

ANALYTICAL REPORT

Job Number: 500-150867-1

Job Description: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
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Saint Louis, MO 63131
Attention: Mr. Daniel Dunn



Approved for release.
Jim D Knapp
Project Manager II
9/17/2018 3:30 PM

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09/17/2018

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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

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Definitions/Glossary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Job Narrative
500-150867-1

Comments

No additional comments.

Receipt

The samples were received on 9/1/2018 10:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.1° C.

GC/MS Semi VOA

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

GC Semi VOA

Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: Total Solids (500-150867-4). The reagent lot number used was: 182359.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: Total Solids (500-150867-4). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: R1

Lab Sample ID: 500-150867-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.089	J	0.78	0.059	ug/L	1		625	Total/NA
Fluoranthene	0.44	J	0.78	0.16	ug/L	1		625	Total/NA
Naphthalene	0.89		0.78	0.12	ug/L	1		625	Total/NA
Phenanthrene	0.49	J	0.78	0.17	ug/L	1		625	Total/NA
Pyrene	0.48	J	0.78	0.18	ug/L	1		625	Total/NA
Lead	190		2.5	1.3	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	9.7		5.0	2.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	340		10	3.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Oil & Grease	4.2	J B	5.5	1.5	mg/L	1		1664B	Total/NA
Total Suspended Solids	520		100	39	mg/L	1		SM 2540D	Total/NA
Phosphorus as P	0.078	J	0.10	0.048	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: G1-01

Lab Sample ID: 500-150867-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.5		0.83	0.13	ug/L	1		625	Total/NA
Lead	45		2.5	1.3	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	8.9		5.0	2.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	95		10	3.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Oil & Grease	2.0	J B	5.6	1.5	mg/L	1		1664B	Total/NA
Total Suspended Solids	90		20	7.7	mg/L	1		SM 2540D	Total/NA
Phosphorus as P	0.36		0.10	0.048	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: G2-01

Lab Sample ID: 500-150867-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.9		0.80	0.12	ug/L	1		625	Total/NA
Lead	19		2.5	1.3	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	2.9	J	5.0	2.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	120		10	3.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Oil & Grease	2.1	J B	5.6	1.5	mg/L	1		1664B	Total/NA
Total Suspended Solids	26		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Phosphorus as P	0.19		0.10	0.048	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: Total Solids

Lab Sample ID: 500-150867-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	17	J	48	8.6	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	24	J	48	6.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	61		48	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210		48	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	230		48	9.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	320		48	10	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	87		48	15	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: Total Solids (Continued)

Lab Sample ID: 500-150867-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	130		48	14	ug/Kg	1	☼	8270D	Total/NA
Chrysene	240		48	13	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	20	J	48	9.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	500		48	8.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	20	J	48	6.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	85		48	12	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	20	J	48	7.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		48	6.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	420		48	9.5	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	17	J	97	12	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	28	J	97	8.8	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.7		1.3	0.45	mg/Kg	1	☼	6010B	Total/NA
Barium	48	B	1.3	0.15	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.50	B	0.26	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.9		1.3	0.65	mg/Kg	1	☼	6010B	Total/NA
Lead	71		0.65	0.30	mg/Kg	1	☼	6010B	Total/NA
Mercury	4600		580	190	ug/Kg	25	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: R1

Lab Sample ID: 500-150867-1

Date Collected: 08/31/18 15:15

Matrix: Water

Date Received: 09/01/18 10:28

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.14		0.78	0.14	ug/L		09/04/18 07:56	09/05/18 08:02	1
Benzo[a]pyrene	0.089	J	0.78	0.059	ug/L		09/04/18 07:56	09/05/18 08:02	1
Fluoranthene	0.44	J	0.78	0.16	ug/L		09/04/18 07:56	09/05/18 08:02	1
Fluorene	<0.13		0.78	0.13	ug/L		09/04/18 07:56	09/05/18 08:02	1
Naphthalene	0.89		0.78	0.12	ug/L		09/04/18 07:56	09/05/18 08:02	1
Phenanthrene	0.49	J	0.78	0.17	ug/L		09/04/18 07:56	09/05/18 08:02	1
Pyrene	0.48	J	0.78	0.18	ug/L		09/04/18 07:56	09/05/18 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		28 - 110				09/04/18 07:56	09/05/18 08:02	1
Terphenyl-d14	67		20 - 133				09/04/18 07:56	09/05/18 08:02	1
2-Fluorobiphenyl	68		31 - 110				09/04/18 07:56	09/05/18 08:02	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190		2.5	1.3	ug/L		09/04/18 08:08	09/04/18 22:34	1
Arsenic	9.7		5.0	2.1	ug/L		09/04/18 08:08	09/04/18 22:34	1
Zinc	340		10	3.6	ug/L		09/04/18 08:08	09/04/18 22:34	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.2	J B	5.5	1.5	mg/L		09/04/18 07:31	09/04/18 12:15	1
Total Suspended Solids	520		100	39	mg/L			09/04/18 16:37	1
Phosphorus as P	0.078	J	0.10	0.048	mg/L		09/04/18 10:21	09/05/18 15:14	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: G1-01

Date Collected: 08/31/18 15:25

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-2

Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.15		0.83	0.15	ug/L		09/04/18 07:56	09/05/18 08:29	1
Benzo[a]pyrene	<0.063		0.83	0.063	ug/L		09/04/18 07:56	09/05/18 08:29	1
Fluoranthene	<0.17		0.83	0.17	ug/L		09/04/18 07:56	09/05/18 08:29	1
Fluorene	<0.14		0.83	0.14	ug/L		09/04/18 07:56	09/05/18 08:29	1
Naphthalene	1.5		0.83	0.13	ug/L		09/04/18 07:56	09/05/18 08:29	1
Phenanthrene	<0.18		0.83	0.18	ug/L		09/04/18 07:56	09/05/18 08:29	1
Pyrene	<0.19		0.83	0.19	ug/L		09/04/18 07:56	09/05/18 08:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	99		28 - 110	09/04/18 07:56	09/05/18 08:29	1
Terphenyl-d14	64		20 - 133	09/04/18 07:56	09/05/18 08:29	1
2-Fluorobiphenyl	80		31 - 110	09/04/18 07:56	09/05/18 08:29	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Lead	45		2.5	1.3	ug/L		09/04/18 08:08	09/04/18 22:38	1
Arsenic	8.9		5.0	2.1	ug/L		09/04/18 08:08	09/04/18 22:38	1
Zinc	95		10	3.6	ug/L		09/04/18 08:08	09/04/18 22:38	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.0	J B	5.6	1.5	mg/L		09/04/18 07:47	09/04/18 12:15	1
Total Suspended Solids	90		20	7.7	mg/L			09/04/18 16:38	1
Phosphorus as P	0.36		0.10	0.048	mg/L		09/04/18 10:21	09/05/18 15:15	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: G2-01
Date Collected: 08/31/18 15:35
Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-3
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.15		0.80	0.15	ug/L		09/04/18 07:56	09/05/18 08:57	1
Benzo[a]pyrene	<0.061		0.80	0.061	ug/L		09/04/18 07:56	09/05/18 08:57	1
Fluoranthene	<0.16		0.80	0.16	ug/L		09/04/18 07:56	09/05/18 08:57	1
Fluorene	<0.13		0.80	0.13	ug/L		09/04/18 07:56	09/05/18 08:57	1
Naphthalene	2.9		0.80	0.12	ug/L		09/04/18 07:56	09/05/18 08:57	1
Phenanthrene	<0.17		0.80	0.17	ug/L		09/04/18 07:56	09/05/18 08:57	1
Pyrene	<0.18		0.80	0.18	ug/L		09/04/18 07:56	09/05/18 08:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		28 - 110				09/04/18 07:56	09/05/18 08:57	1
Terphenyl-d14	62		20 - 133				09/04/18 07:56	09/05/18 08:57	1
2-Fluorobiphenyl	71		31 - 110				09/04/18 07:56	09/05/18 08:57	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		2.5	1.3	ug/L		09/04/18 08:08	09/04/18 22:42	1
Arsenic	2.9	J	5.0	2.1	ug/L		09/04/18 08:08	09/04/18 22:42	1
Zinc	120		10	3.6	ug/L		09/04/18 08:08	09/04/18 22:42	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.1	J B	5.6	1.5	mg/L		09/04/18 08:03	09/04/18 12:15	1
Total Suspended Solids	26		5.0	1.9	mg/L			09/04/18 16:40	1
Phosphorus as P	0.19		0.10	0.048	mg/L		09/04/18 10:21	09/05/18 15:15	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: Total Solids

Date Collected: 08/31/18 15:50
 Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-4

