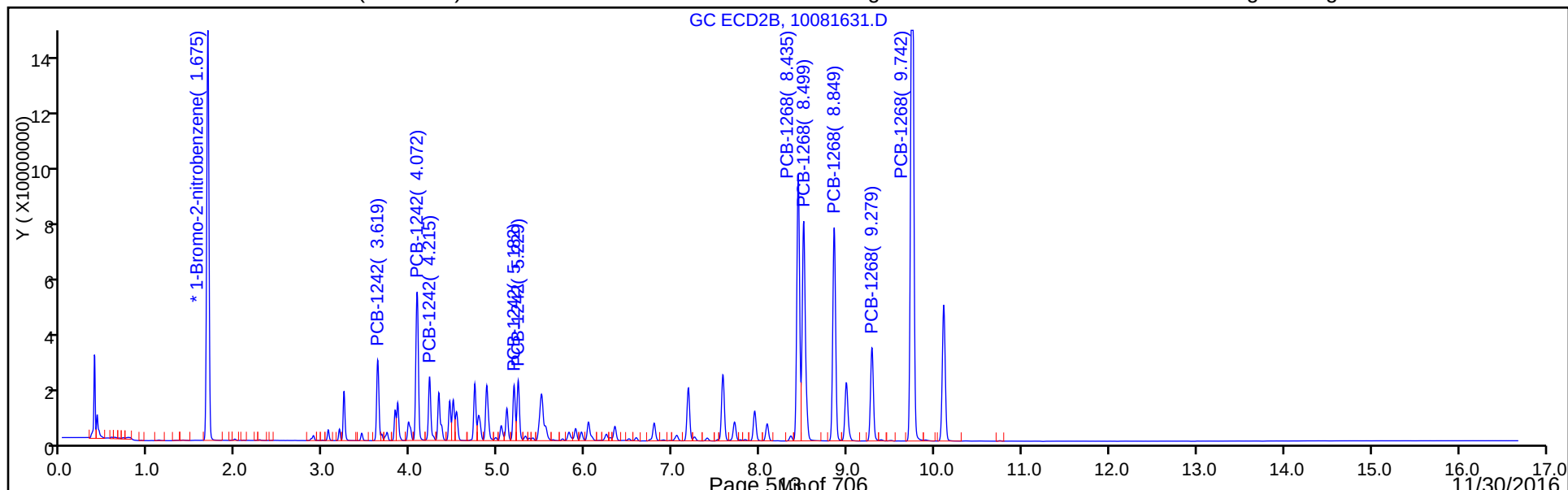
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081632.D
 Lims ID: STDL44268
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 22:51:08 ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL44268
 Misc. Info.: 280-0051591-032
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:19 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.848	0.000	280821791	1000.0	1000.0	
2	1.675	1.675	0.000	265950856	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.545	3.545	0.000	26551198	250.0	266.6	
1	4.018	4.018	0.000	55939284	250.0	258.1	
1	4.162	4.162	0.000	25042229	250.0	259.1	
1	5.115	5.115	0.000	18439990	250.0	251.7	
1	5.138	5.142	-0.004	19727832	250.0	259.8	
Average of Peak Amounts =						259.1	
2	3.618	3.619	-0.001	26687432	250.0	264.6	
2	4.072	4.072	0.000	53506405	250.0	259.2	
2	4.212	4.215	-0.003	22724012	250.0	260.4	
2	5.182	5.182	0.000	17823536	250.0	257.5	
2	5.228	5.229	-0.001	20901201	250.0	255.9	
Average of Peak Amounts =						259.5	
RPD = 0.17							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081632.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	120890328	250.0	254.9	
1	8.275	8.275	0.000	116513744	250.0	260.5	
1	8.548	8.548	0.000	99511065	250.0	256.4	
1	9.062	9.062	0.000	48330101	250.0	259.5	
1	9.475	9.475	0.000	305165035	250.0	261.8	

Average of Peak Amounts = 258.6

2	8.435	8.435	0.000	105902328	250.0	257.7	
2	8.498	8.499	-0.001	98957700	250.0	258.3	
2	8.848	8.849	-0.001	85189683	250.0	256.1	
2	9.282	9.279	0.003	37641894	250.0	255.8	
2	9.742	9.742	0.000	252075338	250.0	259.6	

Average of Peak Amounts = 257.5

RPD = 0.43

S 8 Polychlorinated biphenyls, Total

1	517.7	
2	517.0	

RPD = 0.13

Reagents:

AR_4268_L4_00018

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:19

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081632.D

Injection Date: 08-Oct-2016 22:51:08

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD44268

Worklist Smp#: 32

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

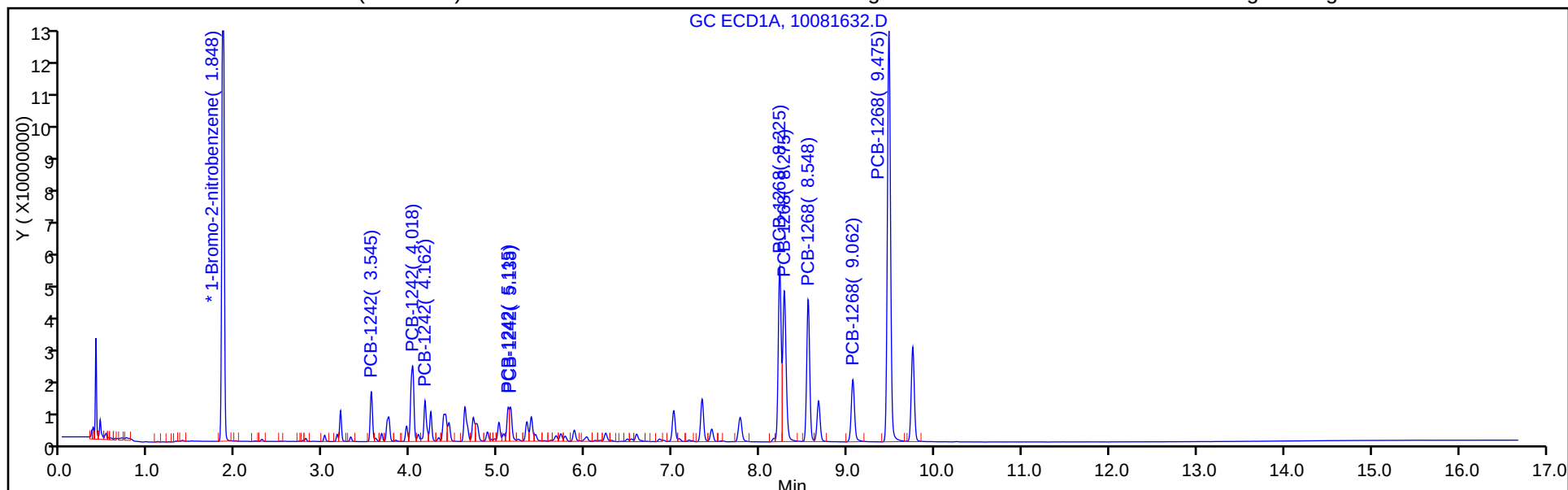
ALS Bottle#: 32

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

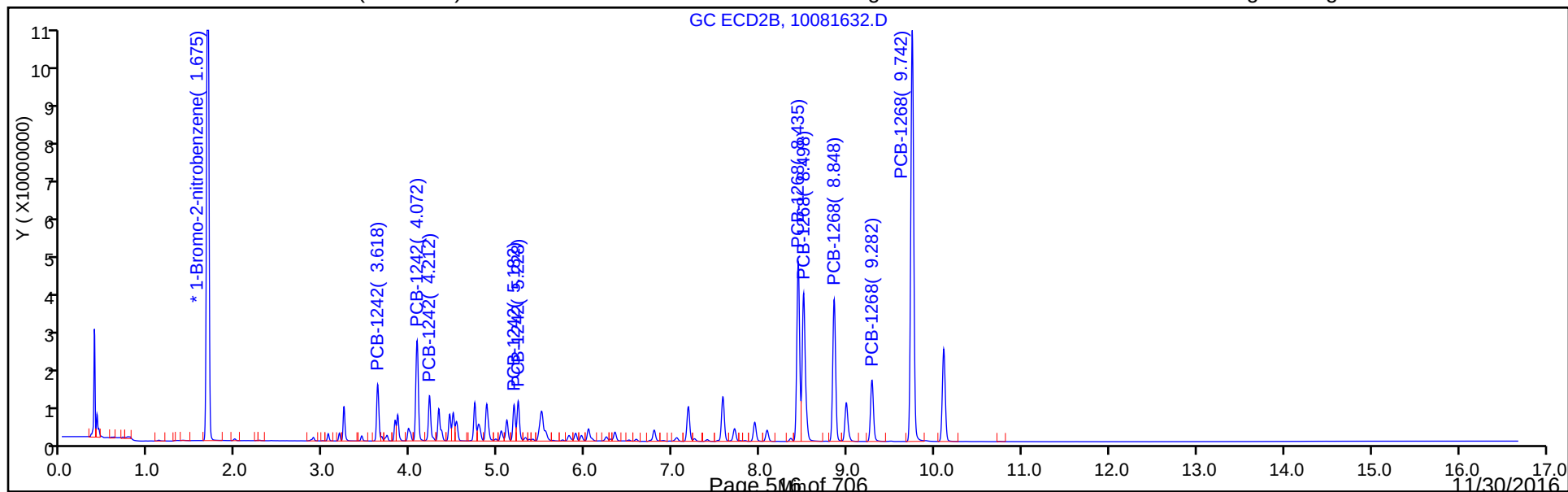
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081633.D
 Lims ID: STDL34268
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 23:12:46 ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL34268
 Misc. Info.: 280-0051591-033
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:21 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.848	0.000	282419645	1000.0	1000.0	
2	1.675	1.675	0.000	265106753	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.548	3.545	0.003	11661763	100.0	106.4	
1	4.018	4.018	0.000	23821854	100.0	102.6	
1	4.161	4.162	-0.001	10854484	100.0	104.2	
1	5.118	5.115	0.003	7500410	100.0	98.6	
1	5.141	5.142	-0.001	8542661	100.0	106.3	
Average of Peak Amounts =						103.6	
2	3.618	3.619	-0.001	11499173	100.0	104.8	
2	4.072	4.072	0.000	22656168	100.0	103.9	
2	4.212	4.215	-0.003	9766916	100.0	105.8	
2	5.182	5.182	0.000	7204125	100.0	101.1	
2	5.228	5.229	-0.001	8657905	100.0	101.7	
Average of Peak Amounts =						103.5	
RPD = 0.16							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081633.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	50306954	100.0	99.7
1	8.278	8.275	0.003	50453857	100.0	105.1
1	8.551	8.548	0.003	42071016	100.0	101.8
1	9.061	9.062	-0.001	21145381	100.0	102.8
1	9.475	9.475	0.000	130067066	100.0	104.0

Average of Peak Amounts = 102.7

2	8.435	8.435	0.000	44221888	100.0	102.5
2	8.498	8.499	-0.001	42105190	100.0	104.1
2	8.848	8.849	-0.001	35710759	100.0	102.3
2	9.282	9.279	0.003	15763254	100.0	102.9
2	9.742	9.742	0.000	107211093	100.0	104.1

Average of Peak Amounts = 103.2

RPD = 0.47

S 8 Polychlorinated biphenyls, Total

1	206.3
2	206.7

RPD = 0.15

Reagents:

AR_4268_L3_00015

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:21

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081633.D

Injection Date: 08-Oct-2016 23:12:46

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD134268

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

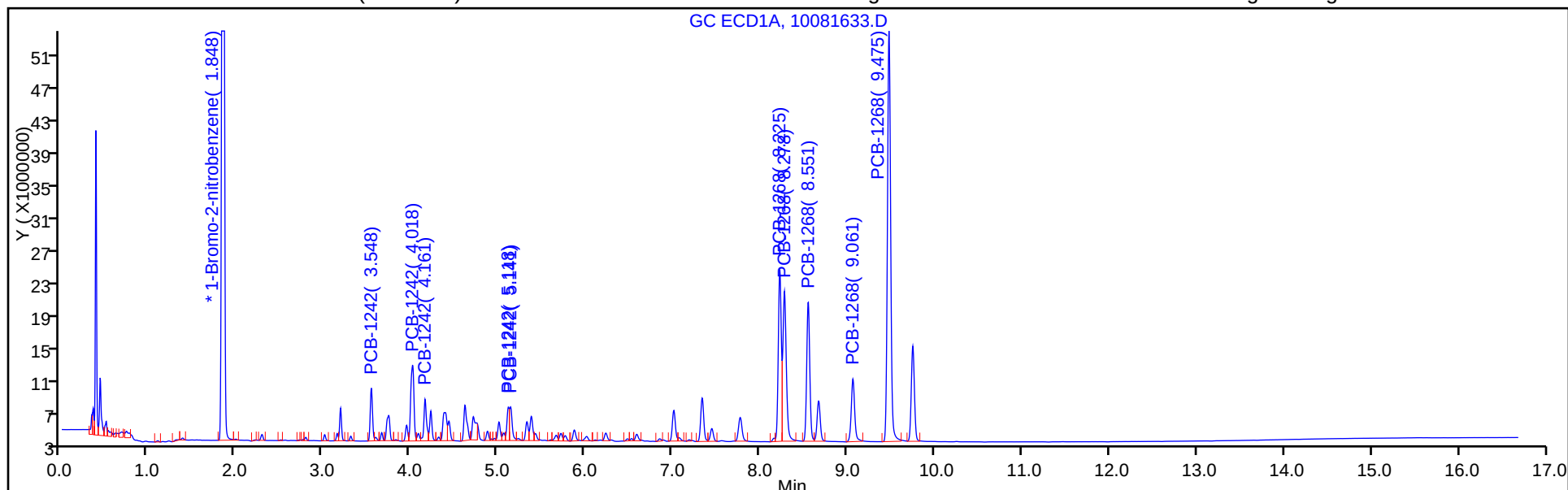
ALS Bottle#: 33

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

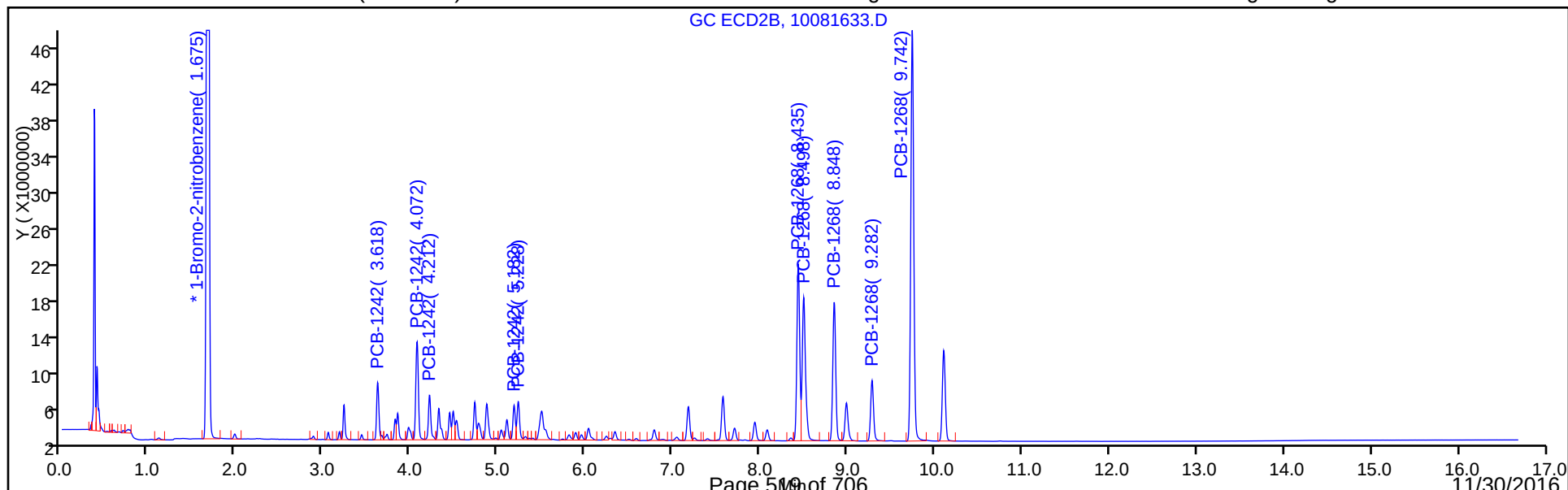
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081634.D
 Lims ID: STDL24268
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 23:34:22 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL24268
 Misc. Info.: 280-0051591-034
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:22 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	280736237	1000.0	1000.0	
2	1.674	1.675	-0.001	264021785	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.547	3.545	0.002	6558220	50.0	52.5	
1	4.020	4.018	0.002	13122587	50.0	51.7	
1	4.163	4.162	0.001	6082088	50.0	53.0	
1	5.117	5.115	0.002	3850975	50.0	48.4	
1	5.140	5.142	-0.002	4688162	50.0	54.3	
Average of Peak Amounts =							52.0
2	3.620	3.619	0.001	6346502	50.0	50.6	
2	4.070	4.072	-0.002	12130601	50.0	50.9	
2	4.214	4.215	-0.001	5190521	50.0	51.2	
2	5.180	5.182	-0.002	3741993	50.0	50.0	
2	5.230	5.229	0.001	4678487	50.0	51.6	

Average of Peak Amounts =

50.8
RPD = 2.19

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081634.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.223	8.225	-0.002	28015758	50.0	51.6
1	8.277	8.275	0.002	26914135	50.0	50.7
1	8.550	8.548	0.002	22895628	50.0	51.0
1	9.060	9.062	-0.002	12931307	50.0	56.4
1	9.477	9.475	0.002	70639126	50.0	51.4

Average of Peak Amounts = 52.2

2	8.437	8.435	0.002	23784497	50.0	51.0
2	8.497	8.499	-0.002	22776150	50.0	51.6
2	8.847	8.849	-0.002	19231999	50.0	51.1
2	9.280	9.279	0.001	8382456	50.0	51.2
2	9.740	9.742	-0.002	58089236	50.0	51.4

Average of Peak Amounts = 51.3

RPD = 1.83

S 8 Polychlorinated biphenyls, Total

1	104.2
2	102.1

RPD = 2.01

Reagents:

AR_4268_L2_00015

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:22

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081634.D

Injection Date: 08-Oct-2016 23:34:22

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD L24268

Worklist Smp#: 34

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

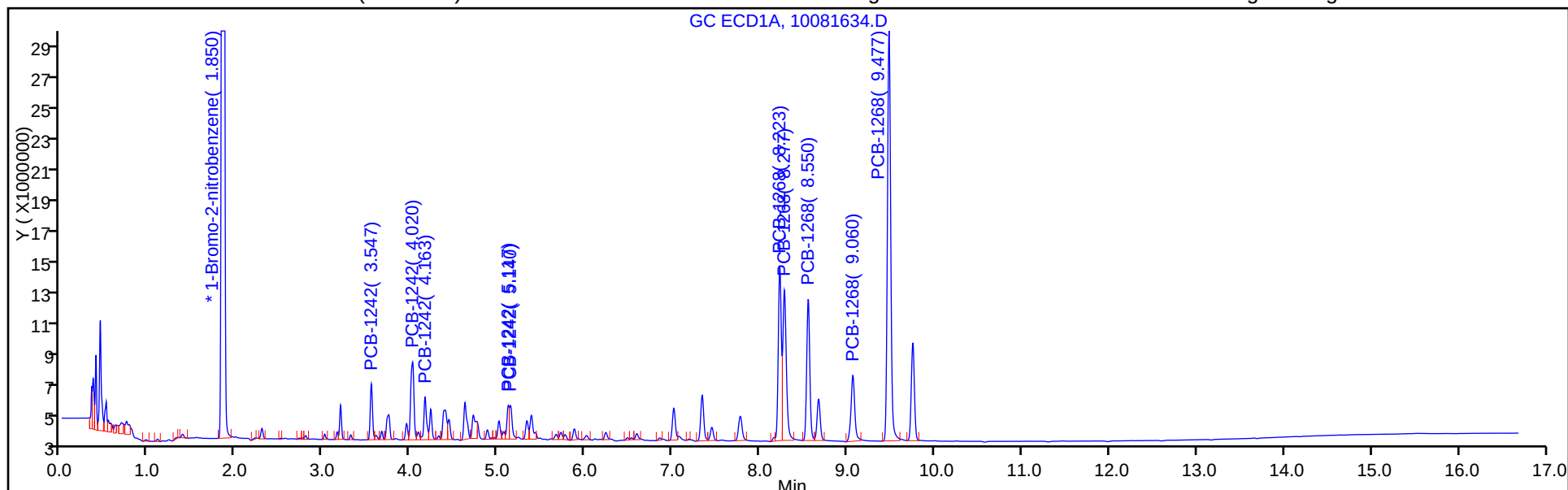
ALS Bottle#: 34

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

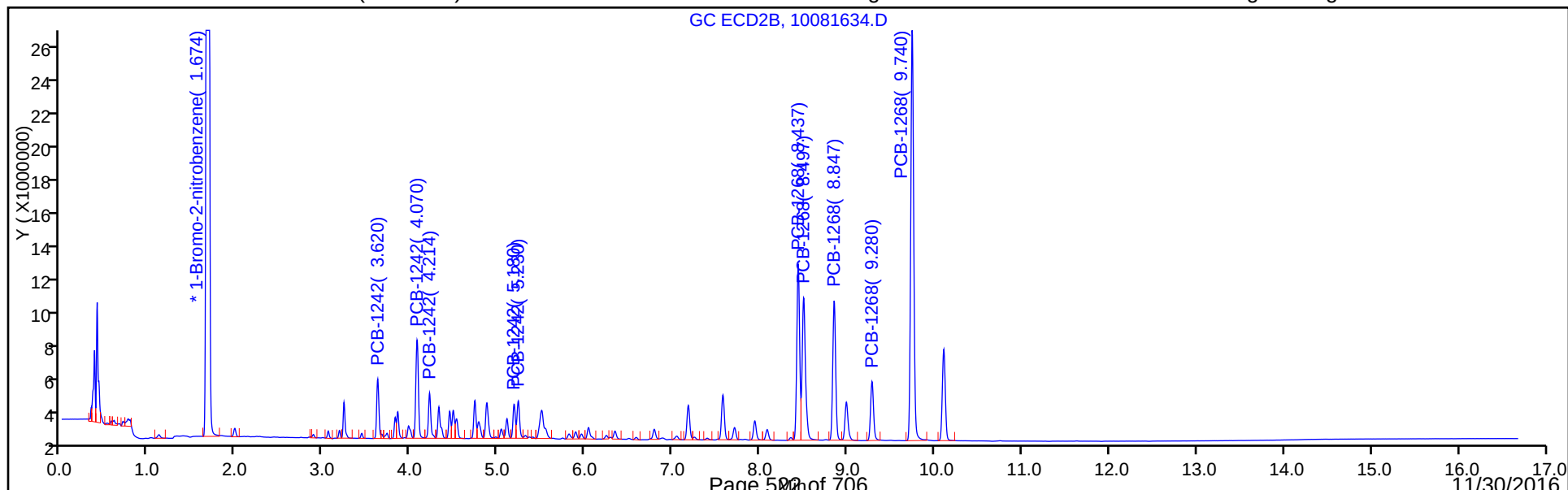
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Lims ID: STDL14268
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 23:55:59 ALS Bottle#: 35 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL14268
 Misc. Info.: 280-0051591-035
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	282497640	1000.0	1000.0	
2	1.673	1.675	-0.002	265966776	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.547	3.545	0.002	3580800	25.0	20.3	
1	4.020	4.018	0.002	7065428	25.0	22.3	
1	4.163	4.162	0.001	3180174	25.0	21.3	
1	5.117	5.115	0.002	2224400	25.0	25.5	
1	5.140	5.142	-0.002	2207797	25.0	20.2	
Average of Peak Amounts =						21.9	
2	3.620	3.619	0.001	3648920	25.0	21.7	
2	4.070	4.072	-0.002	6528183	25.0	22.1	
2	4.213	4.215	-0.002	2795543	25.0	22.1	
2	5.183	5.182	0.001	1958049	25.0	23.3	
2	5.230	5.229	0.001	2448251	25.0	23.0	
Average of Peak Amounts =						22.4	
RPD = 2.34							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.227	8.225	0.002	15097445	25.0	23.1	
1	8.277	8.275	0.002	14729590	25.0	21.9	
1	8.550	8.548	0.002	12444447	25.0	22.8	
1	9.063	9.062	0.001	6583001	25.0	19.8	
1	9.477	9.475	0.002	37817020	25.0	21.7	

Average of Peak Amounts = 21.9

2	8.437	8.435	0.002	12672985	25.0	22.6	
2	8.497	8.499	-0.002	12014734	25.0	21.9	
2	8.847	8.849	-0.002	10264654	25.0	22.7	
2	9.280	9.279	0.001	4363993	25.0	22.6	
2	9.740	9.742	-0.002	31133720	25.0	21.9	

Average of Peak Amounts = 22.4

RPD = 2.26

S 8 Polychlorinated biphenyls, Total

1						43.8	
2						44.8	

RPD = 2.30

Reagents:

AR_4268_L1_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:24

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Injection Date: 08-Oct-2016 23:55:59

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD14268

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

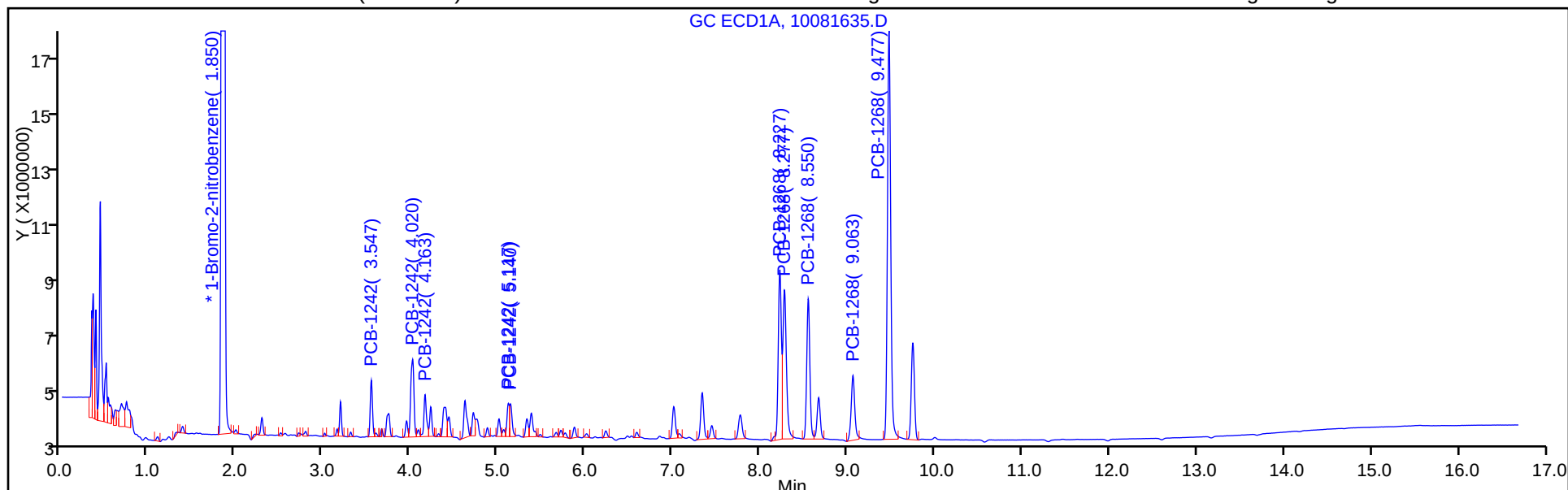
ALS Bottle#: 35

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

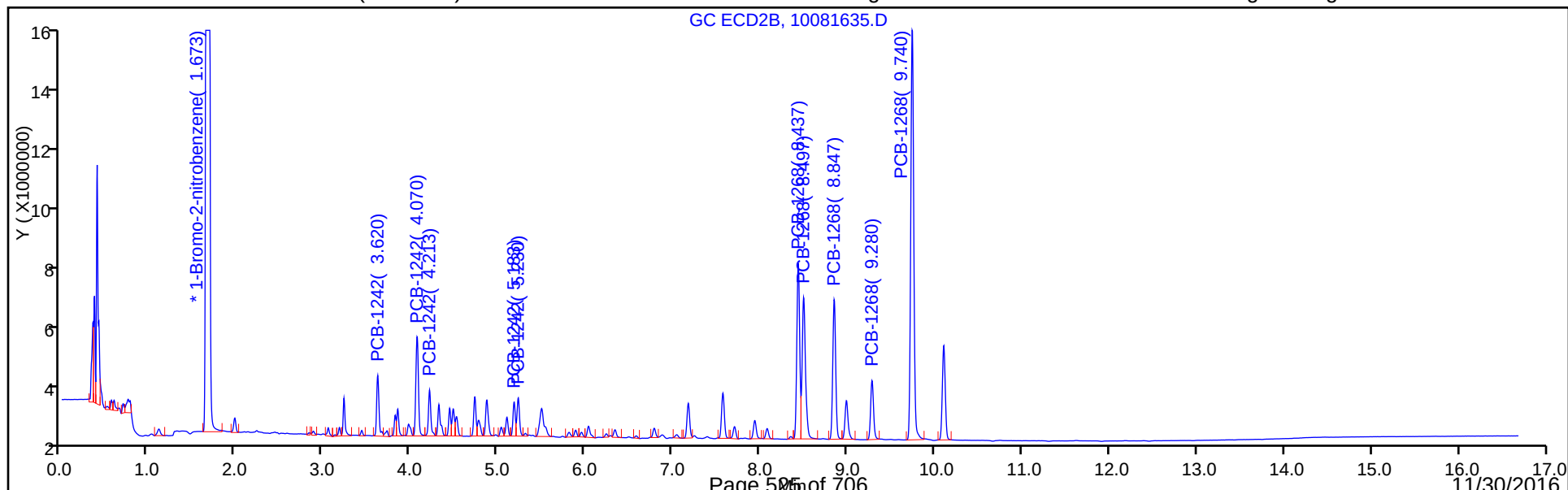
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 21:46 Calibration End Date: 10/08/2016 23:55 Calibration ID: 27256

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD14268 280-345281/35	10081635.D
Level 2	STD124268 280-345281/34	10081634.D
Level 3	STD134268 280-345281/33	10081633.D
Level 4	STD144268 280-345281/32	10081632.D
Level 5	STD154268 280-345281/31	10081631.D
Level 6	STD164268 280-345281/30	10081630.D
Level 7	STD174268 280-345281/29	10081629.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.5488 0.3588	0.4808 0.3482	0.4338	0.4014	0.3944	Lin1	5.9966	0.3566							0.9970		0.9900
PCB-1242 Peak 2	0.9818 0.7454	0.9189 0.7258	0.8546	0.8048	0.8153	Lin1	8.0486	0.7452							0.9980		0.9900
PCB-1242 Peak 3	0.4204 0.3181	0.3932 0.3114	0.3684	0.3418	0.3271	Lin1	3.5703	0.3144							0.9990		0.9900
PCB-1242 Peak 4	0.2945 0.2548	0.2835 0.2462	0.2717	0.2681	0.2766	Lin1	1.4389	0.2547							0.9980		0.9900
PCB-1242 Peak 5	0.3682 0.2954	0.3544 0.2962	0.3266	0.3144	0.3148	Lin1	2.3600	0.2979							0.9990		0.9900
PCB-1268 Peak 1	1.9060 1.4881	1.8017 1.4580	1.6681	1.5928	1.6181	Lin1	14.008	1.4908							0.9980		0.9900
PCB-1268 Peak 2	1.8070 1.3888	1.7253 1.3521	1.5882	1.4884	1.4938	Lin1	14.860	1.3828							0.9980		0.9900
PCB-1268 Peak 3	1.5437 1.2072	1.4568 1.1831	1.3470	1.2813	1.3045	Lin1	11.151	1.2072							0.9980		0.9900
PCB-1268 Peak 4	0.6563 0.5355	0.6350 0.5261	0.5946	0.5661	0.5764	Lin1	4.2693	0.5365							0.9990		0.9900
PCB-1268 Peak 5	4.6823 3.5028	4.4003 3.4208	4.0441	3.7913	3.7922	Lin1	40.410	3.4955							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-90775-1 Analy Batch No.: 345281

SDG No.: _____

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2016 21:46 Calibration End Date: 10/08/2016 23:55 Calibration ID: 27256

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD14268 280-345281/35	10081635.D
Level 2	STD124268 280-345281/34	10081634.D
Level 3	STD134268 280-345281/33	10081633.D
Level 4	STD144268 280-345281/32	10081632.D
Level 5	STD154268 280-345281/31	10081631.D
Level 6	STD164268 280-345281/30	10081630.D
Level 7	STD174268 280-345281/29	10081629.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Lin1	3648920 70501133	6346502 89264201	11499173	26687432	52870729	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 2	BNB	Lin1	6528183 146475301	12130601 186087835	22656168	53506405	109307821	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 3	BNB	Lin1	2795543 62507152	5190521 79848524	9766916	22724012	43846002	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 4	BNB	Lin1	1958049 50063531	3741993 63118095	7204125	17823536	37078013	25.0 750	50.0 1000	100	250	500
PCB-1242 Peak 5	BNB	Lin1	2448251 58056678	4678487 75935069	8657905	20901201	42203600	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 1	BNB	Lin1	12672985 292430350	23784497 373823171	44221888	105902328	216930005	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 2	BNB	Lin1	12014734 272917256	22776150 346676715	42105190	98957700	200262369	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 3	BNB	Lin1	10264654 237233644	19231999 303349558	35710759	85189683	174885272	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 4	BNB	Lin1	4363993 105234233	8382456 134882163	15763254	37641894	77273759	25.0 750	50.0 1000	100	250	500
PCB-1268 Peak 5	BNB	Lin1	31133720 688341491	58089236 877060976	107211093	252075338	508390166	25.0 750	50.0 1000	100	250	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081629.D
 Lims ID: STDL74268
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Oct-2016 21:46:14 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL74268
 Misc. Info.: 280-0051591-029
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:13 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.850	-0.001	269329949	1000.0	1000.0	
2	1.676	1.674	0.002	256392346	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.545	3.545	0.000	87356528	1000.0	958.1	
1	4.019	4.018	0.001	195399840	1000.0	970.4	
1	4.162	4.162	0.000	86971394	1000.0	972.8	
1	5.115	5.115	0.000	68690383	1000.0	993.2	
1	5.139	5.142	-0.003	68607919	1000.0	967.9	
Average of Peak Amounts =						972.5	
2	3.619	3.619	0.000	89264201	1000.0	959.5	
2	4.069	4.072	-0.003	186087835	1000.0	963.2	
2	4.212	4.215	-0.003	79848524	1000.0	979.2	
2	5.179	5.182	-0.003	63118095	1000.0	961.1	
2	5.229	5.229	0.000	75935069	1000.0	986.4	
Average of Peak Amounts =						969.9	
RPD = 0.27							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081629.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.222	8.225	-0.003	429391784	1000.0	970.4	
1	8.275	8.275	0.000	397972569	1000.0	959.4	
1	8.549	8.548	0.001	349588195	1000.0	966.8	
1	9.062	9.062	0.000	164181181	1000.0	964.5	
1	9.475	9.475	0.000	1036571157	1000.0	957.9	

Average of Peak Amounts = 963.8

2	8.436	8.435	0.001	373823171	1000.0	968.6	
2	8.499	8.499	0.000	346676715	1000.0	967.1	
2	8.849	8.849	0.000	303349558	1000.0	970.8	
2	9.282	9.279	0.003	134882163	1000.0	972.6	
2	9.742	9.742	0.000	877060976	1000.0	967.1	

Average of Peak Amounts = 969.2

RPD = 0.56

S 8 Polychlorinated biphenyls, Total

1	1936.3
2	1939.1

RPD = 0.15

Reagents:

AR_4268_L7_00011

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:14

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081629.D

Injection Date: 08-Oct-2016 21:46:14

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD74268

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

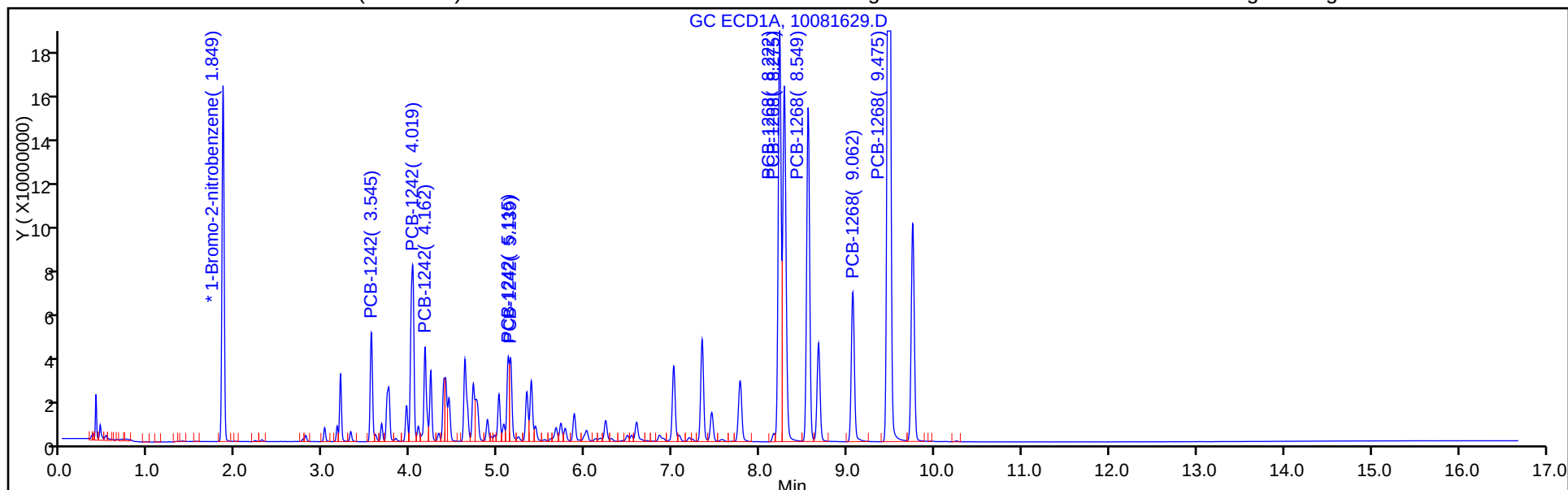
ALS Bottle#: 29

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

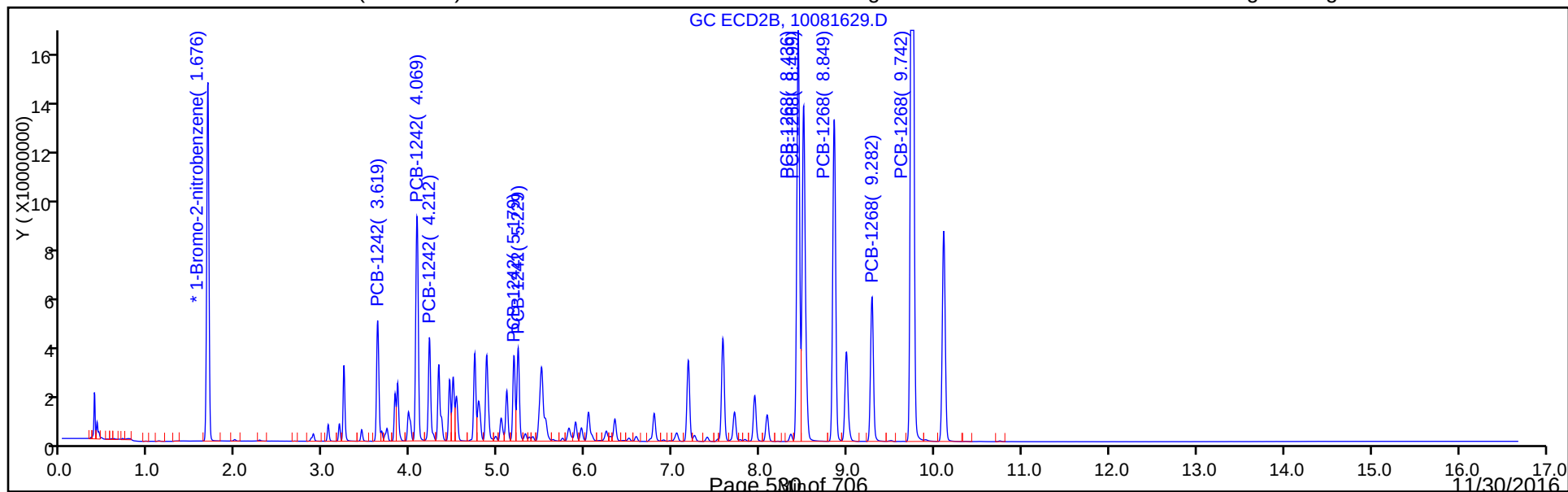
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081630.D
 Lims ID: STDL64268
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Oct-2016 22:07:51 ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL64268
 Misc. Info.: 280-0051591-030
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:15 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.850	-0.002	275899324	1000.0	1000.0	
2	1.675	1.674	0.001	262013683	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.548	3.545	0.003	69419054	750.0	739.2	
1	4.018	4.018	0.000	153406856	750.0	741.0	
1	4.161	4.162	-0.001	67813090	750.0	737.3	
1	5.115	5.115	0.000	51924510	750.0	731.5	
1	5.141	5.142	-0.001	54216963	750.0	744.4	
Average of Peak Amounts =						738.7	
2	3.618	3.619	-0.001	70501133	750.0	737.7	
2	4.072	4.072	0.000	146475301	750.0	739.4	
2	4.212	4.215	-0.003	62507152	750.0	747.5	
2	5.182	5.182	0.000	50063531	750.0	744.7	
2	5.228	5.229	-0.001	58056678	750.0	736.0	
Average of Peak Amounts =						741.0	
RPD = 0.32							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081630.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	336228569	750.0	739.5	
1	8.278	8.275	0.003	319082846	750.0	748.2	
1	8.548	8.548	0.000	276474927	750.0	744.0	
1	9.061	9.062	-0.001	129790165	750.0	740.2	
1	9.475	9.475	0.000	829480250	750.0	745.6	

Average of Peak Amounts = 743.5

2	8.435	8.435	0.000	292430350	750.0	739.3	
2	8.498	8.499	-0.001	272917256	750.0	742.5	
2	8.848	8.849	-0.001	237233644	750.0	740.8	
2	9.278	9.279	-0.001	105234233	750.0	740.6	
2	9.742	9.742	0.000	688341491	750.0	740.0	

Average of Peak Amounts = 740.6

RPD = 0.39

S 8 Polychlorinated biphenyls, Total

1	1482.2
2	1481.7

RPD = 0.03

Reagents:

AR_4268_L6_00013

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:16

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081630.D

Injection Date: 08-Oct-2016 22:07:51

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD64268

Worklist Smp#: 30

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

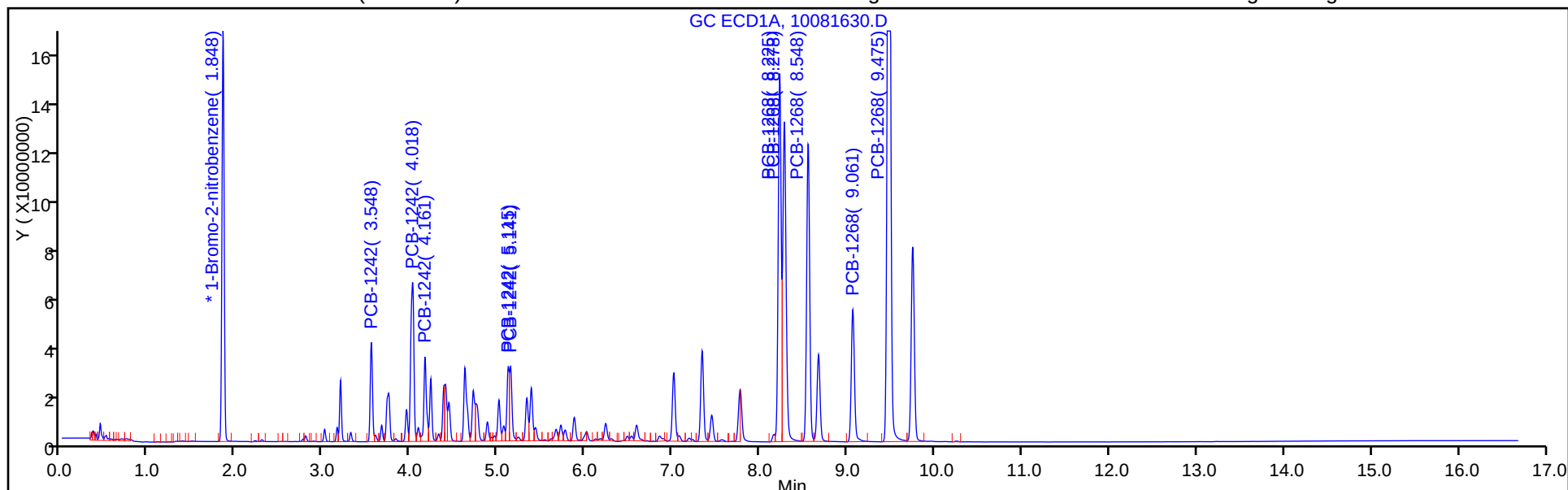
ALS Bottle#: 30

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

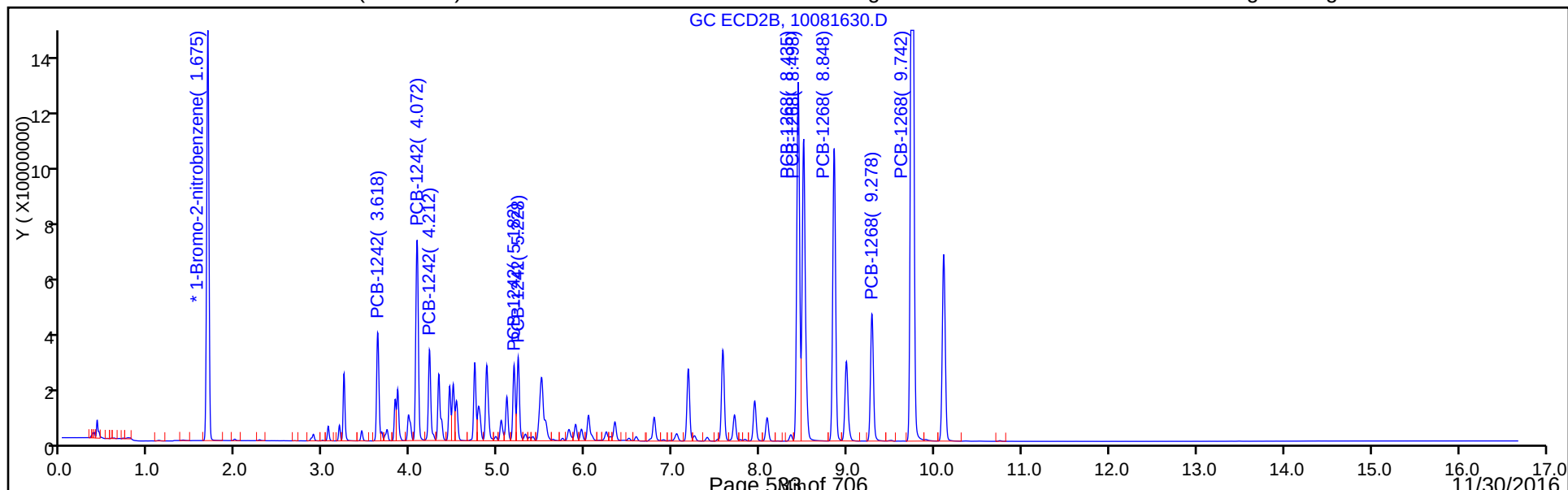
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081631.D
 Lims ID: STDL54268
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Oct-2016 22:29:30 ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL54268
 Misc. Info.: 280-0051591-031
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:17 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:01:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.848	0.000	281608897	1000.0	1000.0	
2	1.675	1.675	0.000	268125441	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.545	3.545	0.000	51450818	500.0	531.9	
1	4.018	4.018	0.000	112452480	500.0	528.9	
1	4.162	4.162	0.000	49846863	500.0	527.3	
1	5.115	5.115	0.000	38221302	500.0	526.1	
1	5.142	5.142	0.000	39028926	500.0	522.1	
Average of Peak Amounts =						527.3	
2	3.619	3.619	0.000	52870729	500.0	536.1	
2	4.072	4.072	0.000	109307821	500.0	536.3	
2	4.215	4.215	0.000	43846002	500.0	508.8	
2	5.182	5.182	0.000	37078013	500.0	537.4	
2	5.229	5.229	0.000	42203600	500.0	520.5	
Average of Peak Amounts =						527.8	
RPD = 0.11							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081631.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	249880822	500.0	535.8	
1	8.275	8.275	0.000	231844422	500.0	529.1	
1	8.548	8.548	0.000	202901087	500.0	532.1	
1	9.062	9.062	0.000	96049474	500.0	531.8	
1	9.475	9.475	0.000	608556671	500.0	532.6	