Matrix: Solid
 Percent Solids: 69.0

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	17	J	48	8.6	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Acenaphthylene	24	J	48	6.3	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Anthracene	61		48	8.0	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Benzo[a]anthracene	210		48	6.5	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Benzo[a]pyrene	230		48	9.3	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Benzo[b]fluoranthene	320		48	10	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Benzo[g,h,i]perylene	87		48	15	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Benzo[k]fluoranthene	130		48	14	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Chrysene	240		48	13	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Dibenz(a,h)anthracene	20	J	48	9.3	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Fluoranthene	500		48	8.9	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Fluorene	20	J	48	6.7	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Indeno[1,2,3-cd]pyrene	85		48	12	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Naphthalene	20	J	48	7.4	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Phenanthrene	260		48	6.7	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Pyrene	420		48	9.5	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
1-Methylnaphthalene	17	J	97	12	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
2-Methylnaphthalene	28	J	97	8.8	ug/Kg	☼	09/04/18 08:10	09/05/18 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		41 - 120				09/04/18 08:10	09/05/18 10:43	1
Terphenyl-d14 (Surr)	82		35 - 160				09/04/18 08:10	09/05/18 10:43	1
2-Fluorobiphenyl (Surr)	75		44 - 121				09/04/18 08:10	09/05/18 10:43	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<41		120	41	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
PCB-1221	<51		120	51	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
PCB-1232	<51		120	51	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
PCB-1242	<38		120	38	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
PCB-1248	<46		120	46	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
PCB-1254	<25		120	25	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
PCB-1260	<57		120	57	ug/Kg	☼	09/04/18 11:14	09/05/18 10:45	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		49 - 129				09/04/18 11:14	09/05/18 10:45	5
DCB Decachlorobiphenyl	104		37 - 121				09/04/18 11:14	09/05/18 10:45	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		1.3	0.45	mg/Kg	☼	09/04/18 08:42	09/04/18 20:10	1
Barium	48	B	1.3	0.15	mg/Kg	☼	09/04/18 08:42	09/04/18 20:10	1
Cadmium	0.50	B	0.26	0.047	mg/Kg	☼	09/04/18 08:42	09/04/18 20:10	1
Chromium	9.9		1.3	0.65	mg/Kg	☼	09/04/18 08:42	09/04/18 20:10	1
Lead	71		0.65	0.30	mg/Kg	☼	09/04/18 08:42	09/04/18 20:10	1
Selenium	<0.77		1.3	0.77	mg/Kg	☼	09/04/18 08:42	09/04/18 20:10	1
Silver	<0.17		0.65	0.17	mg/Kg	☼	09/04/18 08:42	09/05/18 14:00	1

Client Sample Results

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: Total Solids

Date Collected: 08/31/18 15:50

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-4

Matrix: Solid

Percent Solids: 69.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4600		580	190	ug/Kg	☼	09/04/18 16:55	09/05/18 14:34	25

Action Limit Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: R1

Lab Sample ID: 500-150867-1

Analyte	Result	Qualifier	Unit	High Reg Limit	LOQ	Method	Prep Type
Anthracene	<0.14		ug/L		0.78	625	Total/NA
Benzo[a]pyrene	0.089	J	ug/L		0.78	625	Total/NA
Fluoranthene	0.44	J	ug/L		0.78	625	Total/NA
Fluorene	<0.13		ug/L		0.78	625	Total/NA
Naphthalene	0.89		ug/L		0.78	625	Total/NA
Phenanthrene	0.49	J	ug/L		0.78	625	Total/NA
Pyrene	0.48	J	ug/L		0.78	625	Total/NA
Lead	190		ug/L		2.5	200.7 Rev 4.4	Total Recoverable
Arsenic	9.7		ug/L		5.0	200.7 Rev 4.4	Total Recoverable
Zinc	340		ug/L		10	200.7 Rev 4.4	Total Recoverable
Oil & Grease	4.2	J B	mg/L		5.5	1664B	Total/NA
Total Suspended Solids	520		mg/L		100	SM 2540D	Total/NA
Phosphorus as P	0.078	J	mg/L		0.10	SM 4500 P E	Total/NA

Client Sample ID: R1

Lab Sample ID: 500-150867-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	LOQ	Method	Prep Type
Anthracene	<0.14		ug/L	0.34	0.78	625	Total/NA
Benzo[a]pyrene	0.089	J	ug/L	0.39	0.78	625	Total/NA
Fluoranthene	0.44	J	ug/L	3.2	0.78	625	Total/NA
Fluorene	<0.13		ug/L	58	0.78	625	Total/NA
Naphthalene	0.89		ug/L	340	0.78	625	Total/NA
Phenanthrene	0.49	J	ug/L	61	0.78	625	Total/NA
Pyrene	0.48	J	ug/L	140	0.78	625	Total/NA
Total Suspended Solids	520		mg/L	10	100	SM 2540D	Total/NA
Phosphorus as P	0.078	J	mg/L	0.1	0.10	SM 4500 P E	Total/NA

Client Sample ID: G1-01

Lab Sample ID: 500-150867-2

Analyte	Result	Qualifier	Unit	High Reg Limit	LOQ	Method	Prep Type
Anthracene	<0.15		ug/L		0.83	625	Total/NA
Benzo[a]pyrene	<0.063		ug/L		0.83	625	Total/NA
Fluoranthene	<0.17		ug/L		0.83	625	Total/NA
Fluorene	<0.14		ug/L		0.83	625	Total/NA
Naphthalene	1.5		ug/L		0.83	625	Total/NA
Phenanthrene	<0.18		ug/L		0.83	625	Total/NA
Pyrene	<0.19		ug/L		0.83	625	Total/NA
Lead	45		ug/L		2.5	200.7 Rev 4.4	Total Recoverable
Arsenic	8.9		ug/L		5.0	200.7 Rev 4.4	Total Recoverable
Zinc	95		ug/L		10	200.7 Rev 4.4	Total Recoverable
Oil & Grease	2.0	J B	mg/L		5.6	1664B	Total/NA

TestAmerica Chicago

Action Limit Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: G1-01 (Continued)

Lab Sample ID: 500-150867-2

Analyte	Result	Qualifier	Unit	High Reg Limit	LOQ	Method	Prep Type
Total Suspended Solids	90		mg/L		20	SM 2540D	Total/NA
Phosphorus as P	0.36		mg/L		0.10	SM 4500 P E	Total/NA

Client Sample ID: G1-01

Lab Sample ID: 500-150867-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	LOQ	Method	Prep Type
Anthracene	<0.15		ug/L	0.34	0.83	625	Total/NA
Benzo[a]pyrene	<0.063		ug/L	0.39	0.83	625	Total/NA
Fluoranthene	<0.17		ug/L	3.2	0.83	625	Total/NA
Fluorene	<0.14		ug/L	58	0.83	625	Total/NA
Naphthalene	1.5		ug/L	340	0.83	625	Total/NA
Phenanthrene	<0.18		ug/L	61	0.83	625	Total/NA
Pyrene	<0.19		ug/L	140	0.83	625	Total/NA
Total Suspended Solids	90		mg/L	10	20	SM 2540D	Total/NA
Phosphorus as P	0.36		mg/L	0.1	0.10	SM 4500 P E	Total/NA

Client Sample ID: G2-01

Lab Sample ID: 500-150867-3

Analyte	Result	Qualifier	Unit	High Reg Limit	LOQ	Method	Prep Type
Anthracene	<0.15		ug/L		0.80	625	Total/NA
Benzo[a]pyrene	<0.061		ug/L		0.80	625	Total/NA
Fluoranthene	<0.16		ug/L		0.80	625	Total/NA
Fluorene	<0.13		ug/L		0.80	625	Total/NA
Naphthalene	2.9		ug/L		0.80	625	Total/NA
Phenanthrene	<0.17		ug/L		0.80	625	Total/NA
Pyrene	<0.18		ug/L		0.80	625	Total/NA
Lead	19		ug/L		2.5	200.7 Rev 4.4	Total Recoverable
Arsenic	2.9	J	ug/L		5.0	200.7 Rev 4.4	Total Recoverable
Zinc	120		ug/L		10	200.7 Rev 4.4	Total Recoverable
Oil & Grease	2.1	J B	mg/L		5.6	1664B	Total/NA
Total Suspended Solids	26		mg/L		5.0	SM 2540D	Total/NA
Phosphorus as P	0.19		mg/L		0.10	SM 4500 P E	Total/NA

Client Sample ID: G2-01

Lab Sample ID: 500-150867-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	LOQ	Method	Prep Type
Anthracene	<0.15		ug/L	0.34	0.80	625	Total/NA
Benzo[a]pyrene	<0.061		ug/L	0.39	0.80	625	Total/NA
Fluoranthene	<0.16		ug/L	3.2	0.80	625	Total/NA
Fluorene	<0.13		ug/L	58	0.80	625	Total/NA

Action Limit Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: G2-01 (Continued)

Lab Sample ID: 500-150867-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	LOQ	Method	Prep Type
Naphthalene	2.9		ug/L	340	0.80	625	Total/NA
Phenanthrene	<0.17		ug/L	61	0.80	625	Total/NA
Pyrene	<0.18		ug/L	140	0.80	625	Total/NA
Total Suspended Solids	26		mg/L	10	5.0	SM 2540D	Total/NA
Phosphorus as P	0.19		mg/L	0.1	0.10	SM 4500 P E	Total/NA