Average of Peak Amounts = 532.3

2	8.435	8.435	0.000	216930005	500.0	533.3	
2	8.499	8.499	0.000	200262369	500.0	529.4	
2	8.849	8.849	0.000	174885272	500.0	531.1	
2	9.279	9.279	0.000	77273759	500.0	529.2	
2	9.742	9.742	0.000	508390166	500.0	530.9	

Average of Peak Amounts = 530.8

RPD = 0.28

Reagents:

AR_4268_L5_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:18

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081631.D

Injection Date: 08-Oct-2016 22:29:30

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD154268

Worklist Smp#: 31

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

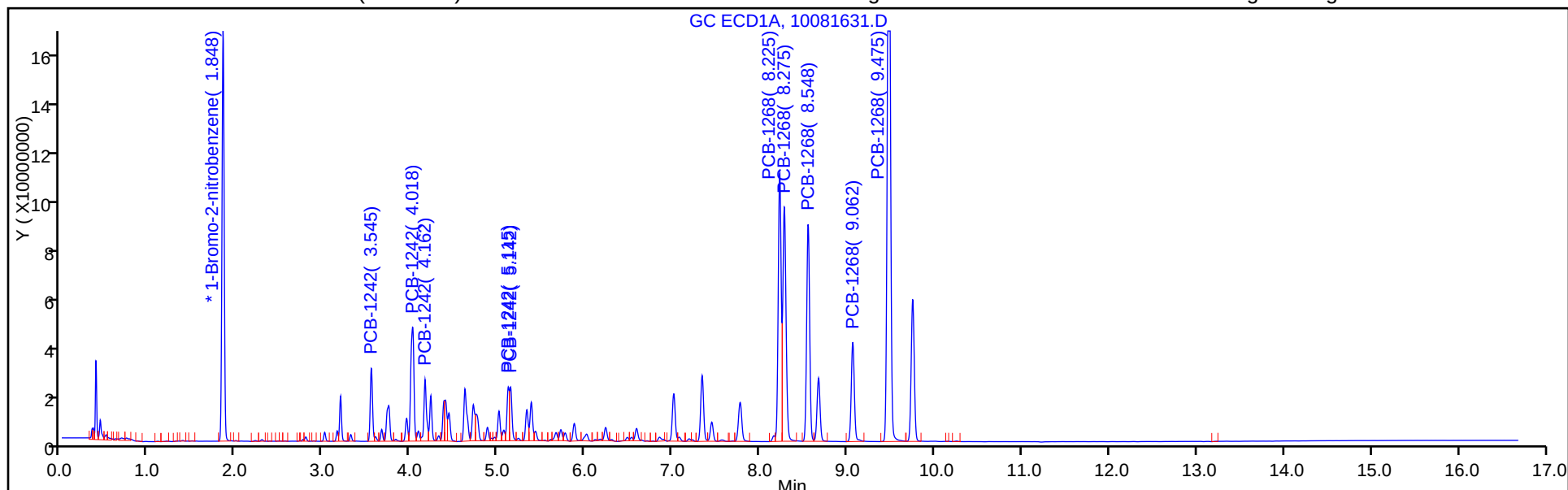
ALS Bottle#: 31

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

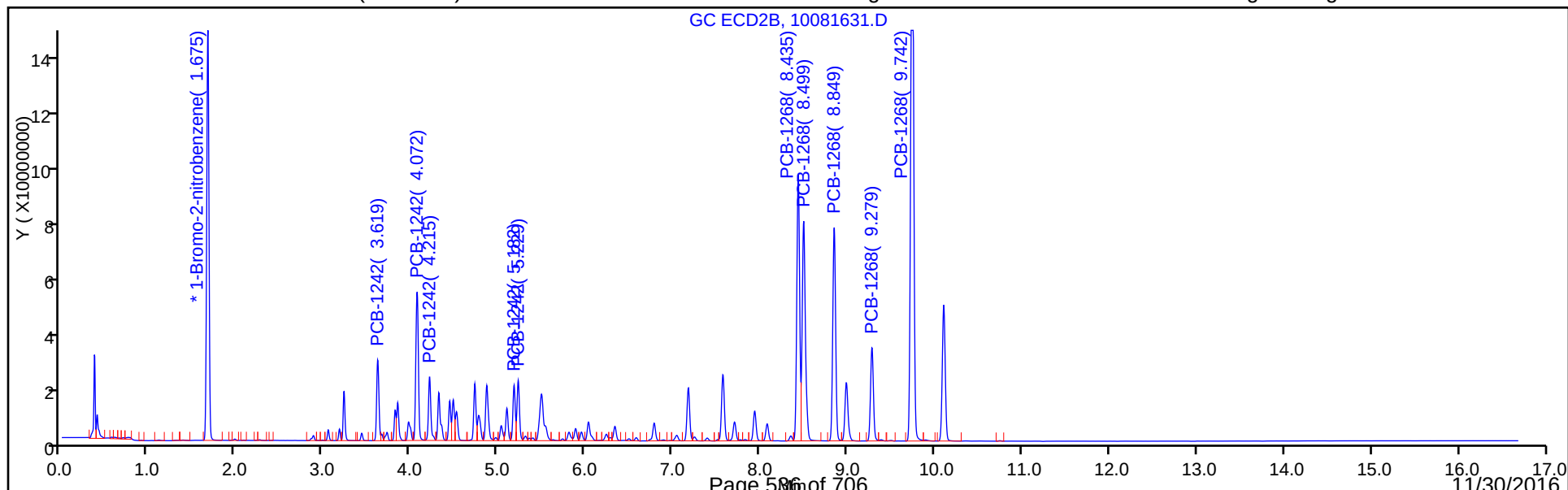
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081632.D
 Lims ID: STDL44268
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Oct-2016 22:51:08 ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL44268
 Misc. Info.: 280-0051591-032
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:19 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.848	0.000	280821791	1000.0	1000.0	
2	1.675	1.675	0.000	265950856	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.545	3.545	0.000	26551198	250.0	266.6	
1	4.018	4.018	0.000	55939284	250.0	258.1	
1	4.162	4.162	0.000	25042229	250.0	259.1	
1	5.115	5.115	0.000	18439990	250.0	251.7	
1	5.138	5.142	-0.004	19727832	250.0	259.8	
Average of Peak Amounts =						259.1	
2	3.618	3.619	-0.001	26687432	250.0	264.6	
2	4.072	4.072	0.000	53506405	250.0	259.2	
2	4.212	4.215	-0.003	22724012	250.0	260.4	
2	5.182	5.182	0.000	17823536	250.0	257.5	
2	5.228	5.229	-0.001	20901201	250.0	255.9	
Average of Peak Amounts =						259.5	
RPD = 0.17							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081632.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	120890328	250.0	254.9	
1	8.275	8.275	0.000	116513744	250.0	260.5	
1	8.548	8.548	0.000	99511065	250.0	256.4	
1	9.062	9.062	0.000	48330101	250.0	259.5	
1	9.475	9.475	0.000	305165035	250.0	261.8	

Average of Peak Amounts = 258.6

2	8.435	8.435	0.000	105902328	250.0	257.7	
2	8.498	8.499	-0.001	98957700	250.0	258.3	
2	8.848	8.849	-0.001	85189683	250.0	256.1	
2	9.282	9.279	0.003	37641894	250.0	255.8	
2	9.742	9.742	0.000	252075338	250.0	259.6	

Average of Peak Amounts = 257.5

RPD = 0.43

S 8 Polychlorinated biphenyls, Total

1	517.7	
2	517.0	

RPD = 0.13

Reagents:

AR_4268_L4_00018

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:19

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081632.D

Injection Date: 08-Oct-2016 22:51:08

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD44268

Worklist Smp#: 32

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

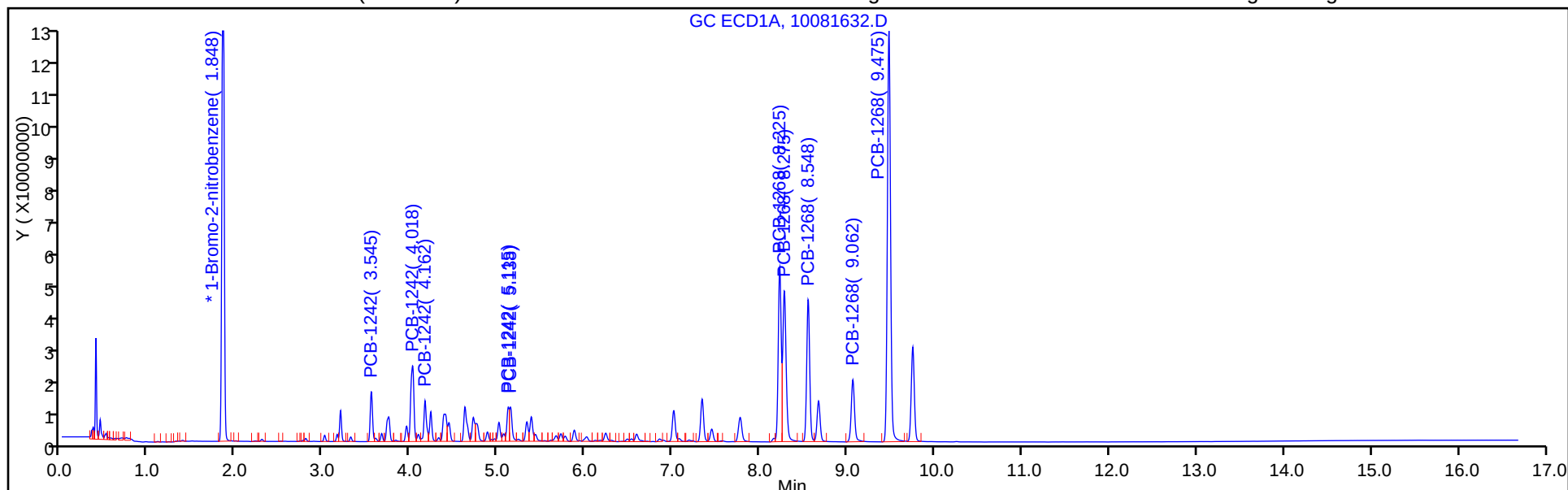
ALS Bottle#: 32

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

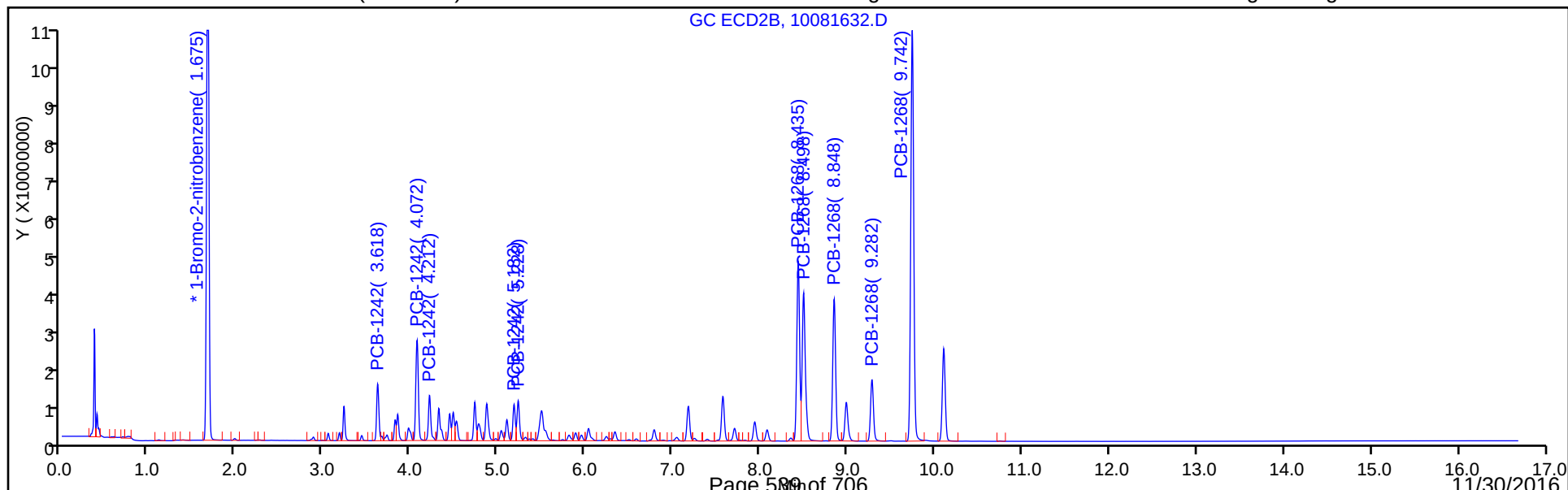
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081633.D
 Lims ID: STDL34268
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Oct-2016 23:12:46 ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL34268
 Misc. Info.: 280-0051591-033
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:21 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.848	1.848	0.000	282419645	1000.0	1000.0
2	1.675	1.675	0.000	265106753	1000.0	1000.0

RPD = 0.00

10 PCB-1242

1	3.548	3.545	0.003	11661763	100.0	106.4
1	4.018	4.018	0.000	23821854	100.0	102.6
1	4.161	4.162	-0.001	10854484	100.0	104.2
1	5.118	5.115	0.003	7500410	100.0	98.6
1	5.141	5.142	-0.001	8542661	100.0	106.3

Average of Peak Amounts = 103.6

2	3.618	3.619	-0.001	11499173	100.0	104.8
2	4.072	4.072	0.000	22656168	100.0	103.9
2	4.212	4.215	-0.003	9766916	100.0	105.8
2	5.182	5.182	0.000	7204125	100.0	101.1
2	5.228	5.229	-0.001	8657905	100.0	101.7

Average of Peak Amounts = 103.5

RPD = 0.16

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081633.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.225	8.225	0.000	50306954	100.0	99.7	
1	8.278	8.275	0.003	50453857	100.0	105.1	
1	8.551	8.548	0.003	42071016	100.0	101.8	
1	9.061	9.062	-0.001	21145381	100.0	102.8	
1	9.475	9.475	0.000	130067066	100.0	104.0	

Average of Peak Amounts = 102.7

2	8.435	8.435	0.000	44221888	100.0	102.5	
2	8.498	8.499	-0.001	42105190	100.0	104.1	
2	8.848	8.849	-0.001	35710759	100.0	102.3	
2	9.282	9.279	0.003	15763254	100.0	102.9	
2	9.742	9.742	0.000	107211093	100.0	104.1	

Average of Peak Amounts = 103.2

RPD = 0.47

S 8 Polychlorinated biphenyls, Total

1	206.3	
2	206.7	

RPD = 0.15

Reagents:

AR_4268_L3_00015

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:21

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081633.D

Injection Date: 08-Oct-2016 23:12:46

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD134268

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

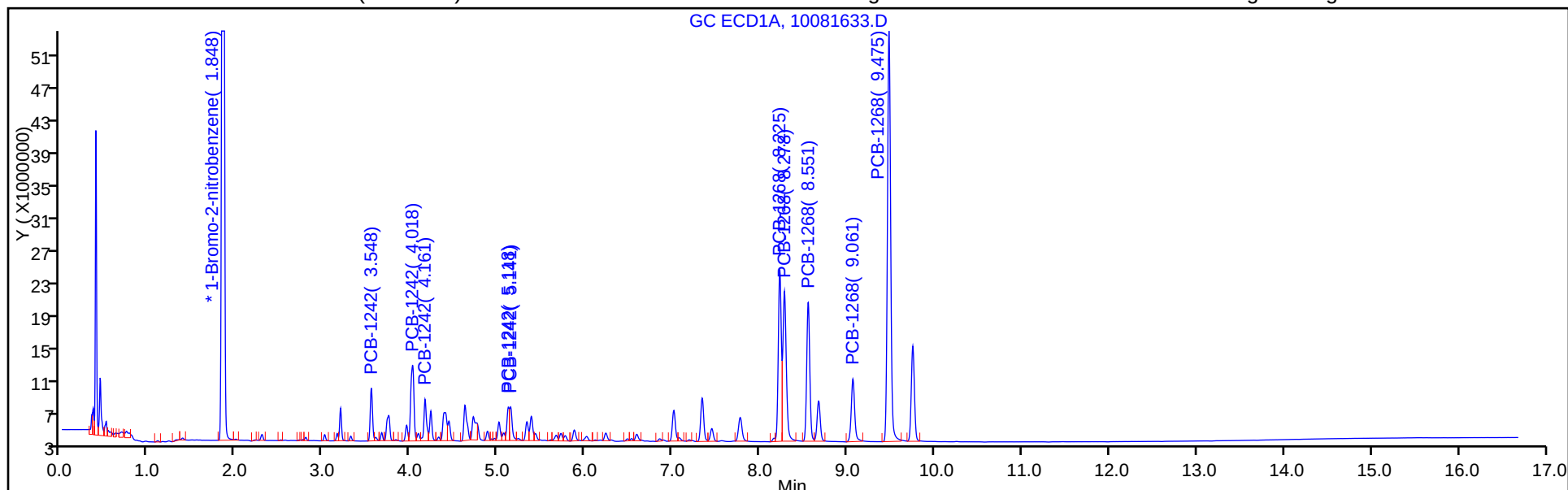
ALS Bottle#: 33

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

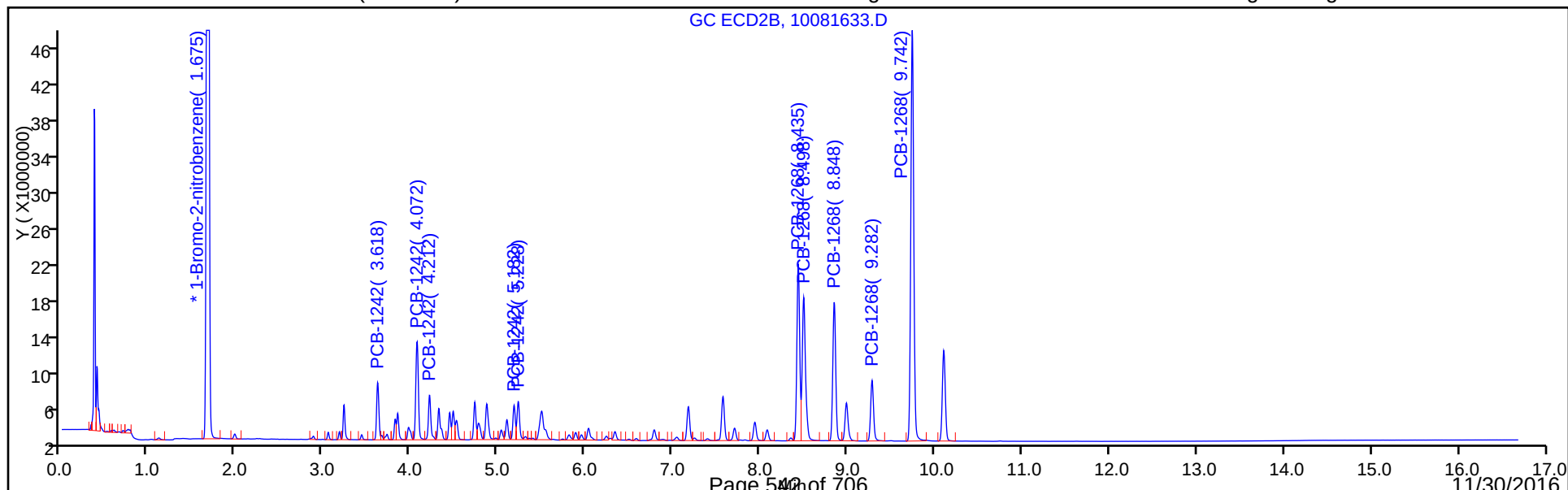
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081634.D
 Lims ID: STDL24268
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Oct-2016 23:34:22 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL24268
 Misc. Info.: 280-0051591-034
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:22 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	280736237	1000.0	1000.0
2	1.674	1.675	-0.001	264021785	1000.0	1000.0

RPD = 0.00

10 PCB-1242

1	3.547	3.545	0.002	6558220	50.0	52.5
1	4.020	4.018	0.002	13122587	50.0	51.7
1	4.163	4.162	0.001	6082088	50.0	53.0
1	5.117	5.115	0.002	3850975	50.0	48.4
1	5.140	5.142	-0.002	4688162	50.0	54.3

Average of Peak Amounts = 52.0

2	3.620	3.619	0.001	6346502	50.0	50.6
2	4.070	4.072	-0.002	12130601	50.0	50.9
2	4.214	4.215	-0.001	5190521	50.0	51.2
2	5.180	5.182	-0.002	3741993	50.0	50.0
2	5.230	5.229	0.001	4678487	50.0	51.6

Average of Peak Amounts = 50.8

RPD = 2.19

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081634.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.223	8.225	-0.002	28015758	50.0	51.6	
1	8.277	8.275	0.002	26914135	50.0	50.7	
1	8.550	8.548	0.002	22895628	50.0	51.0	
1	9.060	9.062	-0.002	12931307	50.0	56.4	
1	9.477	9.475	0.002	70639126	50.0	51.4	

Average of Peak Amounts = 52.2

2	8.437	8.435	0.002	23784497	50.0	51.0	
2	8.497	8.499	-0.002	22776150	50.0	51.6	
2	8.847	8.849	-0.002	19231999	50.0	51.1	
2	9.280	9.279	0.001	8382456	50.0	51.2	
2	9.740	9.742	-0.002	58089236	50.0	51.4	

Average of Peak Amounts = 51.3

RPD = 1.83

S 8 Polychlorinated biphenyls, Total

1	104.2
2	102.1

RPD = 2.01

Reagents:

AR_4268_L2_00015

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:23

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081634.D

Injection Date: 08-Oct-2016 23:34:22

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD L24268

Worklist Smp#: 34

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

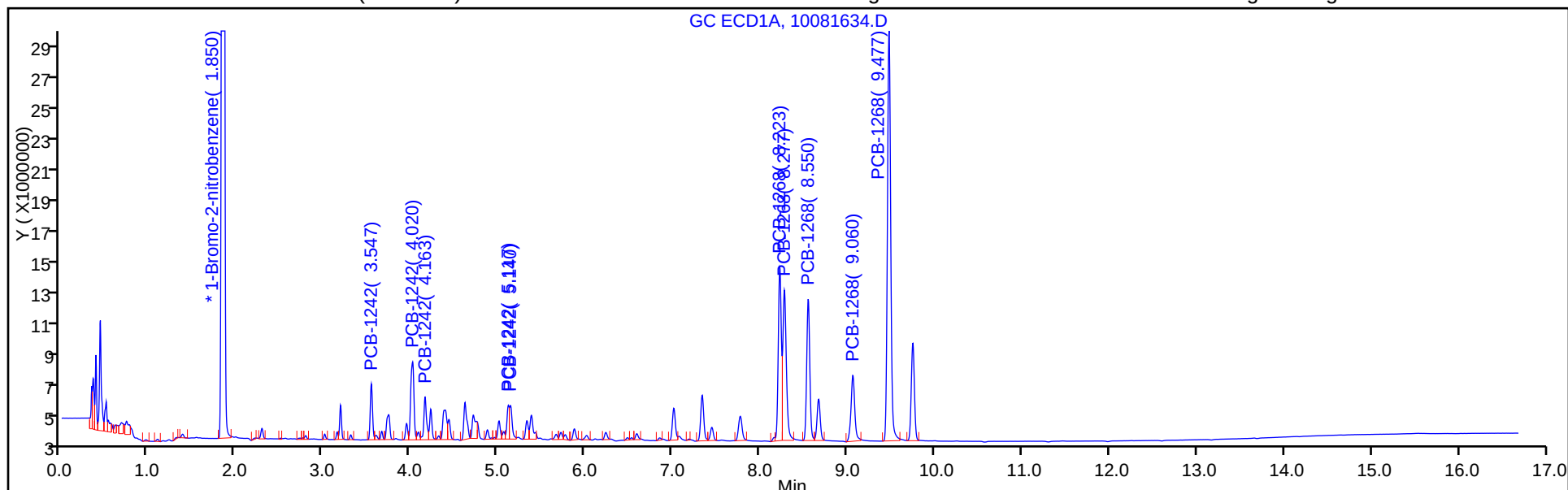
ALS Bottle#: 34

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

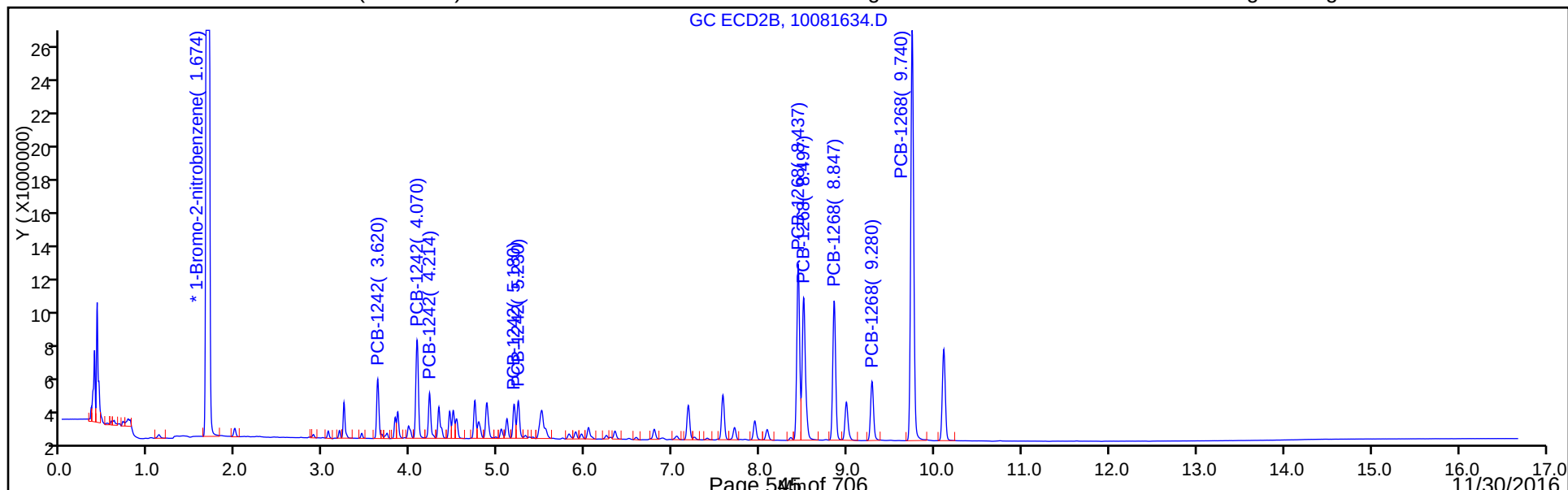
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Lims ID: STDL14268
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Oct-2016 23:55:59 ALS Bottle#: 35 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STDL14268
 Misc. Info.: 280-0051591-035
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub5
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	282497640	1000.0	1000.0	
2	1.673	1.675	-0.002	265966776	1000.0	1000.0	
RPD = 0.00							

10 PCB-1242

1	3.547	3.545	0.002	3580800	25.0	20.3	
1	4.020	4.018	0.002	7065428	25.0	22.3	
1	4.163	4.162	0.001	3180174	25.0	21.3	
1	5.117	5.115	0.002	2224400	25.0	25.5	
1	5.140	5.142	-0.002	2207797	25.0	20.2	
Average of Peak Amounts =						21.9	
2	3.620	3.619	0.001	3648920	25.0	21.7	
2	4.070	4.072	-0.002	6528183	25.0	22.1	
2	4.213	4.215	-0.002	2795543	25.0	22.1	
2	5.183	5.182	0.001	1958049	25.0	23.3	
2	5.230	5.229	0.001	2448251	25.0	23.0	
Average of Peak Amounts =						22.4	
RPD = 2.34							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.227	8.225	0.002	15097445	25.0	23.1	
1	8.277	8.275	0.002	14729590	25.0	21.9	
1	8.550	8.548	0.002	12444447	25.0	22.8	
1	9.063	9.062	0.001	6583001	25.0	19.8	
1	9.477	9.475	0.002	37817020	25.0	21.7	

Average of Peak Amounts = 21.9

2	8.437	8.435	0.002	12672985	25.0	22.6	
2	8.497	8.499	-0.002	12014734	25.0	21.9	
2	8.847	8.849	-0.002	10264654	25.0	22.7	
2	9.280	9.279	0.001	4363993	25.0	22.6	
2	9.740	9.742	-0.002	31133720	25.0	21.9	

Average of Peak Amounts = 22.4

RPD = 2.26

S 8 Polychlorinated biphenyls, Total

1						43.8	
2						44.8	

RPD = 2.30

Reagents:

AR_4268_L1_00016

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:24

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Injection Date: 08-Oct-2016 23:55:59

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: STD14268

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

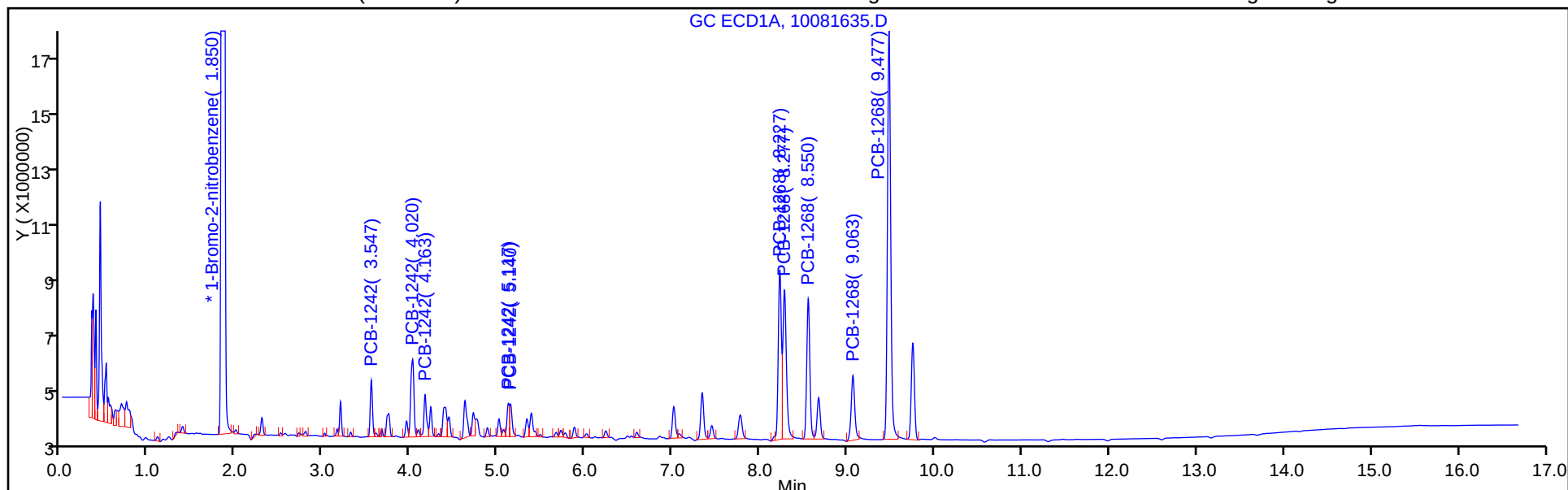
ALS Bottle#: 35

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

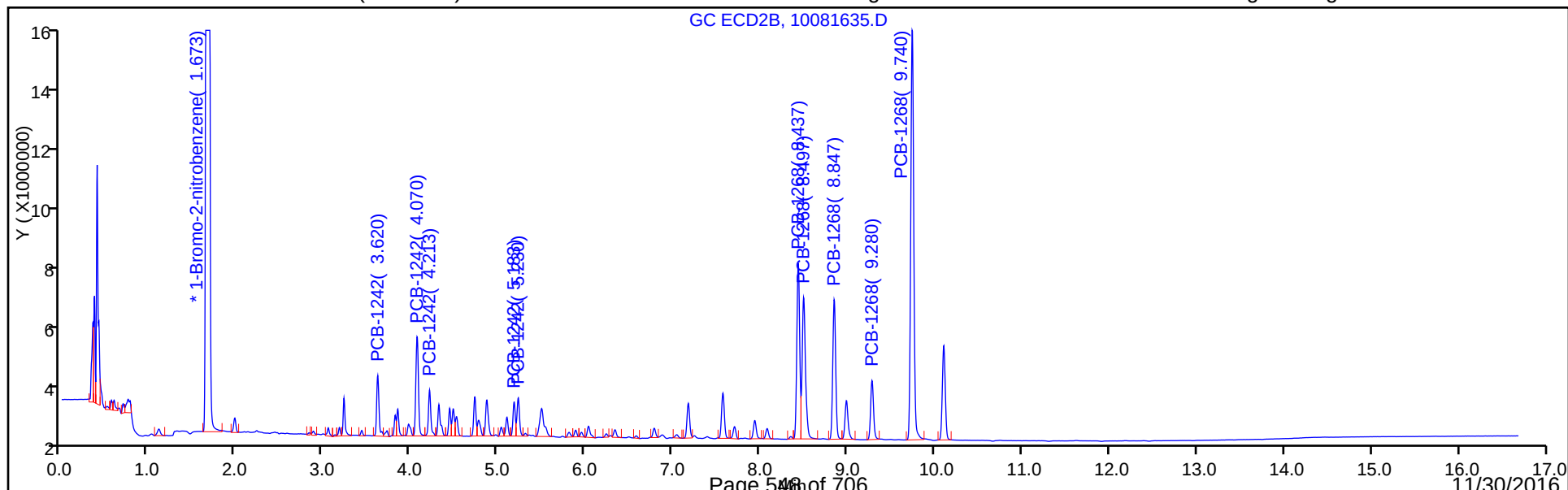
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/36 Calibration Date: 10/09/2016 00:17
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 11:39
GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 13:49
Lab File ID: 10081636.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.5242		252	250	0.6	20.0
PCB-1248 Peak 2	Lin1		0.5589		251	250	0.3	20.0
PCB-1248 Peak 3	Lin1		0.5408		252	250	0.6	20.0
PCB-1248 Peak 4	Lin1		0.4608		232	250	-7.4	20.0
PCB-1248 Peak 5	Lin1		0.4264		277	250	11.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/36 Calibration Date: 10/09/2016 00:17
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 11:39
GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 13:49
Lab File ID: 10081636.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.02	3.77	4.27
PCB-1248 Peak 2	4.38	4.13	4.63
PCB-1248 Peak 3	4.62	4.37	4.87
PCB-1248 Peak 4	5.12	4.87	5.37
PCB-1248 Peak 5	5.14	4.89	5.39

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081636.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 00:17:38 ALS Bottle#: 36 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-036
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:01:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	288872461	1000.0	1000.0	
2	1.673	1.675	-0.002	272622708	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.016	4.016	0.000	37854688	250.0	251.5	
1	4.380	4.379	0.001	40364861	250.0	250.8	
1	4.620	4.619	0.001	39054896	250.0	251.5	
1	5.116	5.116	0.000	33275553	250.0	231.6	
1	5.140	5.139	0.001	30793843	250.0	277.5	
Average of Peak Amounts =						252.6	
2	4.070	4.069	0.001	36228814	250.0	253.4	
2	4.733	4.733	0.000	28215021	250.0	250.8	
2	4.866	4.869	-0.003	31491015	250.0	254.9	
2	5.180	5.183	-0.003	30285935	250.0	249.9	
2	5.226	5.229	-0.003	36229066	250.0	256.8	
Average of Peak Amounts =						253.2	

RPD = 0.22

Reagents:

AR_1248_ICV_00009 Amount Added: 1.00 Units: mL
 BNB IS_00008 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 09-Oct-2016 09:28:26

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081636.D

Injection Date: 09-Oct-2016 00:17:38

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

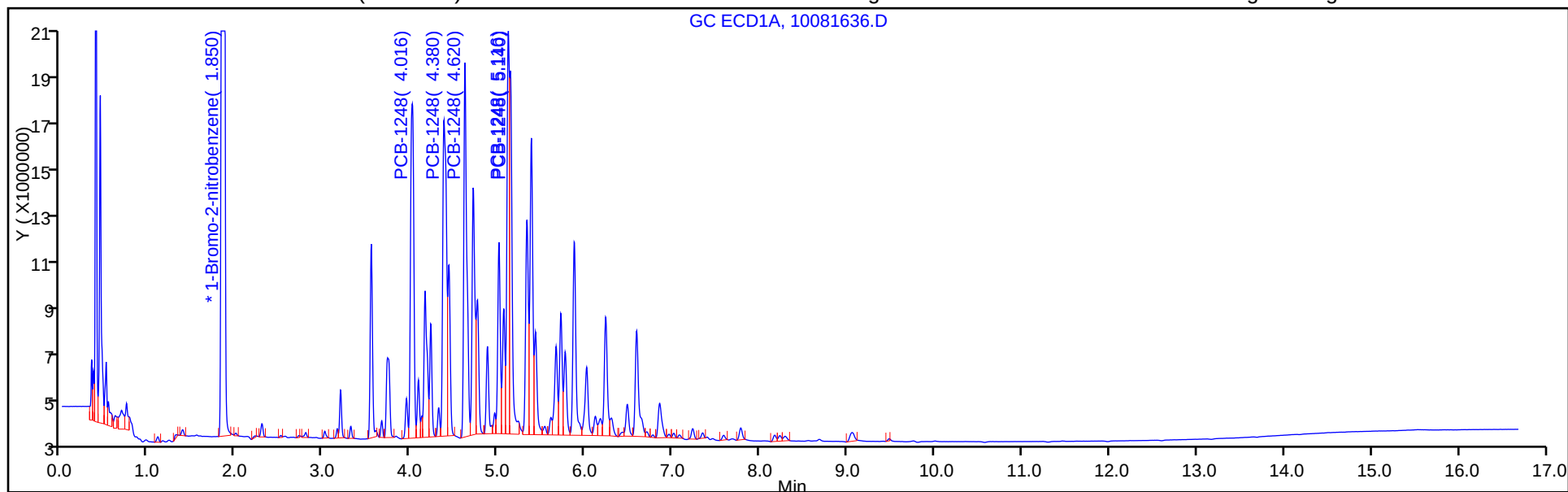
ALS Bottle#: 36

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

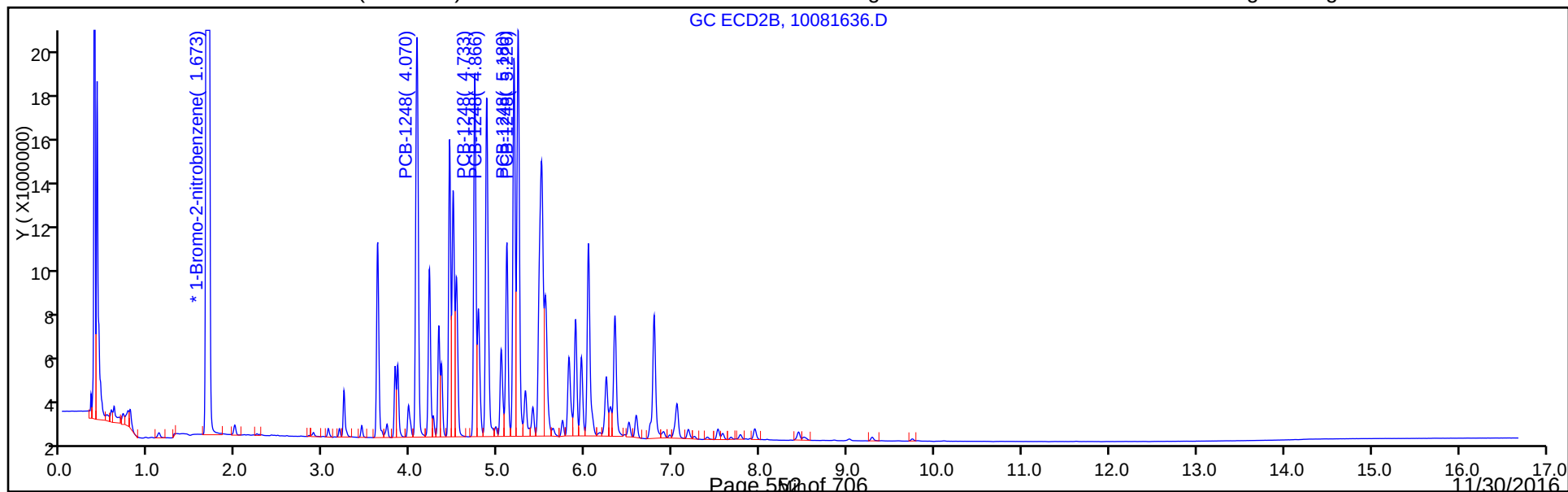
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/36 Calibration Date: 10/09/2016 00:17
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 11:39
GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 13:49
Lab File ID: 10081636.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.5316		253	250	1.4	20.0
PCB-1248 Peak 2	Lin1		0.4140		251	250	0.3	20.0
PCB-1248 Peak 3	Lin1		0.4621		255	250	1.9	20.0
PCB-1248 Peak 4	Lin1		0.4444		250	250	-0.0	20.0
PCB-1248 Peak 5	Lin1		0.5316		257	250	2.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/36 Calibration Date: 10/09/2016 00:17
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 11:39
GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 13:49
Lab File ID: 10081636.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.07	3.82	4.32
PCB-1248 Peak 2	4.73	4.48	4.98
PCB-1248 Peak 3	4.87	4.62	5.12
PCB-1248 Peak 4	5.18	4.93	5.43
PCB-1248 Peak 5	5.23	4.98	5.48

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081636.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 00:17:38 ALS Bottle#: 36 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-036
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:01:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	288872461	1000.0	1000.0	
2	1.673	1.675	-0.002	272622708	1000.0	1000.0	
RPD = 0.00							

4 PCB-1248

1	4.016	4.016	0.000	37854688	250.0	251.5	
1	4.380	4.379	0.001	40364861	250.0	250.8	
1	4.620	4.619	0.001	39054896	250.0	251.5	
1	5.116	5.116	0.000	33275553	250.0	231.6	
1	5.140	5.139	0.001	30793843	250.0	277.5	
Average of Peak Amounts =						252.6	
2	4.070	4.069	0.001	36228814	250.0	253.4	
2	4.733	4.733	0.000	28215021	250.0	250.8	
2	4.866	4.869	-0.003	31491015	250.0	254.9	
2	5.180	5.183	-0.003	30285935	250.0	249.9	
2	5.226	5.229	-0.003	36229066	250.0	256.8	
Average of Peak Amounts =						253.2	

RPD = 0.22

Reagents:

AR_1248_ICV_00009 Amount Added: 1.00 Units: mL
 BNB IS_00008 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 09-Oct-2016 09:28:26

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081636.D

Injection Date: 09-Oct-2016 00:17:38

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

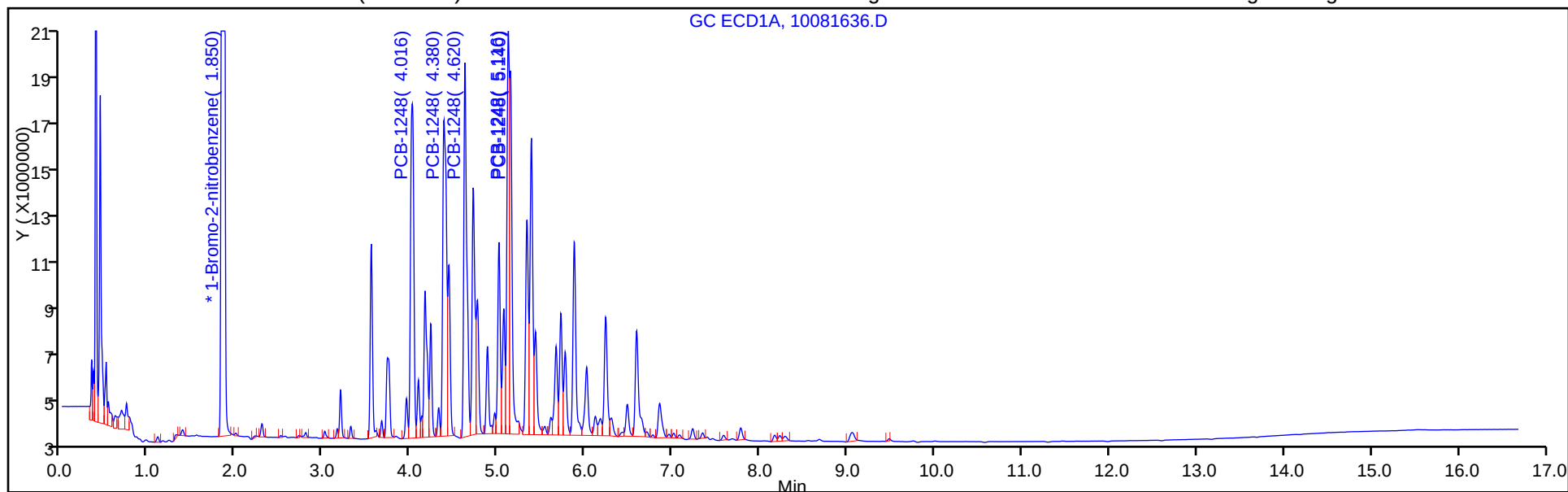
ALS Bottle#: 36

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

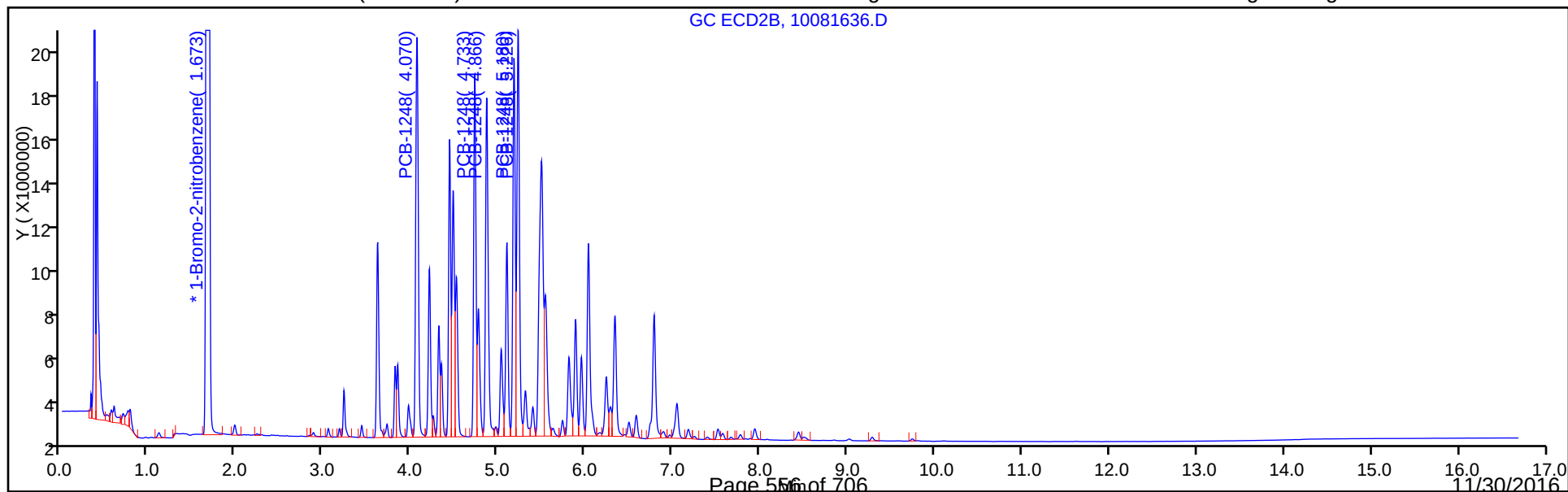
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/37 Calibration Date: 10/09/2016 00:39
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 14:11
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 16:21
 Lab File ID: 10081637.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.1303		261	250	4.3	20.0
PCB-1221 Peak 2	Lin1		0.0852		253	250	1.4	20.0
PCB-1221 Peak 3	Lin1		0.3135		256	250	2.5	20.0
PCB-1254 Peak 1	Lin1		0.5917		248	250	-0.7	20.0
PCB-1254 Peak 2	Lin1		0.4684		243	250	-2.7	20.0
PCB-1254 Peak 3	Lin1		0.8089		249	250	-0.5	20.0
PCB-1254 Peak 4	Lin1		0.6083		244	250	-2.3	20.0
PCB-1254 Peak 5	Lin1		0.8516		249	250	-0.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/37 Calibration Date: 10/09/2016 00:39
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 14:11
GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 16:21
Lab File ID: 10081637.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	3.01	2.76	3.26
PCB-1221 Peak 2	3.16	2.91	3.41
PCB-1221 Peak 3	3.19	2.95	3.45
PCB-1254 Peak 1	5.38	5.13	5.63
PCB-1254 Peak 2	5.72	5.47	5.97
PCB-1254 Peak 3	5.87	5.62	6.12
PCB-1254 Peak 4	6.23	5.98	6.48
PCB-1254 Peak 5	6.85	6.60	7.10

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081637.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 00:39:17 ALS Bottle#: 37 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-037
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:

Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	285261517	1000.0	1000.0	
2	1.674	1.675	-0.001	269570061	1000.0	1000.0	

RPD = 0.00

3 PCB-1221

1	3.013	3.012	0.001	9291416	250.0	260.8	
1	3.157	3.155	0.002	6077050	250.0	253.5	
1	3.193	3.195	-0.002	22359751	250.0	256.3	
Average of Peak Amounts =						256.9	
2	3.054	3.052	0.002	9343214	250.0	250.2	
2	3.180	3.182	-0.002	6041241	250.0	254.6	
2	3.234	3.236	-0.002	21884744	250.0	257.1	
Average of Peak Amounts =						254.0	

RPD = 1.14

9 PCB-1254

1	5.383	5.382	0.001	42195719	250.0	248.2	
1	5.717	5.715	0.002	33405451	250.0	243.4	
1	5.870	5.872	-0.002	57690194	250.0	248.9	
1	6.230	6.229	0.001	43383540	250.0	244.3	
1	6.847	6.849	-0.002	60729188	250.0	248.9	
Average of Peak Amounts =						246.7	
2	5.470	5.469	0.001	38861735	250.0	249.5	
2	5.887	5.886	0.001	28740731	250.0	248.8	
2	6.034	6.032	0.002	53259317	250.0	247.9	
2	6.337	6.336	0.001	39070180	250.0	247.1	
2	7.047	7.046	0.001	54722827	250.0	249.1	
Average of Peak Amounts =						248.5	

RPD = 0.71

Reagents:

AR_2154_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:28

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081637.D

Injection Date: 09-Oct-2016 00:39:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

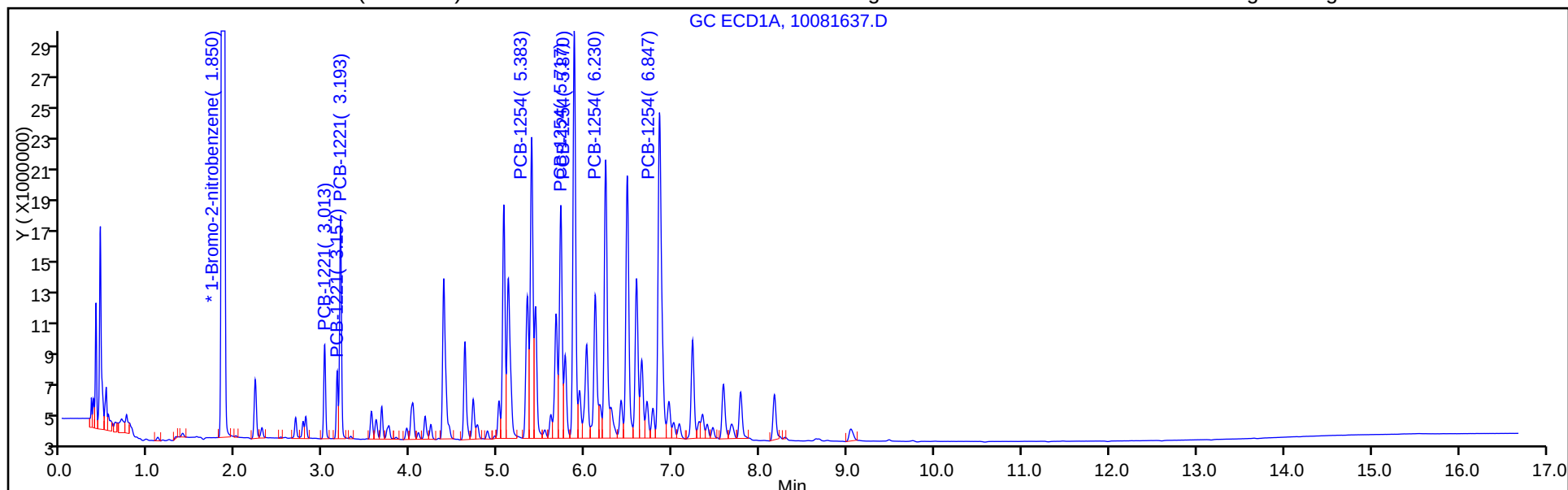
ALS Bottle#: 37

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

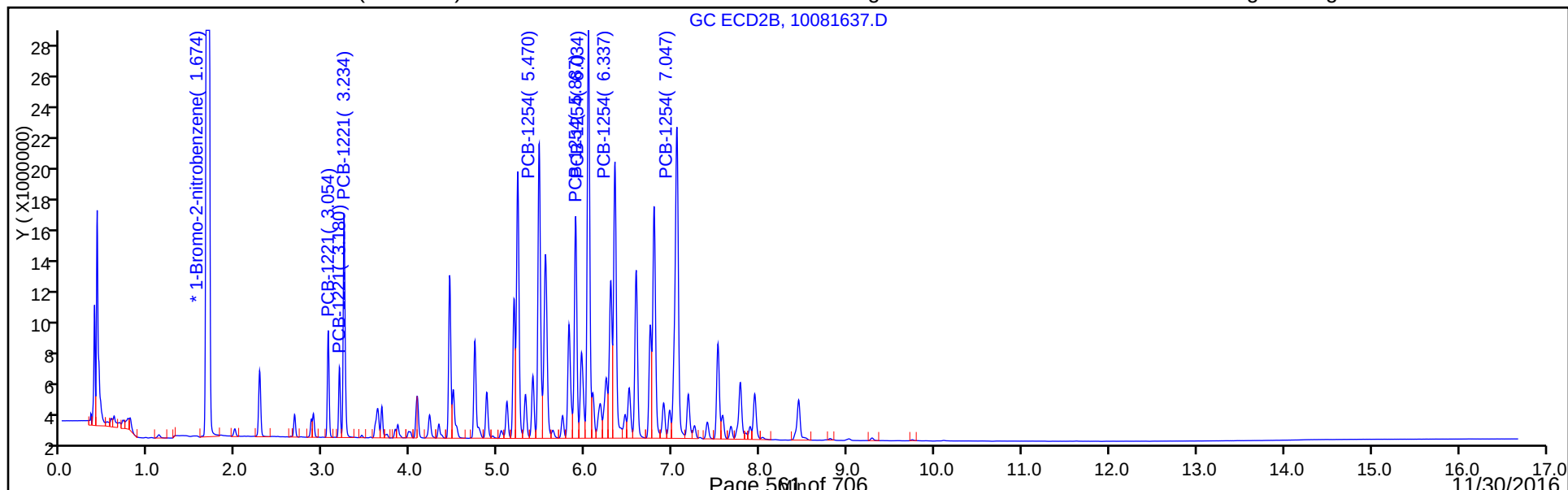
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/37 Calibration Date: 10/09/2016 00:39
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 14:11
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 16:21
 Lab File ID: 10081637.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.1386		250	250	0.1	20.0
PCB-1221 Peak 2	Lin1		0.0896		255	250	1.8	20.0
PCB-1221 Peak 3	Lin1		0.3247		257	250	2.8	20.0
PCB-1254 Peak 1	Lin1		0.5767		250	250	-0.2	20.0
PCB-1254 Peak 2	Lin1		0.4265		249	250	-0.5	20.0
PCB-1254 Peak 3	Lin1		0.7903		248	250	-0.8	20.0
PCB-1254 Peak 4	Lin1		0.5797		247	250	-1.2	20.0
PCB-1254 Peak 5	Lin1		0.8120		249	250	-0.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/37 Calibration Date: 10/09/2016 00:39
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 14:11
GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 16:21
Lab File ID: 10081637.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	3.05	2.80	3.30
PCB-1221 Peak 2	3.18	2.93	3.43
PCB-1221 Peak 3	3.23	2.99	3.49
PCB-1254 Peak 1	5.47	5.22	5.72
PCB-1254 Peak 2	5.89	5.64	6.14
PCB-1254 Peak 3	6.03	5.78	6.28
PCB-1254 Peak 4	6.34	6.09	6.59
PCB-1254 Peak 5	7.05	6.80	7.30

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081637.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 00:39:17 ALS Bottle#: 37 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-037
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:

Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	285261517	1000.0	1000.0	
2	1.674	1.675	-0.001	269570061	1000.0	1000.0	

RPD = 0.00

3 PCB-1221

1	3.013	3.012	0.001	9291416	250.0	260.8	
1	3.157	3.155	0.002	6077050	250.0	253.5	
1	3.193	3.195	-0.002	22359751	250.0	256.3	
Average of Peak Amounts =						256.9	
2	3.054	3.052	0.002	9343214	250.0	250.2	
2	3.180	3.182	-0.002	6041241	250.0	254.6	
2	3.234	3.236	-0.002	21884744	250.0	257.1	
Average of Peak Amounts =						254.0	

RPD = 1.14

9 PCB-1254

1	5.383	5.382	0.001	42195719	250.0	248.2	
1	5.717	5.715	0.002	33405451	250.0	243.4	
1	5.870	5.872	-0.002	57690194	250.0	248.9	
1	6.230	6.229	0.001	43383540	250.0	244.3	
1	6.847	6.849	-0.002	60729188	250.0	248.9	
Average of Peak Amounts =						246.7	
2	5.470	5.469	0.001	38861735	250.0	249.5	
2	5.887	5.886	0.001	28740731	250.0	248.8	
2	6.034	6.032	0.002	53259317	250.0	247.9	
2	6.337	6.336	0.001	39070180	250.0	247.1	
2	7.047	7.046	0.001	54722827	250.0	249.1	
Average of Peak Amounts =						248.5	

RPD = 0.71

Reagents:

AR_2154_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:29

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081637.D

Injection Date: 09-Oct-2016 00:39:17

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

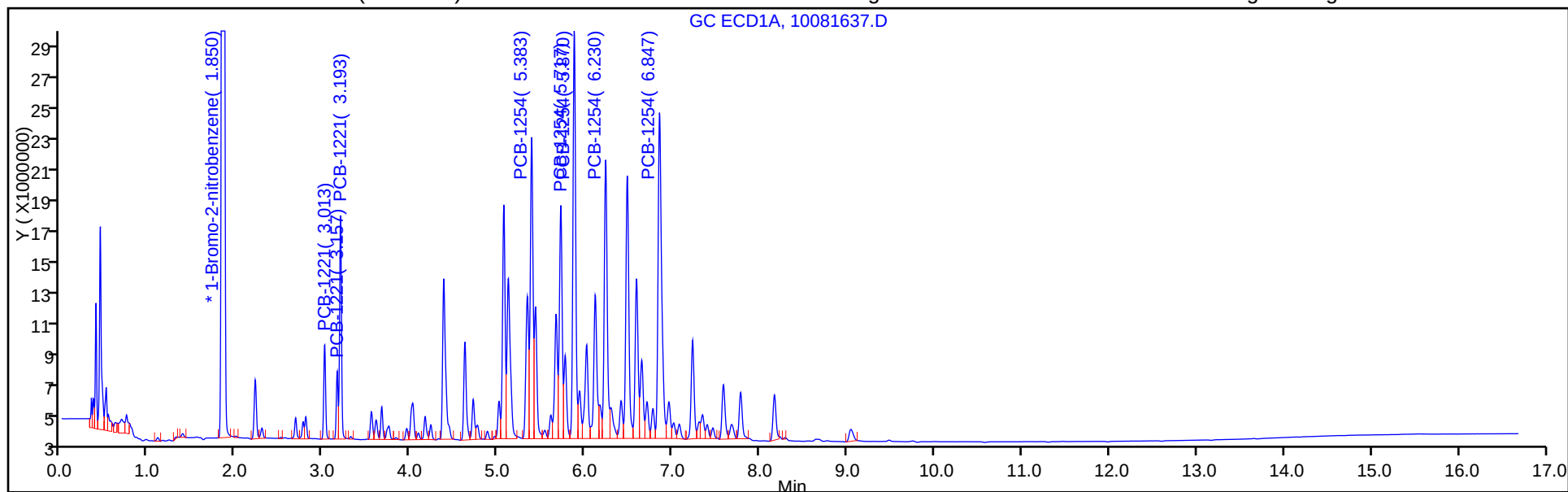
ALS Bottle#: 37

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

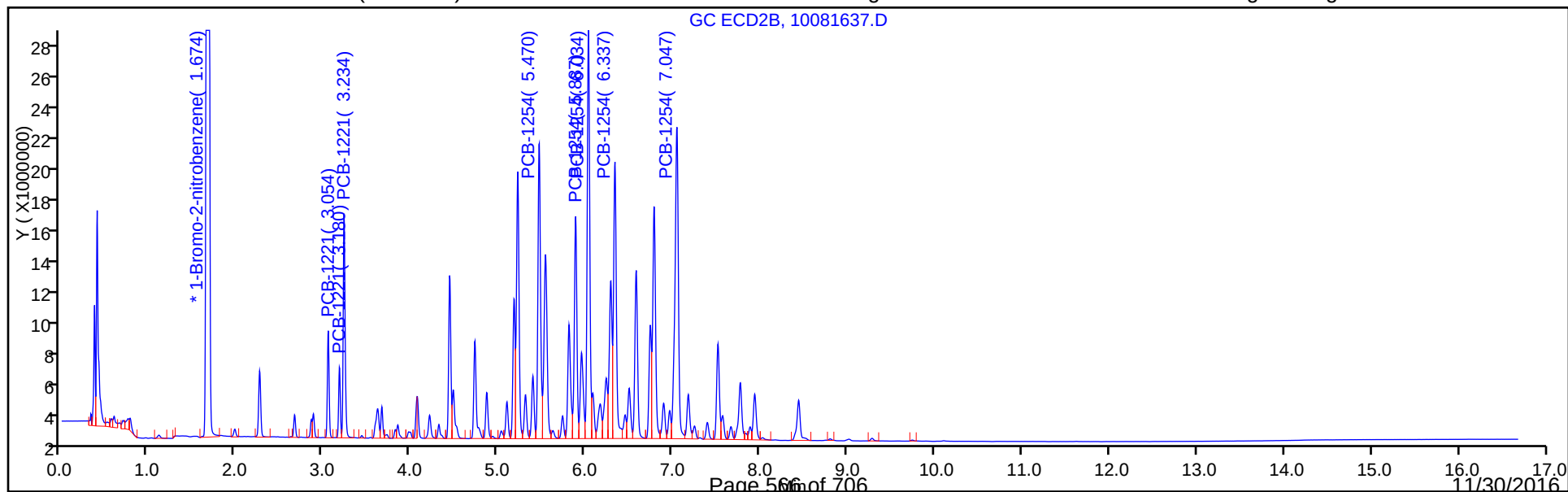
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/38 Calibration Date: 10/09/2016 01:00
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 10081638.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.2311		263	250	5.4	20.0
PCB-1016 Peak 2	Lin1		0.4363		266	250	6.4	20.0
PCB-1016 Peak 3	Lin1		0.9327		257	250	3.0	20.0
PCB-1016 Peak 4	Lin1		0.4179		258	250	3.4	20.0
PCB-1016 Peak 5	Lin1		0.4001		246	250	-1.6	20.0
PCB-1260 Peak 1	Lin1		0.6306		256	250	2.4	20.0
PCB-1260 Peak 2	Lin1		1.180		258	250	3.3	20.0
PCB-1260 Peak 3	Lin1		0.5767		259	250	3.4	20.0
PCB-1260 Peak 4	Lin1		1.350		277	250	10.7	20.0
PCB-1260 Peak 5	Lin1		0.7004		259	250	3.6	20.0
Tetrachloro-m-xylene (Surr)	Lin1		13.81		12.9	12.5	3.6	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		13.26		12.8	12.5	2.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/38 Calibration Date: 10/09/2016 01:00
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
Lab File ID: 10081638.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.19	2.94	3.44
PCB-1016 Peak 2	3.55	3.30	3.80
PCB-1016 Peak 3	4.02	3.77	4.27
PCB-1016 Peak 4	4.16	3.91	4.41
PCB-1016 Peak 5	4.62	4.37	4.87
PCB-1260 Peak 1	6.11	5.86	6.36
PCB-1260 Peak 2	6.85	6.60	7.10
PCB-1260 Peak 3	7.34	7.09	7.59
PCB-1260 Peak 4	7.77	7.53	8.03
PCB-1260 Peak 5	8.16	7.91	8.41
Tetrachloro-m-xylene (Surr)	2.80	2.55	3.05
DCB Decachlorobiphenyl (Surr)	9.75	9.50	10.00

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 01:00:55 ALS Bottle#: 38 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-038
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:24:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	288901937	1000.0	1000.0	
2	1.674	1.675	-0.001	271849363	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	49862244	12.5	12.9	
2	2.734	2.734	0.000	49705305	12.5	12.7	
RPD = 1.92							

1 PCB-1016

1	3.193	3.193	0.000	16691379	250.0	263.5	
1	3.547	3.547	0.000	31515119	250.0	266.0	
1	4.020	4.020	0.000	67362194	250.0	257.4	
1	4.163	4.163	0.000	30180446	250.0	258.4	
1	4.620	4.620	0.000	28895379	250.0	245.9	
Average of Peak Amounts =						258.3	
2	3.620	3.620	0.000	31411874	250.0	262.8	
2	4.070	4.070	0.000	64201150	250.0	260.3	
2	4.214	4.214	0.000	27217979	250.0	257.4	
2	4.444	4.444	0.000	15059467	250.0	255.9	
2	4.730	4.734	-0.004	21284901	250.0	254.4	
Average of Peak Amounts =						258.2	
RPD = 0.04							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

							M
1	6.110	6.110	0.000	45542106	250.0	256.0	M
1	6.847	6.847	0.000	85241676	250.0	258.2	M
1	7.340	7.340	0.000	41649650	250.0	258.5	M
1	7.773	7.777	-0.004	97526381	250.0	276.7	M
1	8.163	8.163	0.000	50583854	250.0	259.0	

Average of Peak Amounts =

261.7

2	6.580	6.580	0.000	50822028	250.0	262.7	
2	7.044	7.044	0.000	76503108	250.0	258.7	
2	7.570	7.570	0.000	36228083	250.0	260.5	
2	7.937	7.940	-0.003	80069449	250.0	260.3	
2	8.440	8.440	0.000	59253017	250.0	257.4	

Average of Peak Amounts =

259.9

RPD = 0.68

\$ 15 DCB Decachlorobiphenyl

1	9.747	9.750	-0.003	47869411	12.5	12.8	
2	10.100	10.104	-0.004	39461068	12.5	12.8	

RPD = 0.03

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1660_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:32

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D

Injection Date: 09-Oct-2016 01:00:55

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

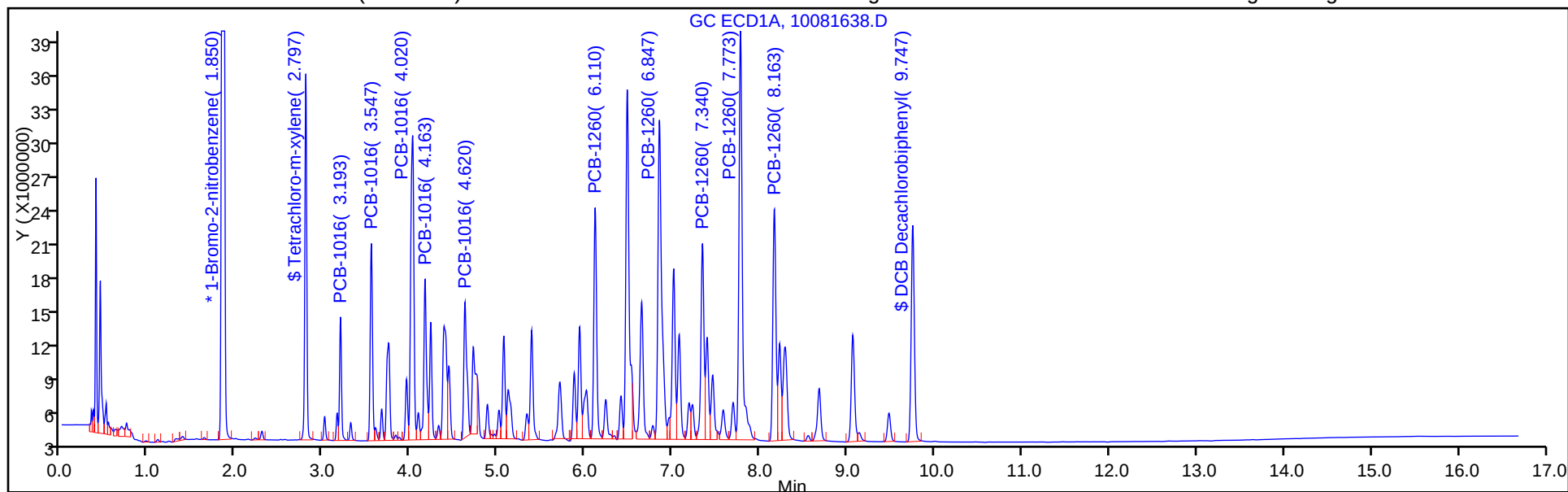
ALS Bottle#: 38

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

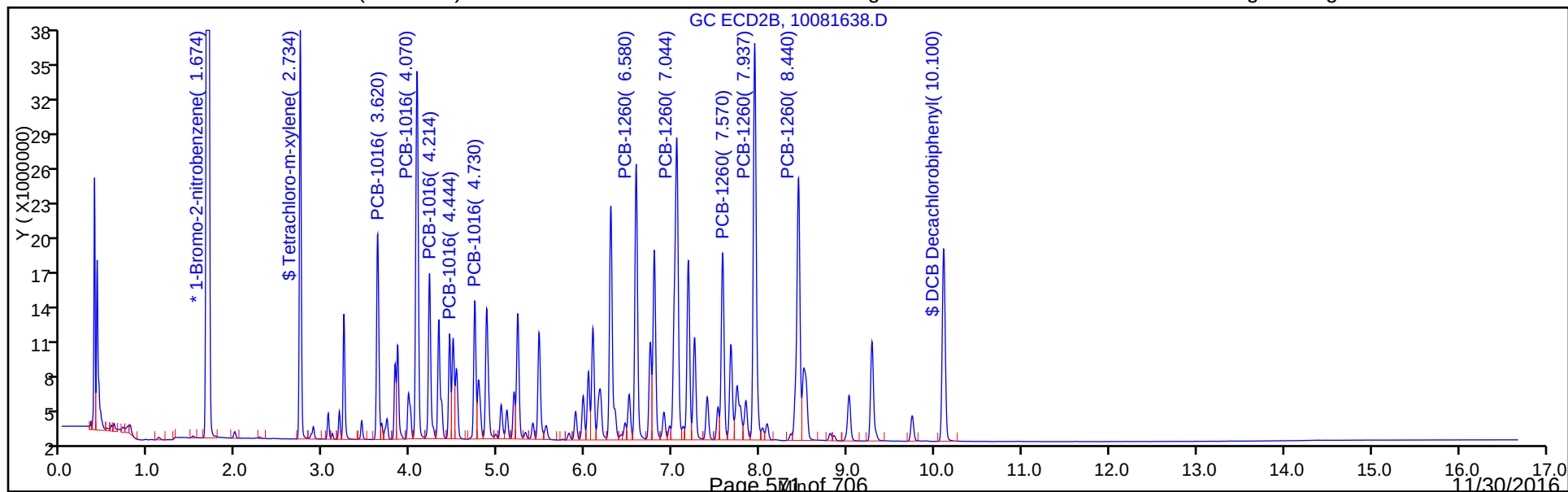
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D

Injection Date: 09-Oct-2016 01:00:55

Instrument ID: SGC_P3

Lims ID: ICV

Client ID:

Operator ID: jax

ALS Bottle#: 38

Worklist Smp#: 38

Injection Vol: 1.0 ul

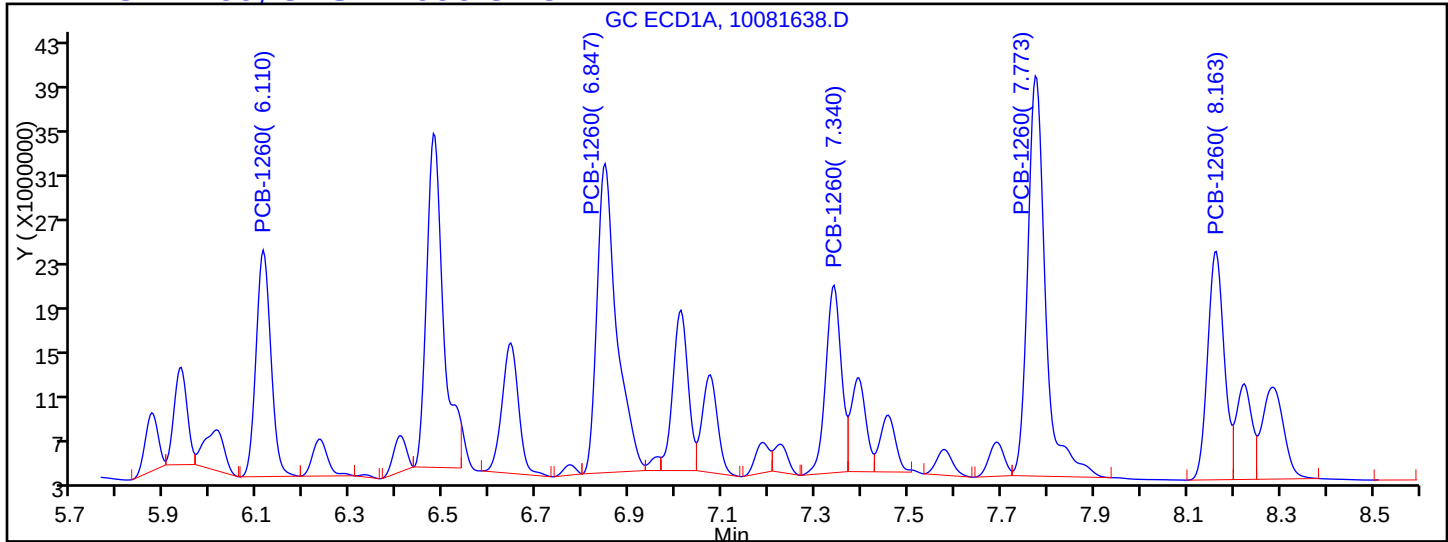
Dil. Factor: 1.0000

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

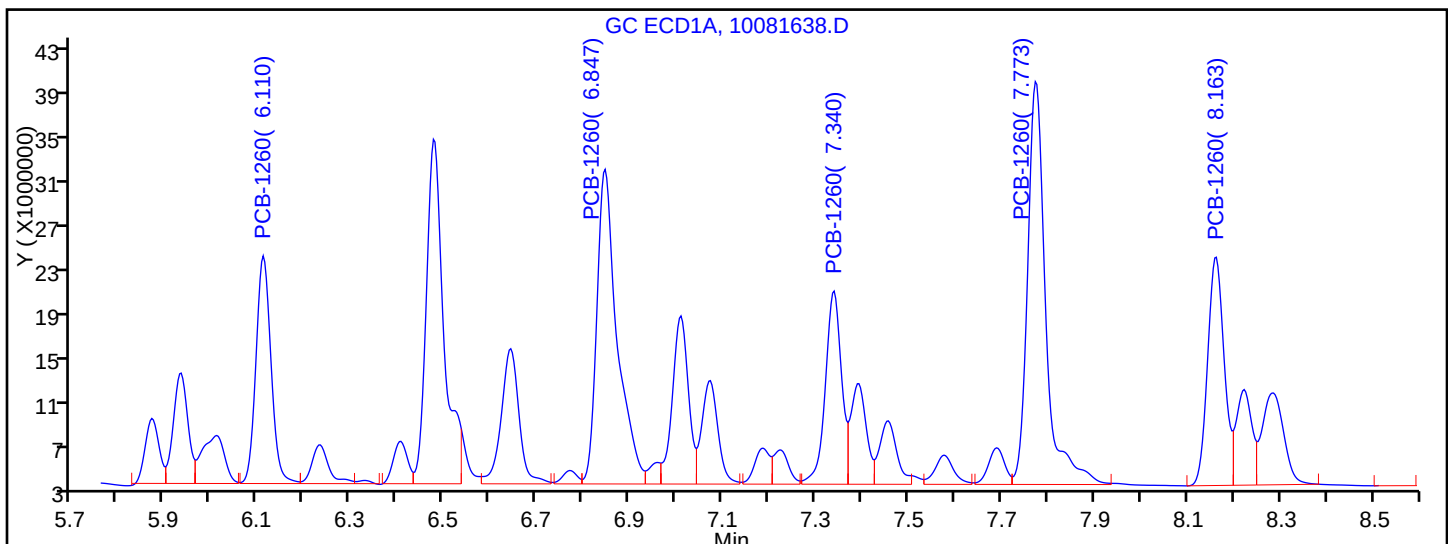
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector

GC ECD1A

12 PCB-1260, CAS: 11096-82-5

Processing Integration Results

6.110	Response = 44628524
6.847	Response = 80848334
7.340	Response = 38962898
7.773	Response = 95070426
8.163	Response = 50583854



Manual Integration Results

6.110	Response = 45542106	M
6.847	Response = 85241676	M
7.340	Response = 41649650	M
7.773	Response = 97526381	M
8.163	Response = 50583854	

Reviewer: jacksonto, 09-Oct-2016 09:24:22

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 572 of 706

11/30/2016

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Lab Sample ID: ICV 280-345281/38 Calibration Date: 10/09/2016 01:00

Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42

GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52

Lab File ID: 10081638.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.4622		263	250	5.1	20.0
PCB-1016 Peak 2	Lin1		0.9447		260	250	4.1	20.0
PCB-1016 Peak 3	Lin1		0.4005		257	250	3.0	20.0
PCB-1016 Peak 4	Lin1		0.2216		256	250	2.4	20.0
PCB-1016 Peak 5	Lin1		0.3132		254	250	1.7	20.0
PCB-1260 Peak 1	Lin1		0.7478		263	250	5.1	20.0
PCB-1260 Peak 2	Lin1		1.126		259	250	3.5	20.0
PCB-1260 Peak 3	Lin1		0.5331		260	250	4.2	20.0
PCB-1260 Peak 4	Lin1		1.178		260	250	4.1	20.0
PCB-1260 Peak 5	Lin1		0.8719		257	250	3.0	20.0
Tetrachloro-m-xylene (Surr)	Lin1		14.63		12.7	12.5	1.6	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		11.61		12.8	12.5	2.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/38 Calibration Date: 10/09/2016 01:00
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 10081638.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.62	3.37	3.87
PCB-1016 Peak 2	4.07	3.82	4.32
PCB-1016 Peak 3	4.21	3.96	4.46
PCB-1016 Peak 4	4.44	4.19	4.69
PCB-1016 Peak 5	4.73	4.48	4.98
PCB-1260 Peak 1	6.58	6.33	6.83
PCB-1260 Peak 2	7.04	6.79	7.29
PCB-1260 Peak 3	7.57	7.32	7.82
PCB-1260 Peak 4	7.94	7.69	8.19
PCB-1260 Peak 5	8.44	8.19	8.69
Tetrachloro-m-xylene (Surr)	2.73	2.48	2.98
DCB Decachlorobiphenyl (Surr)	10.10	9.85	10.35

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 01:00:55 ALS Bottle#: 38 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-038
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

First Level Reviewer: jacksonto

Date: 09-Oct-2016 09:24:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.850	1.848	0.002	288901937	1000.0	1000.0	
2	1.674	1.675	-0.001	271849363	1000.0	1000.0	
							RPD = 0.00

\$ 14 Tetrachloro-m-xylene

1	2.797	2.797	0.000	49862244	12.5	12.9	
2	2.734	2.734	0.000	49705305	12.5	12.7	
							RPD = 1.92

1 PCB-1016

1	3.193	3.193	0.000	16691379	250.0	263.5	
1	3.547	3.547	0.000	31515119	250.0	266.0	
1	4.020	4.020	0.000	67362194	250.0	257.4	
1	4.163	4.163	0.000	30180446	250.0	258.4	
1	4.620	4.620	0.000	28895379	250.0	245.9	
Average of Peak Amounts =						258.3	
2	3.620	3.620	0.000	31411874	250.0	262.8	
2	4.070	4.070	0.000	64201150	250.0	260.3	
2	4.214	4.214	0.000	27217979	250.0	257.4	
2	4.444	4.444	0.000	15059467	250.0	255.9	
2	4.730	4.734	-0.004	21284901	250.0	254.4	
Average of Peak Amounts =						258.2	
							RPD = 0.04

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

							M
1	6.110	6.110	0.000	45542106	250.0	256.0	M
1	6.847	6.847	0.000	85241676	250.0	258.2	M
1	7.340	7.340	0.000	41649650	250.0	258.5	M
1	7.773	7.777	-0.004	97526381	250.0	276.7	M
1	8.163	8.163	0.000	50583854	250.0	259.0	

Average of Peak Amounts =

261.7

2	6.580	6.580	0.000	50822028	250.0	262.7	
2	7.044	7.044	0.000	76503108	250.0	258.7	
2	7.570	7.570	0.000	36228083	250.0	260.5	
2	7.937	7.940	-0.003	80069449	250.0	260.3	
2	8.440	8.440	0.000	59253017	250.0	257.4	

Average of Peak Amounts =

259.9

RPD = 0.68

\$ 15 DCB Decachlorobiphenyl

1	9.747	9.750	-0.003	47869411	12.5	12.8	
2	10.100	10.104	-0.004	39461068	12.5	12.8	

RPD = 0.03

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR_1660_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:32

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081638.D

Injection Date: 09-Oct-2016 01:00:55

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

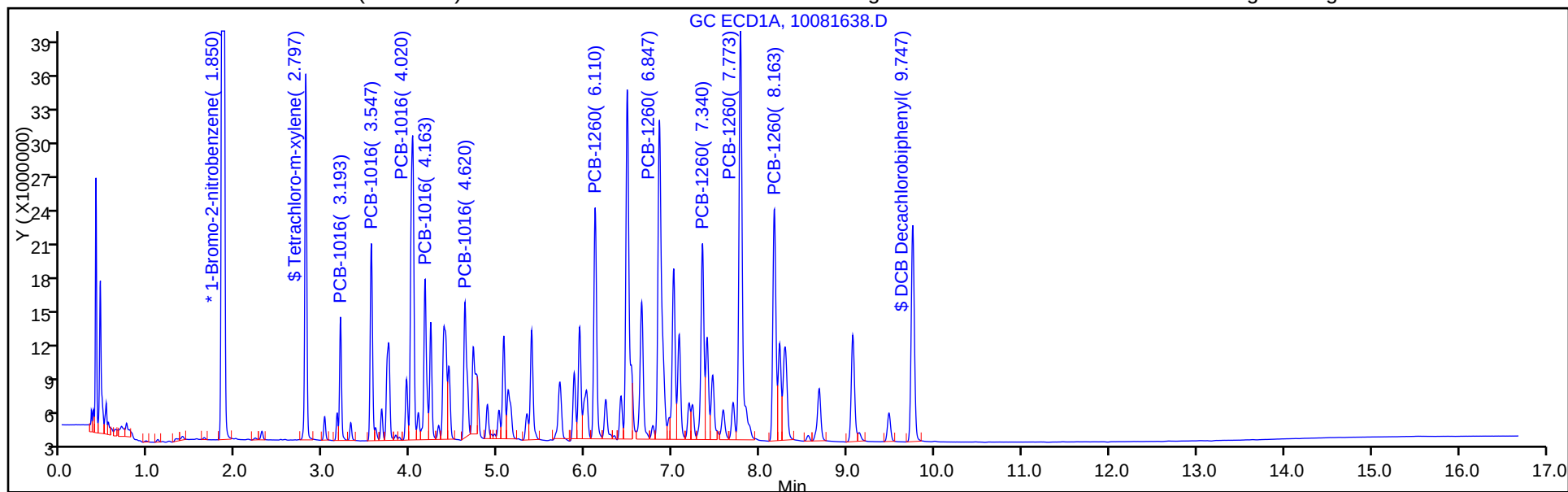
ALS Bottle#: 38

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

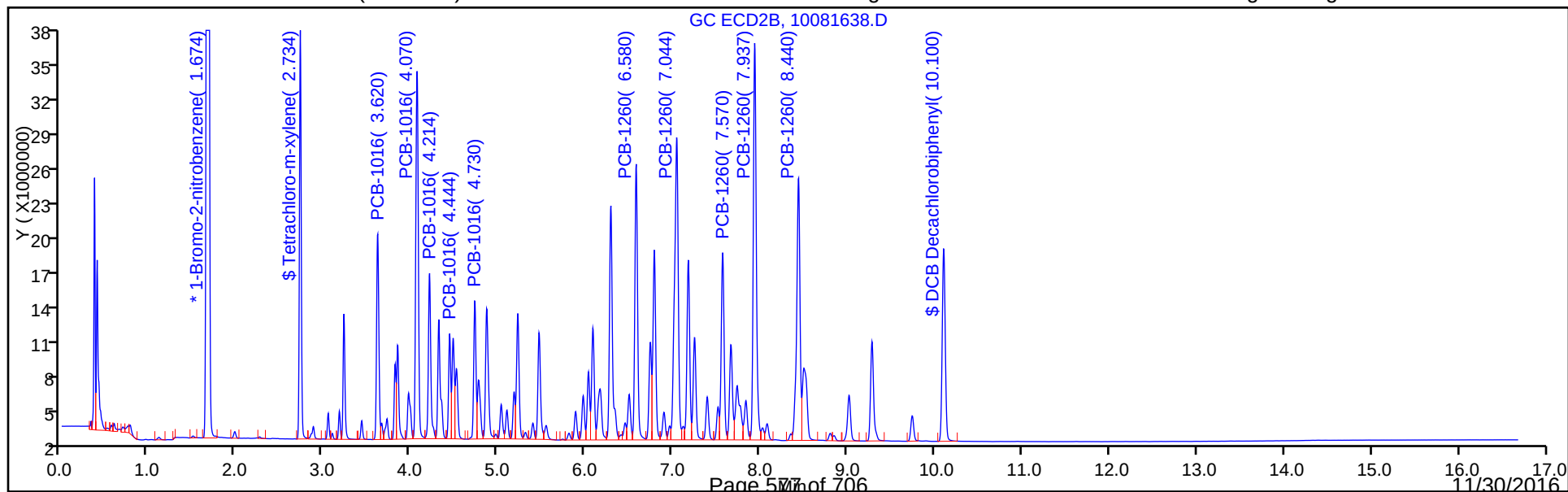
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/39 Calibration Date: 10/09/2016 01:22
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 19:14
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 21:24
 Lab File ID: 10081639.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.2672		259	250	3.8	20.0
PCB-1232 Peak 2	Lin1		0.2178		257	250	2.9	20.0
PCB-1232 Peak 3	Lin1		0.4490		250	250	-0.1	20.0
PCB-1232 Peak 4	Lin1		0.2042		255	250	2.1	20.0
PCB-1232 Peak 5	Lin1		0.1929		257	250	2.9	20.0
PCB-1262 Peak 1	Lin1		0.6420		250	250	-0.0	20.0
PCB-1262 Peak 2	Lin1		0.8240		253	250	1.0	20.0
PCB-1262 Peak 3	Lin1		0.7604		250	250	-0.0	20.0
PCB-1262 Peak 4	Lin1		1.640		266	250	6.2	20.0
PCB-1262 Peak 5	Lin1		0.5323		245	250	-1.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/39 Calibration Date: 10/09/2016 01:22
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 19:14
GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 21:24
Lab File ID: 10081639.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.19	2.94	3.44
PCB-1232 Peak 2	3.55	3.30	3.80
PCB-1232 Peak 3	4.02	3.77	4.27
PCB-1232 Peak 4	4.16	3.91	4.41
PCB-1232 Peak 5	4.62	4.37	4.87
PCB-1262 Peak 1	6.48	6.23	6.73
PCB-1262 Peak 2	7.01	6.76	7.26
PCB-1262 Peak 3	7.34	7.09	7.59
PCB-1262 Peak 4	7.78	7.53	8.03
PCB-1262 Peak 5	8.16	7.91	8.41

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081639.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 01:22:32 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-039
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:

Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	290304262	1000.0	1000.0	
2	1.673	1.675	-0.002	272928056	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.193	3.193	0.000	19391827	250.0	259.4	
1	3.546	3.547	-0.001	15809148	250.0	257.2	
1	4.019	4.020	-0.001	32583388	250.0	249.7	
1	4.163	4.163	0.000	14816852	250.0	255.3	
1	4.619	4.620	-0.001	14001536	250.0	257.4	
Average of Peak Amounts =						255.8	
2	3.233	3.234	-0.001	18718118	250.0	256.6	
2	3.619	3.620	-0.001	16453717	250.0	257.0	
2	4.069	4.070	-0.001	30802033	250.0	250.7	
2	4.213	4.214	-0.001	13226501	250.0	253.7	
2	4.869	4.870	-0.001	10854469	250.0	256.6	
Average of Peak Amounts =						254.9	

RPD = 0.35

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081639.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.479	6.480	-0.001	46592672	250.0	250.0	
1	7.009	7.010	-0.001	59800886	250.0	252.6	
1	7.339	7.340	-0.001	55189029	250.0	249.8	
1	7.776	7.777	-0.001	119016403	250.0	265.6	
1	8.163	8.163	0.000	38629775	250.0	245.2	

Average of Peak Amounts = 252.7

2	6.579	6.580	-0.001	36770543	250.0	249.5	
2	7.176	7.177	-0.001	51973223	250.0	251.2	
2	7.569	7.570	-0.001	49789528	250.0	250.9	
2	7.936	7.937	-0.001	95554485	250.0	252.5	
2	8.436	8.437	-0.001	69309227	250.0	250.7	

Average of Peak Amounts = 251.0

RPD = 0.67

Reagents:

AR_3262_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:35

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081639.D

Injection Date: 09-Oct-2016 01:22:32

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 39

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

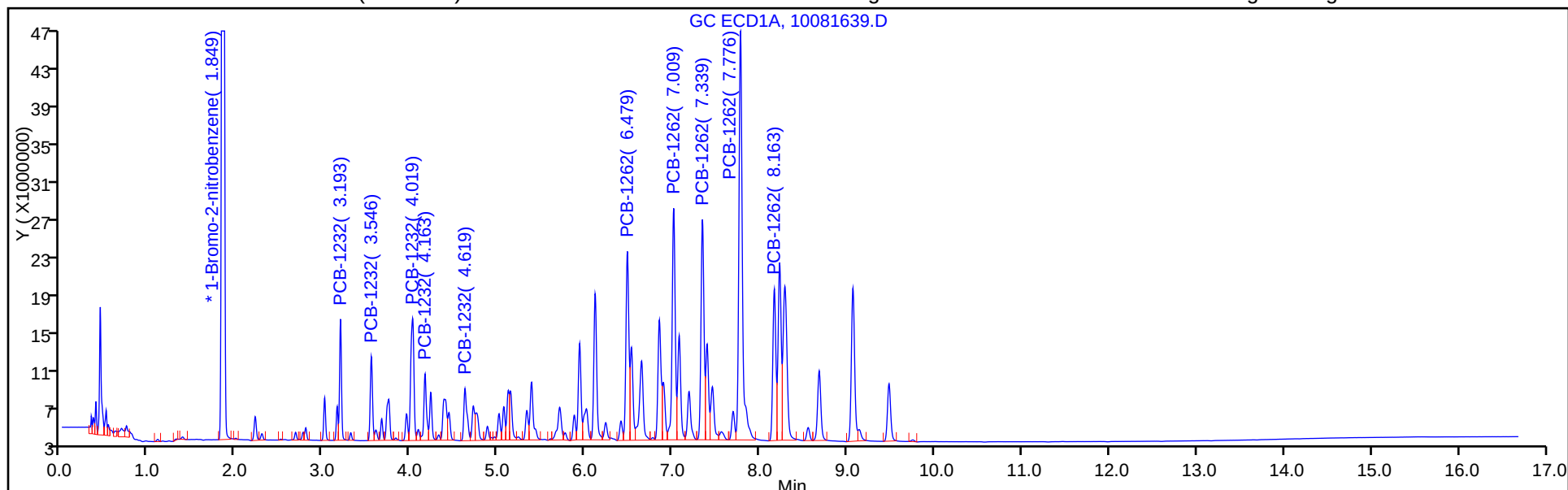
ALS Bottle#: 39

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

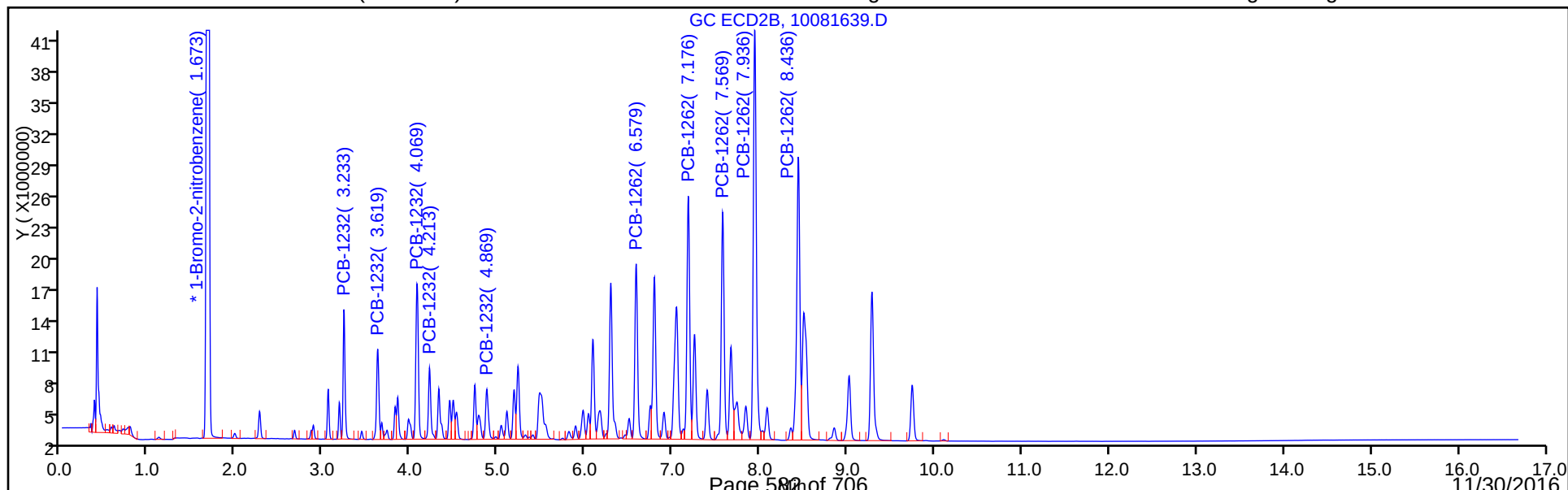
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/39 Calibration Date: 10/09/2016 01:22
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 19:14
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 21:24
 Lab File ID: 10081639.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.2743		257	250	2.6	20.0
PCB-1232 Peak 2	Lin1		0.2411		257	250	2.8	20.0
PCB-1232 Peak 3	Lin1		0.4514		251	250	0.3	20.0
PCB-1232 Peak 4	Lin1		0.1939		254	250	1.5	20.0
PCB-1232 Peak 5	Lin1		0.1591		257	250	2.6	20.0
PCB-1262 Peak 1	Lin1		0.5389		250	250	-0.2	20.0
PCB-1262 Peak 2	Lin1		0.7617		251	250	0.5	20.0
PCB-1262 Peak 3	Lin1		0.7297		251	250	0.4	20.0
PCB-1262 Peak 4	Lin1		1.400		253	250	1.0	20.0
PCB-1262 Peak 5	Lin1		1.016		251	250	0.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/39 Calibration Date: 10/09/2016 01:22
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 19:14
GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 21:24
Lab File ID: 10081639.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.23	2.98	3.48
PCB-1232 Peak 2	3.62	3.37	3.87
PCB-1232 Peak 3	4.07	3.82	4.32
PCB-1232 Peak 4	4.21	3.96	4.46
PCB-1232 Peak 5	4.87	4.62	5.12
PCB-1262 Peak 1	6.58	6.33	6.83
PCB-1262 Peak 2	7.18	6.93	7.43
PCB-1262 Peak 3	7.57	7.32	7.82
PCB-1262 Peak 4	7.94	7.69	8.19
PCB-1262 Peak 5	8.44	8.19	8.69

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081639.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 01:22:32 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-039
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:

Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	290304262	1000.0	1000.0	
2	1.673	1.675	-0.002	272928056	1000.0	1000.0	

RPD = 0.00

7 PCB-1232

1	3.193	3.193	0.000	19391827	250.0	259.4	
1	3.546	3.547	-0.001	15809148	250.0	257.2	
1	4.019	4.020	-0.001	32583388	250.0	249.7	
1	4.163	4.163	0.000	14816852	250.0	255.3	
1	4.619	4.620	-0.001	14001536	250.0	257.4	
Average of Peak Amounts =						255.8	
2	3.233	3.234	-0.001	18718118	250.0	256.6	
2	3.619	3.620	-0.001	16453717	250.0	257.0	
2	4.069	4.070	-0.001	30802033	250.0	250.7	
2	4.213	4.214	-0.001	13226501	250.0	253.7	
2	4.869	4.870	-0.001	10854469	250.0	256.6	
Average of Peak Amounts =						254.9	

RPD = 0.35

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081639.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

5 PCB-1262

1	6.479	6.480	-0.001	46592672	250.0	250.0	
1	7.009	7.010	-0.001	59800886	250.0	252.6	
1	7.339	7.340	-0.001	55189029	250.0	249.8	
1	7.776	7.777	-0.001	119016403	250.0	265.6	
1	8.163	8.163	0.000	38629775	250.0	245.2	

Average of Peak Amounts = 252.7

2	6.579	6.580	-0.001	36770543	250.0	249.5	
2	7.176	7.177	-0.001	51973223	250.0	251.2	
2	7.569	7.570	-0.001	49789528	250.0	250.9	
2	7.936	7.937	-0.001	95554485	250.0	252.5	
2	8.436	8.437	-0.001	69309227	250.0	250.7	

Average of Peak Amounts = 251.0

RPD = 0.67

Reagents:

AR_3262_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:35

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081639.D

Injection Date: 09-Oct-2016 01:22:32

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 39

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

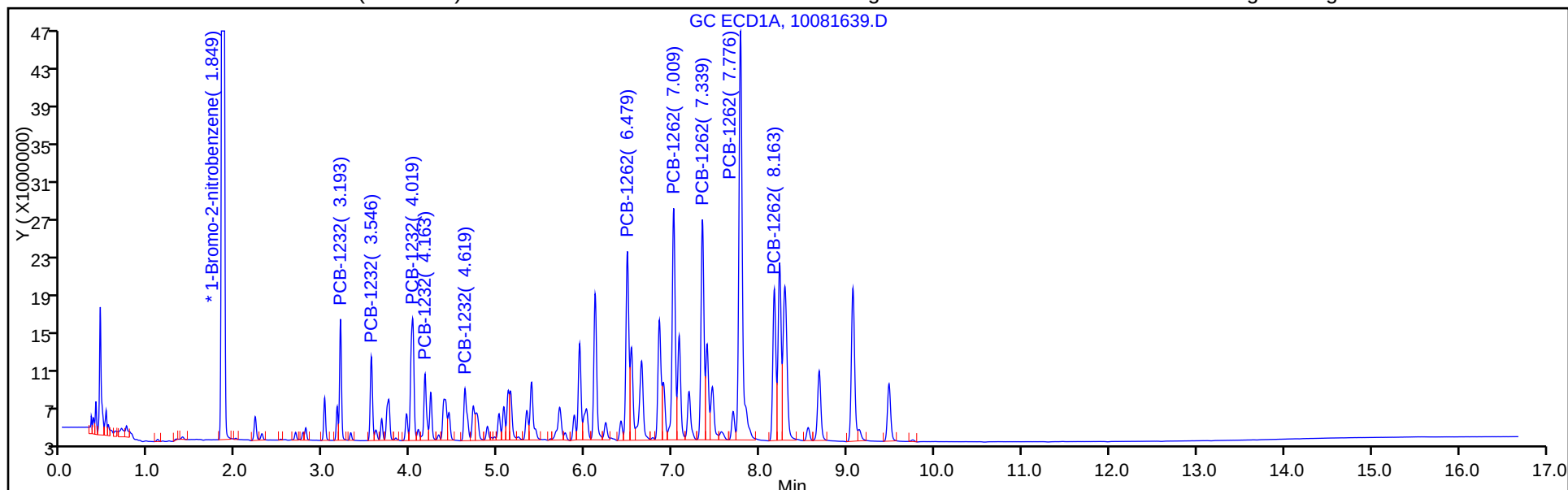
ALS Bottle#: 39

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

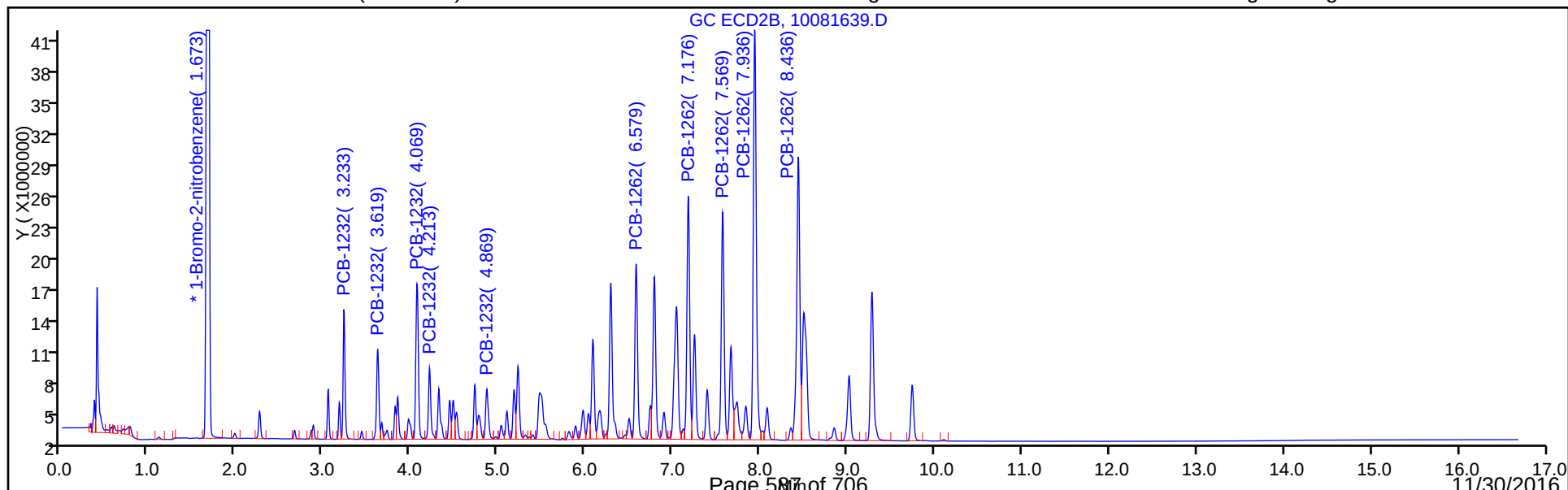
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/40 Calibration Date: 10/09/2016 01:44
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 21:46
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 23:55
 Lab File ID: 10081640.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.3602		253	250	1.3	20.0
PCB-1242 Peak 2	Lin1		0.7569		245	250	-2.2	20.0
PCB-1242 Peak 3	Lin1		0.3432		249	250	-0.5	20.0
PCB-1242 Peak 4	Lin1		0.2577		247	250	-1.3	20.0
PCB-1242 Peak 5	Lin1		0.2700		249	250	-0.3	20.0
PCB-1268 Peak 1	Lin1		1.652		244	250	-2.3	20.0
PCB-1268 Peak 2	Lin1		1.569		246	250	-1.8	20.0
PCB-1268 Peak 3	Lin1		1.348		243	250	-2.6	20.0
PCB-1268 Peak 4	Lin1		0.6354		238	250	-4.7	20.0
PCB-1268 Peak 5	Lin1		4.131		248	250	-0.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/40 Calibration Date: 10/09/2016 01:44
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 21:46
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 23:55
 Lab File ID: 10081640.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.55	3.30	3.80
PCB-1242 Peak 2	4.02	3.77	4.27
PCB-1242 Peak 3	4.16	3.91	4.41
PCB-1242 Peak 4	5.12	4.87	5.37
PCB-1242 Peak 5	5.14	4.89	5.39
PCB-1268 Peak 1	8.22	7.98	8.48
PCB-1268 Peak 2	8.28	8.03	8.53
PCB-1268 Peak 3	8.55	8.30	8.80
PCB-1268 Peak 4	9.06	8.81	9.31
PCB-1268 Peak 5	9.47	9.23	9.73

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081640.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 01:44:11 ALS Bottle#: 40 Worklist Smp#: 40
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-040
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:

Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	287551955	1000.0	1000.0	
2	1.676	1.675	0.001	270831241	1000.0	1000.0	

RPD = 0.00

10 PCB-1242

1	3.546	3.545	0.001	25896091	250.0	253.1	
1	4.019	4.018	0.001	54408901	250.0	244.5	
1	4.162	4.162	0.000	24668252	250.0	248.8	
1	5.116	5.115	0.001	18521736	250.0	246.8	
1	5.139	5.142	-0.003	19409539	250.0	249.3	
Average of Peak Amounts =						248.5	
2	3.619	3.619	0.000	25874692	250.0	251.1	
2	4.069	4.072	-0.003	51934642	250.0	246.5	
2	4.213	4.215	-0.002	22054244	250.0	247.7	
2	5.179	5.182	-0.003	16908504	250.0	239.5	
2	5.229	5.229	0.000	20582667	250.0	247.2	
Average of Peak Amounts =						246.4	

RPD = 0.85

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081640.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.222	8.225	-0.003	118773830	250.0	244.2	
1	8.276	8.275	0.001	112787280	250.0	245.6	
1	8.549	8.548	0.001	96935377	250.0	243.4	
1	9.062	9.062	0.000	45680674	250.0	238.2	
1	9.472	9.475	-0.003	296955486	250.0	248.2	

Average of Peak Amounts = 243.9

2	8.436	8.435	0.001	103353939	250.0	246.6	
2	8.496	8.499	-0.003	95993399	250.0	245.6	
2	8.846	8.849	-0.003	83150165	250.0	245.1	
2	9.279	9.279	0.000	36394395	250.0	242.5	
2	9.743	9.742	0.001	244704037	250.0	246.9	

Average of Peak Amounts = 245.3

RPD = 0.58

Reagents:

AR_4268_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:38

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081640.D

Injection Date: 09-Oct-2016 01:44:11

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 40

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

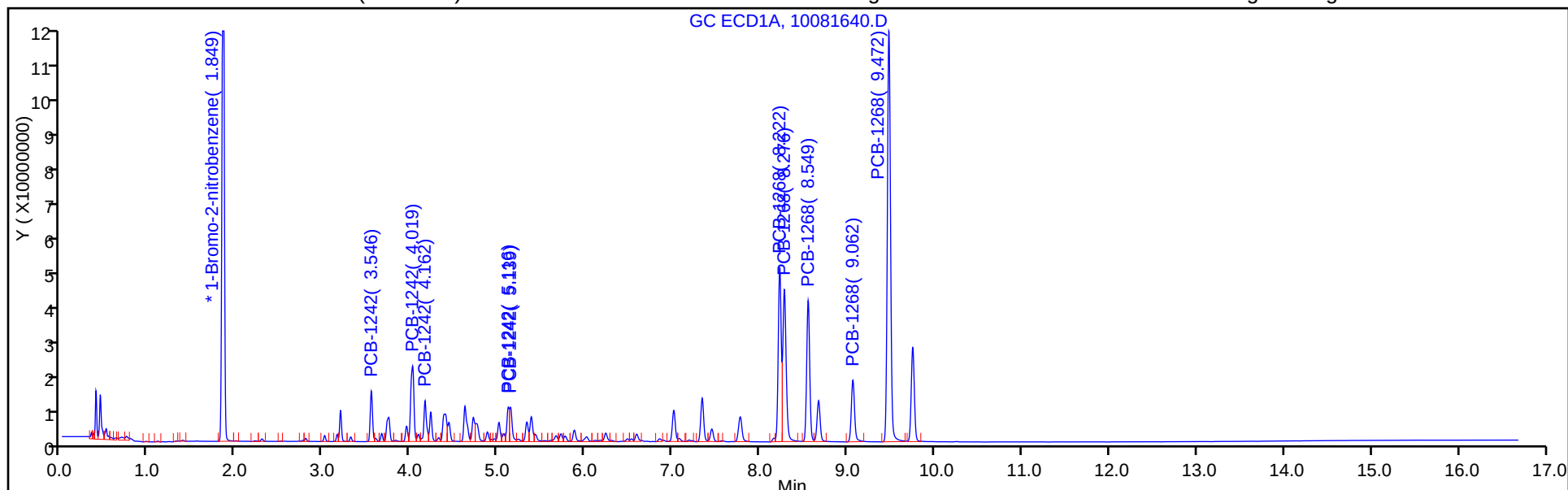
ALS Bottle#: 40

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

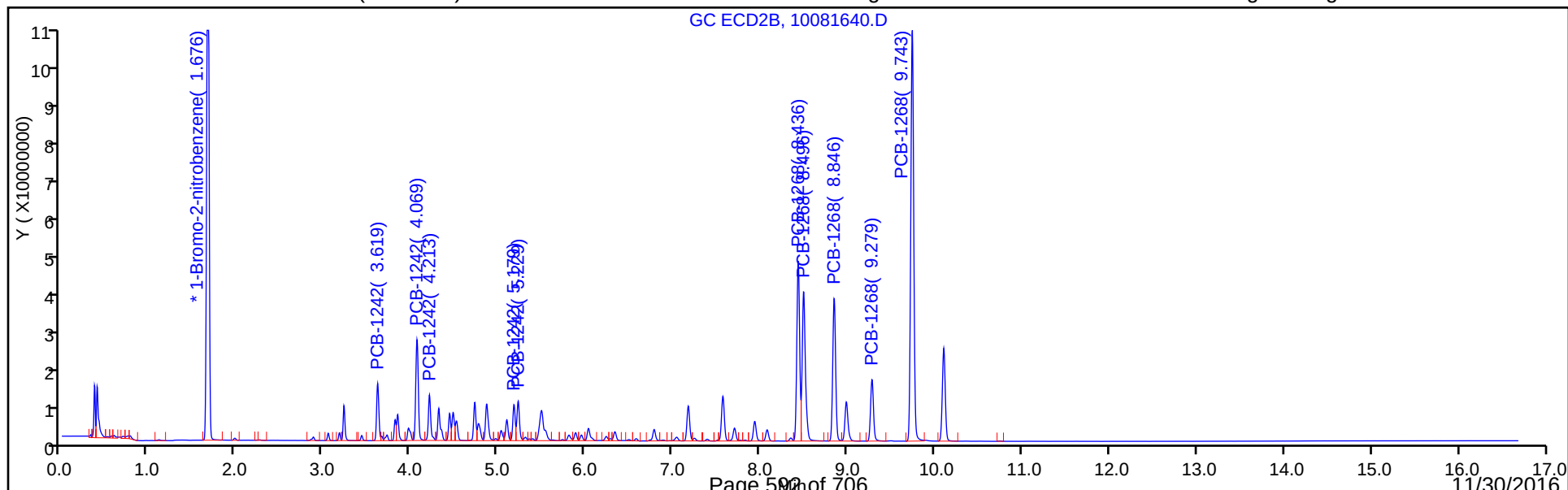
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: ICV 280-345281/40 Calibration Date: 10/09/2016 01:44
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 21:46
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 23:55
 Lab File ID: 10081640.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.3822		251	250	0.4	20.0
PCB-1242 Peak 2	Lin1		0.7670		247	250	-1.4	20.0
PCB-1242 Peak 3	Lin1		0.3257		248	250	-0.9	20.0
PCB-1242 Peak 4	Lin1		0.2497		240	250	-4.2	20.0
PCB-1242 Peak 5	Lin1		0.3040		247	250	-1.1	20.0
PCB-1268 Peak 1	Lin1		1.526		247	250	-1.4	20.0
PCB-1268 Peak 2	Lin1		1.418		246	250	-1.8	20.0
PCB-1268 Peak 3	Lin1		1.228		245	250	-2.0	20.0
PCB-1268 Peak 4	Lin1		0.5375		243	250	-3.0	20.0
PCB-1268 Peak 5	Lin1		3.614		247	250	-1.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Lab Sample ID: ICV 280-345281/40 Calibration Date: 10/09/2016 01:44
Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 21:46
GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 23:55
Lab File ID: 10081640.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.62	3.37	3.87
PCB-1242 Peak 2	4.07	3.82	4.32
PCB-1242 Peak 3	4.21	3.97	4.47
PCB-1242 Peak 4	5.18	4.93	5.43
PCB-1242 Peak 5	5.23	4.98	5.48
PCB-1268 Peak 1	8.44	8.19	8.69
PCB-1268 Peak 2	8.50	8.25	8.75
PCB-1268 Peak 3	8.85	8.60	9.10
PCB-1268 Peak 4	9.28	9.03	9.53
PCB-1268 Peak 5	9.74	9.49	9.99

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081640.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Oct-2016 01:44:11 ALS Bottle#: 40 Worklist Smp#: 40
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0051591-040
 Operator ID: jax Instrument ID: SGC_P3
 Sublist:

Method: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 09-Oct-2016 09:28:24 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.849	1.848	0.001	287551955	1000.0	1000.0	
2	1.676	1.675	0.001	270831241	1000.0	1000.0	

RPD = 0.00

10 PCB-1242

1	3.546	3.545	0.001	25896091	250.0	253.1	
1	4.019	4.018	0.001	54408901	250.0	244.5	
1	4.162	4.162	0.000	24668252	250.0	248.8	
1	5.116	5.115	0.001	18521736	250.0	246.8	
1	5.139	5.142	-0.003	19409539	250.0	249.3	
Average of Peak Amounts =						248.5	
2	3.619	3.619	0.000	25874692	250.0	251.1	
2	4.069	4.072	-0.003	51934642	250.0	246.5	
2	4.213	4.215	-0.002	22054244	250.0	247.7	
2	5.179	5.182	-0.003	16908504	250.0	239.5	
2	5.229	5.229	0.000	20582667	250.0	247.2	
Average of Peak Amounts =						246.4	

RPD = 0.85

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081640.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

13 PCB-1268

1	8.222	8.225	-0.003	118773830	250.0	244.2
1	8.276	8.275	0.001	112787280	250.0	245.6
1	8.549	8.548	0.001	96935377	250.0	243.4
1	9.062	9.062	0.000	45680674	250.0	238.2
1	9.472	9.475	-0.003	296955486	250.0	248.2

Average of Peak Amounts = 243.9

2	8.436	8.435	0.001	103353939	250.0	246.6
2	8.496	8.499	-0.003	95993399	250.0	245.6
2	8.846	8.849	-0.003	83150165	250.0	245.1
2	9.279	9.279	0.000	36394395	250.0	242.5
2	9.743	9.742	0.001	244704037	250.0	246.9

Average of Peak Amounts = 245.3

RPD = 0.58

Reagents:

AR_4268_ICV_00009

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 09-Oct-2016 09:28:39

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081640.D

Injection Date: 09-Oct-2016 01:44:11

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: ICV

Worklist Smp#: 40

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

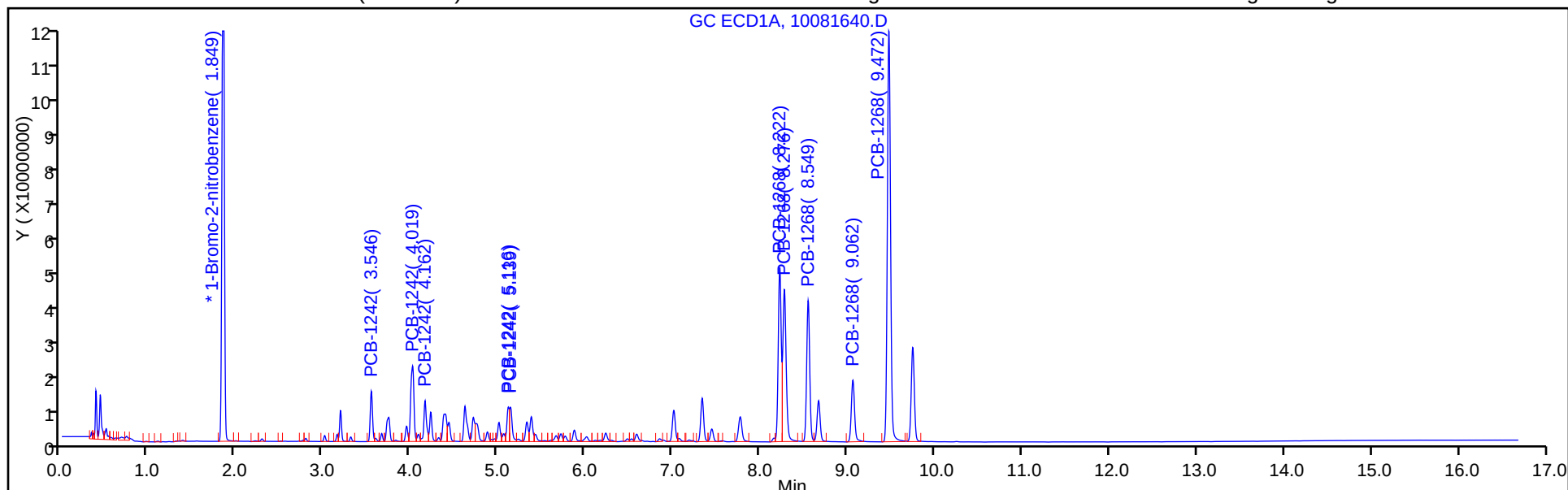
ALS Bottle#: 40

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

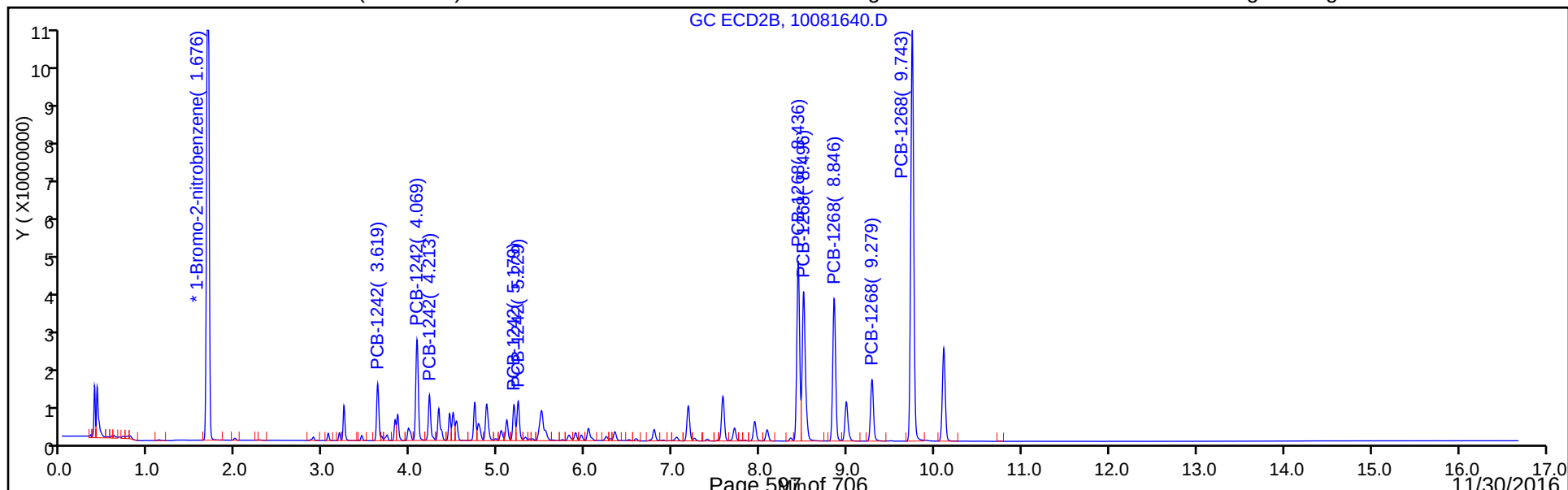
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Lab Sample ID: CCVIS 280-353508/3 Calibration Date: 11/29/2016 11:38

Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42

GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52

Lab File ID: 11291603.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.2257		529	500	5.7	20.0
PCB-1016 Peak 2	Lin1		0.4280		538	500	7.5	20.0
PCB-1016 Peak 3	Lin1		0.9474		534	500	6.9	20.0
PCB-1016 Peak 4	Lin1		0.4242		538	500	7.5	20.0
PCB-1016 Peak 5	Lin1		0.4323		544	500	8.9	20.0
PCB-1260 Peak 1	Lin1		0.6411		532	500	6.5	20.0
PCB-1260 Peak 2	Lin1		1.233		549	500	9.8	20.0
PCB-1260 Peak 3	Lin1		0.5849		532	500	6.4	20.0
PCB-1260 Peak 4	Lin1		1.246		522	500	4.3	20.0
PCB-1260 Peak 5	Lin1		0.6948		522	500	4.5	20.0
Tetrachloro-m-xylene (Surr)	Lin1		13.40		25.7	25.0	2.7	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		13.65		27.0	25.0	8.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCVIS 280-353508/3 Calibration Date: 11/29/2016 11:38
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291603.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.21	2.96	3.46
PCB-1016 Peak 2	3.56	3.31	3.81
PCB-1016 Peak 3	4.04	3.79	4.29
PCB-1016 Peak 4	4.18	3.93	4.43
PCB-1016 Peak 5	4.64	4.39	4.89
PCB-1260 Peak 1	6.13	5.88	6.38
PCB-1260 Peak 2	6.87	6.62	7.12
PCB-1260 Peak 3	7.36	7.11	7.61
PCB-1260 Peak 4	7.80	7.55	8.05
PCB-1260 Peak 5	8.18	7.93	8.43
Tetrachloro-m-xylene (Surr)	2.81	2.56	3.06
DCB Decachlorobiphenyl (Surr)	9.77	9.52	10.02

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291603.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 29-Nov-2016 11:38:52 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 280-0053650-003
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:12 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 29-Nov-2016 12:54:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.859	1.859	0.000	299277280	1000.0	1000.0	
2	1.682	1.682	0.000	231573995	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.809	2.809	0.000	100289322	25.0	25.7	
2	2.739	2.739	0.000	75427639	25.0	22.9	
RPD = 11.40							

1 PCB-1016

1	3.205	3.205	0.000	33772880	500.0	528.5	
1	3.559	3.559	0.000	64037936	500.0	537.7	a
1	4.035	4.035	0.000	141766158	500.0	534.5	
1	4.179	4.179	0.000	63476135	500.0	537.7	
1	4.635	4.635	0.000	64689920	500.0	544.3	
Average of Peak Amounts =						536.5	
2	3.622	3.622	0.000	49779076	500.0	502.7	a
2	4.075	4.075	0.000	106131876	500.0	514.9	
2	4.219	4.219	0.000	45811069	500.0	518.7	
2	4.449	4.449	0.000	25522342	500.0	519.6	a
2	4.735	4.735	0.000	36187532	500.0	516.6	a
Average of Peak Amounts =						514.5	
RPD = 4.19							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291603.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.129	6.129	0.000	95931471	500.0	532.4	
1	6.865	6.865	0.000	184559798	500.0	548.9	
1	7.359	7.359	0.000	87523697	500.0	531.9	
1	7.795	7.795	0.000	186462806	500.0	521.7	
1	8.182	8.182	0.000	103965645	500.0	522.5	

Average of Peak Amounts = 531.5

2	6.585	6.585	0.000	86789460	500.0	536.4	
2	7.049	7.049	0.000	134356975	500.0	543.3	
2	7.575	7.575	0.000	61610956	500.0	528.5	
2	7.942	7.942	0.000	138508570	500.0	536.7	
2	8.445	8.445	0.000	104163393	500.0	538.9	

Average of Peak Amounts = 536.8

RPD = 0.99

\$ 15 DCB Decachlorobiphenyl

1	9.769	9.769	0.000	102162640	25.0	27.0	
2	10.109	10.109	0.000	73510383	25.0	28.6	

RPD = 5.64

19 1260 Res 1

1	8.182	8.182	0.000	103965645	NR	NR	

16 1260 Res 2

1	8.242	8.242	0.000	40553556	NR	NR	

18 1260 Res 3

1	8.305	8.305	0.000	53099302	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

AR_1660_L5_00061

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:13

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291603.D

Injection Date: 29-Nov-2016 11:38:52

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

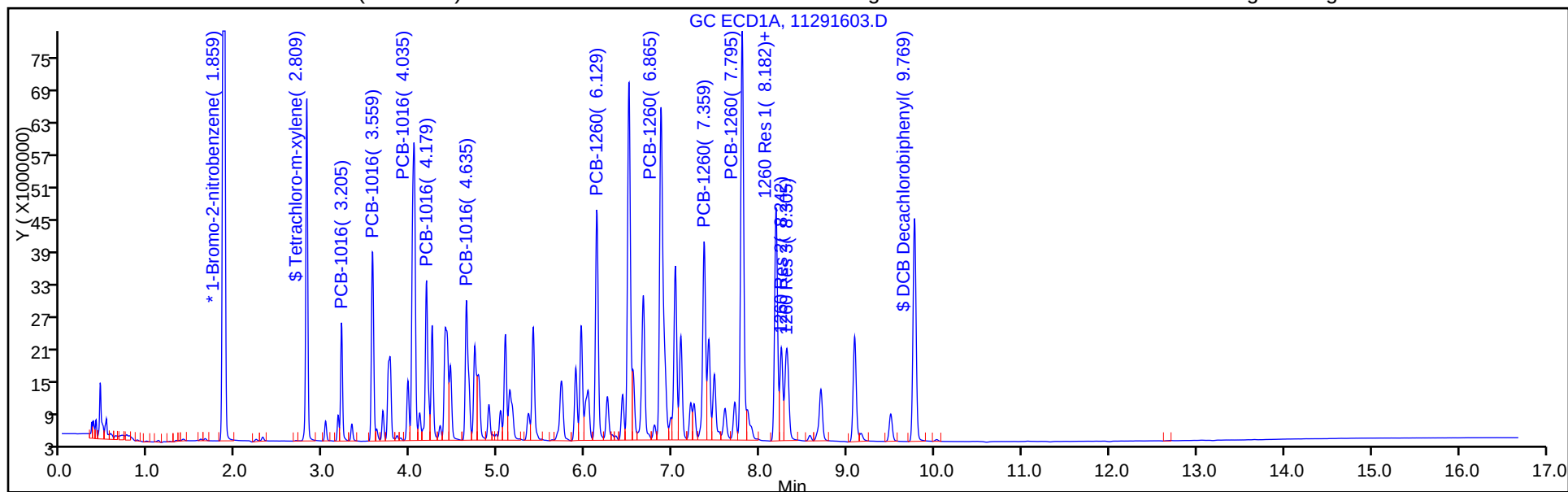
ALS Bottle#: 3

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

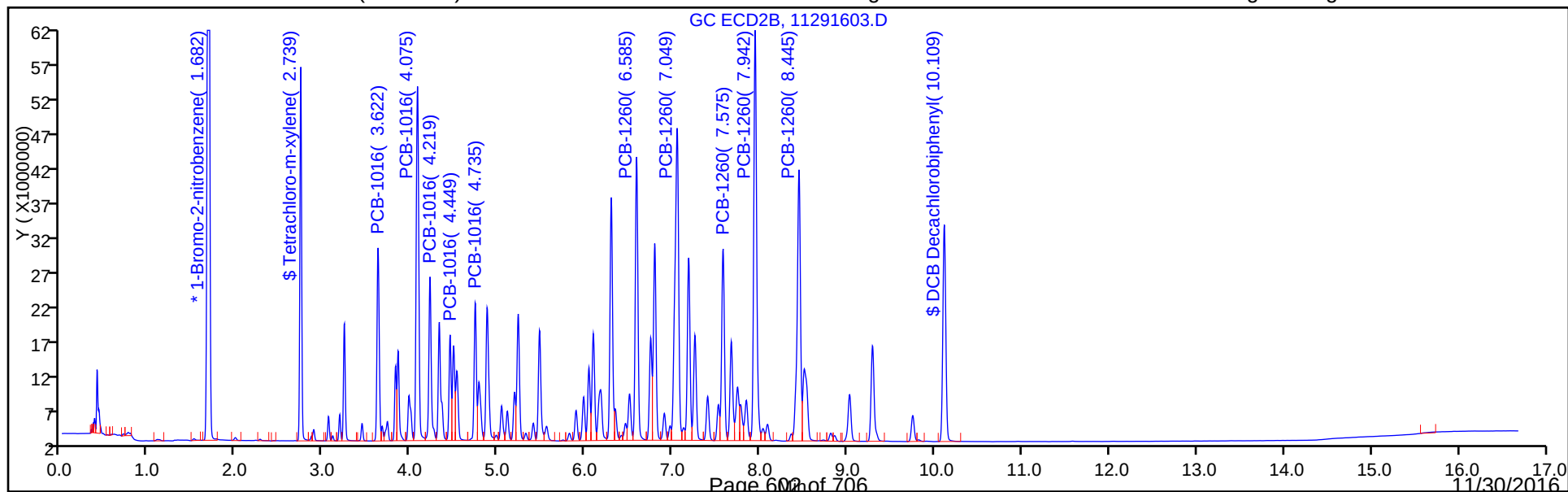
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Lab Sample ID: CCVIS 280-353508/3 Calibration Date: 11/29/2016 11:38

Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42

GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52

Lab File ID: 11291603.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.4299		503	500	0.5	20.0
PCB-1016 Peak 2	Lin1		0.9166		515	500	3.0	20.0
PCB-1016 Peak 3	Lin1		0.3957		519	500	3.7	20.0
PCB-1016 Peak 4	Lin1		0.2204		520	500	3.9	20.0
PCB-1016 Peak 5	Lin1		0.3125		517	500	3.3	20.0
PCB-1260 Peak 1	Lin1		0.7496		536	500	7.3	20.0
PCB-1260 Peak 2	Lin1		1.160		543	500	8.7	20.0
PCB-1260 Peak 3	Lin1		0.5321		529	500	5.7	20.0
PCB-1260 Peak 4	Lin1		1.196		537	500	7.3	20.0
PCB-1260 Peak 5	Lin1		0.8996		539	500	7.8	20.0
Tetrachloro-m-xylene (Surr)	Lin1		13.03		22.9	25.0	-8.3	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		12.70		28.6	25.0	14.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCVIS 280-353508/3 Calibration Date: 11/29/2016 11:38
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291603.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.62	3.37	3.87
PCB-1016 Peak 2	4.08	3.83	4.33
PCB-1016 Peak 3	4.22	3.97	4.47
PCB-1016 Peak 4	4.45	4.20	4.70
PCB-1016 Peak 5	4.74	4.49	4.99
PCB-1260 Peak 1	6.59	6.34	6.84
PCB-1260 Peak 2	7.05	6.80	7.30
PCB-1260 Peak 3	7.58	7.33	7.83
PCB-1260 Peak 4	7.94	7.69	8.19
PCB-1260 Peak 5	8.45	8.20	8.70
Tetrachloro-m-xylene (Surr)	2.74	2.49	2.99
DCB Decachlorobiphenyl (Surr)	10.11	9.86	10.36

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291603.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 29-Nov-2016 11:38:52 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 280-0053650-003
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:12 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 29-Nov-2016 12:54:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.859	1.859	0.000	299277280	1000.0	1000.0	
2	1.682	1.682	0.000	231573995	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.809	2.809	0.000	100289322	25.0	25.7	
2	2.739	2.739	0.000	75427639	25.0	22.9	
RPD = 11.40							

1 PCB-1016

1	3.205	3.205	0.000	33772880	500.0	528.5	
1	3.559	3.559	0.000	64037936	500.0	537.7	a
1	4.035	4.035	0.000	141766158	500.0	534.5	
1	4.179	4.179	0.000	63476135	500.0	537.7	
1	4.635	4.635	0.000	64689920	500.0	544.3	
Average of Peak Amounts =						536.5	
2	3.622	3.622	0.000	49779076	500.0	502.7	a
2	4.075	4.075	0.000	106131876	500.0	514.9	
2	4.219	4.219	0.000	45811069	500.0	518.7	
2	4.449	4.449	0.000	25522342	500.0	519.6	a
2	4.735	4.735	0.000	36187532	500.0	516.6	a
Average of Peak Amounts =						514.5	
RPD = 4.19							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291603.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.129	6.129	0.000	95931471	500.0	532.4	
1	6.865	6.865	0.000	184559798	500.0	548.9	
1	7.359	7.359	0.000	87523697	500.0	531.9	
1	7.795	7.795	0.000	186462806	500.0	521.7	
1	8.182	8.182	0.000	103965645	500.0	522.5	

Average of Peak Amounts = 531.5

2	6.585	6.585	0.000	86789460	500.0	536.4	
2	7.049	7.049	0.000	134356975	500.0	543.3	
2	7.575	7.575	0.000	61610956	500.0	528.5	
2	7.942	7.942	0.000	138508570	500.0	536.7	
2	8.445	8.445	0.000	104163393	500.0	538.9	

Average of Peak Amounts = 536.8

RPD = 0.99

\$ 15 DCB Decachlorobiphenyl

1	9.769	9.769	0.000	102162640	25.0	27.0	
2	10.109	10.109	0.000	73510383	25.0	28.6	

RPD = 5.64

19 1260 Res 1

1	8.182	8.182	0.000	103965645	NR	NR	

16 1260 Res 2

1	8.242	8.242	0.000	40553556	NR	NR	

18 1260 Res 3

1	8.305	8.305	0.000	53099302	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

AR_1660_L5_00061

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:14

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291603.D

Injection Date: 29-Nov-2016 11:38:52

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

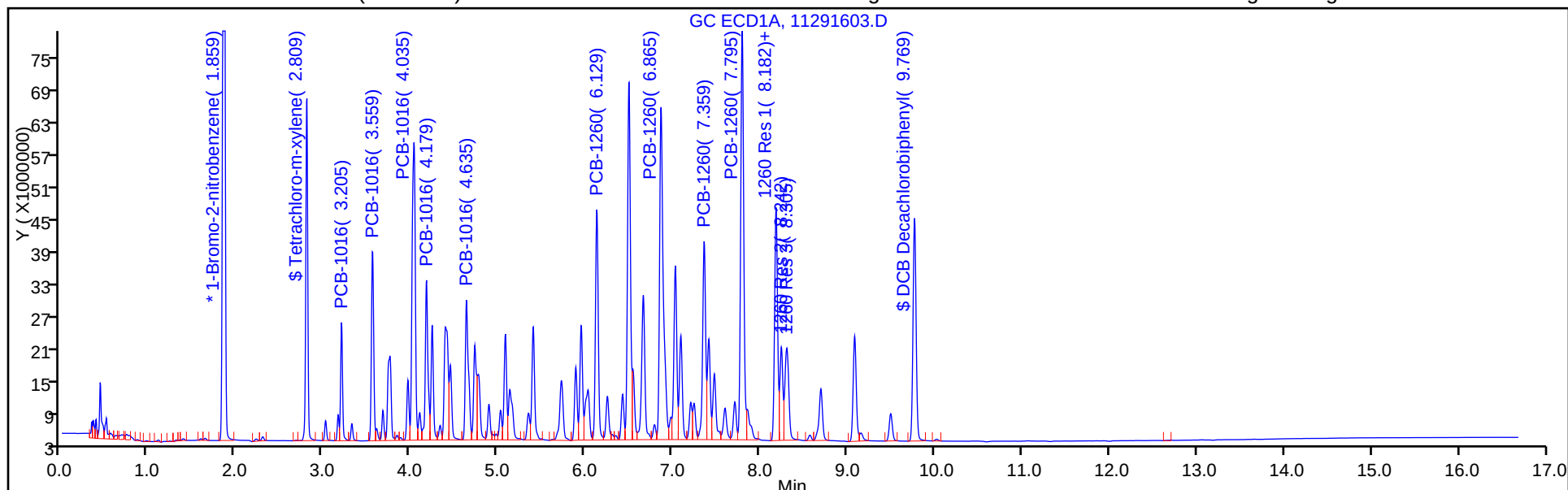
ALS Bottle#: 3

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

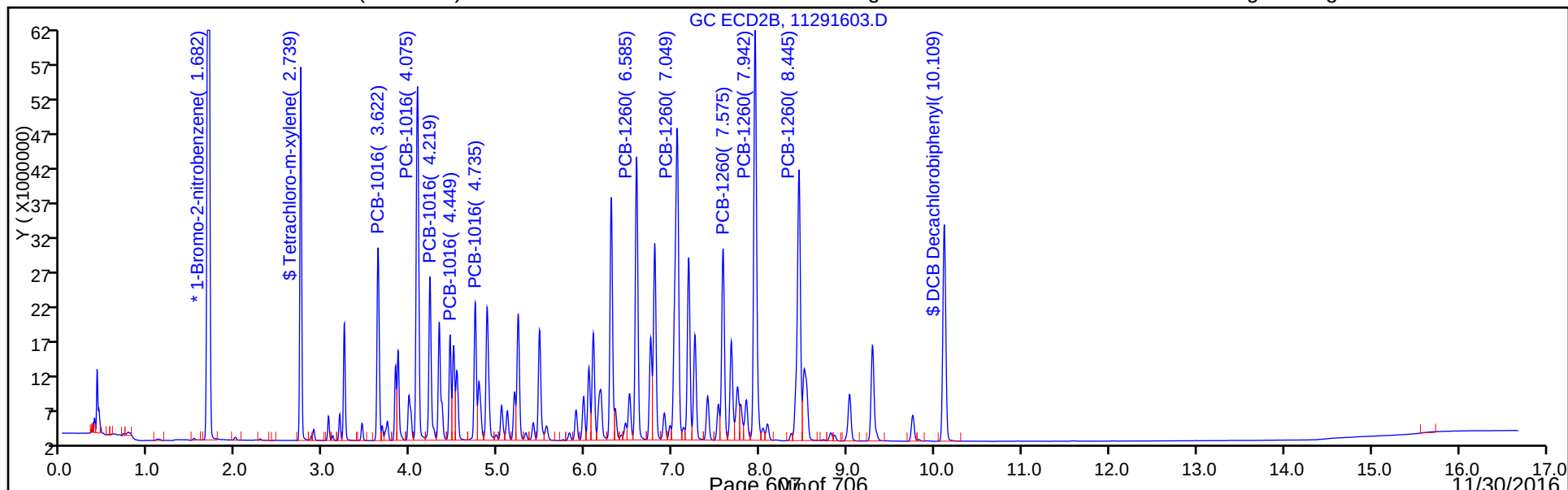
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-353508/15 Calibration Date: 11/29/2016 15:59
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291615.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.2219		519	500	3.9	20.0
PCB-1016 Peak 2	Lin1		0.4200		527	500	5.5	20.0
PCB-1016 Peak 3	Lin1		0.9264		522	500	4.5	20.0
PCB-1016 Peak 4	Lin1		0.4158		527	500	5.4	20.0
PCB-1016 Peak 5	Lin1		0.4216		531	500	6.1	20.0
PCB-1260 Peak 1	Lin1		0.6363		528	500	5.7	20.0
PCB-1260 Peak 2	Lin1		1.199		533	500	6.7	20.0
PCB-1260 Peak 3	Lin1		0.5730		521	500	4.2	20.0
PCB-1260 Peak 4	Lin1		1.215		508	500	1.7	20.0
PCB-1260 Peak 5	Lin1		0.6819		513	500	2.5	20.0
Tetrachloro-m-xylene (Surr)	Lin1		13.12		25.1	25.0	0.5	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		13.53		26.8	25.0	7.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-353508/15 Calibration Date: 11/29/2016 15:59
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291615.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.21	2.96	3.46
PCB-1016 Peak 2	3.56	3.31	3.81
PCB-1016 Peak 3	4.04	3.79	4.29
PCB-1016 Peak 4	4.18	3.93	4.43
PCB-1016 Peak 5	4.64	4.39	4.89
PCB-1260 Peak 1	6.13	5.88	6.38
PCB-1260 Peak 2	6.86	6.62	7.12
PCB-1260 Peak 3	7.36	7.11	7.61
PCB-1260 Peak 4	7.79	7.55	8.05
PCB-1260 Peak 5	8.18	7.93	8.43
Tetrachloro-m-xylene (Surr)	2.81	2.56	3.06
DCB Decachlorobiphenyl (Surr)	9.77	9.52	10.02