Default Detection Limits

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Prep: 625

Analyte	LOQ	LOD	Units	Method
Anthracene	0.80	0.15	ug/L	625
Benzo[a]pyrene	0.80	0.061	ug/L	625
Fluoranthene	0.80	0.16	ug/L	625
Fluorene	0.80	0.13	ug/L	625
Naphthalene	0.80	0.12	ug/L	625
Phenanthrene	0.80	0.17	ug/L	625
Pyrene	0.80	0.18	ug/L	625

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

Prep: 3541

Analyte	LOQ	LOD	Units	Method
1-Methylnaphthalene	67	8.1	ug/Kg	8270D
2-Methylnaphthalene	67	6.1	ug/Kg	8270D
Acenaphthene	33	6.0	ug/Kg	8270D
Acenaphthylene	33	4.4	ug/Kg	8270D
Anthracene	33	5.6	ug/Kg	8270D
Benzo[a]anthracene	33	4.5	ug/Kg	8270D
Benzo[a]pyrene	33	6.4	ug/Kg	8270D
Benzo[b]fluoranthene	33	7.2	ug/Kg	8270D
Benzo[g,h,i]perylene	33	11	ug/Kg	8270D
Benzo[k]fluoranthene	33	9.8	ug/Kg	8270D
Chrysene	33	9.1	ug/Kg	8270D
Dibenz(a,h)anthracene	33	6.4	ug/Kg	8270D
Fluoranthene	33	6.2	ug/Kg	8270D
Fluorene	33	4.7	ug/Kg	8270D
Indeno[1,2,3-cd]pyrene	33	8.6	ug/Kg	8270D
Naphthalene	33	5.1	ug/Kg	8270D
Phenanthrene	33	4.6	ug/Kg	8270D
Pyrene	33	6.6	ug/Kg	8270D

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

Prep: 3541

Analyte	LOQ	LOD	Units	Method
PCB-1016	17	5.9	ug/Kg	8082A
PCB-1221	17	7.3	ug/Kg	8082A
PCB-1232	17	7.3	ug/Kg	8082A
PCB-1242	17	5.5	ug/Kg	8082A
PCB-1248	17	6.6	ug/Kg	8082A
PCB-1254	17	3.6	ug/Kg	8082A
PCB-1260	17	8.2	ug/Kg	8082A

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Prep: 200.7

Analyte	LOQ	LOD	Units	Method
Arsenic	10	4.2	ug/L	200.7 Rev 4.4
Lead	5.0	2.6	ug/L	200.7 Rev 4.4
Zinc	20	7.3	ug/L	200.7 Rev 4.4

Method: 6010B - Metals (ICP)

Default Detection Limits

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: 6010B - Metals (ICP)

Prep: 3050B

Analyte	LOQ	LOD	Units	Method
Arsenic	1.0	0.34	mg/Kg	6010B
Barium	1.0	0.11	mg/Kg	6010B
Cadmium	0.20	0.036	mg/Kg	6010B
Chromium	1.0	0.50	mg/Kg	6010B
Lead	0.50	0.23	mg/Kg	6010B
Selenium	1.0	0.59	mg/Kg	6010B
Silver	0.50	0.13	mg/Kg	6010B

Method: 7471B - Mercury (CVAA)

Prep: 7471B

Analyte	LOQ	LOD	Units	Method
Mercury	17	5.6	ug/Kg	7471B

General Chemistry

Analyte	LOQ	LOD	Units	Method
Total Suspended Solids	5.0	1.9	mg/L	SM 2540D

General Chemistry

Prep: 1664B

Analyte	LOQ	LOD	Units	Method
Oil & Grease	5.0	1.3	mg/L	1664B

General Chemistry

Prep: SM 4500 P B

Analyte	LOQ	LOD	Units	Method
Phosphorus as P	0.050	0.024	mg/L	SM 4500 P E

Surrogate Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (28-110)	TPHL (20-133)	FBP (31-110)
500-150867-1	R1	80	67	68
500-150867-2	G1-01	99	64	80
500-150867-3	G2-01	87	62	71
LCS 500-448172/2-A	Lab Control Sample	87	76	74
LCSD 500-448172/3-A	Lab Control Sample Dup	97	78	83
MB 500-448172/1-A	Method Blank	85	87	70

Surrogate Legend

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

FBP = 2-Fluorobiphenyl

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (41-120)	TPHL (35-160)	FBP (44-121)
500-150867-4	Total Solids	74	82	75
LCS 500-448191/2-A	Lab Control Sample	87	80	91
MB 500-448191/1-A	Method Blank	99	98	102

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-150867-4	Total Solids	91	104
LCS 500-448233/2-A	Lab Control Sample	85	104
MB 500-448233/1-A	Method Blank	82	113

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-448172/1-A
Matrix: Water
Analysis Batch: 448229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448172

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Anthracene	<0.15		0.80	0.15	ug/L		09/04/18 07:56	09/04/18 15:33	1
Benzo[a]pyrene	<0.061		0.80	0.061	ug/L		09/04/18 07:56	09/04/18 15:33	1
Fluoranthene	<0.16		0.80	0.16	ug/L		09/04/18 07:56	09/04/18 15:33	1
Fluorene	<0.13		0.80	0.13	ug/L		09/04/18 07:56	09/04/18 15:33	1
Naphthalene	<0.12		0.80	0.12	ug/L		09/04/18 07:56	09/04/18 15:33	1
Phenanthrene	<0.17		0.80	0.17	ug/L		09/04/18 07:56	09/04/18 15:33	1
Pyrene	<0.18		0.80	0.18	ug/L		09/04/18 07:56	09/04/18 15:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	85		28 - 110	09/04/18 07:56	09/04/18 15:33	1
Terphenyl-d14	87		20 - 133	09/04/18 07:56	09/04/18 15:33	1
2-Fluorobiphenyl	70		31 - 110	09/04/18 07:56	09/04/18 15:33	1

Lab Sample ID: LCS 500-448172/2-A
Matrix: Water
Analysis Batch: 448229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448172
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]pyrene	32.0	29.1		ug/L		91	17 - 163
Fluoranthene	32.0	27.3		ug/L		85	26 - 137
Fluorene	32.0	22.9		ug/L		71	59 - 121
Naphthalene	32.0	22.3		ug/L		70	21 - 133
Phenanthrene	32.0	27.7		ug/L		86	54 - 120
Pyrene	32.0	29.3		ug/L		91	52 - 115

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	87		28 - 110
Terphenyl-d14	76		20 - 133
2-Fluorobiphenyl	74		31 - 110

Lab Sample ID: LCSD 500-448172/3-A
Matrix: Water
Analysis Batch: 448229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448172
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[a]pyrene	32.0	31.7		ug/L		99	17 - 163	9	20
Fluoranthene	32.0	28.4		ug/L		89	26 - 137	4	20
Fluorene	32.0	24.9		ug/L		78	59 - 121	8	20
Naphthalene	32.0	23.6		ug/L		74	21 - 133	6	20
Phenanthrene	32.0	28.5		ug/L		89	54 - 120	3	20
Pyrene	32.0	30.1		ug/L		94	52 - 115	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	97		28 - 110
Terphenyl-d14	78		20 - 133

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS500-448172/3-A
Matrix: Water
Analysis Batch: 448229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448172

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
2-Fluorobiphenyl	83		31 - 110

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

Lab Sample ID: MB 500-448191/1-A
Matrix: Solid
Analysis Batch: 448285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448191

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Anthracene	<5.6		33	5.6	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Chrysene	<9.1		33	9.1	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Fluoranthene	<6.2		33	6.2	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Fluorene	<4.7		33	4.7	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Naphthalene	<5.1		33	5.1	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Phenanthrene	<4.6		33	4.6	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
Pyrene	<6.6		33	6.6	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		09/04/18 08:10	09/04/18 17:19	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		09/04/18 08:10	09/04/18 17:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	99		41 - 120	09/04/18 08:10	09/04/18 17:19	1
Terphenyl-d14 (Surr)	98		35 - 160	09/04/18 08:10	09/04/18 17:19	1
2-Fluorobiphenyl (Surr)	102		44 - 121	09/04/18 08:10	09/04/18 17:19	1

Lab Sample ID: LCS 500-448191/2-A
Matrix: Solid
Analysis Batch: 448285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1330	1120		ug/Kg		84	62 - 119
Acenaphthylene	1330	1080		ug/Kg		81	60 - 110
Anthracene	1330	1120		ug/Kg		84	63 - 110
Benzo[a]anthracene	1330	1140		ug/Kg		86	67 - 122
Benzo[a]pyrene	1330	1180		ug/Kg		88	61 - 120
Benzo[b]fluoranthene	1330	1150		ug/Kg		86	64 - 127
Benzo[g,h,i]perylene	1330	1180		ug/Kg		88	65 - 132
Benzo[k]fluoranthene	1330	1180		ug/Kg		88	65 - 120
Chrysene	1330	1090		ug/Kg		82	63 - 120