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291615.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Nov-2016 15:59:20 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0053650-015
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:30:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.857	1.859	-0.002	312072456	1000.0	1000.0	
2	1.680	1.682	-0.002	242260753	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.807	2.809	-0.002	102393402	25.0	25.1	
2	2.737	2.739	-0.002	76879416	25.0	22.3	
RPD = 11.89							

1 PCB-1016

1	3.207	3.205	0.002	34621378	500.0	519.4	
1	3.560	3.559	0.001	65533297	500.0	527.4	
1	4.037	4.035	0.002	144553579	500.0	522.4	
1	4.177	4.179	-0.002	64884250	500.0	526.8	
1	4.637	4.635	0.002	65784525	500.0	530.6	
Average of Peak Amounts =						525.3	
2	3.624	3.622	0.002	50212542	500.0	484.2	
2	4.077	4.075	0.002	108080520	500.0	500.9	
2	4.217	4.219	-0.002	46592841	500.0	504.0	
2	4.450	4.449	0.001	26514521	500.0	515.9	
2	4.737	4.735	0.002	37270033	500.0	508.5	
Average of Peak Amounts =						502.7	
RPD = 4.40							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291615.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.130	6.129	0.001	99285838	500.0	528.3	
1	6.864	6.865	-0.001	187084469	500.0	533.4	
1	7.360	7.359	0.001	89413583	500.0	520.9	
1	7.794	7.795	-0.001	189539617	500.0	508.3	
1	8.184	8.182	0.002	106399422	500.0	512.6	

Average of Peak Amounts =

520.7

2	6.584	6.585	-0.001	89522784	500.0	528.7	
2	7.050	7.049	0.001	137810334	500.0	532.5	
2	7.574	7.575	-0.001	62943507	500.0	515.9	
2	7.944	7.942	0.002	141902578	500.0	525.5	
2	8.444	8.445	-0.001	105585853	500.0	521.9	

Average of Peak Amounts =

524.9

RPD = 0.81

\$ 15 DCB Decachlorobiphenyl

1	9.770	9.769	0.001	105547019	25.0	26.8	
2	10.110	10.109	0.001	75281669	25.0	28.0	

RPD = 4.42

S 8 Polychlorinated biphenyls, Total

1						1046.0	
2						1027.6	

RPD = 1.77

19 1260 Res 1

1		8.182			ND	ND	

16 1260 Res 2

1		8.242			ND	ND	

18 1260 Res 3

1		8.305			ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

AR_1660_L5_00061

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:35

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291615.D

Injection Date: 29-Nov-2016 15:59:20

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: CCV

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

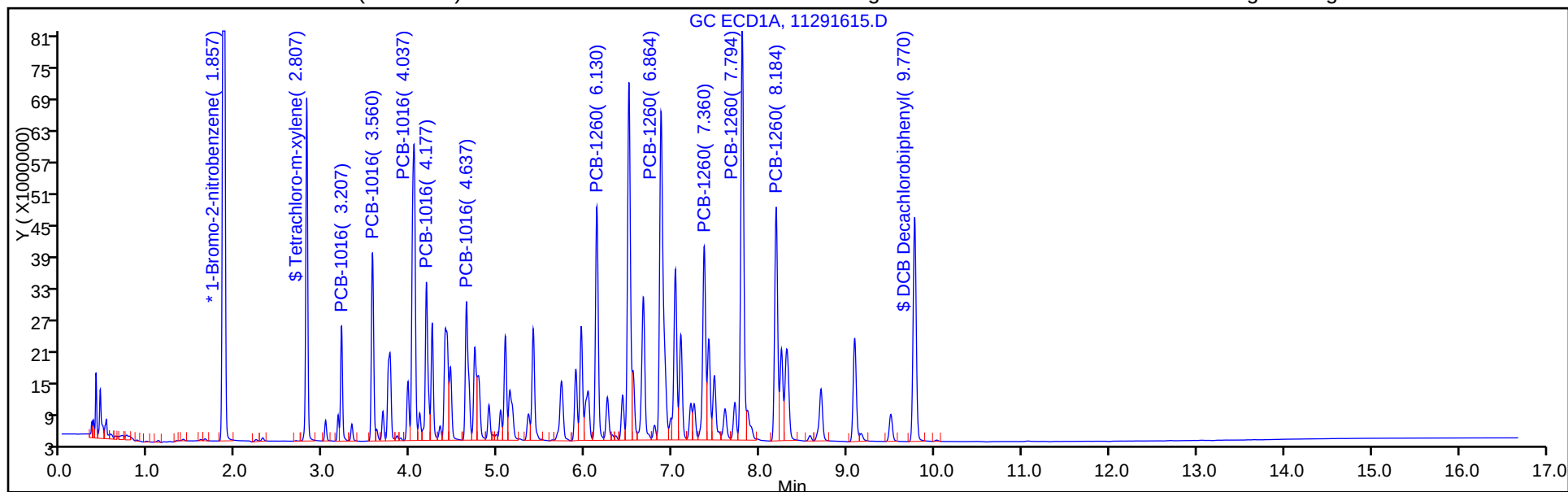
ALS Bottle#: 15

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

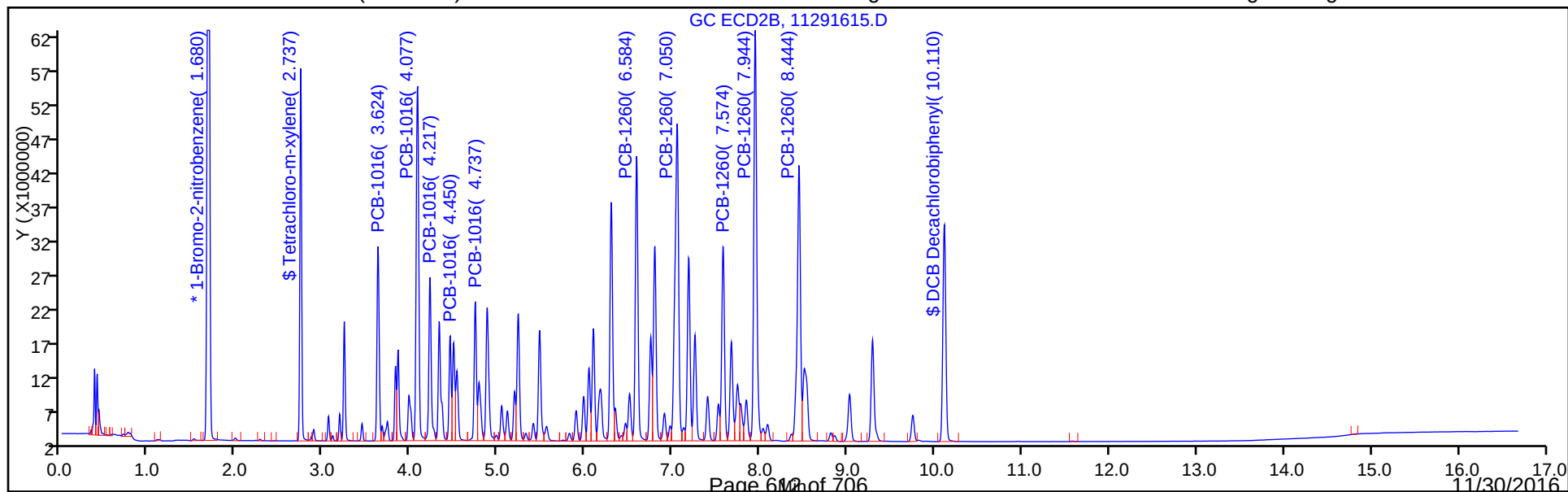
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Lab Sample ID: CCV 280-353508/15 Calibration Date: 11/29/2016 15:59

Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42

GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52

Lab File ID: 11291615.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.4145		484	500	-3.2	20.0
PCB-1016 Peak 2	Lin1		0.8923		501	500	0.2	20.0
PCB-1016 Peak 3	Lin1		0.3847		504	500	0.8	20.0
PCB-1016 Peak 4	Lin1		0.2189		516	500	3.2	20.0
PCB-1016 Peak 5	Lin1		0.3077		508	500	1.7	20.0
PCB-1260 Peak 1	Lin1		0.7391		529	500	5.7	20.0
PCB-1260 Peak 2	Lin1		1.138		533	500	6.5	20.0
PCB-1260 Peak 3	Lin1		0.5196		516	500	3.2	20.0
PCB-1260 Peak 4	Lin1		1.171		525	500	5.1	20.0
PCB-1260 Peak 5	Lin1		0.8717		522	500	4.4	20.0
Tetrachloro-m-xylene (Surr)	Lin1		12.69		22.3	25.0	-10.7	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		12.43		28.0	25.0	11.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-353508/15 Calibration Date: 11/29/2016 15:59
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291615.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.62	3.37	3.87
PCB-1016 Peak 2	4.08	3.83	4.33
PCB-1016 Peak 3	4.22	3.97	4.47
PCB-1016 Peak 4	4.45	4.20	4.70
PCB-1016 Peak 5	4.74	4.49	4.99
PCB-1260 Peak 1	6.58	6.34	6.84
PCB-1260 Peak 2	7.05	6.80	7.30
PCB-1260 Peak 3	7.57	7.33	7.83
PCB-1260 Peak 4	7.94	7.69	8.19
PCB-1260 Peak 5	8.44	8.20	8.70
Tetrachloro-m-xylene (Surr)	2.74	2.49	2.99
DCB Decachlorobiphenyl (Surr)	10.11	9.86	10.36

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291615.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Nov-2016 15:59:20 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0053650-015
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:30:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.857	1.859	-0.002	312072456	1000.0	1000.0	
2	1.680	1.682	-0.002	242260753	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.807	2.809	-0.002	102393402	25.0	25.1	
2	2.737	2.739	-0.002	76879416	25.0	22.3	
RPD = 11.89							

1 PCB-1016

1	3.207	3.205	0.002	34621378	500.0	519.4	
1	3.560	3.559	0.001	65533297	500.0	527.4	
1	4.037	4.035	0.002	144553579	500.0	522.4	
1	4.177	4.179	-0.002	64884250	500.0	526.8	
1	4.637	4.635	0.002	65784525	500.0	530.6	

Average of Peak Amounts = 525.3

2	3.624	3.622	0.002	50212542	500.0	484.2	
2	4.077	4.075	0.002	108080520	500.0	500.9	
2	4.217	4.219	-0.002	46592841	500.0	504.0	
2	4.450	4.449	0.001	26514521	500.0	515.9	
2	4.737	4.735	0.002	37270033	500.0	508.5	

Average of Peak Amounts = 502.7

RPD = 4.40

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291615.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.130	6.129	0.001	99285838	500.0	528.3	
1	6.864	6.865	-0.001	187084469	500.0	533.4	
1	7.360	7.359	0.001	89413583	500.0	520.9	
1	7.794	7.795	-0.001	189539617	500.0	508.3	
1	8.184	8.182	0.002	106399422	500.0	512.6	

Average of Peak Amounts =

520.7

2	6.584	6.585	-0.001	89522784	500.0	528.7	
2	7.050	7.049	0.001	137810334	500.0	532.5	
2	7.574	7.575	-0.001	62943507	500.0	515.9	
2	7.944	7.942	0.002	141902578	500.0	525.5	
2	8.444	8.445	-0.001	105585853	500.0	521.9	

Average of Peak Amounts =

524.9

RPD = 0.81

\$ 15 DCB Decachlorobiphenyl

1	9.770	9.769	0.001	105547019	25.0	26.8	
2	10.110	10.109	0.001	75281669	25.0	28.0	

RPD = 4.42

S 8 Polychlorinated biphenyls, Total

1						1046.0	
2						1027.6	

RPD = 1.77

19 1260 Res 1

1		8.182			ND	ND	

16 1260 Res 2

1		8.242			ND	ND	

18 1260 Res 3

1		8.305			ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

AR_1660_L5_00061

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:36

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291615.D

Injection Date: 29-Nov-2016 15:59:20

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: CCV

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

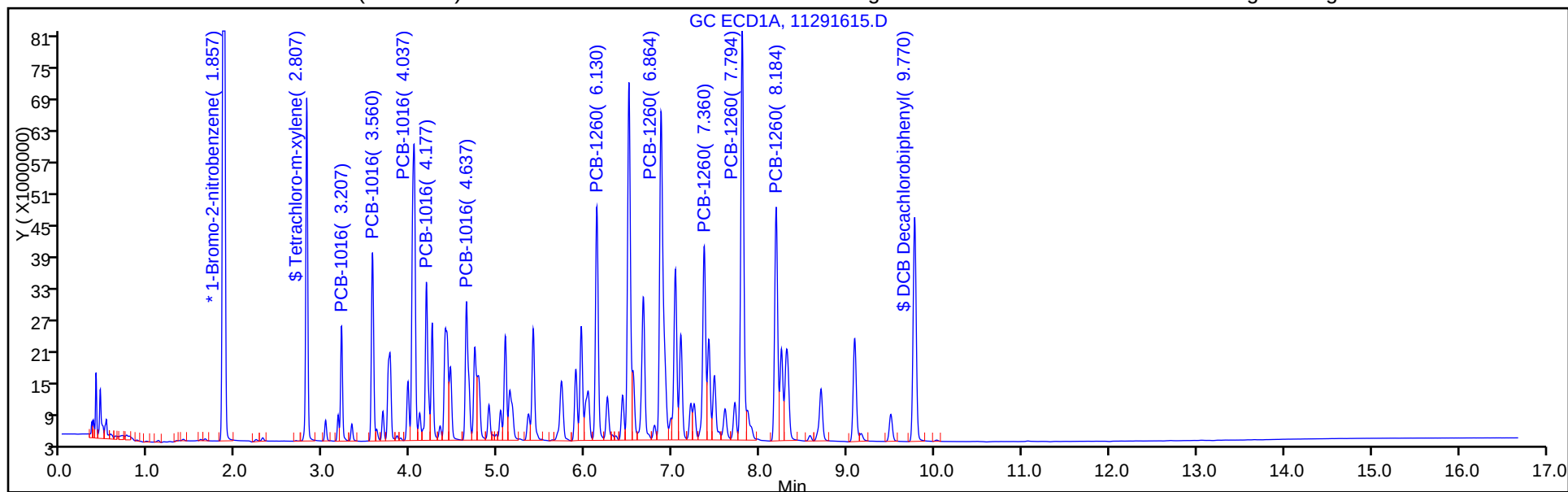
ALS Bottle#: 15

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

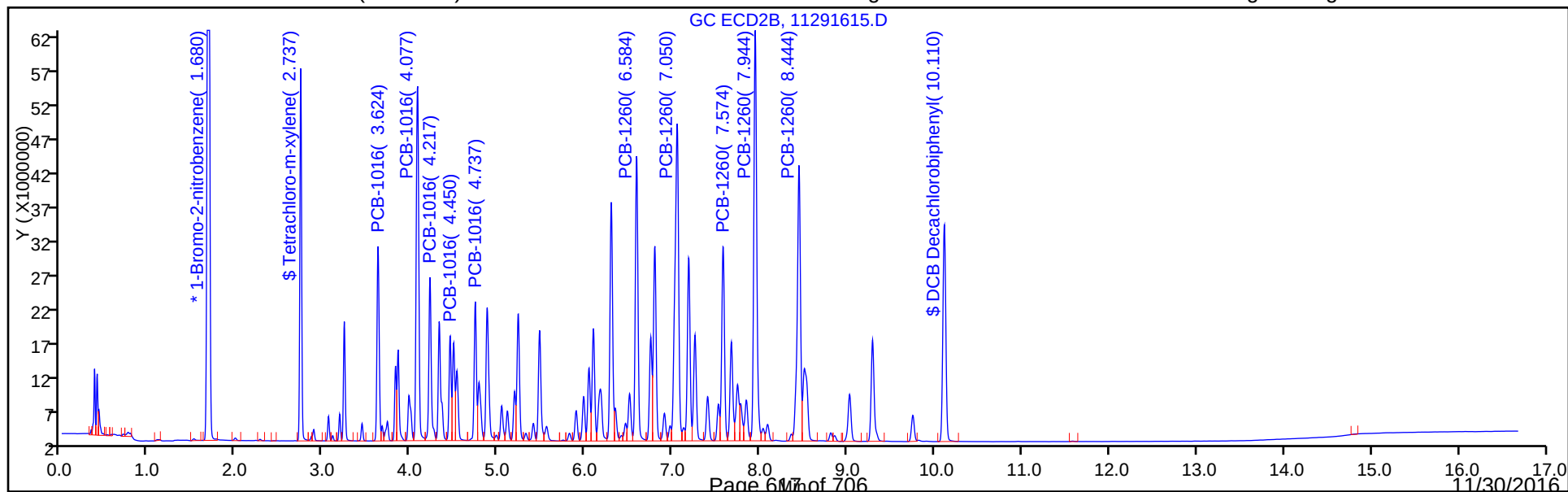
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-353508/28 Calibration Date: 11/29/2016 20:41
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291628.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.2253		528	500	5.5	20.0
PCB-1016 Peak 2	Lin1		0.4226		531	500	6.1	20.0
PCB-1016 Peak 3	Lin1		0.9341		527	500	5.4	20.0
PCB-1016 Peak 4	Lin1		0.4158		527	500	5.4	20.0
PCB-1016 Peak 5	Lin1		0.4249		535	500	7.0	20.0
PCB-1260 Peak 1	Lin1		0.6337		526	500	5.2	20.0
PCB-1260 Peak 2	Lin1		1.210		539	500	7.7	20.0
PCB-1260 Peak 3	Lin1		0.5682		516	500	3.3	20.0
PCB-1260 Peak 4	Lin1		1.220		511	500	2.1	20.0
PCB-1260 Peak 5	Lin1		0.7005		527	500	5.4	20.0
Tetrachloro-m-xylene (Surr)	Lin1		13.20		25.3	25.0	1.1	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		13.57		26.8	25.0	7.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-353508/28 Calibration Date: 11/29/2016 20:41
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP1 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291628.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.20	2.96	3.46
PCB-1016 Peak 2	3.56	3.31	3.81
PCB-1016 Peak 3	4.03	3.79	4.29
PCB-1016 Peak 4	4.18	3.93	4.43
PCB-1016 Peak 5	4.63	4.39	4.89
PCB-1260 Peak 1	6.13	5.88	6.38
PCB-1260 Peak 2	6.86	6.62	7.12
PCB-1260 Peak 3	7.36	7.11	7.61
PCB-1260 Peak 4	7.79	7.55	8.05
PCB-1260 Peak 5	8.18	7.93	8.43
Tetrachloro-m-xylene (Surr)	2.81	2.56	3.06
DCB Decachlorobiphenyl (Surr)	9.77	9.52	10.02

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291628.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Nov-2016 20:41:25 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0053650-028
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:55 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:33:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.857	1.859	-0.002	308118562	1000.0	1000.0	
2	1.681	1.682	-0.001	239255331	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.807	2.809	-0.002	101662504	25.0	25.3	
2	2.738	2.739	-0.001	76671437	25.0	22.5	
RPD = 11.47							

1 PCB-1016

1	3.204	3.205	-0.001	34709642	500.0	527.6	
1	3.561	3.559	0.002	65097408	500.0	530.7	
1	4.034	4.035	-0.001	143900495	500.0	526.8	
1	4.177	4.179	-0.002	64060673	500.0	526.8	
1	4.634	4.635	-0.001	65460430	500.0	534.8	
Average of Peak Amounts =						529.3	
2	3.624	3.622	0.002	50569457	500.0	494.0	
2	4.078	4.075	0.003	108132673	500.0	507.6	
2	4.218	4.219	-0.001	46660592	500.0	511.2	
2	4.448	4.449	-0.001	25261560	500.0	497.4	
2	4.738	4.735	0.003	36303340	500.0	501.4	
Average of Peak Amounts =						502.3	
RPD = 5.24							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291628.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.127	6.129	-0.002	97628055	500.0	526.1	
1	6.864	6.865	-0.001	186472746	500.0	538.5	
1	7.357	7.359	-0.002	87529991	500.0	516.4	
1	7.794	7.795	-0.001	187978321	500.0	510.6	
1	8.181	8.182	-0.001	107922023	500.0	526.9	

Average of Peak Amounts =

523.7

2	6.584	6.585	-0.001	88219402	500.0	527.5	
2	7.051	7.049	0.002	137214085	500.0	537.0	
2	7.574	7.575	-0.001	62665194	500.0	520.2	
2	7.944	7.942	0.002	141842557	500.0	531.9	
2	8.444	8.445	-0.001	105891256	500.0	530.1	

Average of Peak Amounts =

529.3

RPD = 1.07

\$ 15 DCB Decachlorobiphenyl

1	9.767	9.769	-0.002	104545434	25.0	26.8	
2	10.108	10.109	-0.001	74851247	25.0	28.2	

RPD = 4.78

S 8 Polychlorinated biphenyls, Total

1						1053.1	
2						1031.7	

RPD = 2.05

19 1260 Res 1

1		8.182			ND	ND	

16 1260 Res 2

1		8.242			ND	ND	

18 1260 Res 3

1		8.305			ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

AR_1660_L5_00061

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:56

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291628.D

Injection Date: 29-Nov-2016 20:41:25

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: CCV

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

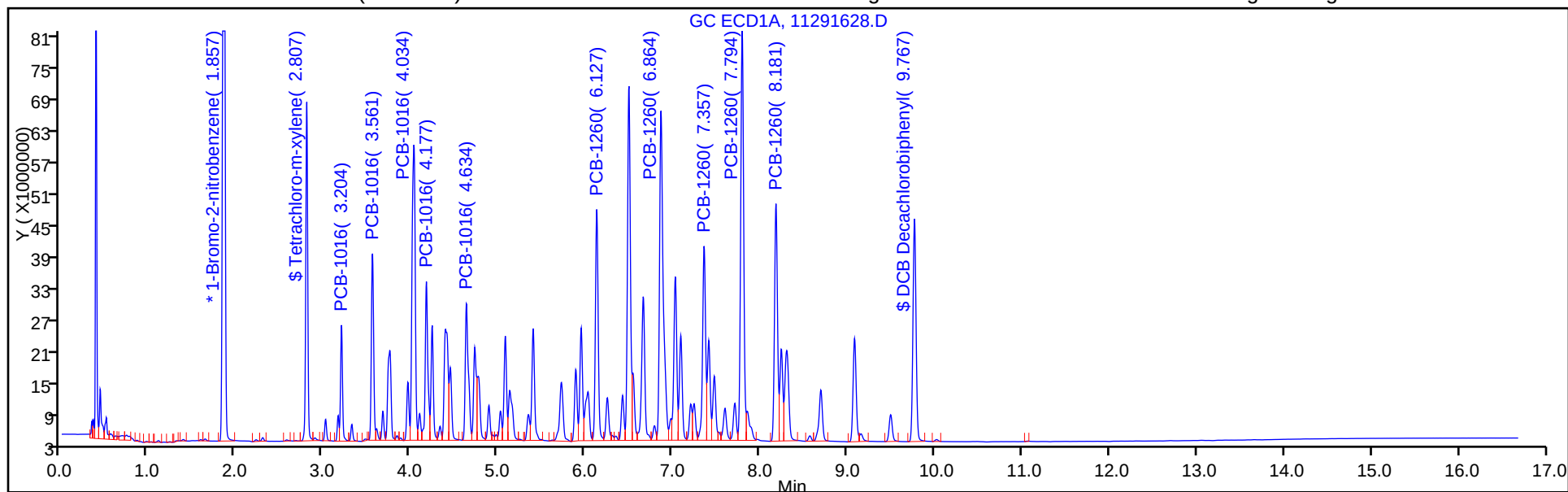
ALS Bottle#: 28

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

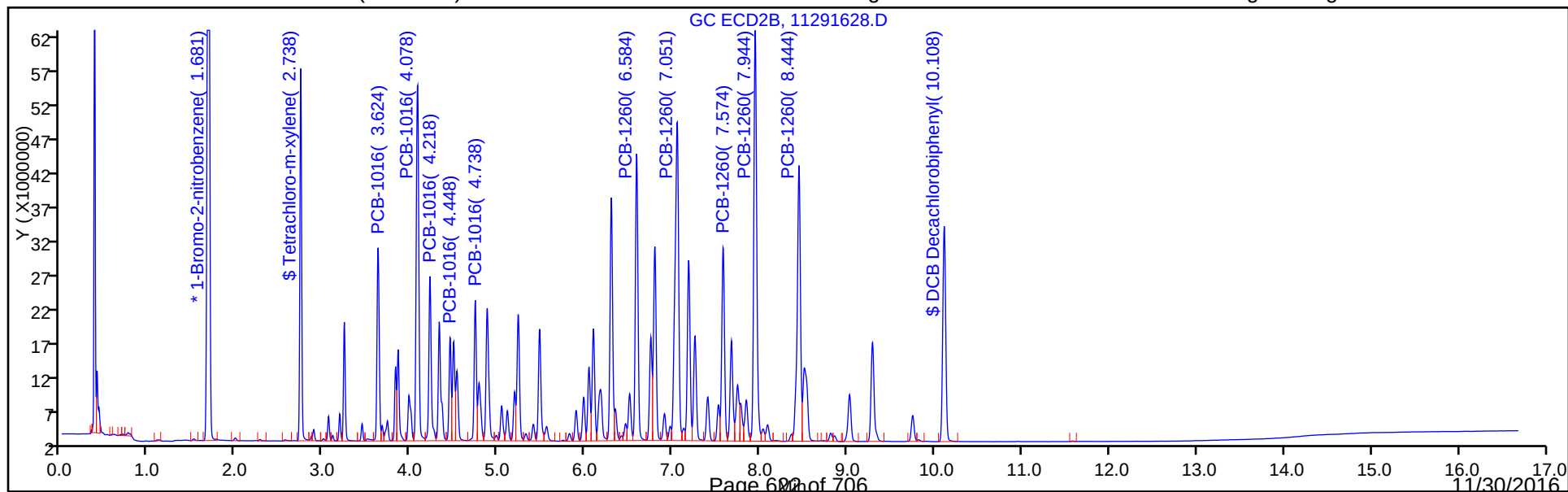
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Lab Sample ID: CCV 280-353508/28 Calibration Date: 11/29/2016 20:41

Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42

GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52

Lab File ID: 11291628.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.4227		494	500	-1.2	20.0
PCB-1016 Peak 2	Lin1		0.9039		508	500	1.5	20.0
PCB-1016 Peak 3	Lin1		0.3901		511	500	2.2	20.0
PCB-1016 Peak 4	Lin1		0.2112		497	500	-0.5	20.0
PCB-1016 Peak 5	Lin1		0.3035		501	500	0.3	20.0
PCB-1260 Peak 1	Lin1		0.7375		528	500	5.5	20.0
PCB-1260 Peak 2	Lin1		1.147		537	500	7.4	20.0
PCB-1260 Peak 3	Lin1		0.5238		520	500	4.0	20.0
PCB-1260 Peak 4	Lin1		1.186		532	500	6.4	20.0
PCB-1260 Peak 5	Lin1		0.8852		530	500	6.0	20.0
Tetrachloro-m-xylene (Surr)	Lin1		12.82		22.5	25.0	-9.8	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		12.51		28.2	25.0	12.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Lab Sample ID: CCV 280-353508/28 Calibration Date: 11/29/2016 20:41
 Instrument ID: SGC_P3 Calib Start Date: 10/08/2016 16:42
 GC Column: CLP2 ID: 0.32 (mm) Calib End Date: 10/08/2016 18:52
 Lab File ID: 11291628.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.62	3.37	3.87
PCB-1016 Peak 2	4.08	3.83	4.33
PCB-1016 Peak 3	4.22	3.97	4.47
PCB-1016 Peak 4	4.45	4.20	4.70
PCB-1016 Peak 5	4.74	4.49	4.99
PCB-1260 Peak 1	6.58	6.34	6.84
PCB-1260 Peak 2	7.05	6.80	7.30
PCB-1260 Peak 3	7.57	7.33	7.83
PCB-1260 Peak 4	7.94	7.69	8.19
PCB-1260 Peak 5	8.44	8.20	8.70
Tetrachloro-m-xylene (Surr)	2.74	2.49	2.99
DCB Decachlorobiphenyl (Surr)	10.11	9.86	10.36

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291628.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Nov-2016 20:41:25 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0053650-028
 Operator ID: jax Instrument ID: SGC_P3
 Sublist: chrom-PCB_P3*sub1
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:55 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:33:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.857	1.859	-0.002	308118562	1000.0	1000.0	
2	1.681	1.682	-0.001	239255331	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.807	2.809	-0.002	101662504	25.0	25.3	
2	2.738	2.739	-0.001	76671437	25.0	22.5	
RPD = 11.47							

1 PCB-1016

1	3.204	3.205	-0.001	34709642	500.0	527.6	
1	3.561	3.559	0.002	65097408	500.0	530.7	
1	4.034	4.035	-0.001	143900495	500.0	526.8	
1	4.177	4.179	-0.002	64060673	500.0	526.8	
1	4.634	4.635	-0.001	65460430	500.0	534.8	
Average of Peak Amounts =						529.3	
2	3.624	3.622	0.002	50569457	500.0	494.0	
2	4.078	4.075	0.003	108132673	500.0	507.6	
2	4.218	4.219	-0.001	46660592	500.0	511.2	
2	4.448	4.449	-0.001	25261560	500.0	497.4	
2	4.738	4.735	0.003	36303340	500.0	501.4	
Average of Peak Amounts =						502.3	
RPD = 5.24							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291628.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.127	6.129	-0.002	97628055	500.0	526.1	
1	6.864	6.865	-0.001	186472746	500.0	538.5	
1	7.357	7.359	-0.002	87529991	500.0	516.4	
1	7.794	7.795	-0.001	187978321	500.0	510.6	
1	8.181	8.182	-0.001	107922023	500.0	526.9	

Average of Peak Amounts =

523.7

2	6.584	6.585	-0.001	88219402	500.0	527.5	
2	7.051	7.049	0.002	137214085	500.0	537.0	
2	7.574	7.575	-0.001	62665194	500.0	520.2	
2	7.944	7.942	0.002	141842557	500.0	531.9	
2	8.444	8.445	-0.001	105891256	500.0	530.1	

Average of Peak Amounts =

529.3

RPD = 1.07

\$ 15 DCB Decachlorobiphenyl

1	9.767	9.769	-0.002	104545434	25.0	26.8	
2	10.108	10.109	-0.001	74851247	25.0	28.2	

RPD = 4.78

S 8 Polychlorinated biphenyls, Total

1						1053.1	
2						1031.7	

RPD = 2.05

19 1260 Res 1

1		8.182			ND	ND	

16 1260 Res 2

1		8.242			ND	ND	

18 1260 Res 3

1		8.305			ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

AR_1660_L5_00061

Amount Added: 1.00

Units: mL

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:56

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291628.D

Injection Date: 29-Nov-2016 20:41:25

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: CCV

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

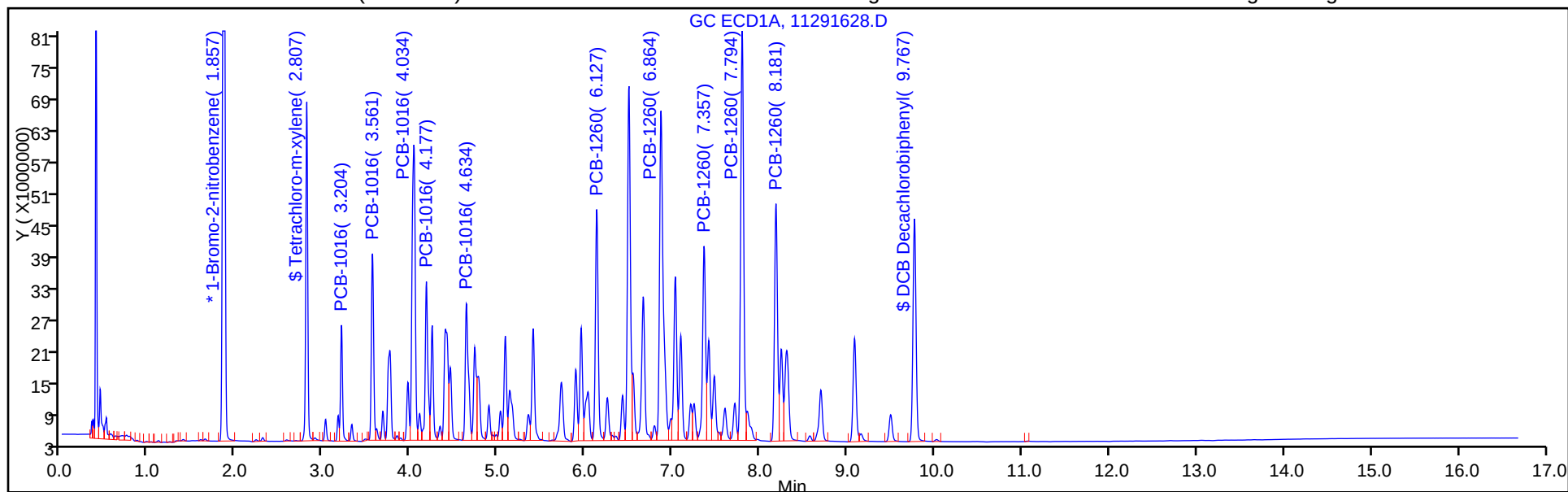
ALS Bottle#: 28

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

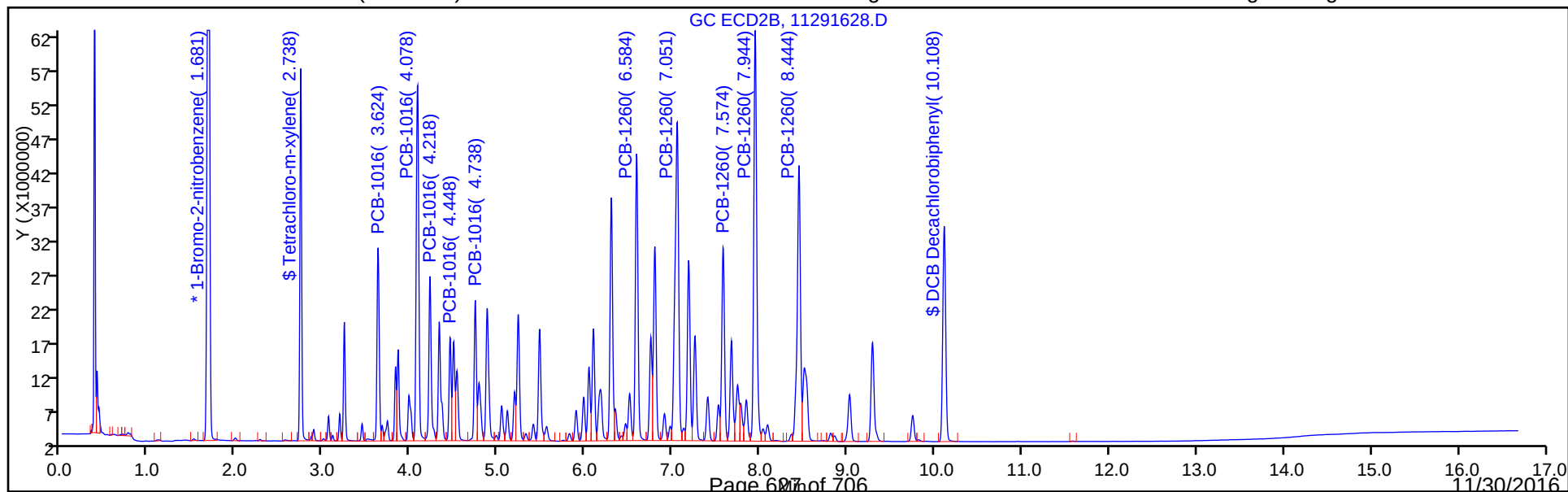
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-351619/1-A
 Matrix: Water Lab File ID: 11291616.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/15/2016 18:06
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/29/2016 16:21
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.10	U	0.15	0.10	0.042
11104-28-2	PCB-1221	0.10	U	0.15	0.10	0.042
11141-16-5	PCB-1232	0.10	U	0.15	0.10	0.042
53469-21-9	PCB-1242	0.10	U	0.15	0.10	0.042
12672-29-6	PCB-1248	0.10	U	0.15	0.10	0.042
11097-69-1	PCB-1254	0.10	U	0.15	0.10	0.042
11096-82-5	PCB-1260	0.10	U	0.15	0.10	0.042

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	59		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	113		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291616.D
 Lims ID: MB 280-351619/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Nov-2016 16:21:03 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: MB 280-351619/1-
 Misc. Info.: 280-0053650-016
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.859	1.859	0.000	295526992	1000.0	1000.0	
2	1.682	1.682	0.000	230385469	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.805	2.809	-0.004	55565929	20.0	14.2	
2	2.739	2.739	0.000	39058836	20.0	11.7	
RPD = 18.59							

3 PCB-1221

1		3.023				ND	
1		3.166					
1		3.206					
2		3.056					
2		3.186					
2		3.240					

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291616.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

7 PCB-1232

1	3.193					ND	
1	3.547						
1	4.020						
1	4.163						
1	4.620						
2	3.234						
2	3.620						
2	4.070						
2	4.214						
2	4.870						

1 PCB-1016

1	3.205					ND	
1	3.559						
1	4.035						
1	4.179						
1	4.635						
2	3.622						
2	4.075						
2	4.219						
2	4.449						
2	4.735						

10 PCB-1242

1	3.562					ND	
1	4.035						
1	4.178						
1	5.135						
1	5.158						
2	3.625						
2	4.078						
2	4.218						
2	5.188						
2	5.235						

4 PCB-1248

1	4.032					ND	
1	4.395						
1	4.635						
1	5.132						
1	5.159						
2	4.075						
2	4.739						
2	4.875						
2	5.189						
2	5.235						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

9 PCB-1254

1	5.403					ND	
1	5.736						
1	5.890						
1	6.250						
1	6.866						
2	5.476						
2	5.893						
2	6.043						
2	6.343						
2	7.056						

12 PCB-1260

1	6.129					ND	
1	6.865						
1	7.359						
1	7.795						
1	8.182						
2	6.585						
2	7.049						
2	7.575						
2	7.942						
2	8.445						

5 PCB-1262

1	6.480					ND	
1	7.010						
1	7.340						
1	7.777						
1	8.163						
2	6.580						
2	7.177						
2	7.570						
2	7.937						
2	8.437						

13 PCB-1268

1	8.245					ND	
1	8.298						
1	8.572						
1	9.085						
1	9.498						
2	8.445						
2	8.505						
2	8.855						
2	9.288						
2	9.752						

\$ 15 DCB Decachlorobiphenyl

1	9.769	9.769	0.000	79291889	20.0	21.1	
2	10.109	10.109	0.000	58191048	20.0	22.6	
RPD = 7.02							

S 8 Polychlorinated biphenyls, Total

1	0.000					ND	
2	0.000						

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291616.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

2 PCB-5460

1	0.000					ND	
1	12.739						
1	0.000						
1	13.802						
1	14.259						
2	0.000						
2	0.000						
2	0.000						
2	0.000						
2	0.000						

6 PCB-5432

1	7.063					ND	
1	7.693						
1	8.203						
1	9.029						
1	9.459						
2	0.000						
2	0.000						
2	0.000						
2	0.000						
2	0.000						

11 PCB-5442

1	9.459					ND	
1	9.923						
1	10.079						
1	10.289						
1	0.000						
2	0.000						
2	0.000						
2	0.000						
2	0.000						
2	0.000						

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:37

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291616.D

Injection Date: 29-Nov-2016 16:21:03

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: MB 280-351619/1-A

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

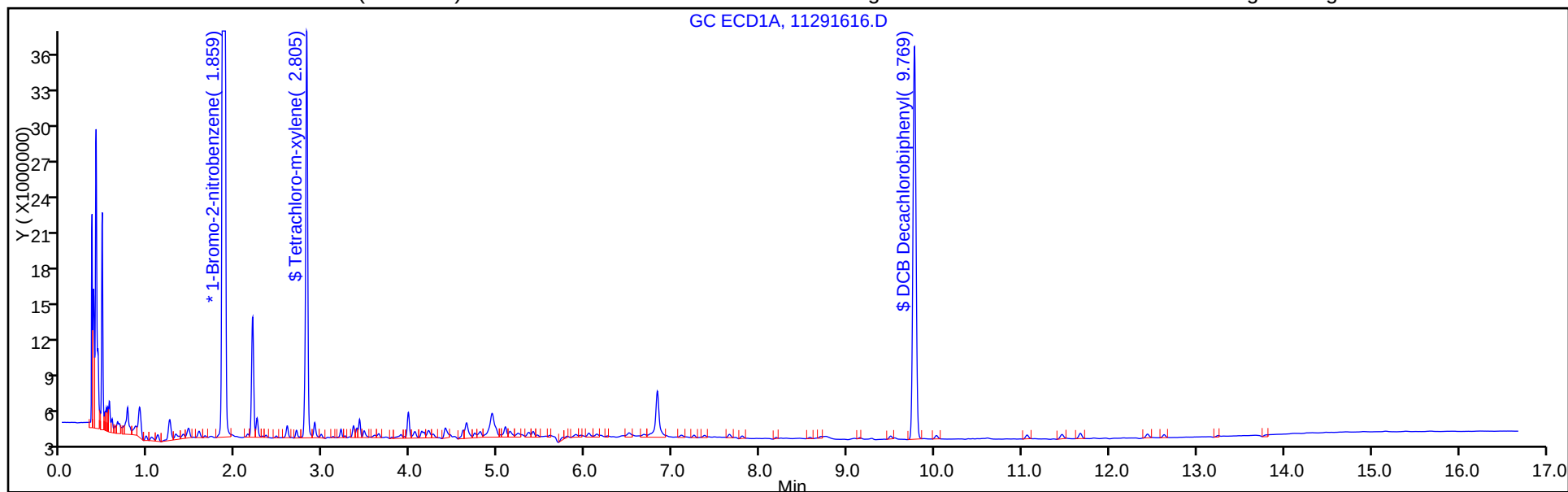
ALS Bottle#: 16

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

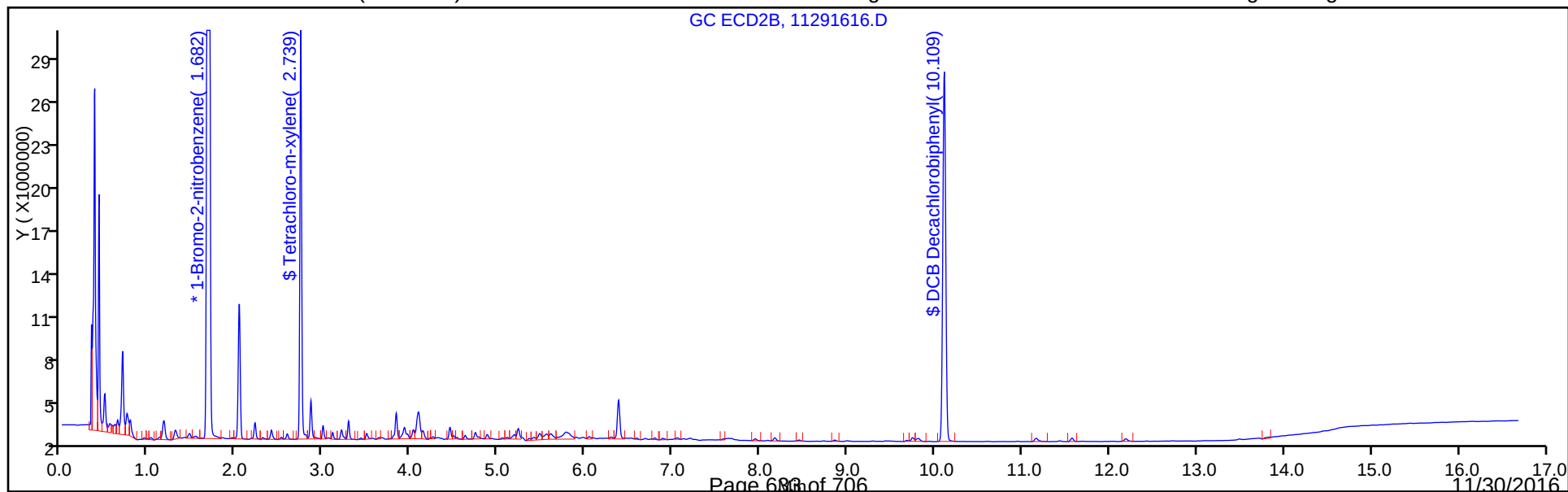
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291616.D
 Lims ID: MB 280-351619/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Nov-2016 16:21:03 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: MB 280-351619/1-
 Misc. Info.: 280-0053650-016
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:08

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	14.2	70.77
\$ 15 DCB Decachlorobiphenyl	20.0	21.1	105.53

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	11.7	58.73
\$ 15 DCB Decachlorobiphenyl	20.0	22.6	113.21

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-351619/2-A
 Matrix: Water Lab File ID: 11291617.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/15/2016 18:06
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/29/2016 16:42
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.162		0.15	0.10	0.042
11096-82-5	PCB-1260	0.204		0.15	0.10	0.042

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	45		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	100		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291617.D
 Lims ID: LCS 280-351619/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Nov-2016 16:42:44 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-351619/2
 Misc. Info.: 280-0053650-017
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jackson Date: 30-Nov-2016 06:31:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene

1	1.856	1.859	-0.003	301443542	1000.0	1000.0	
2	1.680	1.682	-0.002	236671528	1000.0	1000.0	
RPD = 0.00							

\$ 14 Tetrachloro-m-xylene

1	2.806	2.809	-0.003	45780616	20.0	11.3	
2	2.736	2.739	-0.003	31218380	20.0	9.06	
RPD = 22.23							

1 PCB-1016

1	3.200	3.205	-0.005	23273700	200.0	357.0	
1	3.560	3.559	0.001	24651879	200.0	195.3	
1	4.036	4.035	0.001	47259764	200.0	169.5	
1	4.183	4.179	0.004	39274685	200.0	325.4	
1	4.636	4.635	0.001	24897268	200.0	201.1	
Average of Peak Amounts =						249.7	
2	3.623	3.622	0.001	16333184	200.0	150.5	
2	4.076	4.075	0.001	39552839	200.0	181.1	
2	4.220	4.219	0.001	14313499	200.0	151.4	
2	4.450	4.449	0.001	8535196	200.0	162.9	
2	4.736	4.735	0.001	12048326	200.0	162.2	
Average of Peak Amounts =						161.6	
RPD = 42.81							

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291617.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.130	6.129	0.001	40829429	200.0	218.4	
1	6.863	6.865	-0.002	82268201	200.0	238.1	
1	7.360	7.359	0.001	40015531	200.0	237.5	
1	7.793	7.795	-0.002	79067541	200.0	212.0	
1	8.180	8.182	-0.002	42700092	200.0	207.9	

Average of Peak Amounts = 222.8

2	6.586	6.585	0.001	31919771	200.0	186.8	
2	7.050	7.049	0.001	46850584	200.0	179.2	
2	7.576	7.575	0.001	26516757	200.0	217.6	
2	7.943	7.942	0.001	58817062	200.0	218.4	
2	8.443	8.445	-0.002	43483264	200.0	215.8	