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

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

Lab Sample ID: LCS 500-448191/2-A
Matrix: Solid
Analysis Batch: 448285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448191
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Dibenz(a,h)anthracene	1330	1230		ug/Kg		93	64 - 119
Fluoranthene	1330	1140		ug/Kg		86	62 - 120
Fluorene	1330	1090		ug/Kg		82	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1230		ug/Kg		92	57 - 127
Naphthalene	1330	1090		ug/Kg		82	63 - 110
Phenanthrene	1330	1110		ug/Kg		83	62 - 120
Pyrene	1330	1100		ug/Kg		83	61 - 128
1-Methylnaphthalene	1330	1080		ug/Kg		81	61 - 110
2-Methylnaphthalene	1330	1080		ug/Kg		81	62 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	87		41 - 120
Terphenyl-d14 (Surr)	80		35 - 160
2-Fluorobiphenyl (Surr)	91		44 - 121

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

Lab Sample ID: MB 500-448233/1-A
Matrix: Solid
Analysis Batch: 448400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448233

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		09/04/18 11:14	09/05/18 10:15	1
PCB-1221	<7.3		17	7.3	ug/Kg		09/04/18 11:14	09/05/18 10:15	1
PCB-1232	<7.3		17	7.3	ug/Kg		09/04/18 11:14	09/05/18 10:15	1
PCB-1242	<5.5		17	5.5	ug/Kg		09/04/18 11:14	09/05/18 10:15	1
PCB-1248	<6.6		17	6.6	ug/Kg		09/04/18 11:14	09/05/18 10:15	1
PCB-1254	<3.6		17	3.6	ug/Kg		09/04/18 11:14	09/05/18 10:15	1
PCB-1260	<8.2		17	8.2	ug/Kg		09/04/18 11:14	09/05/18 10:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		49 - 129	09/04/18 11:14	09/05/18 10:15	1
DCB Decachlorobiphenyl	113		37 - 121	09/04/18 11:14	09/05/18 10:15	1

Lab Sample ID: LCS 500-448233/2-A
Matrix: Solid
Analysis Batch: 448400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448233
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	167	171		ug/Kg		103	57 - 120
PCB-1260	167	173		ug/Kg		104	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		49 - 129
DCB Decachlorobiphenyl	104		37 - 121

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-448179/1-A
Matrix: Water
Analysis Batch: 448353

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448179

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<1.3		2.5	1.3	ug/L		09/04/18 08:08	09/04/18 21:45	1
Arsenic	<2.1		5.0	2.1	ug/L		09/04/18 08:08	09/04/18 21:45	1
Zinc	<3.6		10	3.6	ug/L		09/04/18 08:08	09/04/18 21:45	1

Lab Sample ID: LCS 500-448179/2-A
Matrix: Water
Analysis Batch: 448353

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	50.0	46.3		ug/L		93	85 - 115
Arsenic	50.0	49.6		ug/L		99	85 - 115
Zinc	250	242		ug/L		97	85 - 115

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-448202/1-A
Matrix: Solid
Analysis Batch: 448353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448202

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.34		1.0	0.34	mg/Kg		09/04/18 08:42	09/04/18 19:30	1
Barium	0.279	J	1.0	0.11	mg/Kg		09/04/18 08:42	09/04/18 19:30	1
Cadmium	0.102	J	0.20	0.036	mg/Kg		09/04/18 08:42	09/04/18 19:30	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/04/18 08:42	09/04/18 19:30	1
Lead	<0.23		0.50	0.23	mg/Kg		09/04/18 08:42	09/04/18 19:30	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/04/18 08:42	09/04/18 19:30	1

Lab Sample ID: MB 500-448202/1-A
Matrix: Solid
Analysis Batch: 448467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448202

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	<0.13		0.50	0.13	mg/Kg		09/04/18 08:42	09/05/18 13:24	1

Lab Sample ID: LCS 500-448202/2-A ^2
Matrix: Solid
Analysis Batch: 448353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.90		mg/Kg		89	80 - 120
Barium	200	179		mg/Kg		90	80 - 120
Cadmium	5.00	4.68		mg/Kg		94	80 - 120
Chromium	20.0	20.5		mg/Kg		102	80 - 120
Lead	10.0	8.28		mg/Kg		83	80 - 120
Selenium	10.0	8.02		mg/Kg		80	80 - 120

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

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

Lab Sample ID: LCS 500-448202/2-A ^2
 Matrix: Solid
 Analysis Batch: 448467

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 448202
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	5.00	4.21		mg/Kg		84	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-448270/12-A
 Matrix: Solid
 Analysis Batch: 448468

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 448270

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.6		17	5.6	ug/Kg		09/04/18 16:55	09/05/18 11:56	1

Lab Sample ID: LCS 500-448270/13-A
 Matrix: Solid
 Analysis Batch: 448468

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 448270
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	167	168		ug/Kg		101	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-448157/1-A
 Matrix: Water
 Analysis Batch: 448167

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 448157

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	1.40	J	5.0	1.3	mg/L		09/04/18 07:00	09/04/18 12:15	1

Lab Sample ID: LCS 500-448157/2-A
 Matrix: Water
 Analysis Batch: 448167

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 448157
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	31.90		mg/L		80	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-448311/1
 Matrix: Water
 Analysis Batch: 448311

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			09/04/18 16:15	1

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 500-448311/2
Matrix: Water
Analysis Batch: 448311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	200	190		mg/L		95	80 - 120

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 500-448214/1-A
Matrix: Water
Analysis Batch: 448470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448214

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		09/04/18 10:21	09/05/18 15:12	1

Lab Sample ID: LCS 500-448214/2-A
Matrix: Water
Analysis Batch: 448470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus as P	0.500	0.437		mg/L		87	80 - 120

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

GC/MS Semi VOA

Prep Batch: 448172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	625	
500-150867-2	G1-01	Total/NA	Water	625	
500-150867-3	G2-01	Total/NA	Water	625	
MB 500-448172/1-A	Method Blank	Total/NA	Water	625	
LCS 500-448172/2-A	Lab Control Sample	Total/NA	Water	625	
LCS D 500-448172/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Prep Batch: 448191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	3541	
MB 500-448191/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-448191/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 448229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	625	448172
500-150867-2	G1-01	Total/NA	Water	625	448172
500-150867-3	G2-01	Total/NA	Water	625	448172
MB 500-448172/1-A	Method Blank	Total/NA	Water	625	448172
LCS 500-448172/2-A	Lab Control Sample	Total/NA	Water	625	448172
LCS D 500-448172/3-A	Lab Control Sample Dup	Total/NA	Water	625	448172

Analysis Batch: 448285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-448191/1-A	Method Blank	Total/NA	Solid	8270D	448191
LCS 500-448191/2-A	Lab Control Sample	Total/NA	Solid	8270D	448191

Analysis Batch: 448389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	8270D	448191

GC Semi VOA

Prep Batch: 448233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	3541	
MB 500-448233/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-448233/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 448400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	8082A	448233
MB 500-448233/1-A	Method Blank	Total/NA	Solid	8082A	448233
LCS 500-448233/2-A	Lab Control Sample	Total/NA	Solid	8082A	448233

Metals

Prep Batch: 448179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total Recoverable	Water	200.7	

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Metals (Continued)

Prep Batch: 448179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-2	G1-01	Total Recoverable	Water	200.7	
500-150867-3	G2-01	Total Recoverable	Water	200.7	
MB 500-448179/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-448179/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 448202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	3050B	
MB 500-448202/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-448202/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 448270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	7471B	
MB 500-448270/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-448270/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 448353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total Recoverable	Water	200.7 Rev 4.4	448179
500-150867-2	G1-01	Total Recoverable	Water	200.7 Rev 4.4	448179
500-150867-3	G2-01	Total Recoverable	Water	200.7 Rev 4.4	448179
500-150867-4	Total Solids	Total/NA	Solid	6010B	448202
MB 500-448179/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	448179
MB 500-448202/1-A	Method Blank	Total/NA	Solid	6010B	448202
LCS 500-448179/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	448179
LCS 500-448202/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	448202

Analysis Batch: 448467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	6010B	448202
MB 500-448202/1-A	Method Blank	Total/NA	Solid	6010B	448202
LCS 500-448202/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	448202

Analysis Batch: 448468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	7471B	448270
MB 500-448270/12-A	Method Blank	Total/NA	Solid	7471B	448270
LCS 500-448270/13-A	Lab Control Sample	Total/NA	Solid	7471B	448270

General Chemistry

Prep Batch: 448157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	1664B	
500-150867-2	G1-01	Total/NA	Water	1664B	
500-150867-3	G2-01	Total/NA	Water	1664B	
MB 500-448157/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-448157/2-A	Lab Control Sample	Total/NA	Water	1664B	

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

General Chemistry (Continued)

Analysis Batch: 448167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	1664B	448157
500-150867-2	G1-01	Total/NA	Water	1664B	448157
500-150867-3	G2-01	Total/NA	Water	1664B	448157
MB 500-448157/1-A	Method Blank	Total/NA	Water	1664B	448157
LCS 500-448157/2-A	Lab Control Sample	Total/NA	Water	1664B	448157