Average of Peak Amounts = 203.6

RPD = 9.01

\$ 15 DCB Decachlorobiphenyl

1	9.766	9.769	-0.003	72748536	20.0	18.9	
2	10.106	10.109	-0.003	52743207	20.0	19.9	

RPD = 5.12

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 06:35:39

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291617.D

Injection Date: 29-Nov-2016 16:42:44

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: LCS 280-351619/2-A

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

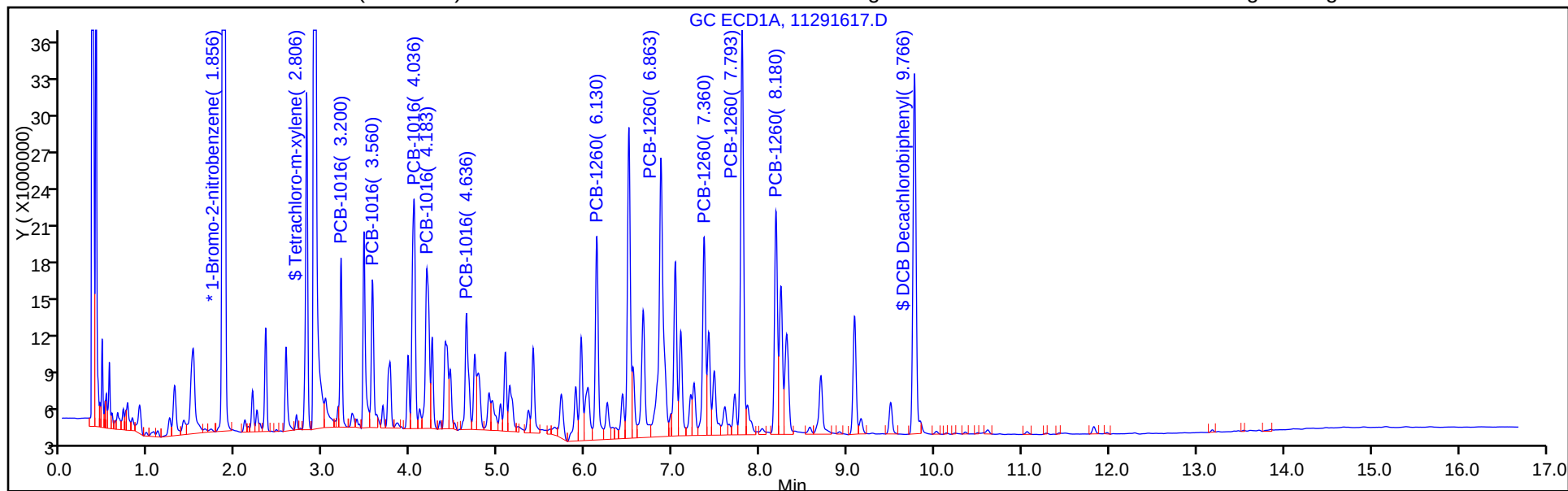
ALS Bottle#: 17

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

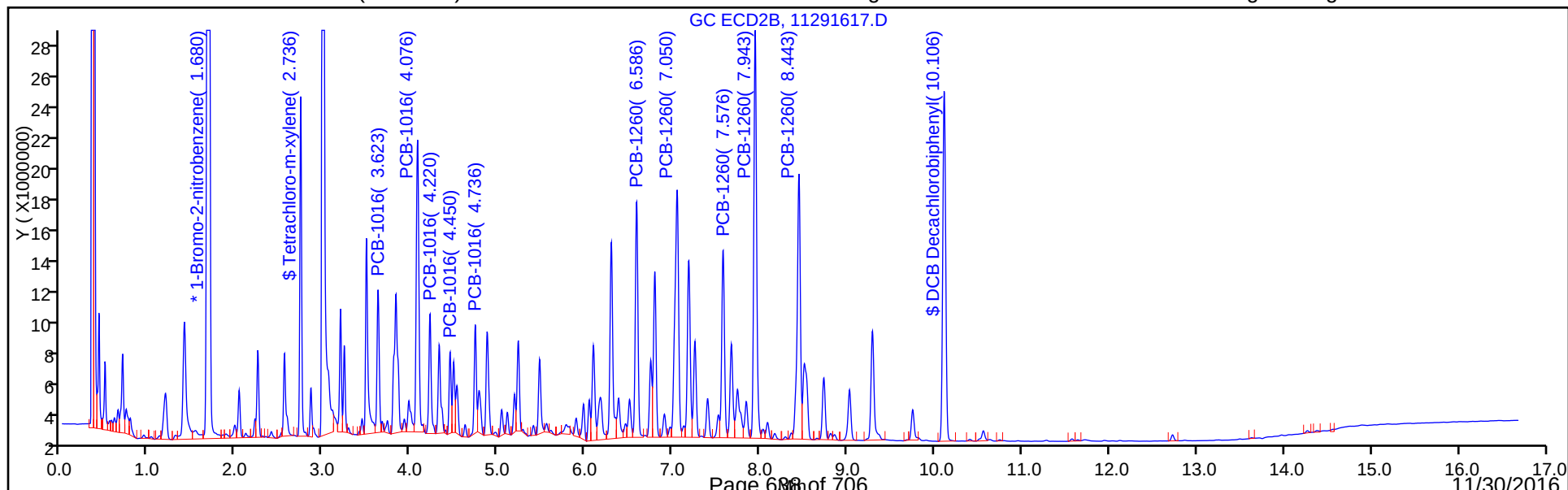
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291617.D
 Lims ID: LCS 280-351619/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Nov-2016 16:42:44 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-351619/2
 Misc. Info.: 280-0053650-017
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 06:35:35 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:19

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	11.3	56.60
\$ 15 DCB Decachlorobiphenyl	20.0	18.9	94.63

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	9.06	45.28
\$ 15 DCB Decachlorobiphenyl	20.0	19.9	99.60

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291617.D

Injection Date: 29-Nov-2016 16:42:44

Instrument ID: SGC_P3

Lims ID: LCS 280-351619/2-A

Client ID:

Operator ID: jax

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCB_P3

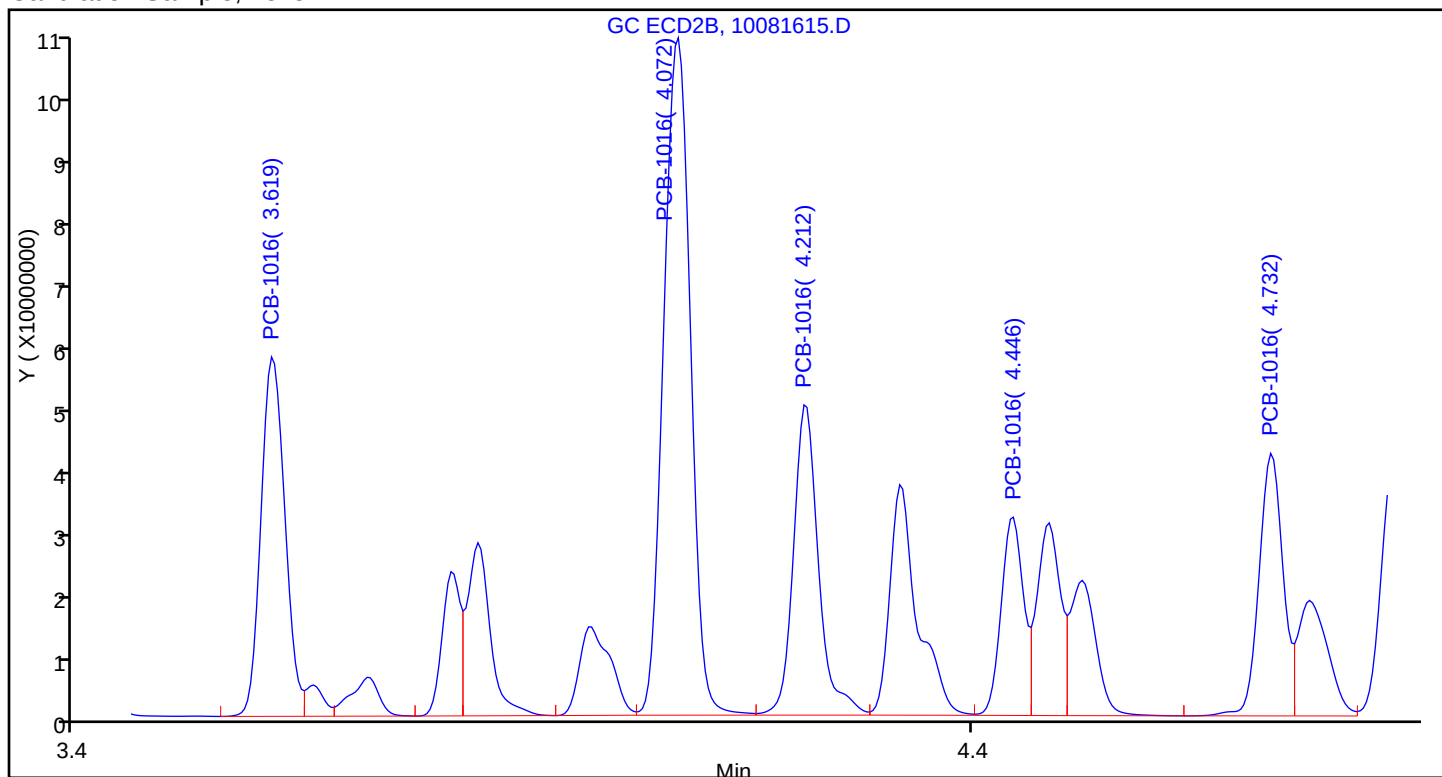
Limit Group: GCSV - 8082 - IS

Column: CLP2 Pesticides Column 2 (0.32 mm) Detector

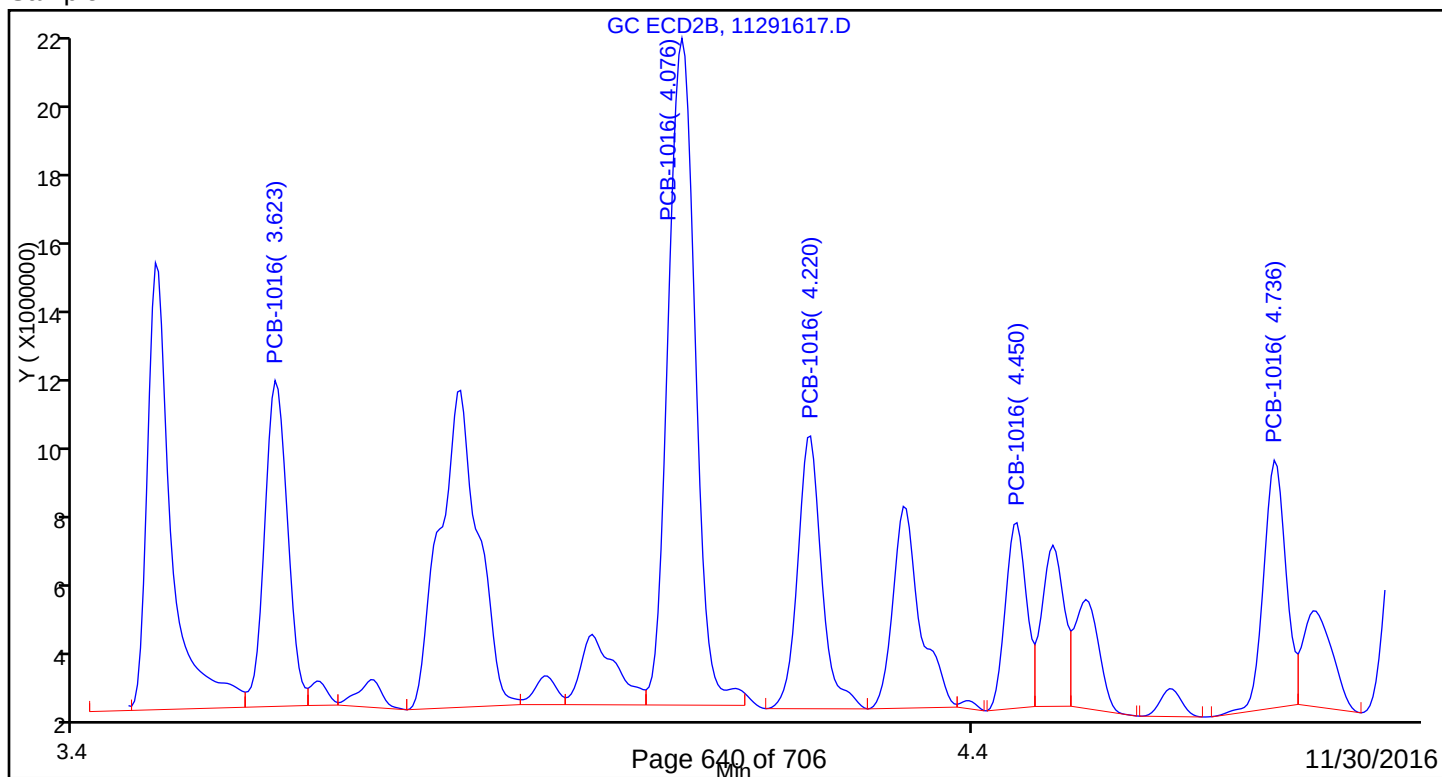
GC ECD2B

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291617.D

Injection Date: 29-Nov-2016 16:42:44

Instrument ID: SGC_P3

Lims ID: LCS 280-351619/2-A

Client ID:

Operator ID: jax

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCB_P3

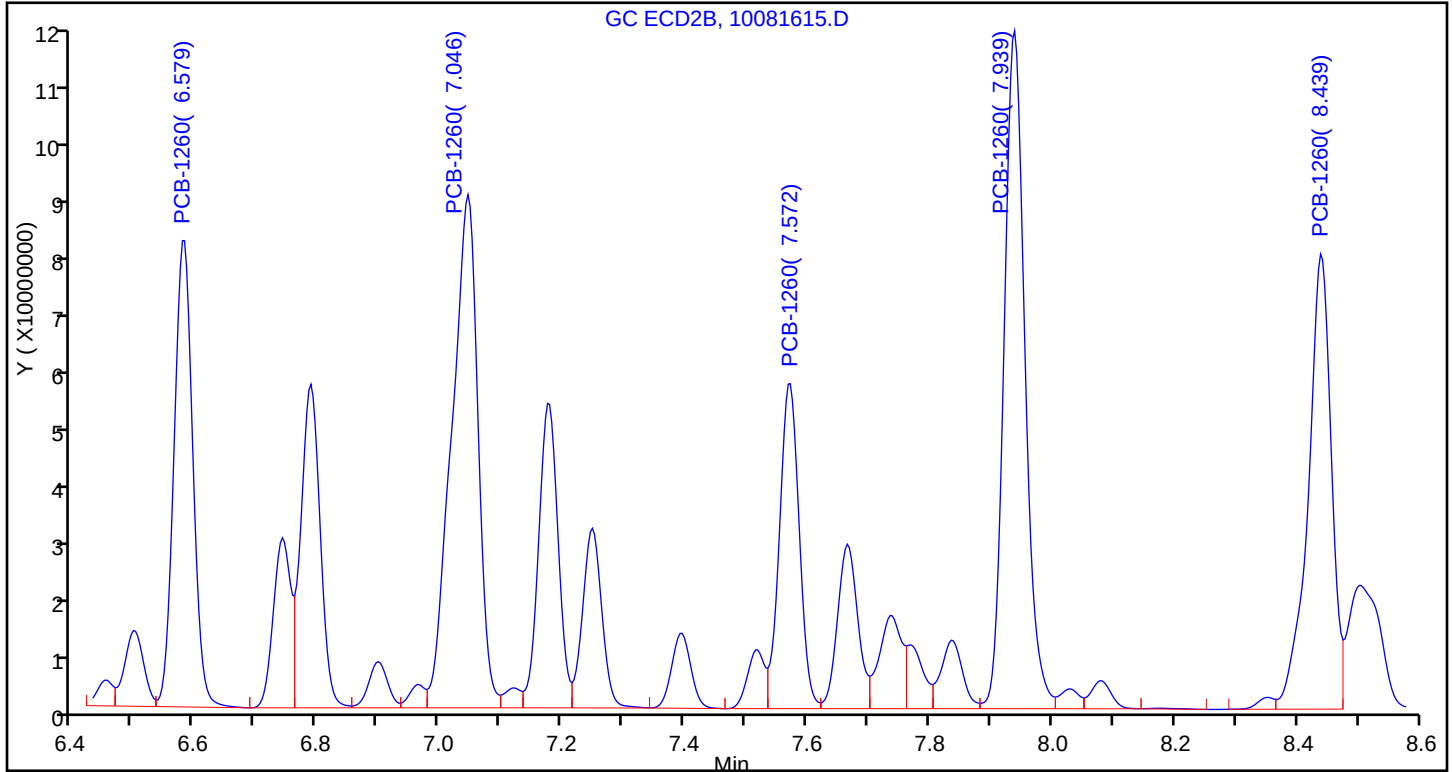
Limit Group: GCSV - 8082 - IS

Column: CLP2 Pesticides Column 2 (0.32 mm) Detector

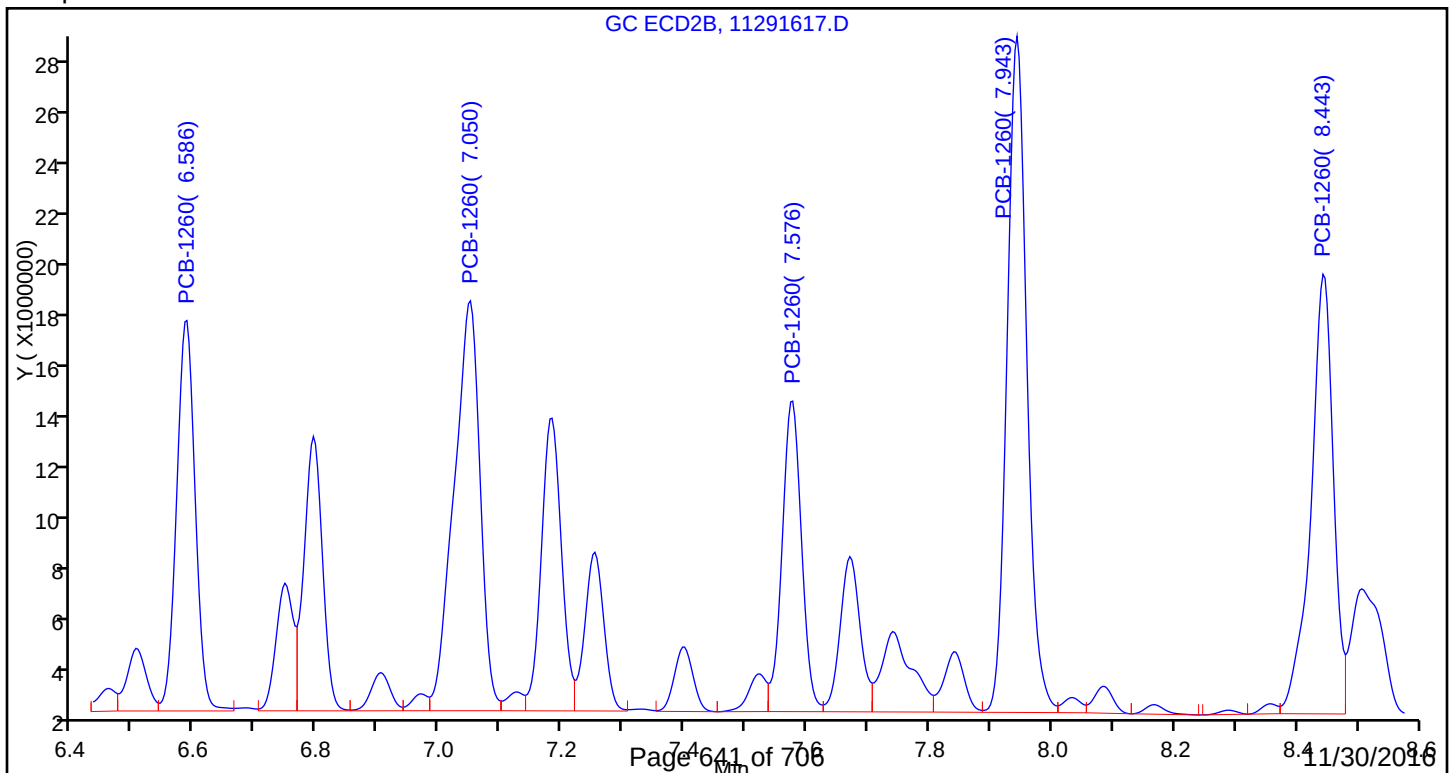
GC ECD2B

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-351619/3-A
 Matrix: Water Lab File ID: 11291618.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/15/2016 18:06
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/29/2016 17:04
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 353508 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.159		0.15	0.10	0.042
11096-82-5	PCB-1260	0.194		0.15	0.10	0.042

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene (Surr)	48		20-143
2051-24-3	DCB Decachlorobiphenyl (Surr)	101		36-140

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D
 Lims ID: LCSD 280-351619/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 29-Nov-2016 17:04:26 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-351619/
 Misc. Info.: 280-0053650-018
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 08:10:43 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

* 17 1-Bromo-2-nitrobenzene M
 1 1.858 1.859 -0.001 299607590 1000.0 1000.0
 2 1.681 1.682 -0.001 232214417 1000.0 1000.0 M
 RPD = 0.00

\$ 14 Tetrachloro-m-xylene
 1 2.808 2.809 -0.001 47700945 20.0 11.9
 2 2.738 2.739 -0.001 32409355 20.0 9.60
 RPD = 21.32

1 PCB-1016

1	3.204	3.205	-0.001	12890821	200.0	192.5
1	3.561	3.559	0.002	21079202	200.0	165.7
1	4.034	4.035	-0.001	44021223	200.0	158.1
1	4.178	4.179	-0.001	20782054	200.0	167.4
1	4.634	4.635	-0.001	22879534	200.0	185.1

Average of Peak Amounts = 173.8

2	3.621	3.622	-0.001	15711577	200.0	147.2
2	4.074	4.075	-0.001	37102837	200.0	172.7
2	4.218	4.219	-0.001	14330795	200.0	154.7
2	4.448	4.449	-0.001	8200839	200.0	159.3
2	4.738	4.735	0.003	11659850	200.0	159.9

Average of Peak Amounts = 158.8

RPD = 9.02

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

12 PCB-1260

1	6.128	6.129	-0.001	32287149	200.0	171.4	
1	6.864	6.865	-0.001	71350122	200.0	206.7	
1	7.358	7.359	-0.001	34591598	200.0	205.6	
1	7.794	7.795	-0.001	74521060	200.0	200.4	
1	8.181	8.182	-0.001	40211214	200.0	196.5	

Average of Peak Amounts = 196.1

2	6.584	6.585	-0.001	29172179	200.0	173.3	
2	7.048	7.049	-0.001	43667789	200.0	169.7	
2	7.574	7.575	-0.001	24798434	200.0	207.0	
2	7.941	7.942	-0.001	55722534	200.0	210.7	
2	8.444	8.445	-0.001	41364540	200.0	209.0	

Average of Peak Amounts = 193.9

RPD = 1.12

\$ 15 DCB Decachlorobiphenyl

1	9.768	9.769	-0.001	72492161	20.0	19.0	
2	10.108	10.109	-0.001	52246832	20.0	20.1	

RPD = 5.83

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

BNB IS_00008

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 30-Nov-2016 08:10:50

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D

Injection Date: 29-Nov-2016 17:04:26

Instrument ID: SGC_P3

Operator ID: jax

Lims ID: LCSD 280-351619/3-A

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

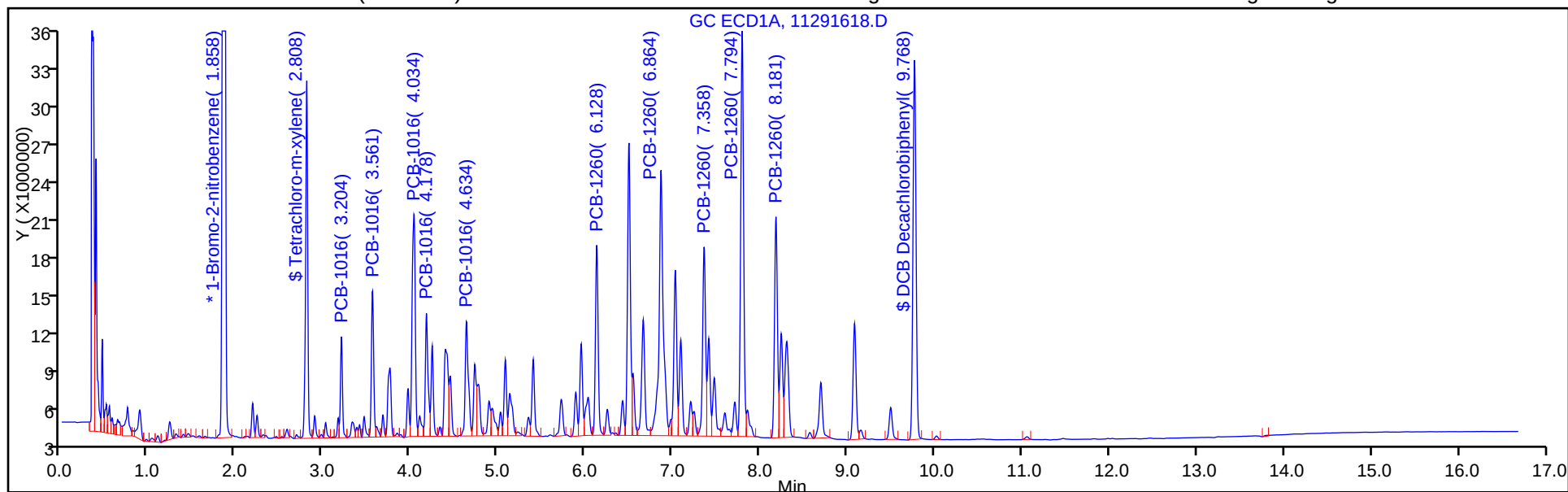
ALS Bottle#: 18

Method: PCB_P3

Limit Group: GCSV - 8082 - IS

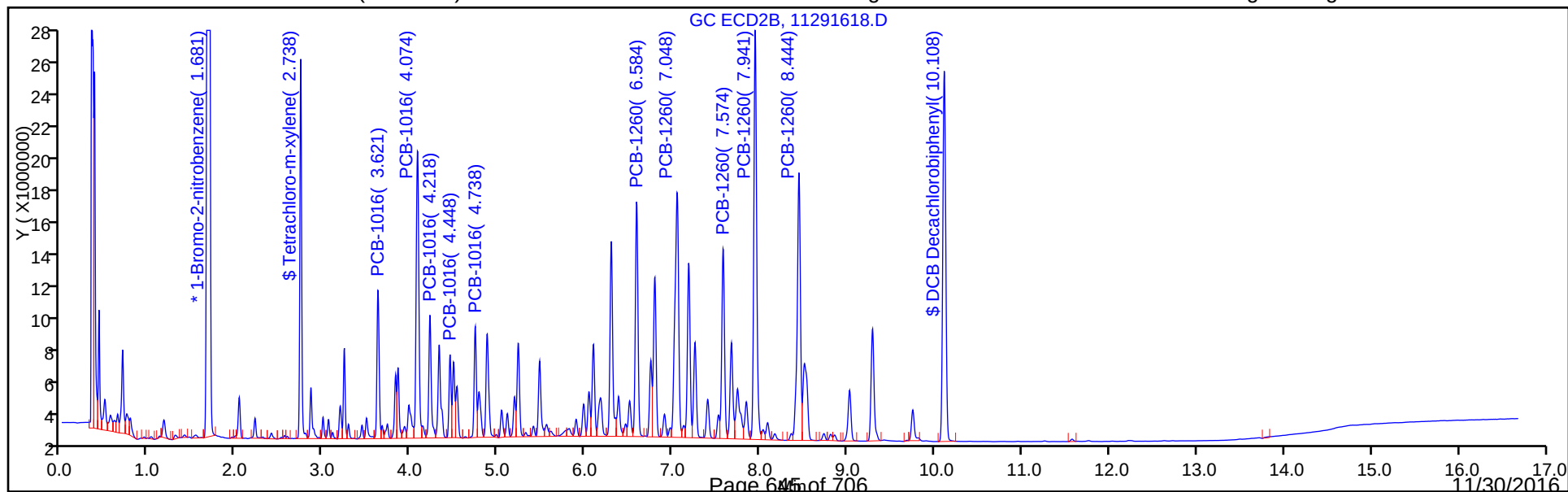
Column: CLP1 Pesticides Column 1 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D
 Lims ID: LCSD 280-351619/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 29-Nov-2016 17:04:26 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-351619/
 Misc. Info.: 280-0053650-018
 Operator ID: jax Instrument ID: SGC_P3
 Method: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\PCB_P3.m
 Limit Group: GCSV - 8082 - IS
 Last Update: 30-Nov-2016 08:10:43 Calib Date: 08-Oct-2016 23:55:59
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_P3\20161006-51591.b\10081635.D
 Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
 Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK020

First Level Reviewer: jacksonto

Date: 30-Nov-2016 06:31:32

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	11.9	59.48
\$ 15 DCB Decachlorobiphenyl	20.0	19.0	94.88

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
\$ 14 Tetrachloro-m-xylene	20.0	9.60	48.02
\$ 15 DCB Decachlorobiphenyl	20.0	20.1	100.58

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D

Injection Date: 29-Nov-2016 17:04:26

Instrument ID: SGC_P3

Lims ID: LCSD 280-351619/3-A

Client ID:

Operator ID: jax

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCB_P3

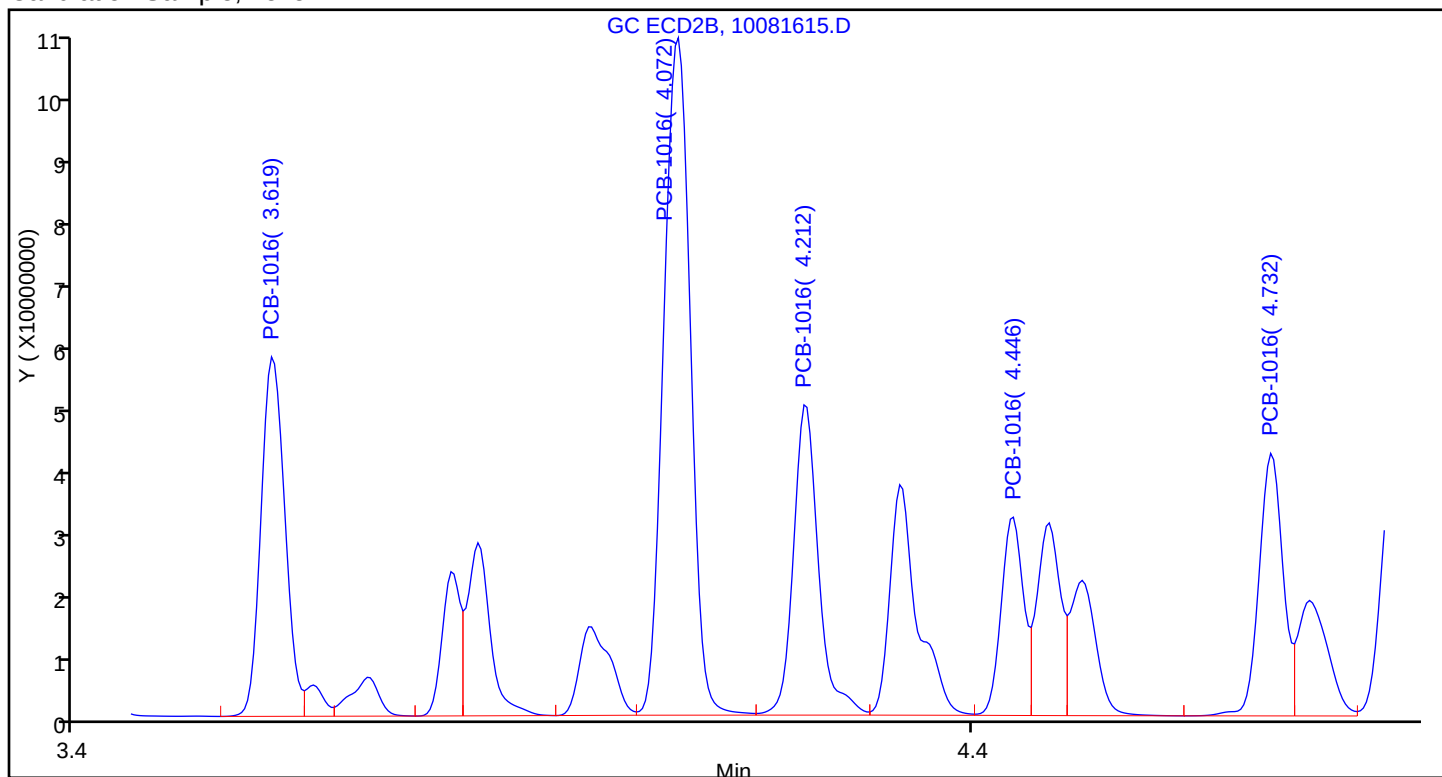
Limit Group: GCSV - 8082 - IS

Column: CLP2 Pesticides Column 2 (0.32 mm) Detector

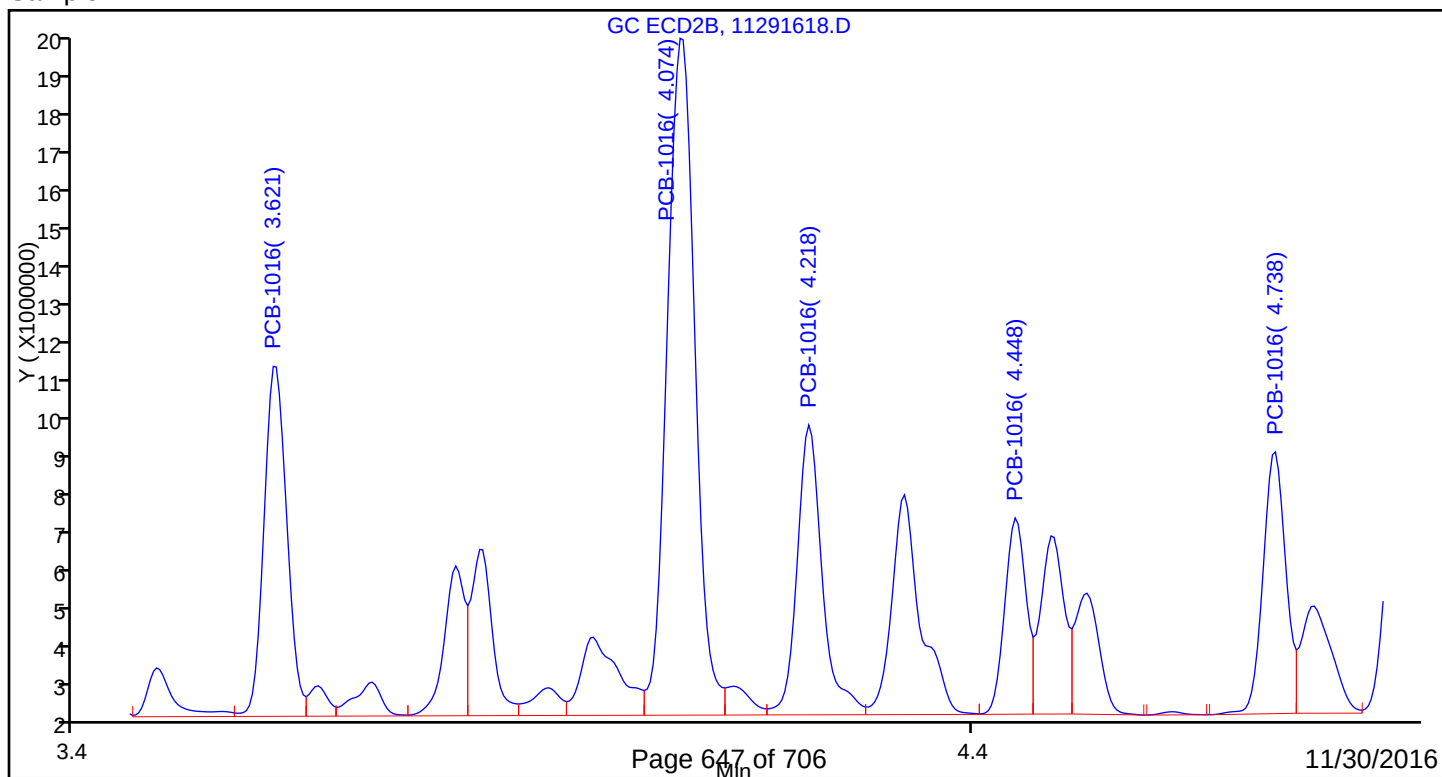
GC ECD2B

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D

Injection Date: 29-Nov-2016 17:04:26

Instrument ID: SGC_P3

Lims ID: LCSD 280-351619/3-A

Client ID:

Operator ID: jax

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCB_P3

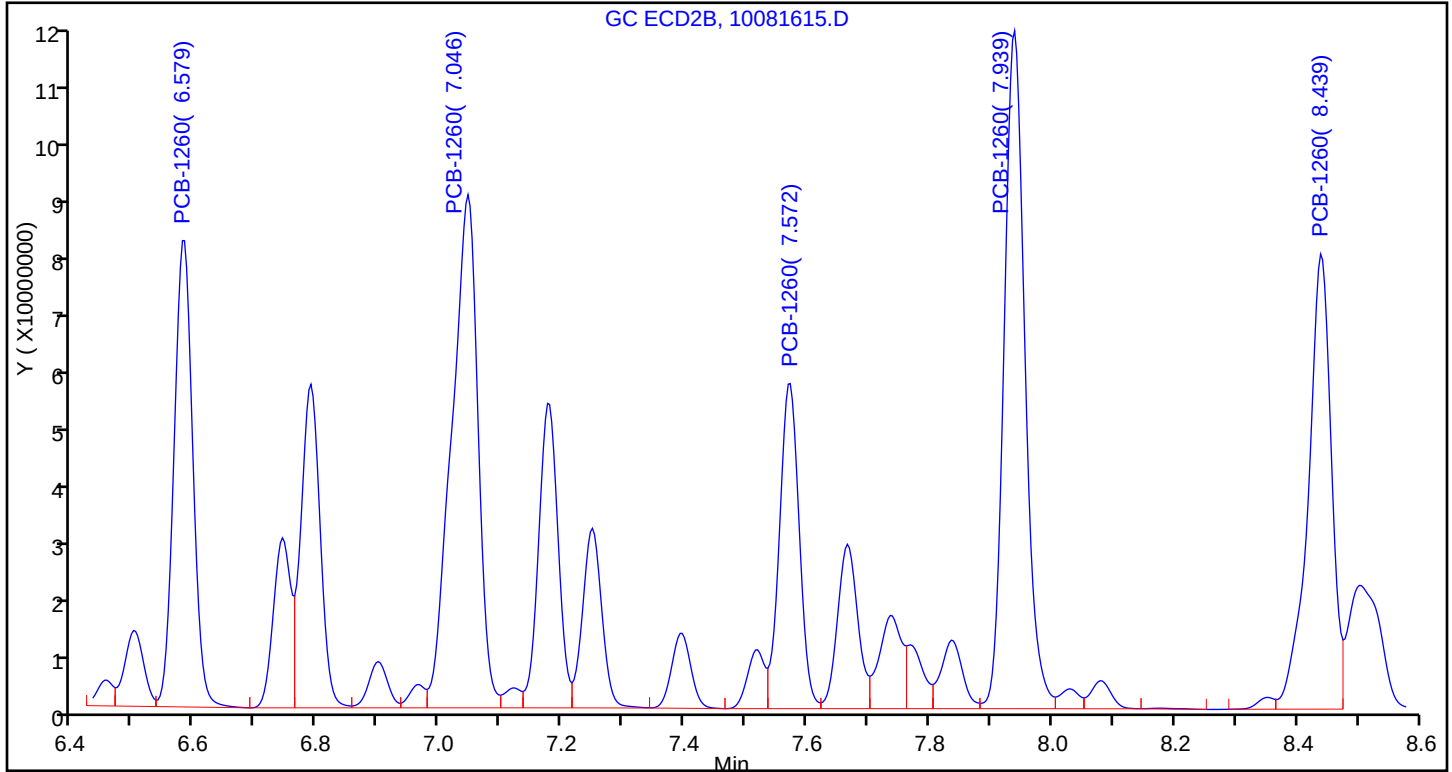
Limit Group: GCSV - 8082 - IS

Column: CLP2 Pesticides Column 2 (0.32 mm) Detector

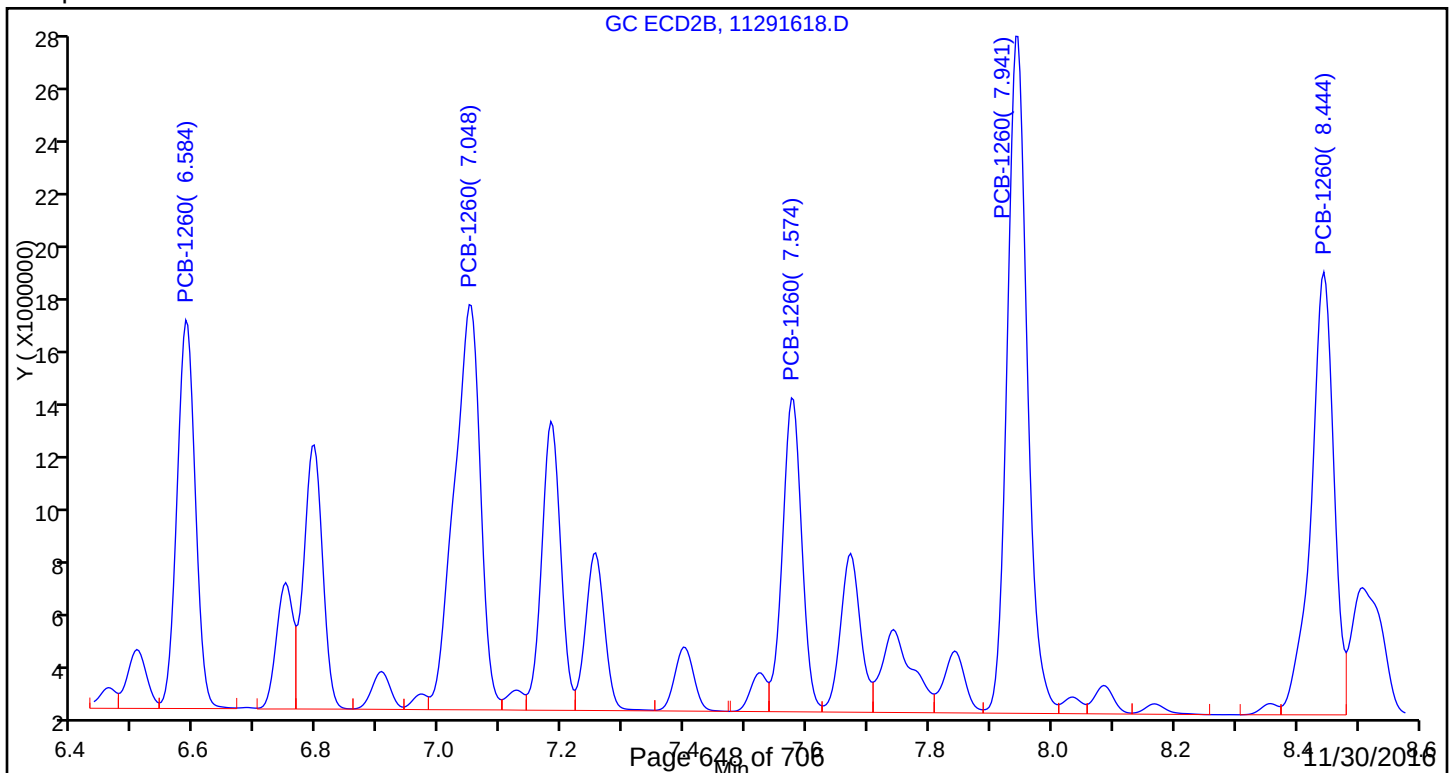
GC ECD2B

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample



TestAmerica Denver

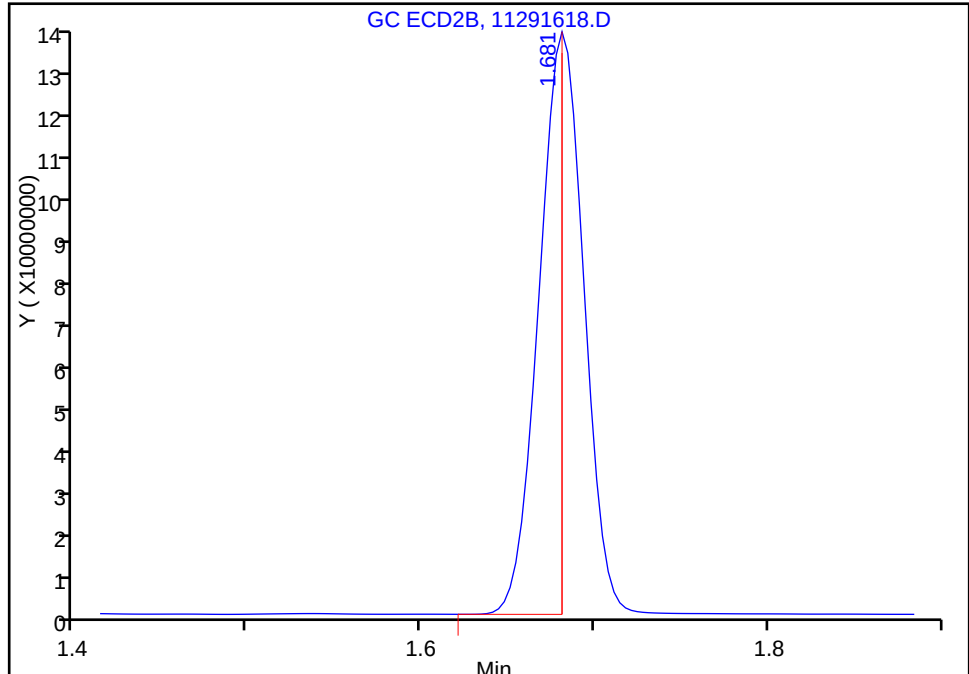
Data File: \\ChromNA\Denver\ChromData\SGC_P3\20161129-53650.b\11291618.D
Injection Date: 29-Nov-2016 17:04:26 Instrument ID: SGC_P3
Lims ID: LCSD 280-351619/3-A
Client ID:
Operator ID: jax ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082 - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector: GC ECD2B