Prep Batch: 448214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	SM 4500 P B	
500-150867-2	G1-01	Total/NA	Water	SM 4500 P B	
500-150867-3	G2-01	Total/NA	Water	SM 4500 P B	
MB 500-448214/1-A	Method Blank	Total/NA	Water	SM 4500 P B	
LCS 500-448214/2-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	

Analysis Batch: 448248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-4	Total Solids	Total/NA	Solid	Moisture	

Analysis Batch: 448311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	SM 2540D	
500-150867-2	G1-01	Total/NA	Water	SM 2540D	
500-150867-3	G2-01	Total/NA	Water	SM 2540D	
MB 500-448311/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-448311/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 448470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-1	R1	Total/NA	Water	SM 4500 P E	448214
500-150867-2	G1-01	Total/NA	Water	SM 4500 P E	448214
500-150867-3	G2-01	Total/NA	Water	SM 4500 P E	448214
MB 500-448214/1-A	Method Blank	Total/NA	Water	SM 4500 P E	448214
LCS 500-448214/2-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	448214

Lab Chronicle

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: R1

Date Collected: 08/31/18 15:15

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			448172	09/04/18 07:56	JS	TAL CHI
Total/NA	Analysis	625		1	448229	09/05/18 08:02	AJD	TAL CHI
Total Recoverable	Prep	200.7			448179	09/04/18 08:08	SAH	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	448353	09/04/18 22:34	JEF	TAL CHI
Total/NA	Prep	1664B			448157	09/04/18 07:31	SA	TAL CHI
Total/NA	Analysis	1664B		1	448167	09/04/18 12:15	SA	TAL CHI
Total/NA	Analysis	SM 2540D		1	448311		SMO	TAL CHI
					(Start)	09/04/18 16:37		
					(End)	09/04/18 16:38		
Total/NA	Prep	SM 4500 P B			448214	09/04/18 10:21	BRS	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	448470		BRS	TAL CHI
					(Start)	09/05/18 15:14		
					(End)	09/05/18 15:15		

Client Sample ID: G1-01

Date Collected: 08/31/18 15:25

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			448172	09/04/18 07:56	JS	TAL CHI
Total/NA	Analysis	625		1	448229	09/05/18 08:29	AJD	TAL CHI
Total Recoverable	Prep	200.7			448179	09/04/18 08:08	SAH	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	448353	09/04/18 22:38	JEF	TAL CHI
Total/NA	Prep	1664B			448157	09/04/18 07:47	SA	TAL CHI
Total/NA	Analysis	1664B		1	448167	09/04/18 12:15	SA	TAL CHI
Total/NA	Analysis	SM 2540D		1	448311		SMO	TAL CHI
					(Start)	09/04/18 16:38		
					(End)	09/04/18 16:40		
Total/NA	Prep	SM 4500 P B			448214	09/04/18 10:21	BRS	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	448470		BRS	TAL CHI
					(Start)	09/05/18 15:15		
					(End)	09/05/18 15:15		

Client Sample ID: G2-01

Date Collected: 08/31/18 15:35

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			448172	09/04/18 07:56	JS	TAL CHI
Total/NA	Analysis	625		1	448229	09/05/18 08:57	AJD	TAL CHI
Total Recoverable	Prep	200.7			448179	09/04/18 08:08	SAH	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	448353	09/04/18 22:42	JEF	TAL CHI
Total/NA	Prep	1664B			448157	09/04/18 08:03	SA	TAL CHI
Total/NA	Analysis	1664B		1	448167	09/04/18 12:15	SA	TAL CHI

Lab Chronicle

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: G2-01

Date Collected: 08/31/18 15:35

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	448311	09/04/18 16:40 (Start) (End) 09/04/18 16:41	SMO	TAL CHI
Total/NA	Prep	SM 4500 P B			448214	09/04/18 10:21	BRS	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	448470	09/05/18 15:15 (Start) (End) 09/05/18 15:16	BRS	TAL CHI

Client Sample ID: Total Solids

Date Collected: 08/31/18 15:50

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	448248	09/04/18 12:10	LWN	TAL CHI

Client Sample ID: Total Solids

Date Collected: 08/31/18 15:50

Date Received: 09/01/18 10:28

Lab Sample ID: 500-150867-4

Matrix: Solid

Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			448191	09/04/18 08:10	DX	TAL CHI
Total/NA	Analysis	8270D		1	448389	09/05/18 10:43	AJD	TAL CHI
Total/NA	Prep	3541			448233	09/04/18 11:14	DX	TAL CHI
Total/NA	Analysis	8082A		5	448400	09/05/18 10:45	BJH	TAL CHI
Total/NA	Prep	3050B			448202	09/04/18 08:42	SAH	TAL CHI
Total/NA	Analysis	6010B		1	448353	09/04/18 20:10	JEF	TAL CHI
Total/NA	Prep	3050B			448202	09/04/18 08:42	SAH	TAL CHI
Total/NA	Analysis	6010B		1	448467	09/05/18 14:00	JEF	TAL CHI
Total/NA	Prep	7471B			448270	09/04/18 16:55	MJG	TAL CHI
Total/NA	Analysis	7471B		25	448468	09/05/18 14:34	MJG	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
200.7 Rev 4.4	Metals (ICP)	EPA	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
1664B	HEM and SGT-HEM	1664B	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
SM 4500 P E	Phosphorus	SM	TAL CHI
1664B	HEM and SGT-HEM (SPE)	1664B	TAL CHI
200.7	Preparation, Total Recoverable Metals	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
625	Liquid-Liquid Extraction	40CFR136A	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
SM 4500 P B	Phosphorous, Total and Ortho	SM	TAL CHI

Protocol References:

1664B = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-150867-1	R1	Water	08/31/18 15:15	09/01/18 10:28
500-150867-2	G1-01	Water	08/31/18 15:25	09/01/18 10:28
500-150867-3	G2-01	Water	08/31/18 15:35	09/01/18 10:28
500-150867-4	Total Solids	Solid	08/31/18 15:50	09/01/18 10:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS01 Analysis Batch Number: 441637Lab Sample ID: IC 500-441637/2 Client Sample ID: _____Date Analyzed: 07/19/18 17:06 Lab File ID: ic2A.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenol-d5	5.78	Peak assignment corrected	rynkarg	07/20/18 14:56

Lab Sample ID: IC 500-441637/3 Client Sample ID: _____Date Analyzed: 07/19/18 17:34 Lab File ID: ic02.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	17.96	Peak assignment corrected	swaneyg	07/19/18 21:20

Lab Sample ID: IC 500-441637/5 Client Sample ID: _____Date Analyzed: 07/19/18 18:30 Lab File ID: ic1.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenol-d5	5.78	Peak assignment corrected	rynkarg	07/20/18 14:56

Lab Sample ID: IC 500-441637/6 Client Sample ID: _____Date Analyzed: 07/19/18 18:57 Lab File ID: ic5.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenol-d5	5.77	Peak assignment corrected	rynkarg	07/20/18 14:57
Nitrobenzene	6.16	Peak assignment corrected	rynkarg	07/20/18 14:59
Benzoic acid	6.76	Peak assignment corrected	rynkarg	07/20/18 15:24
4-Nitrophenol	8.78	Peak assignment corrected	rynkarg	07/20/18 15:23
Benzo[g,h,i]perylene	18.60	Peak assignment corrected	rynkarg	07/20/18 15:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS01 Analysis Batch Number: 441637

Lab Sample ID: IC 500-441637/7 Client Sample ID: _____

Date Analyzed: 07/19/18 19:25 Lab File ID: ic10.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodi-n-propylamine	6.02	Peak assignment corrected	rynkarg	07/20/18 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS01 Analysis Batch Number: 448229

Lab Sample ID: MB 500-448172/1-A Client Sample ID: _____

Date Analyzed: 09/04/18 15:33 Lab File ID: MB 500-448172.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene-d12	13.82	Poor chromatography	swaneyg	09/04/18 19:53

Lab Sample ID: 500-150867-1 Client Sample ID: R1

Date Analyzed: 09/05/18 08:02 Lab File ID: 500-150867-A-1.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	13.69	Split Peak	rynkarg	09/05/18 09:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS11 Analysis Batch Number: 446389Lab Sample ID: IC 500-446389/2 Client Sample ID: _____Date Analyzed: 08/21/18 15:07 Lab File ID: ic ppm2.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylphenol	6.26	Peak assignment corrected	rynkarg	08/22/18 16:24
2,2'-oxybis[1-chloropropane]	6.27	Peak assignment corrected	rynkarg	08/22/18 16:24

Lab Sample ID: IC 500-446389/3 Client Sample ID: _____Date Analyzed: 08/21/18 15:36 Lab File ID: ic ppm02.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	15.09	Peak assignment corrected	rynkarg	08/22/18 16:21
Indeno[1,2,3-cd]pyrene	19.19	Peak assignment corrected	rynkarg	08/22/18 16:21

Lab Sample ID: IC 500-446389/4 Client Sample ID: _____Date Analyzed: 08/21/18 16:06 Lab File ID: ic ppm05.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	15.03	Peak assignment corrected	rynkarg	08/22/18 16:35

Lab Sample ID: IC 500-446389/5 Client Sample ID: _____Date Analyzed: 08/21/18 16:35 Lab File ID: ic ppm1.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	15.02	Split Peak	rynkarg	08/22/18 16:36
Benzo[k]fluoranthene	15.08	Split Peak	rynkarg	08/22/18 16:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS11 Analysis Batch Number: 446389Lab Sample ID: IC 500-446389/6 Client Sample ID: _____Date Analyzed: 08/21/18 17:04 Lab File ID: ic ppm5.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,2'-oxybis[1-chloropropane]	6.27	Peak assignment corrected	rynkarg	08/22/18 16:24
2,4-Dinitrophenol		Invalid Compound ID	rynkarg	08/22/18 16:27
4-Chloro-3-methylphenol		Invalid Compound ID	rynkarg	08/22/18 16:26
Benzyl alcohol		Invalid Compound ID	rynkarg	08/22/18 16:24

Lab Sample ID: IC 500-446389/7 Client Sample ID: _____Date Analyzed: 08/21/18 17:34 Lab File ID: ic ppm10.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrophenol	8.63	Peak assignment corrected	rynkarg	08/22/18 16:29

Lab Sample ID: IC 500-446389/8 Client Sample ID: _____Date Analyzed: 08/21/18 18:03 Lab File ID: ic ppm20.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,2'-oxybis[1-chloropropane]	6.27	Peak assignment corrected	rynkarg	08/22/18 16:23
Benzoic acid	6.93	Peak assignment corrected	rynkarg	08/22/18 16:23

Lab Sample ID: IC 500-446389/11 Client Sample ID: _____Date Analyzed: 08/21/18 19:31 Lab File ID: ic ppm60.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,2'-oxybis[1-chloropropane]	6.28	Peak assignment corrected	rynkarg	08/22/18 16:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS11 Analysis Batch Number: 448389Lab Sample ID: CCVIS 500-448389/2 Client Sample ID: _____Date Analyzed: 09/05/18 09:18 Lab File ID: 11c0905.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	6.95	Peak assignment corrected	diaza	09/05/18 09:46
Indeno[1,2,3-cd]pyrene	18.69	Peak assignment corrected	diaza	09/05/18 09:47

Lab Sample ID: 500-150867-4 Client Sample ID: _____Date Analyzed: 09/05/18 10:43 Lab File ID: 500-150867-A-4-A.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene-d4	5.91	Peak assignment corrected	diaza	09/05/18 11:27
Benzo[b]fluoranthene	14.53	Split Peak	rynkarg	09/05/18 13:29
Benzo[k]fluoranthene	14.58	Split Peak	rynkarg	09/05/18 13:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS24 Analysis Batch Number: 446627Lab Sample ID: IC 500-446627/3 Client Sample ID: _____Date Analyzed: 08/22/18 19:26 Lab File ID: 24c0822d.d GC Column: Rxi-5ms ID: 0.5 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	15.60	Peak assignment corrected	rynkarg	08/23/18 08:08

Lab Sample ID: IC 500-446627/6 Client Sample ID: _____Date Analyzed: 08/22/18 21:09 Lab File ID: IC ppm5.d GC Column: Rxi-5ms ID: 0.5 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzyl alcohol	6.32	Peak assignment corrected	rynkarg	08/23/18 08:17

Lab Sample ID: IC 500-446627/7 Client Sample ID: _____Date Analyzed: 08/22/18 21:35 Lab File ID: IC ppm10.d GC Column: Rxi-5ms ID: 0.5 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzyl alcohol	6.32	Peak assignment corrected	rynkarg	08/23/18 08:21
Benzoic acid	7.05	Peak assignment corrected	rynkarg	08/23/18 08:20
2,4-Dinitrophenol	8.79	Peak assignment corrected	rynkarg	08/23/18 08:20
4-Nitroaniline	9.22	Peak assignment corrected	rynkarg	08/23/18 08:21

Lab Sample ID: IC 500-446627/8 Client Sample ID: _____Date Analyzed: 08/22/18 22:00 Lab File ID: IC ppm20.d GC Column: Rxi-5ms ID: 0.5 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	8.84	Peak assignment corrected	rynkarg	08/23/18 08:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS24 Analysis Batch Number: 448285

Lab Sample ID: LCS 500-448191/2-A Client Sample ID: _____

Date Analyzed: 09/04/18 16:27 Lab File ID: LCS 500-448191.d GC Column: Rxi-5ms ID: 0.5 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	7.77	Peak assignment corrected	swaneyg	09/04/18 19:21

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: INST47-48 Analysis Batch Number: 445590

Lab Sample ID: IC 500-445590/5 Client Sample ID: _____

Date Analyzed: 08/16/18 10:04 Lab File ID: 080818_168.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	4.03	Peak not integrated	hamnerb	08/16/18 11:35
PCB-1016 Peak 2	4.11	Peak not integrated	hamnerb	08/16/18 11:35
PCB-1016 Peak 3	4.18	Peak not integrated	hamnerb	08/16/18 11:34
PCB-1016 Peak 4	4.48	Peak not integrated	hamnerb	08/16/18 11:34
PCB-1016 Peak 5	4.57	Peak not integrated	hamnerb	08/16/18 11:34

Lab Sample ID: IC 500-445590/6 Client Sample ID: _____

Date Analyzed: 08/16/18 10:20 Lab File ID: 080818_169.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	4.03	Peak not integrated	hamnerb	08/16/18 11:36
PCB-1016 Peak 2	4.11	Peak not integrated	hamnerb	08/16/18 11:37
PCB-1016 Peak 3	4.17	Peak not integrated	hamnerb	08/16/18 11:37
PCB-1016 Peak 4	4.47	Peak not integrated	hamnerb	08/16/18 11:37
PCB-1016 Peak 5	4.57	Peak not integrated	hamnerb	08/16/18 11:37

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: INST47-48 Analysis Batch Number: 448400

Lab Sample ID: CCVIS 500-448400/1 Client Sample ID: _____

Date Analyzed: 09/05/18 09:59 Lab File ID: 083118_081.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	4.02	Peak not integrated	hamnerb	09/05/18 10:31
PCB-1016 Peak 2	4.10	Peak not integrated	hamnerb	09/05/18 10:31
PCB-1016 Peak 3	4.16	Peak not integrated	hamnerb	09/05/18 10:31
PCB-1016 Peak 4	4.46	Peak not integrated	hamnerb	09/05/18 10:31
PCB-1016 Peak 5	4.55	Peak not integrated	hamnerb	09/05/18 10:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: INST47-48 Analysis Batch Number: 448400

Lab Sample ID: MB 500-448233/1-A Client Sample ID: _____

Date Analyzed: 09/05/18 10:15 Lab File ID: 083118_082.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1254		Unspecified		
PCB-1260		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1016 Peak 2		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1016 Peak 3		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1016 Peak 4		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1016 Peak 5		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1232 Peak 1		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1232 Peak 2		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1232 Peak 3		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1232 Peak 4		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1232 Peak 5		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1242 Peak 1		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1242 Peak 2		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1242 Peak 3		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1242 Peak 4		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1242 Peak 5		Invalid Compound ID	hamnerb	09/05/18 10:57
PCB-1254 Peak 1		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1254 Peak 2		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1254 Peak 3		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1254 Peak 4		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1254 Peak 5		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1260 Peak 1		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1260 Peak 2		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1260 Peak 3		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1260 Peak 4		Invalid Compound ID	hamnerb	09/05/18 10:58
PCB-1260 Peak 5		Invalid Compound ID	hamnerb	09/05/18 10:58

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1664 HEM_00197	01/11/19		Macron / JTBaker, Lot 100121 / K19H00		(Purchased Reagent)		Oil & Grease	8000 mg/L
AR1248-4_00041	09/21/18	03/21/18	HEXANE, Lot 182619	100 mL	PCBAR1248_00012	0.05 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
.PCBAR1248_00012	12/31/22		RESTEK, Lot A0121842		(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
AR1660-1_00035	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	0.8 mL	1260 Res 3	0.04 ug/mL
							PCB-1016 Peak 1	0.04 ug/mL
							PCB-1016 Peak 2	0.04 ug/mL
							PCB-1016 Peak 3	0.04 ug/mL
							PCB-1016 Peak 4	0.04 ug/mL
							PCB-1016 Peak 5	0.04 ug/mL
							PCB-1260 Peak 1	0.04 ug/mL
							PCB-1260 Peak 2	0.04 ug/mL
							PCB-1260 Peak 3	0.04 ug/mL
							PCB-1260 Peak 4	0.04 ug/mL
							PCB-1260 Peak 5	0.04 ug/mL
					TCX/DCBPAR_00031	0.2 mL	DCB Decachlorobiphenyl	0.004 ug/mL
							Tetrachloro-m-xylene	0.004 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 3	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		1260 Res 3	1000 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
							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
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		Tetrachloro-m-xylene	2 ug/mL
							DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-2_00035	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	2 mL	1260 Res 3	0.1 ug/mL
							PCB-1016 Peak 1	0.1 ug/mL
							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
					TCX/DCBPAR_00031	0.4 mL	DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 3	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		1260 Res 3	1000 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
							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
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-3_00034	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	5 mL	1260 Res 3	0.25 ug/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