* 17 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

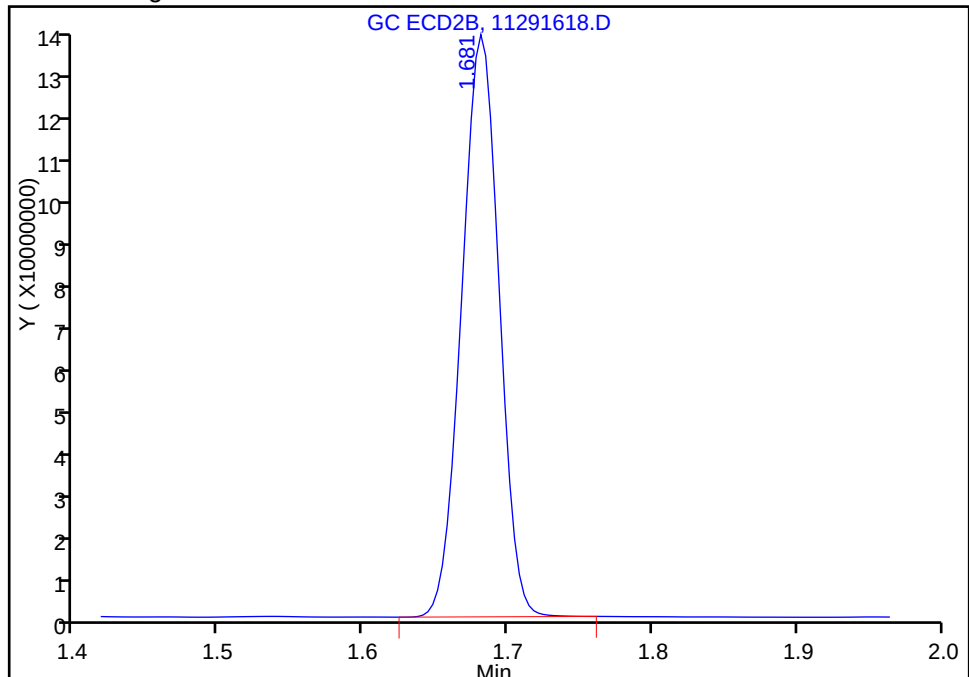
RT: 1.68
Area: 117563917
Amount: 1000.0000
Amount Units: ng/ml

Processing Integration Results



RT: 1.68
Area: 232214417
Amount: 1000.0000
Amount Units: ng/ml

Manual Integration Results



Reviewer: jacksonto, 30-Nov-2016 08:10:43

Audit Action: Manually Integrated

Audit Reason: Split Peak

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3Start Date: 10/08/2016 11:39Analysis Batch Number: 345281End Date: 10/09/2016 02:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD71248 280-345281/1 IC		10/08/2016 11:39	1	10081601.D	CLP1 0.32 (mm)
STD71248 280-345281/1 IC		10/08/2016 11:39	1	10081601.D	CLP2 0.32 (mm)
STD61248 280-345281/2 IC		10/08/2016 12:01	1	10081602.D	CLP1 0.32 (mm)
STD61248 280-345281/2 IC		10/08/2016 12:01	1	10081602.D	CLP2 0.32 (mm)
STD51248 280-345281/3 IC		10/08/2016 12:22	1	10081603.D	CLP1 0.32 (mm)
STD51248 280-345281/3 IC		10/08/2016 12:22	1	10081603.D	CLP2 0.32 (mm)
STD41248 280-345281/4 IC		10/08/2016 12:44	1	10081604.D	CLP1 0.32 (mm)
STD41248 280-345281/4 IC		10/08/2016 12:44	1	10081604.D	CLP2 0.32 (mm)
STD31248 280-345281/5 IC		10/08/2016 13:06	1	10081605.D	CLP1 0.32 (mm)
STD31248 280-345281/5 IC		10/08/2016 13:06	1	10081605.D	CLP2 0.32 (mm)
STD21248 280-345281/6 IC		10/08/2016 13:27	1	10081606.D	CLP1 0.32 (mm)
STD21248 280-345281/6 IC		10/08/2016 13:27	1	10081606.D	CLP2 0.32 (mm)
STD11248 280-345281/7 IC		10/08/2016 13:49	1	10081607.D	CLP1 0.32 (mm)
STD11248 280-345281/7 IC		10/08/2016 13:49	1	10081607.D	CLP2 0.32 (mm)
STD72154 280-345281/8 IC		10/08/2016 14:11	1	10081608.D	CLP1 0.32 (mm)
STD72154 280-345281/8 IC		10/08/2016 14:11	1	10081608.D	CLP2 0.32 (mm)
STD62154 280-345281/9 IC		10/08/2016 14:32	1	10081609.D	CLP1 0.32 (mm)
STD62154 280-345281/9 IC		10/08/2016 14:32	1	10081609.D	CLP2 0.32 (mm)
STD52154 280-345281/10 IC		10/08/2016 14:54	1	10081610.D	CLP1 0.32 (mm)
STD52154 280-345281/10 IC		10/08/2016 14:54	1	10081610.D	CLP2 0.32 (mm)
STD42154 280-345281/11 IC		10/08/2016 15:16	1	10081611.D	CLP1 0.32 (mm)
STD42154 280-345281/11 IC		10/08/2016 15:16	1	10081611.D	CLP2 0.32 (mm)
STD32154 280-345281/12 IC		10/08/2016 15:37	1	10081612.D	CLP1 0.32 (mm)
STD32154 280-345281/12 IC		10/08/2016 15:37	1	10081612.D	CLP2 0.32 (mm)
STD22154 280-345281/13 IC		10/08/2016 15:59	1	10081613.D	CLP1 0.32 (mm)
STD22154 280-345281/13 IC		10/08/2016 15:59	1	10081613.D	CLP2 0.32 (mm)
STD12154 280-345281/14 IC		10/08/2016 16:21	1	10081614.D	CLP1 0.32 (mm)
STD12154 280-345281/14 IC		10/08/2016 16:21	1	10081614.D	CLP2 0.32 (mm)
STD71660 280-345281/15 IC		10/08/2016 16:42	1	10081615.D	CLP1 0.32 (mm)
STD71660 280-345281/15 IC		10/08/2016 16:42	1	10081615.D	CLP2 0.32 (mm)
STD61660 280-345281/16 IC		10/08/2016 17:04	1	10081616.D	CLP1 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3Start Date: 10/08/2016 11:39Analysis Batch Number: 345281End Date: 10/09/2016 02:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD61660 280-345281/16 IC		10/08/2016 17:04	1	10081616.D	CLP2 0.32 (mm)
STD51660 280-345281/17 ICIS		10/08/2016 17:26	1	10081617.D	CLP1 0.32 (mm)
STD51660 280-345281/17 ICIS		10/08/2016 17:26	1	10081617.D	CLP2 0.32 (mm)
STD41660 280-345281/18 IC		10/08/2016 17:47	1	10081618.D	CLP1 0.32 (mm)
STD41660 280-345281/18 IC		10/08/2016 17:47	1	10081618.D	CLP2 0.32 (mm)
STD31660 280-345281/19 IC		10/08/2016 18:09	1	10081619.D	CLP1 0.32 (mm)
STD31660 280-345281/19 IC		10/08/2016 18:09	1	10081619.D	CLP2 0.32 (mm)
STD21660 280-345281/20 IC		10/08/2016 18:31	1	10081620.D	CLP1 0.32 (mm)
STD21660 280-345281/20 IC		10/08/2016 18:31	1	10081620.D	CLP2 0.32 (mm)
STD11660 280-345281/21 IC		10/08/2016 18:52	1	10081621.D	CLP1 0.32 (mm)
STD11660 280-345281/21 IC		10/08/2016 18:52	1	10081621.D	CLP2 0.32 (mm)
STD73262 280-345281/22 IC		10/08/2016 19:14	1	10081622.D	CLP1 0.32 (mm)
STD73262 280-345281/22 IC		10/08/2016 19:14	1	10081622.D	CLP2 0.32 (mm)
STD63262 280-345281/23 IC		10/08/2016 19:36	1	10081623.D	CLP1 0.32 (mm)
STD63262 280-345281/23 IC		10/08/2016 19:36	1	10081623.D	CLP2 0.32 (mm)
STD53262 280-345281/24 IC		10/08/2016 19:57	1	10081624.D	CLP1 0.32 (mm)
STD53262 280-345281/24 IC		10/08/2016 19:57	1	10081624.D	CLP2 0.32 (mm)
STD43262 280-345281/25 IC		10/08/2016 20:19	1	10081625.D	CLP1 0.32 (mm)
STD43262 280-345281/25 IC		10/08/2016 20:19	1	10081625.D	CLP2 0.32 (mm)
STD33262 280-345281/26 IC		10/08/2016 20:41	1	10081626.D	CLP1 0.32 (mm)
STD33262 280-345281/26 IC		10/08/2016 20:41	1	10081626.D	CLP2 0.32 (mm)
STD23262 280-345281/27 IC		10/08/2016 21:02	1	10081627.D	CLP1 0.32 (mm)
STD23262 280-345281/27 IC		10/08/2016 21:02	1	10081627.D	CLP2 0.32 (mm)
STD13262 280-345281/28 IC		10/08/2016 21:24	1	10081628.D	CLP1 0.32 (mm)
STD13262 280-345281/28 IC		10/08/2016 21:24	1	10081628.D	CLP2 0.32 (mm)
STD74268 280-345281/29 IC		10/08/2016 21:46	1	10081629.D	CLP1 0.32 (mm)
STD74268 280-345281/29 IC		10/08/2016 21:46	1	10081629.D	CLP2 0.32 (mm)
STD64268 280-345281/30 IC		10/08/2016 22:07	1	10081630.D	CLP1 0.32 (mm)
STD64268 280-345281/30 IC		10/08/2016 22:07	1	10081630.D	CLP2 0.32 (mm)
STD54268 280-345281/31 IC		10/08/2016 22:29	1	10081631.D	CLP1 0.32 (mm)
STD54268 280-345281/31 IC		10/08/2016 22:29	1	10081631.D	CLP2 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3Start Date: 10/08/2016 11:39Analysis Batch Number: 345281End Date: 10/09/2016 02:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD144268 280-345281/32 IC		10/08/2016 22:51	1	10081632.D	CLP1 0.32 (mm)
STD144268 280-345281/32 IC		10/08/2016 22:51	1	10081632.D	CLP2 0.32 (mm)
STD134268 280-345281/33 IC		10/08/2016 23:12	1	10081633.D	CLP1 0.32 (mm)
STD134268 280-345281/33 IC		10/08/2016 23:12	1	10081633.D	CLP2 0.32 (mm)
STD124268 280-345281/34 IC		10/08/2016 23:34	1	10081634.D	CLP1 0.32 (mm)
STD124268 280-345281/34 IC		10/08/2016 23:34	1	10081634.D	CLP2 0.32 (mm)
STD114268 280-345281/35 IC		10/08/2016 23:55	1	10081635.D	CLP1 0.32 (mm)
STD114268 280-345281/35 IC		10/08/2016 23:55	1	10081635.D	CLP2 0.32 (mm)
ICV 280-345281/36		10/09/2016 00:17	1	10081636.D	CLP1 0.32 (mm)
ICV 280-345281/36		10/09/2016 00:17	1	10081636.D	CLP2 0.32 (mm)
ICV 280-345281/37		10/09/2016 00:39	1	10081637.D	CLP1 0.32 (mm)
ICV 280-345281/37		10/09/2016 00:39	1	10081637.D	CLP2 0.32 (mm)
ICV 280-345281/38		10/09/2016 01:00	1	10081638.D	CLP1 0.32 (mm)
ICV 280-345281/38		10/09/2016 01:00	1	10081638.D	CLP2 0.32 (mm)
ICV 280-345281/39		10/09/2016 01:22	1	10081639.D	CLP1 0.32 (mm)
ICV 280-345281/39		10/09/2016 01:22	1	10081639.D	CLP2 0.32 (mm)
ICV 280-345281/40		10/09/2016 01:44	1	10081640.D	CLP1 0.32 (mm)
ICV 280-345281/40		10/09/2016 01:44	1	10081640.D	CLP2 0.32 (mm)
ZZZZZ		10/09/2016 02:05	1		CLP1 0.32 (mm)
ZZZZZ		10/09/2016 02:05	1		CLP2 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3Start Date: 11/29/2016 11:38Analysis Batch Number: 353508End Date: 11/30/2016 00:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 280-353508/3		11/29/2016 11:38	1	11291603.D	CLP1 0.32 (mm)
CCVIS 280-353508/3		11/29/2016 11:38	1	11291603.D	CLP2 0.32 (mm)
ZZZZZ		11/29/2016 12:00	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 12:00	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 12:22	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 12:22	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 12:43	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 12:43	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 13:05	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 13:05	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 13:27	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 13:27	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 13:49	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 13:49	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 14:10	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 14:10	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 14:32	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 14:32	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 14:54	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 14:54	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 15:15	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 15:15	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 15:37	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 15:37	1		CLP2 0.32 (mm)
CCV 280-353508/15		11/29/2016 15:59	1	11291615.D	CLP1 0.32 (mm)
CCV 280-353508/15		11/29/2016 15:59	1	11291615.D	CLP2 0.32 (mm)
MB 280-351619/1-A		11/29/2016 16:21	1	11291616.D	CLP1 0.32 (mm)
MB 280-351619/1-A		11/29/2016 16:21	1	11291616.D	CLP2 0.32 (mm)
LCS 280-351619/2-A		11/29/2016 16:42	1	11291617.D	CLP1 0.32 (mm)
LCS 280-351619/2-A		11/29/2016 16:42	1	11291617.D	CLP2 0.32 (mm)
LCSD 280-351619/3-A		11/29/2016 17:04	1	11291618.D	CLP1 0.32 (mm)
LCSD 280-351619/3-A		11/29/2016 17:04	1	11291618.D	CLP2 0.32 (mm)
280-90775-1		11/29/2016 17:26	1	11291619.D	CLP1 0.32 (mm)
280-90775-1		11/29/2016 17:26	1	11291619.D	CLP2 0.32 (mm)
280-90775-2		11/29/2016 17:47	1	11291620.D	CLP1 0.32 (mm)
280-90775-2		11/29/2016 17:47	1	11291620.D	CLP2 0.32 (mm)
280-90775-3		11/29/2016 18:09	1	11291621.D	CLP1 0.32 (mm)
280-90775-3		11/29/2016 18:09	1	11291621.D	CLP2 0.32 (mm)
280-90775-4		11/29/2016 18:31	1	11291622.D	CLP1 0.32 (mm)
280-90775-4		11/29/2016 18:31	1	11291622.D	CLP2 0.32 (mm)
ZZZZZ		11/29/2016 18:52	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 18:52	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 19:14	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 19:14	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 19:36	1		CLP1 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-90775-1

SDG No.: _____

Instrument ID: SGC_P3Start Date: 11/29/2016 11:38Analysis Batch Number: 353508End Date: 11/30/2016 00:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/29/2016 19:36	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 19:58	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 19:58	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 20:19	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 20:19	1		CLP2 0.32 (mm)
CCV 280-353508/28		11/29/2016 20:41	1	11291628.D	CLP1 0.32 (mm)
CCV 280-353508/28		11/29/2016 20:41	1	11291628.D	CLP2 0.32 (mm)
ZZZZZ		11/29/2016 21:03	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 21:03	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 21:24	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 21:24	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 21:46	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 21:46	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 22:08	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 22:08	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 22:29	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 22:29	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 22:51	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 22:51	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 23:13	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 23:13	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 23:34	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 23:34	1		CLP2 0.32 (mm)
ZZZZZ		11/29/2016 23:56	1		CLP1 0.32 (mm)
ZZZZZ		11/29/2016 23:56	1		CLP2 0.32 (mm)
CCV 280-353508/38		11/30/2016 00:18	1		CLP1 0.32 (mm)
CCV 280-353508/38		11/30/2016 00:18	1		CLP2 0.32 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 351619 Batch Start Date: 11/15/16 20:18 Batch Analyst: Anderson, Brittney JBatch Method: 3510C Batch End Date: 11/21/16 09:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	8081/82 Surr 00090
MB 280-351619/1		3510C, 8082A		7			1000 mL	1 mL	0.1 mL
LCS 280-351619/2		3510C, 8082A		7			1000 mL	1 mL	0.1 mL
LCSD 280-351619/3		3510C, 8082A		7			1000 mL	1 mL	0.1 mL
280-90775-B-1	CBLmw-001-110916 -GW	3510C, 8082A	T	5	1548.8 g	499.2 g	1049.6 mL	1 mL	0.1 mL
280-90775-A-2	CBLmw-002-110916 -GW	3510C, 8082A	T	5	1545.9 g	500.5 g	1045.4 mL	1 mL	0.1 mL
280-90775-B-3	CBLmw-003-110916 -GW	3510C, 8082A	T	5	1503.8 g	505.6 g	998.2 mL	1 mL	0.1 mL
280-90775-A-4	CBLmw-004-110916 -GW	3510C, 8082A	T	5	1479.7 g	496.7 g	983 mL	1 mL	0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8082 LCS 00044					
MB 280-351619/1		3510C, 8082A							
LCS 280-351619/2		3510C, 8082A		0.1 mL					
LCSD 280-351619/3		3510C, 8082A		0.1 mL					
280-90775-B-1	CBLmw-001-110916 -GW	3510C, 8082A	T						
280-90775-A-2	CBLmw-002-110916 -GW	3510C, 8082A	T						
280-90775-B-3	CBLmw-003-110916 -GW	3510C, 8082A	T						
280-90775-A-4	CBLmw-004-110916 -GW	3510C, 8082A	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 351619 Batch Start Date: 11/15/16 20:18 Batch Analyst: Anderson, Brittney JBatch Method: 3510C Batch End Date: 11/21/16 09:22

Batch Notes	
Batch Comment	DV-OP-0006/0007 H2O: S. Elga NaCl2:161884, pip:BB-8@10.0mL
Analyst ID - Concentration	GLK, ACW
Exchange Solvent ID	Hexane_Cycl_00040
Exchange Solvent Name	Hexane
Na2SO4 ID	0000148788_00004
Oven, Bath or Block Temperature 1	B@88 Degrees C
Prep Solvent ID	MeCl2_Cycl_00310
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	180 mL
Person's name who did the prep	BJA/RC
Analyst ID - Reagent Drop Witness	Reviewer: RC
Sufficient volume for MS/MSD?	No
Uncorrected Temperature	88 Degrees Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-90775-1

SDG No.: _____

Project: Ravenna, OH - CBL

Client Sample ID	Lab Sample ID
<u>CBLmw-001-110916-GW</u>	<u>280-90775-1</u>
<u>CBLmw-002-110916-GW</u>	<u>280-90775-2</u>
<u>CBLmw-003-110916-GW</u>	<u>280-90775-3</u>
<u>CBLmw-004-110916-GW</u>	<u>280-90775-4</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CBLmw-001-110916-GW

Lab Sample ID: 280-90775-1

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG ID.:

Matrix: Water

Date Sampled: 11/09/2016 10:45

Reporting Basis: WET

Date Received: 11/10/2016 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Cyanide, Total	5.0	10	5.0	2.0	ug/L	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CBLmw-002-110916-GW

Lab Sample ID: 280-90775-2

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG ID.:

Matrix: Water

Date Sampled: 11/09/2016 09:25

Reporting Basis: WET

Date Received: 11/10/2016 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Cyanide, Total	2.6	10	5.0	2.0	ug/L	J		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CBLmw-003-110916-GW

Lab Sample ID: 280-90775-3

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG ID.:

Matrix: Water

Date Sampled: 11/09/2016 12:45

Reporting Basis: WET

Date Received: 11/10/2016 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Cyanide, Total	3.0	10	5.0	2.0	ug/L	J		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CBLmw-004-110916-GW

Lab Sample ID: 280-90775-4

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG ID.:

Matrix: Water

Date Sampled: 11/09/2016 11:25

Reporting Basis: WET

Date Received: 11/10/2016 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Cyanide, Total	2.3	10	5.0	2.0	ug/L	J		1	9012B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Analyst: JML Batch Start Date: 11/19/2016
Reporting Units: mg/L Analytical Batch No.: 352272

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
14	ICV	08:47	Cyanide, Total	0.0952	0.100	95	90-110		CN ICV Daily_00942
15	ICB	08:48	Cyanide, Total	0.0050				U	
29	CCV	09:09	Cyanide, Total	0.201	0.200	101	90-110		CN CAL 1 ppm_01178
30	CCB	09:11	Cyanide, Total	0.0050				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1
SDG No.: _____
Analyst: JML Batch Start Date: 11/19/2016
Reporting Units: mg/L Analytical Batch No.: 352310

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
14	ICV	13:20	Cyanide, Total	0.0947	0.100	95	90-110		CN ICV Daily_00942
15	ICB	13:22	Cyanide, Total	0.0050				U	
29	CCV	13:43	Cyanide, Total	0.201	0.200	101	90-110		CN CAL 1 ppm_01178
30	CCB	13:44	Cyanide, Total	0.0050				U	
44	CCV	14:05	Cyanide, Total	0.197	0.200	99	90-110		CN CAL 1 ppm_01178
45	CCB	14:07	Cyanide, Total	0.0050				U	
59	CCV	14:28	Cyanide, Total	0.202	0.200	101	90-110		CN CAL 1 ppm_01178
60	CCB	14:29	Cyanide, Total	0.0050				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 352272 Date: 11/19/2016 08:56	Prep Batch: 352144 Date: 11/18/2016 09:14						
9012B	MB 280-352144/4-A	Cyanide, Total	5.0	U	ug/L	10	1
Batch ID: 352310 Date: 11/19/2016 14:01	Prep Batch: 352264 Date: 11/19/2016 09:41						
9012B	MB 280-352264/4-A	Cyanide, Total	4.42	J	ug/L	10	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 352272 Date: 11/19/2016 08:59 Prep Batch: 352144 Date: 11/18/2016 09:14											
9012B	280-90775-1	Cyanide, Total	5.0	U	ug/L						
9012B	280-90775-1	Cyanide, Total	94.7		ug/L	100	95	83-116			
MS											

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

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 352272	Date: 11/19/2016 09:00	Prep Batch: 352144	Date: 11/18/2016 09:14								
9012B	280-90775-1	Cyanide, Total	96.4		ug/L	100	96	83-116	2	20	
MSD											

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 352272 Date: 11/19/2016 08:54 Prep Batch: 352144 Date: 11/18/2016 09:14											
LCS Source: CN ICV Int_00408											
9012B	LCS 280-352144/3-A	Cyanide, Total	98.2		ug/L	100	98	83-116			
Batch ID: 352310 Date: 11/19/2016 13:59 Prep Batch: 352264 Date: 11/19/2016 09:41											
LCS Source: CN ICV Int_00408											
9012B	LCS 280-352264/3-A	Cyanide, Total	95.0		ug/L	100	95	83-116			

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

FORM VIIA-IN

7A-IN
LOW LEVEL CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 352272 Date: 11/19/2016 08:53 Prep Batch: 352144 Date: 11/18/2016 09:14											
LCS Source: CN 10ppm_00229											
9012B	LLCS 280-352144/2-A	Cyanide, Total	102		ug/L	100	102	44-167			
Batch ID: 352310 Date: 11/19/2016 13:58 Prep Batch: 352264 Date: 11/19/2016 09:41											
LCS Source: CN 10ppm_00229											
9012B	LLCS 280-352264/2-A	Cyanide, Total	93.1		ug/L	100	93	44-167			

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

FORM VIIA-IN

7A-IN
HIGH LEVEL CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 352272 Date: 11/19/2016 08:51 Prep Batch: 352144 Date: 11/18/2016 09:14											
LCS Source: CN 10ppm_00229											
9012B	HLCS 280-352144/1-A	Cyanide, Total	387		ug/L	400	97	90-110			
Batch ID: 352310 Date: 11/19/2016 13:56 Prep Batch: 352264 Date: 11/19/2016 09:41											
LCS Source: CN 10ppm_00229											
9012B	HLCS 280-352264/1-A	Cyanide, Total	378		ug/L	400	95	90-110			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-90775-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Alps 1

Method: 9012B

DL Date: 02/16/2014 00:00

Prep Method: 9012B

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-90775-1
SDG Number: _____
Matrix: Water Instrument ID: WC_Alpha 1
Method: 9012B XMDL Date: 02/16/2014 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
HLCS 280-352144/1-A	11/18/2016 09:14	352144		50	50
LLCS 280-352144/2-A	11/18/2016 09:14	352144		50	50
LCS 280-352144/3-A	11/18/2016 09:14	352144		50	50
MB 280-352144/4-A	11/18/2016 09:14	352144		50	50
280-90775-1	11/18/2016 09:14	352144		50	50
280-90775-1 MS	11/18/2016 09:14	352144		50	50
280-90775-1 MSD	11/18/2016 09:14	352144		50	50
280-90775-2	11/18/2016 09:14	352144		50	50
280-90775-3	11/18/2016 09:14	352144		50	50
280-90775-4	11/18/2016 09:14	352144		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
HLCS 280-352264/1-A	11/19/2016 09:41	352264		50	50
LLCS 280-352264/2-A	11/19/2016 09:41	352264		50	50
LCS 280-352264/3-A	11/19/2016 09:41	352264		50	50
MB 280-352264/4-A	11/19/2016 09:41	352264		50	50

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Instrument ID: WC_Alp 1

Analysis Method: 9012B

Start Date: 11/19/2016 08:27

End Date: 11/19/2016 10:00

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				C N																									
ZZZZZZ			08:27																										
ZZZZZZ			08:29																										
ZZZZZZ			08:30																										
ZZZZZZ			08:32																										
IC 280-352272/5			08:33	X																									
IC 280-352272/6			08:35	X																									
IC 280-352272/7			08:36	X																									
IC 280-352272/8			08:38	X																									
IC 280-352272/9			08:39	X																									
IC 280-352272/10			08:41	X																									
IC 280-352272/11			08:42	X																									
ZZZZZZ			08:44																										
ZZZZZZ			08:45																										
ICV 280-352272/14	1		08:47	X																									
ICB 280-352272/15	1		08:48	X																									
ZZZZZZ			08:50																										
HLCS 280-352144/1-A	2	T	08:51	X																									
LLCS 280-352144/2-A	1	T	08:53	X																									
LCS 280-352144/3-A	1	T	08:54	X																									
MB 280-352144/4-A	1	T	08:56	X																									
280-90775-1	1	T	08:57	X																									
280-90775-1 MS	1	T	08:59	X																									
280-90775-1 MSD	1	T	09:00	X																									
280-90775-2	1	T	09:02	X																									
280-90775-3	1	T	09:03	X																									
280-90775-4	1	T	09:05	X																									
ZZZZZZ			09:06																										
ZZZZZZ			09:08																										
CCV 280-352272/29	1		09:09	X																									
CCB 280-352272/30	1		09:11	X																									
ZZZZZZ			09:12																										
ZZZZZZ			09:14																										
ZZZZZZ			09:15																										
ZZZZZZ			09:17																										
ZZZZZZ			09:18																										
ZZZZZZ			09:20																										
ZZZZZZ			09:21																										
ZZZZZZ			09:23																										
ZZZZZZ			09:24																										
ZZZZZZ			09:26																										
ZZZZZZ			09:27																										
ZZZZZZ			09:29																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Instrument ID: WC_Alps 1 Analysis Method: 9012B

Start Date: 11/19/2016 08:27 End Date: 11/19/2016 10:00

Lab Sample Id	D/F	T Y P e	Time	Analytes																									
				C N																									
ZZZZZZ			09:30																										
CCV 280-352272/44			09:32																										
CCB 280-352272/45			09:33																										
ZZZZZZ			09:35																										
ZZZZZZ			09:36																										
ZZZZZZ			09:38																										
ZZZZZZ			09:39																										
ZZZZZZ			09:41																										
ZZZZZZ			09:42																										
ZZZZZZ			09:44																										
ZZZZZZ			09:45																										
ZZZZZZ			09:47																										
ZZZZZZ			09:48																										
ZZZZZZ			09:50																										
ZZZZZZ			09:51																										
CCV 280-352272/58			09:53																										
CCB 280-352272/59			09:58																										
ZZZZZZ			10:00																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Instrument ID: WC_Alps 1

Analysis Method: 9012B

Start Date: 11/19/2016 13:01

End Date: 11/19/2016 15:07

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				C N																									
ZZZZZZ			13:01																										
ZZZZZZ			13:02																										
ZZZZZZ			13:04																										
ZZZZZZ			13:05																										
IC 280-352310/5			13:07	X																									
IC 280-352310/6			13:08	X																									
IC 280-352310/7			13:10	X																									
IC 280-352310/8			13:11	X																									
IC 280-352310/9			13:13	X																									
IC 280-352310/10			13:14	X																									
IC 280-352310/11			13:16	X																									
ZZZZZZ			13:17																										
ZZZZZZ			13:19																										
ICV 280-352310/14	1		13:20	X																									
ICB 280-352310/15	1		13:22	X																									
ZZZZZZ			13:23																										
ZZZZZZ			13:25																										
ZZZZZZ			13:26																										
ZZZZZZ			13:28																										
ZZZZZZ			13:29																										
ZZZZZZ			13:31																										
ZZZZZZ			13:32																										
ZZZZZZ			13:34																										
ZZZZZZ			13:35																										
ZZZZZZ			13:37																										
ZZZZZZ			13:38																										
ZZZZZZ			13:40																										
ZZZZZZ			13:41																										
CCV 280-352310/29	1		13:43	X																									
CCB 280-352310/30	1		13:44	X																									
ZZZZZZ			13:46																										
ZZZZZZ			13:47																										
ZZZZZZ			13:49																										
ZZZZZZ			13:50																										
ZZZZZZ			13:52																										
ZZZZZZ			13:53																										
ZZZZZZ			13:55																										
HLCS 280-352264/1-A	2	T	13:56	X																									
LLCS 280-352264/2-A	1	T	13:58	X																									
LCS 280-352264/3-A	1	T	13:59	X																									
MB 280-352264/4-A	1	T	14:01	X																									
ZZZZZZ			14:02																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-90775-1

SDG No.: _____

Instrument ID: WC_Alps 1

Analysis Method: 9012B

Start Date: 11/19/2016 13:01

End Date: 11/19/2016 15:07

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				C N																									
ZZZZZZ			14:04																										
CCV 280-352310/44	1		14:05	X																									
CCB 280-352310/45	1		14:07	X																									
ZZZZZZ			14:08																										
ZZZZZZ			14:10																										
ZZZZZZ			14:11																										
ZZZZZZ			14:13																										
ZZZZZZ			14:14																										
ZZZZZZ			14:16																										
ZZZZZZ			14:17																										
ZZZZZZ			14:19																										
ZZZZZZ			14:20																										
ZZZZZZ			14:22																										
ZZZZZZ			14:23																										
ZZZZZZ			14:25																										
ZZZZZZ			14:26																										
CCV 280-352310/59	1		14:28	X																									
CCB 280-352310/60	1		14:29	X																									
ZZZZZZ			14:31																										
ZZZZZZ			14:32																										
ZZZZZZ			14:34																										
ZZZZZZ			14:35																										
ZZZZZZ			14:37																										
ZZZZZZ			14:38																										
ZZZZZZ			14:40																										
ZZZZZZ			14:41																										
ZZZZZZ			14:43																										
ZZZZZZ			14:44																										
ZZZZZZ			14:46																										
ZZZZZZ			14:47																										
ZZZZZZ			14:49																										
CCV 280-352310/74			14:50																										
CCB 280-352310/75			14:52																										
ZZZZZZ			14:53																										
ZZZZZZ			14:55																										
ZZZZZZ			14:56																										
ZZZZZZ			14:58																										
ZZZZZZ			14:59																										
ZZZZZZ			15:01																										
ZZZZZZ			15:02																										
CCV 280-352310/83			15:04																										
CCB 280-352310/84			15:05																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Instrument ID: WC_Alps 1 Analysis Method: 9012B

Start Date: 11/19/2016 13:01 End Date: 11/19/2016 15:07

Lab Sample Id	D/F	T Y P e	Time	Analytes																									
				C	N																								
ZZZZZZ			15:07																										

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352144 Batch Start Date: 11/18/16 09:14 Batch Analyst: Schroder, Aaron LBatch Method: 9012B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillpHCheck	SulfideCheck	ChlorineCheck	CN 10ppm 00229
HLCS 280-352144/1		9012B, 9012B		50 mL	50 mL	>12	N	N	2 mL
LLCS 280-352144/2		9012B, 9012B		50 mL	50 mL	>12	N	N	0.5 mL
LCS 280-352144/3		9012B, 9012B		50 mL	50 mL	>12	N	N	
MB 280-352144/4		9012B, 9012B		50 mL	50 mL	>12	N	N	
280-90775-E-1	CBLmw-001-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-1 MS	CBLmw-001-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-1 MSD	CBLmw-001-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-2	CBLmw-002-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-3	CBLmw-003-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-4	CBLmw-004-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	CN ICV Int 00408					
HLCS 280-352144/1		9012B, 9012B							
LLCS 280-352144/2		9012B, 9012B							
LCS 280-352144/3		9012B, 9012B		0.5 mL					
MB 280-352144/4		9012B, 9012B							
280-90775-E-1	CBLmw-001-110916 -GW	9012B, 9012B	T						
280-90775-E-1 MS	CBLmw-001-110916 -GW	9012B, 9012B	T	0.5 mL					
280-90775-E-1 MSD	CBLmw-001-110916 -GW	9012B, 9012B	T	0.5 mL					
280-90775-E-2	CBLmw-002-110916 -GW	9012B, 9012B	T						
280-90775-E-3	CBLmw-003-110916 -GW	9012B, 9012B	T						
280-90775-E-4	CBLmw-004-110916 -GW	9012B, 9012B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

Page 1 of 2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352144 Batch Start Date: 11/18/16 09:14 Batch Analyst: Schroder, Aaron LBatch Method: 9012B Batch End Date: _____

Batch Notes	
Balance ID	M19170
Magnesium Chloride Reagent ID Number	CN Mag Chl_00062
Sodium Hydroxide ID	2%NaOH_00256
Pipette ID	WC 5000ELJ WC 1000NXN
Sulfamic Acid ID	CN Sulf_00070
Sulfuric Acid Reagent ID Number	H2SO4_00154

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352264 Batch Start Date: 11/19/16 09:41 Batch Analyst: Lehman, Jeffrey MBatch Method: 9012B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillpHCheck	SulfideCheck	ChlorineCheck	CN 10ppm 00229
HLCS 280-352264/1		9012B, 9012B		50 mL	50 mL	>12	N	N	2 mL
LLCS 280-352264/2		9012B, 9012B		50 mL	50 mL	>12	N	N	0.5 mL
LCS 280-352264/3		9012B, 9012B		50 mL	50 mL	>12	N	N	
MB 280-352264/4		9012B, 9012B		50 mL	50 mL	>12	N	N	
280-90775-E-1	CBLmw-001-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-2	CBLmw-002-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-3	CBLmw-003-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	
280-90775-E-4	CBLmw-004-110916 -GW	9012B, 9012B	T	50 mL	50 mL	>12	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	CN ICV Int 00408					
HLCS 280-352264/1		9012B, 9012B							
LLCS 280-352264/2		9012B, 9012B							
LCS 280-352264/3		9012B, 9012B		0.5 mL					
MB 280-352264/4		9012B, 9012B							
280-90775-E-1	CBLmw-001-110916 -GW	9012B, 9012B	T						
280-90775-E-2	CBLmw-002-110916 -GW	9012B, 9012B	T						
280-90775-E-3	CBLmw-003-110916 -GW	9012B, 9012B	T						
280-90775-E-4	CBLmw-004-110916 -GW	9012B, 9012B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352264 Batch Start Date: 11/19/16 09:41 Batch Analyst: Lehman, Jeffrey MBatch Method: 9012B Batch End Date: _____

Batch Notes	
Balance ID	M19170
Magnesium Chloride Reagent ID Number	CN Mag Chl_00062
Sodium Hydroxide ID	2%NaOH_00256
Pipette ID	WC 5000ELJ WC 1000NXN
Sulfamic Acid ID	CN Sulf_00070
Sulfuric Acid Reagent ID Number	H2SO4_00164 H2SO4_00165

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352272 Batch Start Date: 11/19/16 08:27 Batch Analyst: Lehman, Jeffrey MBatch Method: 9012B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CAL 1 ppm 01178	CN ICV Daily 00942		
ICV 280-352272/14		9012B		50 mL	50 mL		50 mL		
ICB 280-352272/15		9012B		50 mL	50 mL				
HLCS 280-352144/1-A		9012B		50 mL	50 mL				
LLCS 280-352144/2-A		9012B		50 mL	50 mL				
LCS 280-352144/3-A		9012B		50 mL	50 mL				
MB 280-352144/4-A		9012B		50 mL	50 mL				
280-90775-E-1-A	CBLmw-001-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-1-B	CBLmw-001-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-1-C	CBLmw-001-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-2-A	CBLmw-002-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-3-A	CBLmw-003-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-4-A	CBLmw-004-110916 -GW	9012B	T	50 mL	50 mL				
CCV 280-352272/29		9012B		50 mL	50 mL	10 mL			
CCB 280-352272/30		9012B		50 mL	50 mL				

Batch Notes	
Buffer Reagent ID Number	CN Buffer_00087
Chloramine-T ID	CN Chloro-T_00717
Pipette ID	WC 5000ELJ WC 1000NXN
Pyridine-Barbituric Acid ID	CN Pyr/Barb_00148

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352310 Batch Start Date: 11/19/16 13:01 Batch Analyst: Lehman, Jeffrey MBatch Method: 9012B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CAL 1 ppm 01178	CN ICV Daily 00942		
ICV 280-352310/14		9012B		50 mL	50 mL		50 mL		
ICB 280-352310/15		9012B		50 mL	50 mL				
CCV 280-352310/29		9012B		50 mL	50 mL	10 mL			
CCB 280-352310/30		9012B		50 mL	50 mL				
HLCS 280-352264/1-A		9012B		50 mL	50 mL				
LLCS 280-352264/2-A		9012B		50 mL	50 mL				
LCS 280-352264/3-A		9012B		50 mL	50 mL				
MB 280-352264/4-A		9012B		50 mL	50 mL				
CCV 280-352310/44		9012B		50 mL	50 mL	10 mL			
CCB 280-352310/45		9012B		50 mL	50 mL				
280-90775-E-1-D	CBLmw-001-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-2-B	CBLmw-002-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-3-B	CBLmw-003-110916 -GW	9012B	T	50 mL	50 mL				
280-90775-E-4-B	CBLmw-004-110916 -GW	9012B	T	50 mL	50 mL				
CCV 280-352310/59		9012B		50 mL	50 mL	10 mL			
CCB 280-352310/60		9012B		50 mL	50 mL				

Batch Notes	
Buffer Reagent ID Number	CN Buffer_00078
Chloramine-T ID	CN Chloro-T_00717
Pipette ID	WC 5000ELJ WC 1000NXN
Pyridine-Barbituric Acid ID	CN Pyr/Barb_00148

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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Page 1 of 2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-90775-1

SDG No.: _____

Batch Number: 352310 Batch Start Date: 11/19/16 13:01 Batch Analyst: Lehman, Jeffrey MBatch Method: 9012B Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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Run Results Report

Facility Name
Facility Location
Department
Operator Name JML
Operator ID JML
Platform FS III/IV/3100
Software Rev Code 222
Data system ID 57

Result path C:\FLOW_4\C111916.RST
Sample table path C:\FLOW_4\c111916.tbl
Method path C:\FLOW_4\cyanide.mth
Date acquired 19-Nov-16
Time acquired 10:05

----- Cyanide, Total -----					
Date	Time	Cup	Name	Response	Calc [ppb] Flags
19-Nov-16	08:27	107	Sync	331362	389.679
19-Nov-16	08:29	0	Carryover	296	-0.197 LO
19-Nov-16	08:30	0	Carryover	64	-0.470 LO
19-Nov-16	08:32	0	Baseline	0	-0.545 BL
19-Nov-16	08:33	101	CAL 0.00 ppb	210	-0.298 LO
19-Nov-16	08:35	102	CAL 10.0 ppb	9145	10.224
19-Nov-16	08:36	103	CAL 20.0 ppb	17452	20.007
19-Nov-16	08:38	104	CAL 50.0 ppb	43301	50.448
19-Nov-16	08:39	105	CAL 100 ppb	85521	100.167
19-Nov-16	08:41	106	Cal 200 ppb	169538	199.110
19-Nov-16	08:42	107	Cal 400 ppb	340416	400.341
19-Nov-16	08:44	0	BLK	-34	-0.586 LO
19-Nov-16	08:45	0	Baseline	0	-0.545 BL
19-Nov-16	08:47	108	ICV 100 ppb	81289	95.184
19-Nov-16	08:48	0	ICB	54	-0.482 LO
19-Nov-16	08:50	0	Baseline	0	-0.545 BL
19-Nov-16	08:51	113	hlcs 280-352144/1-a	164576	386.532
19-Nov-16	08:53	114	llcs 280-352144/2-a	87310	102.274
19-Nov-16	08:54	115	lcs 280-352144/3-a	83871	98.224
19-Nov-16	08:56	116	mb 280-352144/4-a	1249	0.926
19-Nov-16	08:57	117	280-90775-e-1-a	1749	1.514
19-Nov-16	08:59	118	280-90775-e-1-b ms	80853	94.670
19-Nov-16	09:00	119	280-90775-e-1-c msd	82320	96.398
19-Nov-16	09:02	120	280-90775-e-2-a	2708	2.644
19-Nov-16	09:03	121	280-90775-e-3-a	3011	3.001
19-Nov-16	09:05	122	280-90775-e-4-a	2440	2.328
19-Nov-16	09:06	0	BLK	53	-0.482 LO
19-Nov-16	09:08	0	baseline	0	-0.545 BL
19-Nov-16	09:09	109	CCV 200PPB	171458	201.370
19-Nov-16	09:11	0	CCB	-78	-0.637 LO
19-Nov-16	09:12	0	Baseline	0	-0.545 BL
19-Nov-16	09:14	123	280-90779-h-1-a	12324	13.968
19-Nov-16	09:15	124	280-90779-h-3-a	2333	2.202
19-Nov-16	09:17	125	280-90781-a-1-a	5550	5.990
19-Nov-16	09:18	126	280-90781-c-2-a	998	0.630
19-Nov-16	09:20	127	280-90848-c-1-a	1358	1.054
19-Nov-16	09:21	128	280-90848-c-2-a	550	0.103
19-Nov-16	09:23	129	280-90848-c-3-a	3803	3.934
19-Nov-16	09:24	130	280-90848-c-4-a	9645	10.814
19-Nov-16	09:26	131	280-90848-c-4-b ms	93463	109.520
19-Nov-16	09:27	132	280-90848-c-4-c msd	83144	97.368
19-Nov-16	09:29	0	BLK	-95	-0.657 LO
19-Nov-16	09:30	0	baseline	0	-0.545 BL
19-Nov-16	09:32	109	CCV 200PPB	163266	191.723
19-Nov-16	09:33	0	CCB	-60	-0.616 LO
19-Nov-16	09:35	0	Baseline	0	-0.545 BL

Result path C:\FLOW_4\C111916.RST
Sample table path C:\FLOW_4\c111916.tbl
Method path C:\FLOW_4\cyanide.mth
Date acquired 19-Nov-16
Time acquired 10:05

----- Cyanide, Total -----						
Date	Time	Cup	Name	Response	Calc [ppb]	Flags
19-Nov-16	09:36	133	280-90850-l-1-a	2469	2.362	
19-Nov-16	09:38	134	280-90851-h-2-a	7029	7.733	
19-Nov-16	09:39	135	280-90856-j-1-a	3141	3.154	
19-Nov-16	09:41	136	280-90856-h-2-a	1738	1.502	
19-Nov-16	09:42	137	280-90856-e-6-a	3153	3.168	
19-Nov-16	09:44	138	280-90856-h-7-a	1942	1.741	
19-Nov-16	09:45	139	280-90881-q-1-a	1400	1.104	
19-Nov-16	09:47	123	280-90779-h-1-a	3859	3.999	
19-Nov-16	09:48	125	280-90781-a-1-a	2383	2.261	
19-Nov-16	09:50	0	BLK	70	-0.462	LO
19-Nov-16	09:51	0	baseline	0	-0.545	BL
19-Nov-16	09:53	109	CCV 200PPB	165393	194.228	
19-Nov-16	09:58	0	CCB	125	-0.398	LO
19-Nov-16	10:00	0	Baseline	0	-0.545	BL

File name: C:\FLOW_4\C111916.RST

Date: 19-Nov-16

Operator: JML

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags	
1	107	Sync	1	SYNC		1	331362	389.679260		
2	0	Carryover	1	CO		1	296	-0.196762	LO	
3	0	Carryover	2	CO		1	64	-0.470283	LO	
B	0	Baseline	1	RB		1	0	-0.545148	BL	
5	101	CAL 0.00 ppb	1	C		1	210	-0.297538	LO	
6	102	CAL 10.0 ppb	1	C		1	9145	10.223804		
7	103	CAL 20.0 ppb	1	C		1	17452	20.007395		
8	104	CAL 50.0 ppb	1	C		1	43301	50.448235		
9	105	CAL 100 ppb	1	C		1	85521	100.167061		
10	106	Cal 200 ppb	1	C		1	169538	199.109589		
11	107	Cal 400 ppb	1	C		1	340416	400.341431		
12	0	BLK	1	BLNK		1	-34	-0.585688	LO	
B	0	Baseline	1	RB		1	0	-0.545148	BL	
14	108	ICV 100 ppb	1	CCV		1	81289	95.184196		
15	0	ICB	1	U		1	54	-0.482049	LO	
B	0	Baseline	1	RB		1	0	-0.545148	BL	
17	113	hlcs 280-352144/1-a	1	U		2	1	164576	386.532043	
18	114	llcs 280-352144/2-a	1	U		1	1	87310	102.274307	
19	115	lcs 280-352144/3-a	1	U		1	1	83871	98.224236	
20	116	mb 280-352144/4-a	1	U		1	1	1249	0.925770	
21	117	280-90775-e-1-a	1	U		1	1	1749	1.514032	
22	118	280-90775-e-1-b	ms	1	U	1	1	80853	94.670479	
23	119	280-90775-e-1-c	msd	1	U	1	1	82320	96.397949	
24	120	280-90775-e-2-a	1	U		1	1	2708	2.644004	
25	121	280-90775-e-3-a	1	U		1	1	3011	3.000917	
26	122	280-90775-e-4-a	1	U		1	1	2440	2.327754	
27	0	BLK	1	BLNK		1	1	53	-0.482267	LO
B	0	baseline	1	RB		1	1	0	-0.545148	BL
29	109	CCV 200PPB	1	CCV		1	1	171458	201.370285	
30	0	CCB	1	U		1	1	-78	-0.637101	LO
B	0	Baseline	1	RB		1	1	0	-0.545148	BL
32	123	280-90779-h-1-a	1	U		1	1	12324	13.967900	
33	124	280-90779-h-3-a	1	U		1	1	2333	2.201831	
34	125	280-90781-a-1-a	1	U		1	1	5550	5.990487	
35	126	280-90781-c-2-a	1	U		1	1	998	0.630366	
36	127	280-90848-c-1-a	1	U		1	1	1358	1.053760	
37	128	280-90848-c-2-a	1	U		1	1	550	0.102530	
38	129	280-90848-c-3-a	1	U		1	1	3803	3.933789	
39	130	280-90848-c-4-a	1	U		1	1	9645	10.813723	
40	131	280-90848-c-4-b	ms	1	U	1	1	93463	109.520103	
41	132	280-90848-c-4-c	msd	1	U	1	1	83144	97.367836	
42	0	BLK	1	BLNK		1	1	-95	-0.656587	LO
B	0	baseline	1	RB		1	1	0	-0.545148	BL
44	109	CCV 200PPB	1	CCV		1	1	163266	191.723297	
45	0	CCB	1	U		1	1	-60	-0.615836	LO
B	0	Baseline	1	RB		1	1	0	-0.545148	BL
47	133	280-90850-l-1-a	1	U		1	1	2469	2.361897	
48	134	280-90851-h-2-a	1	U		1	1	7029	7.732793	
49	135	280-90856-j-1-a	1	U		1	1	3141	3.154187	
50	136	280-90856-h-2-a	1	U		1	1	1738	1.501512	
51	137	280-90856-e-6-a	1	U		1	1	3153	3.168494	
52	138	280-90856-h-7-a	1	U		1	1	1942	1.741388	
53	139	280-90881-q-1-a	1	U		1	1	1400	1.103548	
54	123	280-90779-h-1-a	1	U		1	1	3859	3.999048	
55	125	280-90781-a-1-a	1	U		1	1	2383	2.261285	
56	0	BLK	1	BLNK		1	1	70	-0.462171	LO
B	0	baseline	1	RB		1	1	0	-0.545148	BL
58	109	CCV 200PPB	1	CCV		1	1	165393	194.227722	
59	0	CCB	1	U		1	1	125	-0.397684	LO
B	0	Baseline	1	RB		1	1	0	-0.545148	BL