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					TCX/DCBPAR_00031	1 mL	DCB Decachlorobiphenyl	0.02 ug/mL
							Tetrachloro-m-xylene	0.02 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 3	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177			(Purchased Reagent)	1260 Res 3	1000 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
							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
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833			(Purchased Reagent)	DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-4 (608)_00018	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	10 mL	1260 Res 3	0.5 ug/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
					TCX/DCBPAR_00031	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
							Tetrachloro-m-xylene	0.04 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 3	5 ug/mL		
							PCB-1016 Peak 1	5 ug/mL		
							PCB-1016 Peak 2	5 ug/mL		
							PCB-1016 Peak 3	5 ug/mL		
							PCB-1016 Peak 4	5 ug/mL		
							PCB-1016 Peak 5	5 ug/mL		
							PCB-1260 Peak 1	5 ug/mL		
							PCB-1260 Peak 2	5 ug/mL		
							PCB-1260 Peak 3	5 ug/mL		
							PCB-1260 Peak 4	5 ug/mL		
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		1260 Res 3	1000 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		
							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		
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL		
							Tetrachloro-m-xylene	2 ug/mL		
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL		
							Tetrachloro-m-xylene	200 ug/mL		
AR1660-5_00034	12/06/18	06/06/18	HEXANE, Lot 181539	50 mL	AR1660PAR_00039	7.5 mL	1260 Res 3	0.75 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		
					PCB-1260 Peak 5	0.75 ug/mL				
					TCX/DCBPAR_00031	1.5 mL	DCB Decachlorobiphenyl	0.06 ug/mL		
							Tetrachloro-m-xylene	0.06 ug/mL		
					.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025
PCB-1016 Peak 1	5 ug/mL									
PCB-1016 Peak 2	5 ug/mL									
PCB-1016 Peak 3	5 ug/mL									
PCB-1016 Peak 4	5 ug/mL									
PCB-1016 Peak 5	5 ug/mL									
PCB-1260 Peak 1	5 ug/mL									
PCB-1260 Peak 2	5 ug/mL									

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		1260 Res 3	1000 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
							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
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-6_00038	12/06/18	06/06/18	HEXANE, Lot 181539	50 mL	AR1660PAR_00039	10 mL	1260 Res 3	1 ug/mL
							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
							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
					TCX/DCBPAR_00031	2 mL	DCB Decachlorobiphenyl	0.08 ug/mL
							Tetrachloro-m-xylene	0.08 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 3	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		1260 Res 3	1000 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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660CCV4_00207	12/06/18	08/16/18	HEXANE, Lot 196294	100 mL	AR1660PAR_00039	10 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
					TCX/DCBPAR_00031	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
							Tetrachloro-m-xylene	0.04 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	PCB-1016	5 ug/mL
							PCB-1260	5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR2154-4_00006	12/15/18	06/15/18	HEXANE, Lot 181539	100 mL	AR2154PAR_00003	10 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
							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
.AR2154PAR_00003	12/15/18	06/15/18	HEXANE, Lot 181539	100 mL	PCBAR12211254_00004	0.5 mL	PCB-1221 Peak 1	5 ug/mL
							PCB-1221 Peak 2	5 ug/mL
							PCB-1221 Peak 3	5 ug/mL
							PCB-1254 Peak 1	5 ug/mL
							PCB-1254 Peak 2	5 ug/mL
							PCB-1254 Peak 3	5 ug/mL
							PCB-1254 Peak 4	5 ug/mL
							PCB-1254 Peak 5	5 ug/mL
..PCBAR12211254_00004	01/31/24		RESTEK, Lot A0131802		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							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
AR3262-4_00003	09/21/18	03/21/18	HEXANE, Lot 182619	100 mL	PCBAR12321262_00002	0.05 mL	PCB-1232 Peak 1	0.5 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
.PCBAR12321262_00002	05/31/23		RESTEK, Lot A0125033			(Purchased Reagent)	PCB-1232 Peak 4	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL
							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
AR4268-4_00005	09/21/18	03/21/18	HEXANE, Lot 182619	100 mL	PCBAR12421268_00002	0.05 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
							PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
.PCBAR12421268_00002	05/30/23		RESTEK, Lot A0125041			(Purchased Reagent)	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
.PCBAR12421268_00002	05/30/23		RESTEK, Lot A0125041			(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
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
EXBNAL1SPW_00223	09/30/18	07/31/18	MEOH, Lot 4766706	50 mL	SMcaLs1St1_ST_00037	2000 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
1,4-Dichlorobenzene	40 ug/mL							
1,4-Dioxane	40 ug/mL							
							1-Methylnaphthalene	40 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl) ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration						
					Reagent ID	Volume Added								
							Fluoranthene	40 ug/mL						
							Fluorene	40 ug/mL						
							Hexachlorobenzene	40 ug/mL						
							Hexachlorobutadiene	40 ug/mL						
							Hexachlorocyclopentadiene	40 ug/mL						
							Hexachloroethane	40 ug/mL						
							Hexadecane	40 ug/mL						
							Indeno[1,2,3-cd]pyrene	40 ug/mL						
							Isophorone	40 ug/mL						
							n-Decane	40 ug/mL						
							N-Nitrosodi-n-propylamine	40 ug/mL						
							N-Nitrosodimethylamine	40 ug/mL						
							N-Nitrosodiphenylamine	40 ug/mL						
							n-Octadecane	40 ug/mL						
							Naphthalene	40 ug/mL						
							Nitrobenzene	40 ug/mL						
							Pentachlorophenol	80 ug/mL						
							Phenanthrene	40 ug/mL						
							Phenol	40 ug/mL						
							Pyrene	40 ug/mL						
							Pyridine	80 ug/mL						
							SMcaLs1St10_00023					1000 uL	Benzoic acid	80 ug/mL
													Indene	80 ug/mL
SMcaLs1St10_00025					1000 uL	Benzoic acid	80 ug/mL							
						Indene	80 ug/mL							
SMcaLs1St11_00026					1000 uL	Atrazine	40 ug/mL							
						Caprolactam	40 ug/mL							
SMcaLs1St9_ST_00023					1000 uL	3,3'-Dichlorobenzidine	40 ug/mL							
						Benzydine	40 ug/mL							
.SMcaLs1St1_ST_00037	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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	1000 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						