File name: C:\FLOW_4\C111916.RST

Date: 19-Nov-16

Operator: JML

* Name	Conc	Height
* CAL 0.00 ppb	0.000000	210.259827
* CAL 10.0 ppb	10.000000	9144.541992
* CAL 20.0 ppb	20.000000	17452.357422
* CAL 50.0 ppb	50.000000	43301.441406
* CAL 100 ppb	100.000000	85520.578125
* Cal 200 ppb	200.000000	169538.421875
* Cal 400 ppb	400.000000	340416.062500

Calib Coef:

y=bx+a

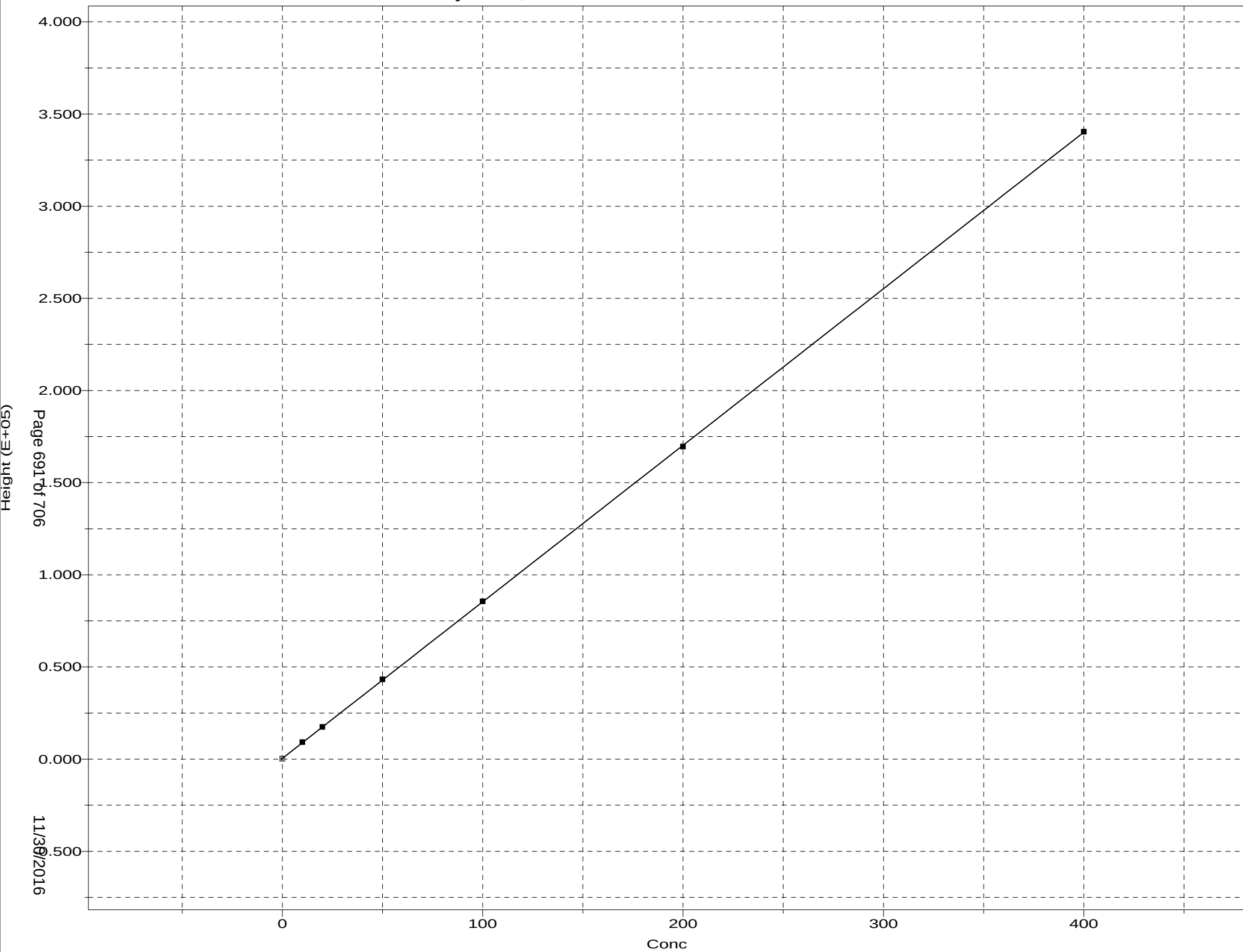
a: (intercept) 4.6292e+02

b: 8.4916e+02

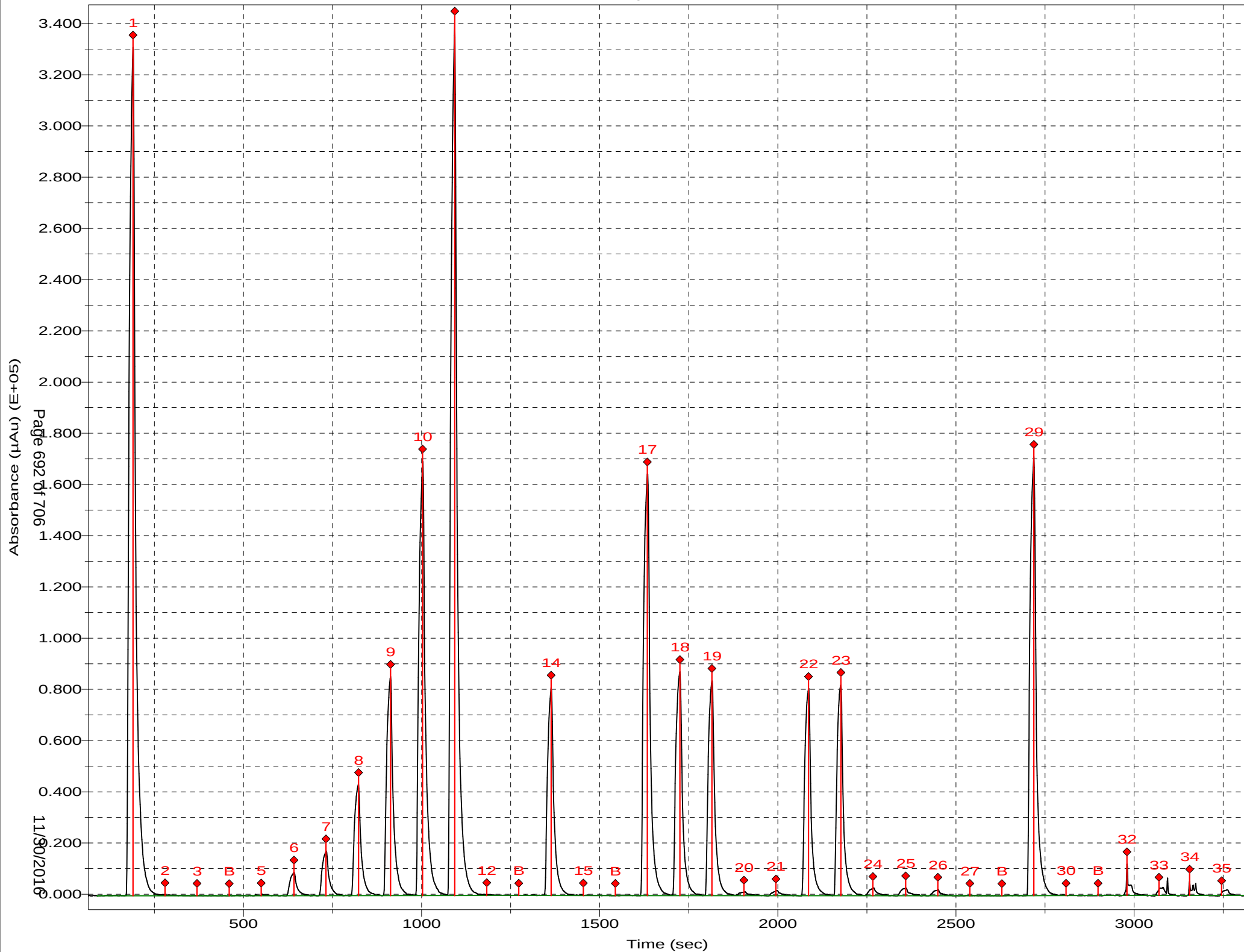
Corr Coef: 0.999995

Carryover: 0.0893%

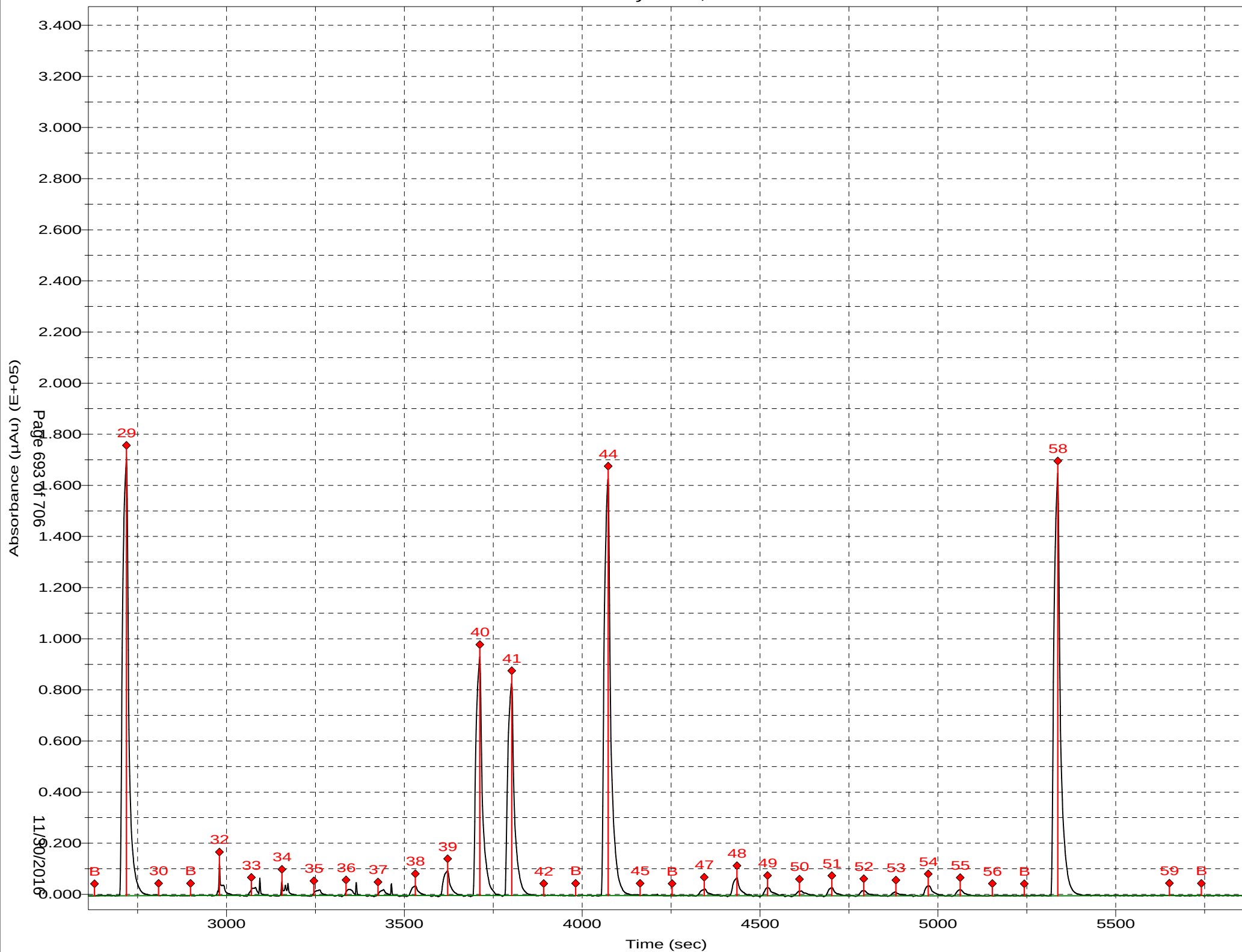
No Drift Peaks



Channel 1: Cyanide, Total



Channel 1: Cyanide, Total



Run Results Report

Facility Name
Facility Location
Department
Operator Name JML
Operator ID JML
Platform FS III/IV/3100
Software Rev Code 222
Data system ID 57

Result path C:\FLOW_4\C111916A.RST
Sample table path C:\FLOW_4\c111916a.tbl
Method path C:\FLOW_4\cyanide.mth
Date acquired 19-Nov-16
Time acquired 15:12

----- Cyanide, Total -----					
Date	Time	Cup	Name	Response	Calc [ppb] Flags
19-Nov-16	13:01	107	Sync	331453	398.658
19-Nov-16	13:02	0	Carryover	155	-0.001 LO
19-Nov-16	13:04	0	Carryover	3	-0.184 LO
19-Nov-16	13:05	0	Baseline	0	-0.188 BL
19-Nov-16	13:07	101	CAL 0.00 ppb	159	0.003
19-Nov-16	13:08	102	CAL 10.0 ppb	8498	10.038
19-Nov-16	13:10	103	CAL 20.0 ppb	16831	20.066
19-Nov-16	13:11	104	CAL 50.0 ppb	41838	50.157
19-Nov-16	13:13	105	CAL 100 ppb	83056	99.756
19-Nov-16	13:14	106	Cal 200 ppb	166268	199.886
19-Nov-16	13:16	107	Cal 400 ppb	332647	400.094
19-Nov-16	13:17	0	BLK	34	-0.147 LO
19-Nov-16	13:19	0	Baseline	0	-0.188 BL
19-Nov-16	13:20	108	ICV 100 ppb	78826	94.666
19-Nov-16	13:22	0	ICB	-31	-0.225 LO
19-Nov-16	13:23	0	Baseline	0	-0.188 BL
19-Nov-16	13:25	113	hlcs 280-352249/1-a	161825	389.079
19-Nov-16	13:26	114	llcs 280-352249/2-a	81979	98.459
19-Nov-16	13:28	115	lcs 280-352249/3-a	84901	101.975
19-Nov-16	13:29	116	mb 280-352249/4-a	3462	3.978
19-Nov-16	13:31	117	280-90743-e-1-a	3563	4.100
19-Nov-16	13:32	118	280-90743-e-1-b ms	81055	97.348
19-Nov-16	13:34	119	280-90743-e-1-c msd	78686	94.497
19-Nov-16	13:35	120	280-90743-e-2-a	2782	3.160
19-Nov-16	13:37	121	280-90743-f-3-a	4717	5.489
19-Nov-16	13:38	122	280-90743-d-4-a	3683	4.245
19-Nov-16	13:40	0	BLK	98	-0.070 LO
19-Nov-16	13:41	0	baseline	0	-0.188 BL
19-Nov-16	13:43	109	CCV 200PPB	167241	201.057
19-Nov-16	13:44	0	CCB	6	-0.181 LO
19-Nov-16	13:46	0	Baseline	0	-0.188 BL
19-Nov-16	13:47	123	280-90882-f-1-a	3740	4.313
19-Nov-16	13:49	124	280-90882-f-2-a	2371	2.665
19-Nov-16	13:50	125	280-90882-f-3-a	7084	8.337
19-Nov-16	13:52	126	280-90882-f-4-a	1782	1.957
19-Nov-16	13:53	127	280-90882-f-5-a	3192	3.653
19-Nov-16	13:55	128	460-122822-f-5-a	4603	5.351
19-Nov-16	13:56	129	hlcs 280-352264/1-a	157350	378.311
19-Nov-16	13:58	130	llcs 280-352264/2-a	77501	93.071
19-Nov-16	13:59	131	lcs 280-352264/3-a	79143	95.047
19-Nov-16	14:01	132	mb 280-352264/4-a	3828	4.419
19-Nov-16	14:02	0	BLK	87	-0.083 LO
19-Nov-16	14:04	0	baseline	0	-0.188 BL
19-Nov-16	14:05	109	CCV 200PPB	163885	197.019
19-Nov-16	14:07	0	CCB	38	-0.142 LO
19-Nov-16	14:08	0	Baseline	0	-0.188 BL

Result path C:\FLOW_4\C111916A.RST
Sample table path C:\FLOW_4\c111916a.tbl
Method path C:\FLOW_4\cyanide.mth
Date acquired 19-Nov-16
Time acquired 15:12

----- Cyanide, Total -----						
Date	Time	Cup	Name	Response	Calc [ppb]	Flags
19-Nov-16	14:10	133	280-90785-g-1-a	3681	4.241	
19-Nov-16	14:11	134	280-90785-g-1-b ms	79464	95.433	
19-Nov-16	14:13	135	280-90785-g-1-c msd	77186	92.692	
19-Nov-16	14:14	136	280-90785-d-2-a	3941	4.555	
19-Nov-16	14:16	137	280-90785-c-4-a	4903	5.712	
19-Nov-16	14:17	138	280-90770-n-1-a	5226	6.101	
19-Nov-16	14:19	139	280-90775-e-1-d	1618	1.760	
19-Nov-16	14:20	140	280-90775-e-2-b	1941	2.148	
19-Nov-16	14:22	141	280-90775-e-3-b	3445	3.958	
19-Nov-16	14:23	142	280-90775-e-4-b	5625	6.581	
19-Nov-16	14:25	0	BLK	15	-0.170	LO
19-Nov-16	14:26	0	baseline	0	-0.188	BL
19-Nov-16	14:28	109	CCV 200PPB	167674	201.578	
19-Nov-16	14:29	0	CCB	-81	-0.285	LO
19-Nov-16	14:31	0	Baseline	0	-0.188	BL
19-Nov-16	14:32	143	280-90779-h-1-b	2825	3.211	
19-Nov-16	14:34	144	280-90779-h-3-b	5645	6.605	
19-Nov-16	14:35	145	280-90851-l-3-b	1873	2.066	
19-Nov-16	14:37	146	280-90851-ah-1-d	2098	2.336	
19-Nov-16	14:38	147	280-90851-ah-1-e ms	77378	92.923	
19-Nov-16	14:40	148	280-90851-ah-1-f msd	77099	92.587	
19-Nov-16	14:41	149	280-90781-a-1-c	9242	10.933	
19-Nov-16	14:43	150	280-90781-c-2-c	4312	5.001	
19-Nov-16	14:44	151	280-90848-c-1-c	5747	6.727	
19-Nov-16	14:46	152	280-90848-c-2-c	3515	4.043	
19-Nov-16	14:47	0	BLK	65	-0.109	LO
19-Nov-16	14:49	0	baseline	0	-0.188	BL
19-Nov-16	14:50	109	CCV 200PPB	167325	201.158	
19-Nov-16	14:52	0	CCB	115	-0.050	LO
19-Nov-16	14:53	0	Baseline	0	-0.188	BL
19-Nov-16	14:55	153	280-90848-c-3-c	2837	3.226	
19-Nov-16	14:56	154	280-90848-c-4-e	7914	9.336	
19-Nov-16	14:58	155	280-90850-l-1-c	3121	3.567	
19-Nov-16	14:59	156	460-122822-a-5-a	15935	18.987	
19-Nov-16	15:01	0	BLK	102	-0.065	LO
19-Nov-16	15:02	0	baseline	0	-0.188	BL
19-Nov-16	15:04	109	CCV 200PPB	167561	201.442	
19-Nov-16	15:05	0	CCB	55	-0.122	LO
19-Nov-16	15:07	0	Baseline	0	-0.188	BL

File name: C:\FLOW_4\C111916A.RST

Date: 19-Nov-16

Operator: JML

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags	
1	107	Sync	1	SYNC		1	331453	398.657837		
2	0	Carryover	1	CO		1	155	-0.001258	LO	
3	0	Carryover	2	CO		1	3	-0.184268	LO	
B	0	Baseline	1	RB		1	0	-0.187717	BL	
5	101	CAL 0.00 ppb	1	C		1	159	0.003151		
6	102	CAL 10.0 ppb	1	C		1	8498	10.038074		
7	103	CAL 20.0 ppb	1	C		1	16831	20.066010		
8	104	CAL 50.0 ppb	1	C		1	41838	50.156590		
9	105	CAL 100 ppb	1	C		1	83056	99.756096		
10	106	Cal 200 ppb	1	C		1	166268	199.885941		
11	107	Cal 400 ppb	1	C		1	332647	400.094147		
12	0	BLK	1	BLNK		1	34	-0.146802	LO	
B	0	Baseline	1	RB		1	0	-0.187717	BL	
14	108	ICV 100 ppb	1	CCV		1	78826	94.665649		
15	0	ICB	1	U		1	-31	-0.224737	LO	
B	0	Baseline	1	RB		1	0	-0.187717	BL	
17	113	hlcs 280-352249/1-a	1	U		2	1	161825	389.079498	
18	114	llcs 280-352249/2-a	1	U		1	1	81979	98.459465	
19	115	lcs 280-352249/3-a	1	U		1	1	84901	101.975441	
20	116	mb 280-352249/4-a	1	U		1	1	3462	3.978431	
21	117	280-90743-e-1-a	1	U		1	1	3563	4.100121	
22	118	280-90743-e-1-b	ms	1	U	1	1	81055	97.347832	
23	119	280-90743-e-1-c	msd	1	U	1	1	78686	94.496712	
24	120	280-90743-e-2-a	1	U		1	1	2782	3.160371	
25	121	280-90743-f-3-a	1	U		1	1	4717	5.488591	
26	122	280-90743-d-4-a	1	U		1	1	3683	4.244647	
27	0	BLK	1	BLNK		1	1	98	-0.069965	LO
B	0	baseline	1	RB		1	1	0	-0.187717	BL
29	109	CCV 200PPB	1	CCV		1	1	167241	201.056686	
30	0	CCB	1	U		1	1	6	-0.180576	LO
B	0	Baseline	1	RB		1	1	0	-0.187717	BL
32	123	280-90882-f-1-a	1	U		1	1	3740	4.313288	
33	124	280-90882-f-2-a	1	U		1	1	2371	2.665137	
34	125	280-90882-f-3-a	1	U		1	1	7084	8.336528	
35	126	280-90882-f-4-a	1	U		1	1	1782	1.957189	
36	127	280-90882-f-5-a	1	U		1	1	3192	3.653133	
37	128	460-122822-f-5-a	1	U		1	1	4603	5.350727	
38	129	hlcs 280-352264/1-a	1	U		2	1	157350	378.311218	
39	130	llcs 280-352264/2-a	1	U		1	1	77501	93.070679	
40	131	lcs 280-352264/3-a	1	U		1	1	79143	95.046692	
41	132	mb 280-352264/4-a	1	U		1	1	3828	4.419023	
42	0	BLK	1	BLNK		1	1	87	-0.083253	LO
B	0	baseline	1	RB		1	1	0	-0.187717	BL
44	109	CCV 200PPB	1	CCV		1	1	163885	197.018539	
45	0	CCB	1	U		1	1	38	-0.141927	LO
B	0	Baseline	1	RB		1	1	0	-0.187717	BL
47	133	280-90785-g-1-a	1	U		1	1	3681	4.241416	
48	134	280-90785-g-1-b	ms	1	U	1	1	79464	95.432800	
49	135	280-90785-g-1-c	msd	1	U	1	1	77186	92.691536	
50	136	280-90785-d-2-a	1	U		1	1	3941	4.554942	
51	137	280-90785-c-4-a	1	U		1	1	4903	5.711684	
52	138	280-90770-n-1-a	1	U		1	1	5226	6.101090	
53	139	280-90775-e-1-d	1	U		1	1	1618	1.759542	
54	140	280-90775-e-2-b	1	U		1	1	1941	2.148349	
55	141	280-90775-e-3-b	1	U		1	1	3445	3.957629	
56	142	280-90775-e-4-b	1	U		1	1	5625	6.580688	
57	0	BLK	1	BLNK		1	1	15	-0.169510	LO
B	0	baseline	1	RB		1	1	0	-0.187717	BL
59	109	CCV 200PPB	1	CCV		1	1	167674	201.578079	
60	0	CCB	1	U		1	1	-81	-0.285145	LO
B	0	Baseline	1	RB		1	1	0	-0.187717	BL
62	143	280-90779-h-1-b	1	U		1	1	2825	3.211323	
63	144	280-90779-h-3-b	1	U		1	1	5645	6.604861	
64	145	280-90851-l-3-b	1	U		1	1	1873	2.066335	
65	146	280-90851-ah-1-d	1	U		1	1	2098	2.336395	
66	147	280-90851-ah-1-e	ms	1	U	1	1	77378	92.922508	
67	148	280-90851-ah-1-f	msd	1	U	1	1	77099	92.587128	
68	149	280-90781-a-1-c	1	U		1	1	9242	10.933090	
69	150	280-90781-c-2-c	1	U		1	1	4312	5.001326	
70	151	280-90848-c-1-c	1	U		1	1	5747	6.727439	

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
71	152	280-90848-c-2-c	1	U		1	3515	4.042510	
72	0	BLK	1	BLNK		1	65	-0.109036	L0
B	0	baseline	1	RB		1	0	-0.187717	BL
74	109	CCV 200PPB	1	CCV		1	167325	201.158081	
75	0	CCB	1	U		1	115	-0.049901	L0
B	0	Baseline	1	RB		1	0	-0.187717	BL
77	153	280-90848-c-3-c	1	U		1	2837	3.225543	
78	154	280-90848-c-4-e	1	U		1	7914	9.335756	
79	155	280-90850-l-1-c	1	U		1	3121	3.567338	
80	156	460-122822-a-5-a	1	U		1	15935	18.986641	
81	0	BLK	1	BLNK		1	102	-0.064567	L0
B	0	baseline	1	RB		1	0	-0.187717	BL
83	109	CCV 200PPB	1	CCV		1	167561	201.442429	
84	0	CCB	1	U		1	55	-0.121870	L0
B	0	Baseline	1	RB		1	0	-0.187717	BL

File name: C:\FLOW_4\C111916A.RST

Date: 19-Nov-16

Operator: JML

* Name	Conc	Height
* CAL 0.00 ppb	0.000000	158.617661
* CAL 10.0 ppb	10.000000	8497.958008
* CAL 20.0 ppb	20.000000	16831.492188
* CAL 50.0 ppb	50.000000	41837.726562
* CAL 100 ppb	100.000000	83056.492188
* Cal 200 ppb	200.000000	166267.593750
* Cal 400 ppb	400.000000	332647.000000

Calib Coef:

y=bx+a

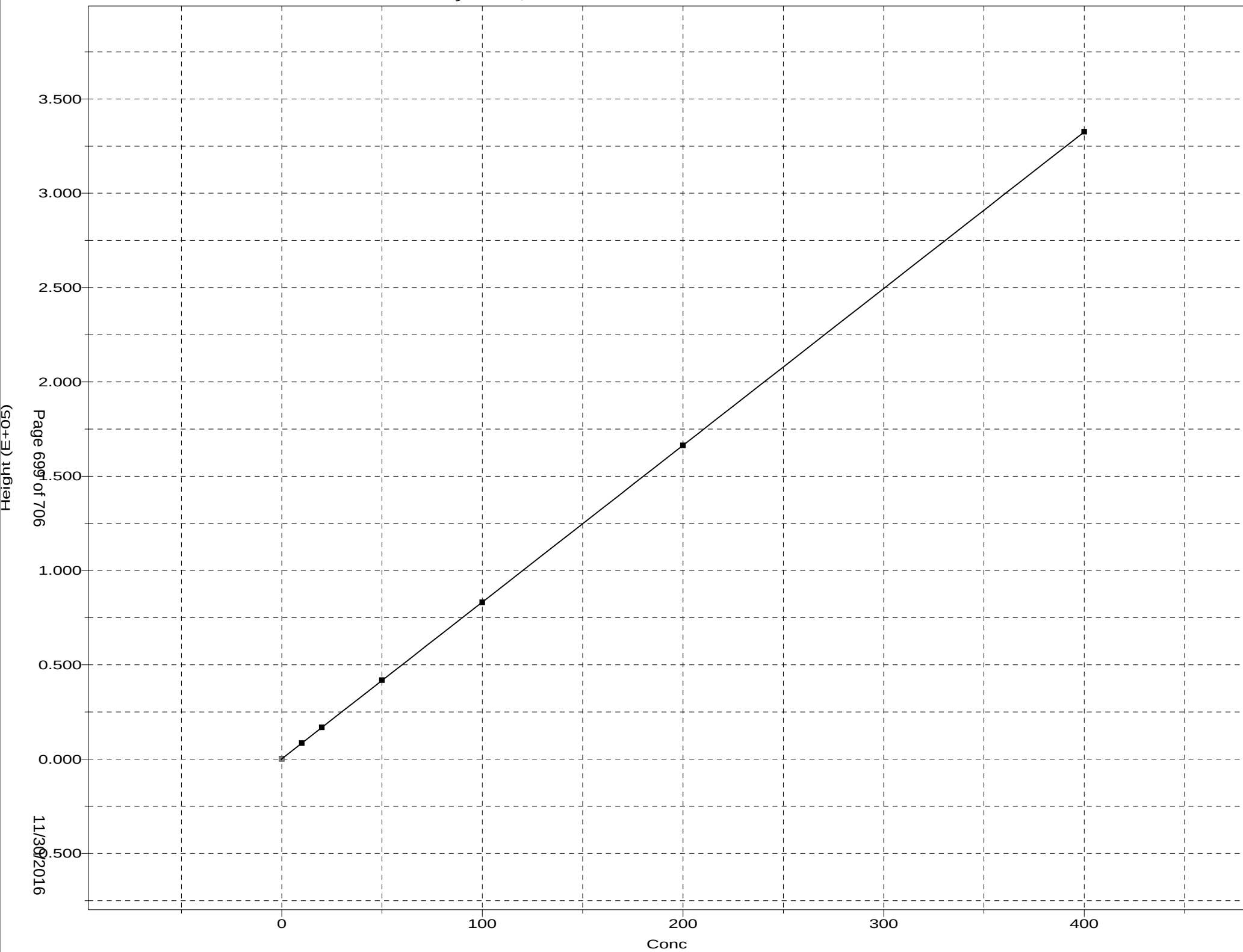
a: (intercept) 1.5600e+02

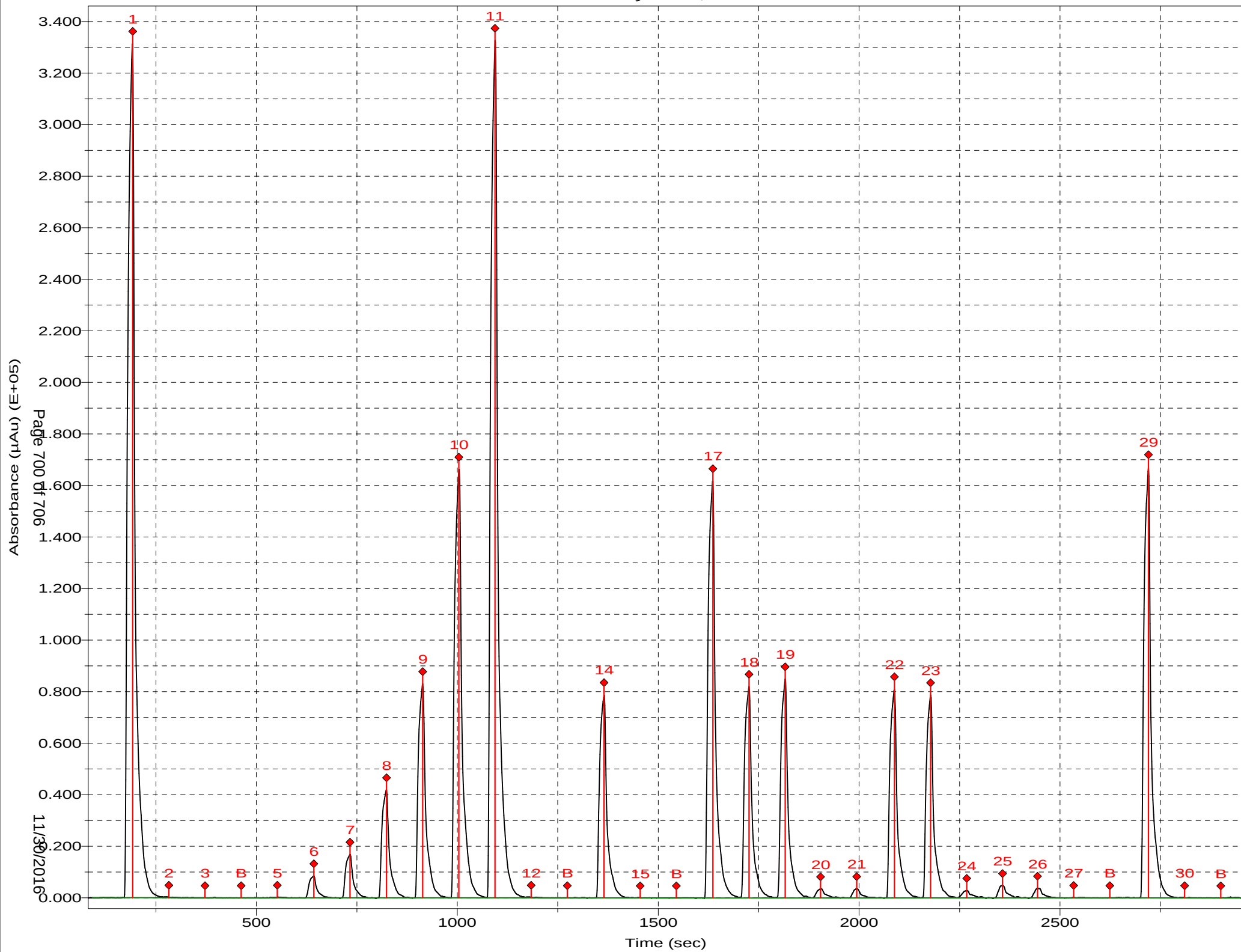
b: 8.3103e+02

Corr Coef: 1.000000

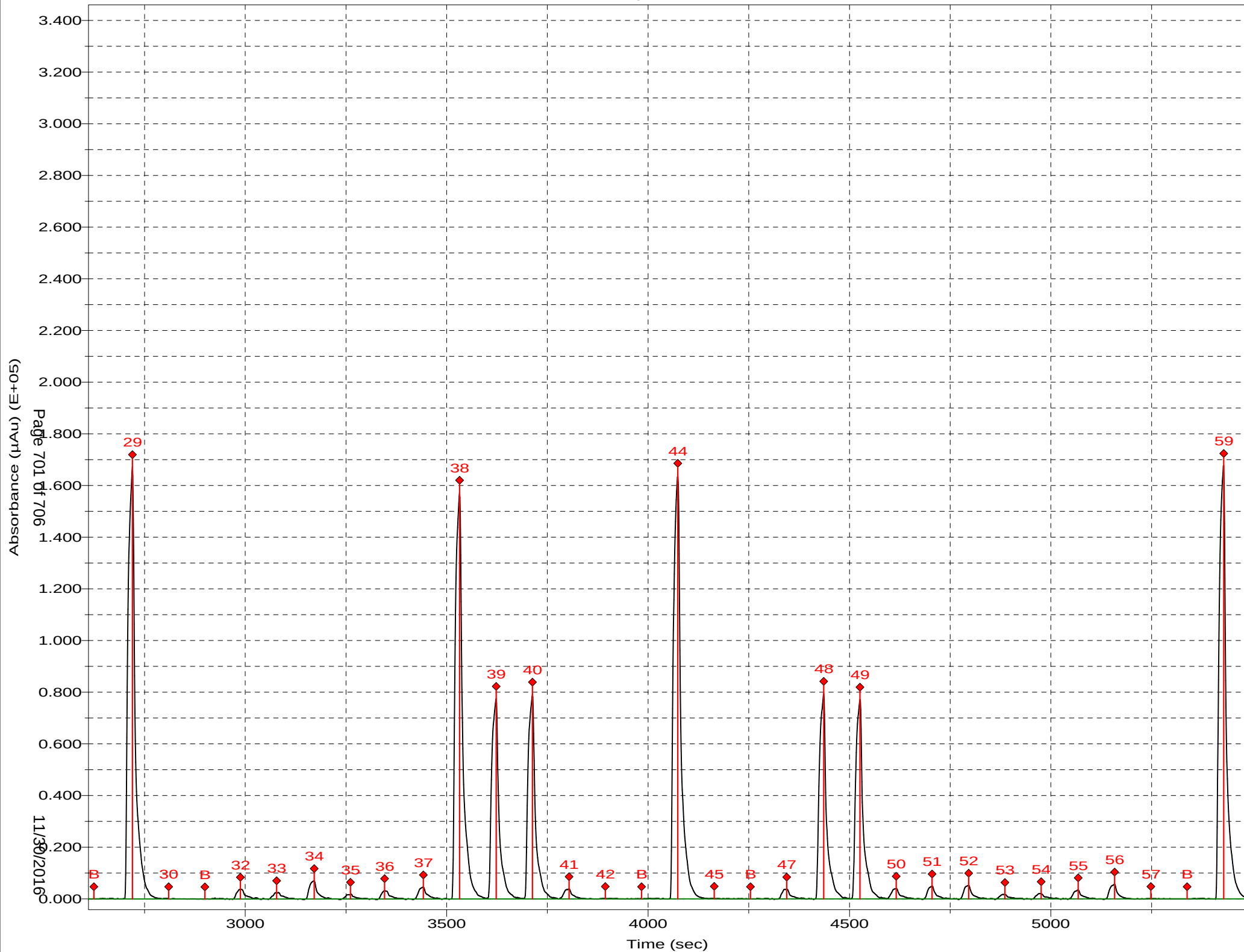
Carryover: 0.0467%

No Drift Peaks

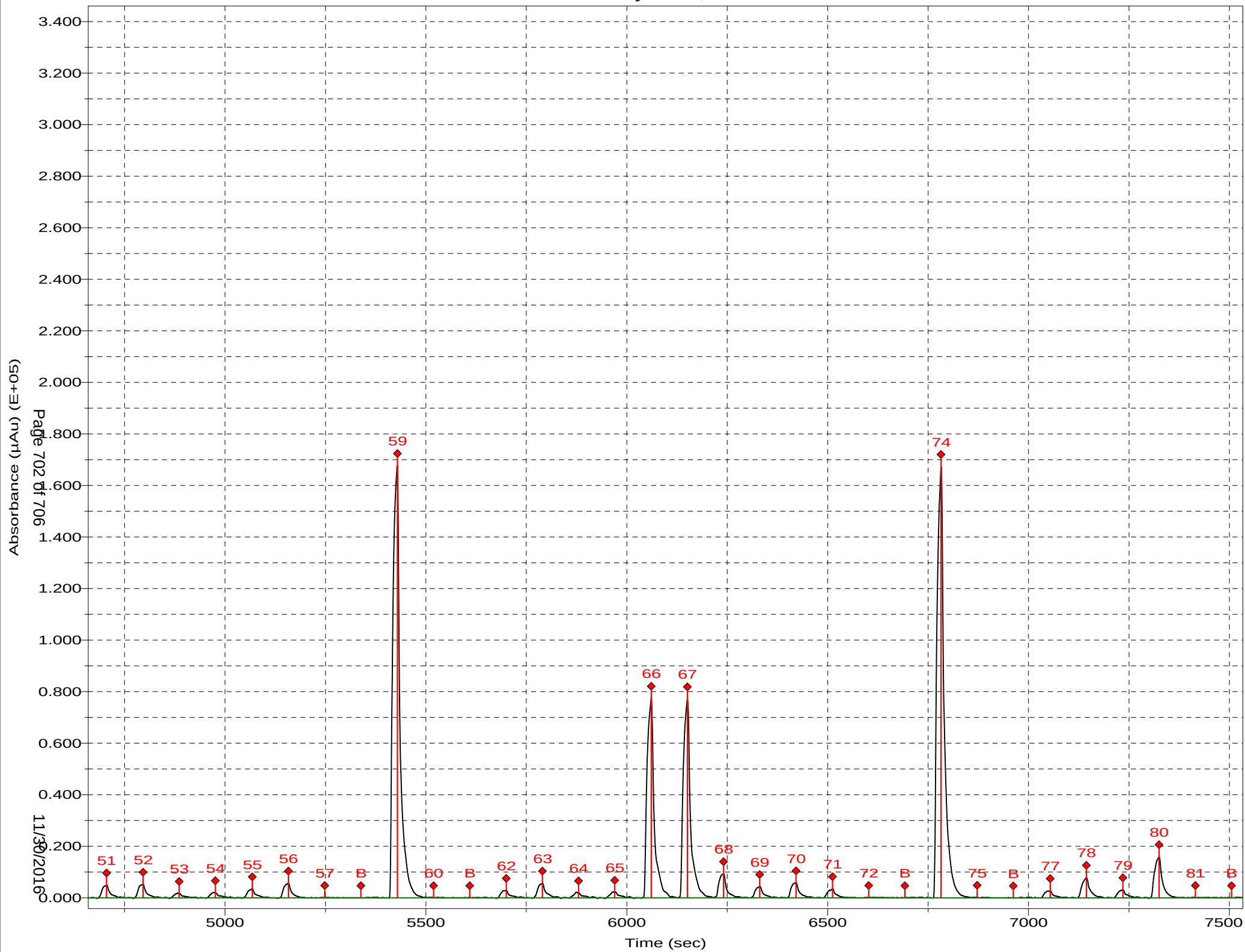




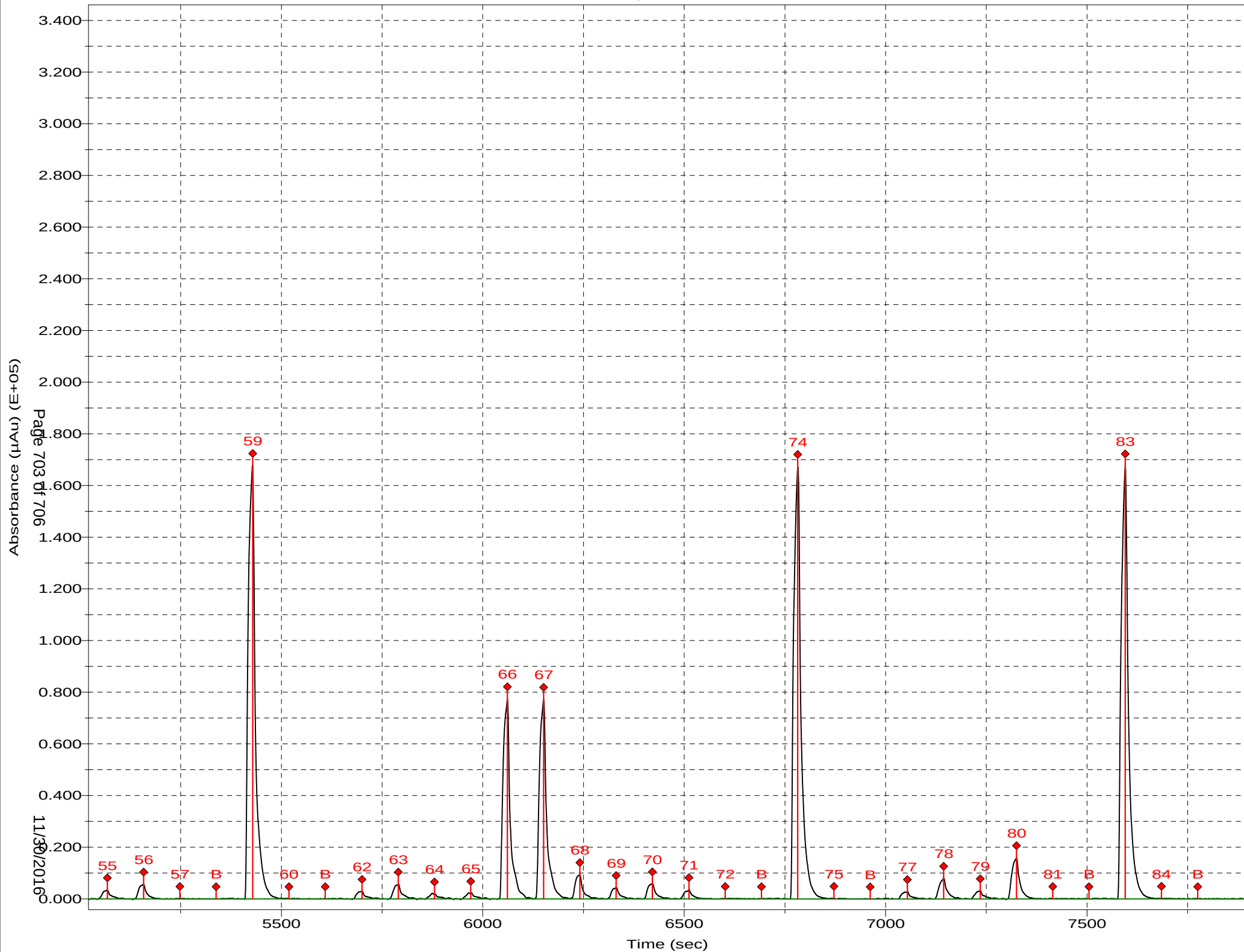
Channel 1: Cyanide, Total



Channel 1: Cyanide, Total



Channel 1: Cyanide, Total



Shipping and Receiving Documents

Chain of Custody Record

C130

810481513870
810481513777
810481513766

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Ms. Heather Miner Company: Cardio TEC, Inc. Address: 1658 Cole Boulevard Suite 190 City: Golden State: Zp CO: 80401 Phone: 0091979 Email: heather.miner@cardno-gs.com Project Name: Ravenna, OH - C-Block Quarry Site: CBL		Sampler: Clint Kappesser Lab PM: McEntee, Patrick J Phone: 859/030/54179 E-Mail: patrick.mcEntee@testamericainc.com		Carrier Tracking No(s): 810481513560 Page: 810481513550 Page 1 of 1 Job #:			
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSON#:		Analysis Requested Perform MS/MSD (Yes or No) ☒ Field Filtered Sample (Yes or No) ☒ Total Metals 6010C_DOD5, 6020A_DOD5, 7470A_DOD5 8270D_DOD5 - SVOCs List 1 8270D_SIM_DOD5 - PAHs PCBs 8082A Cyanide 9012B Total Number of Containers					
Sample Identification CBLMW-001-110910-6W CBLMW-002-110910-6W CBLMW-003-110910-6W CBLMW-004-110910-6W		Sample Date 11/09/10 11/09/10 11/09/10 11/09/10	Sample Time 1045 925 1245 1125	Sample Type (C=Comp, G=grab) 6 6 6 6	Matrix (W=water, S=solid, O=other) W W W W	Preservation Code: 6 6 6 6	Special Instructions/Note: Residue by Pathway Lab
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Method of Shipment:					
Relinquished by: [Signature]		Date/Time: 11/09/10 1730		Company: [Signature]			
Relinquished by: [Signature]		Date/Time: 11/09/10 1730		Company: [Signature]			
Relinquished by: [Signature]		Date/Time: 11/09/10 1730		Company: [Signature]			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 1.1, 0.1, 1.3, 2.9, 4.6 CF=0 JUD #5					

Login Sample Receipt Checklist

Client: Cardno TEC, Inc

Job Number: 280-90775-1

Login Number: 90775

List Source: TestAmerica Denver

List Number: 1

Creator: Kovitch, Christina M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	