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.SMcaLs1St10_00023	05/31/19		Restek, Lot A0132744			(Purchased Reagent)	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SMcaLs1St10_00025	05/31/19		Restek, Lot A0132744			(Purchased Reagent)	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SMcaLs1St11_00026	11/30/18		Restek, Lot A0127580			(Purchased Reagent)	Atrazine	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMcaLs1St9_ST_00023	11/30/18		Restek, Lot A0127472			(Purchased Reagent)	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
EXBNAL1SPW_00224	09/30/18	07/31/18	MEOH, Lot 4766706	50 mL	SMcaLs1St1_ST_00037	2000 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SMcaLs1St10_00023	1000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St10_00025	1000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St11_00026	1000 uL	Atrazine	40 ug/mL
							Caprolactam	40 ug/mL
					SMcaLs1St9_ST_00023	1000 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
.SMcaLs1St1_ST_00037	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	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
							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
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.SMcaLs1St10_00023	05/31/19		Restek, Lot A0132744			(Purchased Reagent)	Benzoic acid	2000 ug/mL
.SMcaLs1St10_00025	05/31/19		Restek, Lot A0132744			(Purchased Reagent)	Indene	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SMcaLs1St11_00026	11/30/18		Restek, Lot A0127580			(Purchased Reagent)	Atrazine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMcaLs1St9_ST_00023	11/30/18		Restek, Lot A0127472			(Purchased Reagent)	Caprolactam 3,3'-Dichlorobenzidine Benzidine	2000 ug/mL 2000 ug/mL 2000 ug/mL
EXBNASURTS_00053	12/31/20		Restek, Lot A0133465			(Purchased Reagent)	2,4,6-Tribromophenol 2-Fluorobiphenyl 2-Fluorophenol Nitrobenzene-d5 Phenol-d5 Terphenyl-d14	100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL
EXCPPSUW_00979	02/28/19	08/29/18	ACETONE, Lot 4876075	100 mL	EXCPPSUP_00175	10 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	0.4 ug/mL 0.4 ug/mL
.EXCPPSUP_00175	02/28/19	08/28/18	ACETONE, Lot 4876075	100 mL	EGCPPSUST_00048	2 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	4 ug/mL 4 ug/mL
..EGCPPSUST_00048	06/30/24		Restek, Lot A0136320			(Purchased Reagent)	DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL
EXPCBSPW66_00162	11/25/18	07/24/18	MEOH, Lot 4766706	100 mL	EXPCBSPP66_00038	10 mL	1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL
.EXPCBSPP66_00038	11/25/18	05/25/18	MEOH, Lot 4766704	50 mL	PCB1660STK_00024	2.5 mL	1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL
..PCB1660STK_00024	07/31/23		RESTEK, Lot A0126770			(Purchased Reagent)	1260 Res 1 1260 Res 2	1000 ug/mL 1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1260 Res 3	1000 ug/mL
							PCB-1016	1000 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
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	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
							PCB-1260 Peak 5	1000 ug/mL
HIVOL_DFTPPWK_00111							4,4'-DDD	
							4,4'-DDE	
							Tentatively Identified Compound	
					SMDFTPPWK_00112	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL
							Pentachlorophenol	10 ug/mL
.SMDFTPPWK_00112	08/06/18	02/06/18	Methylene Chloride, Lot 187965	1000 uL	SMTUNEWKS_00016	50 uL	4,4'-DDT	50 ug/mL
							Benzidine	50 ug/mL
							DFTPP	50 ug/mL
							Pentachlorophenol	50 ug/mL
..SMTUNEWKS_00016	02/06/19	02/06/18	n/a, Lot n/a	1000 uL	SMTUNESTK_00013	1000 uL	4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
...SMTUNESTK_00013	10/31/20		RESTEK, Lot A0131612		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
HIVOL_DFTPPWK_00119							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Creosote	
							Diallate	
							Isosafrole	
							Methyl Phenols, Total	
							Tentatively Identified Compound	
							Total Cresols, TCEQ Definition	
					SMDFTPPWK_00113	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
.SMDFTPPWK_00113	10/12/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMTUNEWKS_00016	50 uL	Pentachlorophenol	10 ug/mL							
							4,4'-DDT	50 ug/mL							
							Benzidine	50 ug/mL							
							DFTPP	50 ug/mL							
..SMTUNEWKS_00016	02/06/19	02/06/18	n/a, Lot n/a	1000 uL	SMTUNESTK_00013	1000 uL	Pentachlorophenol	50 ug/mL							
							4,4'-DDT	1000 ug/mL							
							Benzidine	1000 ug/mL							
							DFTPP	1000 ug/mL							
...SMTUNESTK_00013	10/31/20	RESTEK, Lot A0131612		(Purchased Reagent)		4,4'-DDT	1000 ug/mL								
						Benzidine	1000 ug/mL								
						DFTPP	1000 ug/mL								
						Pentachlorophenol	1000 ug/mL								
HIVOL_DFTPPWK_00124							4,4'-DDD								
							4,4'-DDE								
							Aramite, Total								
							Creosote								
							Diallate								
							Isosafrole								
							Methyl Phenols, Total								
							Tentatively Identified Compound								
							Total Cresols, TCEQ Definition								
							.SMDFTPPWK_00114	10/12/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMTUNEWKS_00016	50 uL	4,4'-DDT	10 ug/mL
														Benzidine	10 ug/mL
														DFTPP	10 ug/mL
														Pentachlorophenol	10 ug/mL
..SMTUNEWKS_00016	02/06/19	02/06/18	n/a, Lot n/a	1000 uL	SMTUNESTK_00013	1000 uL	4,4'-DDT	50 ug/mL							
							Benzidine	50 ug/mL							
							DFTPP	50 ug/mL							
							Pentachlorophenol	50 ug/mL							
...SMTUNESTK_00013	10/31/20	RESTEK, Lot A0131612		(Purchased Reagent)		4,4'-DDT	1000 ug/mL								
						Benzidine	1000 ug/mL								
						DFTPP	1000 ug/mL								
						Pentachlorophenol	1000 ug/mL								
ICV1660-3_00050	12/14/18	06/14/18	HEXANE, Lot 181539	100 mL	ICV1660PAR_00026	5 mL	PCB-1016	0.25 ug/mL							
							PCB-1260	0.25 ug/mL							
							.ICV1660PAR_00026	12/14/18	06/14/18	HEXANE, Lot 181359	100 mL	PCB1660ICVSTK_00003	0.5 mL	PCB-1016	5 ug/mL
PCB-1260	5 ug/mL														
..PCB1660ICVSTK_00003	01/31/22	RESTEK, Lot A0114674		(Purchased Reagent)		PCB-1016	1000 ug/mL								
						PCB-1260	1000 ug/mL								
						PCB-1260	1000 ug/mL								

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
IS8000WRK_0002	12/13/18	06/13/18	HEXANE, Lot 181539	100 ug/mL	IS 8000 STK_00004	0.2 mL	1-Bromo-2-nitrobenzene	2 ug/mL
.IS 8000 STK 00004	08/31/20		RESTEK, Lot A0127264		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
M18BSTKHG_00001	02/26/19		Inorganic Ventures, Lot J2-HG02140		(Purchased Reagent)		Mercury	1000 ug/mL
M18ESTKHG_00001	02/28/25		ULTRA, Lot CS-0444		(Purchased Reagent)		Mercury	1000 ug/mL
M18FCRIIC_00001	02/27/19	06/11/18	acidic water, Lot 192582-190962	1000 mL	M18BSTKIC_00001	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
							Zinc	40 ug/L
.M18BSTKIC_00001	02/27/19		Inorganic Ventures, Lot M2-MEB656086		(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
							Zinc	20 ug/mL
M18GCCVIC_00002	12/28/18	07/24/18	acidic water, Lot 200458-198300	1000 mL	M18FSTKIC_00001	10 mL	Silver	0.5 ug/mL
					M18FSTKIC_00002	10 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
							Zinc	0.5 ug/mL
.M18FSTKIC_00001	06/30/19		High Purity Standards, Lot 1816522		(Purchased Reagent)		Silver	50 ug/mL
.M18FSTKIC_00002	06/30/19		High Purity Standards, Lot 1816523		(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
							Zinc	50 ug/mL
M18GISAIC_00001	04/03/19	07/02/18	acidic water, Lot 192582-198300	1000 mL	M18DSTKIC_00005	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M18DSTKIC_00005	04/03/19		Inorganic Ventures, Lot K2-MEB643109		(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
							Mg	5000 ug/mL					
M18GISBIC_00003	04/03/19	07/20/18	acidic water, Lot 200458-198300	1000 mL	M18DSTKIC_00005	100 mL	Al	500 ug/mL					
							Ca	500 ug/mL					
							Fe	200 ug/mL					
							Mg	500 ug/mL					
					M18DSTKIC_00012	10 mL	Arsenic	0.1 ug/mL					
							Barium	0.5 ug/mL					
							Be	0.5 ug/mL					
							Cadmium	1 ug/mL					
							Chromium	0.5 ug/mL					
							Co	0.5 ug/mL					
							Cu	0.5 ug/mL					
							Lead	0.05 ug/mL					
							Mn	0.5 ug/mL					
							Ni	1 ug/mL					
							Sb	0.6 ug/mL					
Selenium	0.05 ug/mL												
Silver	0.2 ug/mL												
Tl	0.1 ug/mL												
V	0.5 ug/mL												
Zinc	1 ug/mL												
.M18DSTKIC_00005	04/03/19	Inorganic Ventures, Lot K2-MEB643109					(Purchased Reagent)	Al	5000 ug/mL				
							Ca	5000 ug/mL					
							Fe	2000 ug/mL					
							Mg	5000 ug/mL					
.M18DSTKIC_00012	04/27/19	Inorganic Ventures, Lot M2-MEB658011					(Purchased Reagent)	Arsenic	10 ug/mL				
							Barium	50 ug/mL					
							Be	50 ug/mL					
							Cadmium	100 ug/mL					
							Chromium	50 ug/mL					
							Co	50 ug/mL					
							Cu	50 ug/mL					
							Lead	5 ug/mL					
							Mn	50 ug/mL					
							Ni	100 ug/mL					
							Sb	60 ug/mL					
							Selenium	5 ug/mL					
Silver	20 ug/mL												
Tl	10 ug/mL												
V	50 ug/mL												
Zinc	100 ug/mL												
M18HICVIC_00001	12/28/18	08/01/18	acidic water, Lot 200458-198300	1000 mL	M18FSTKIC_00001	8 mL	Silver	0.4 ug/mL					
							M18FSTKIC_00002	8 mL	Arsenic	0.4 ug/mL			
												Barium	0.4 ug/mL
												Cadmium	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
							Zinc	0.4 ug/mL
.M18FSTKIC_00001	06/30/19		High Purity Standards, Lot 1816522				Silver	50 ug/mL
.M18FSTKIC_00002	06/30/19		High Purity Standards, Lot 1816523				Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
							Zinc	50 ug/mL
M18HSPKIC_00002	12/06/18	08/30/18	Nitric Acid Water, Lot 200458	500 mL	M17LSTKIC_00002	2.5 mL	Tl	10 ug/mL
					M18DSTKIC_00003	4.5 mL	Selenium	10 ug/mL
					M18DSTKIC_00008	4 mL	Lead	10 ug/mL
					M18GSTKIC_00004	3 mL	Arsenic	10 ug/mL
					M18HSTKIC_00003	50 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
							M18HSTKIC_00004	50 mL
					B	100 ug/mL		
					Be	5 ug/mL		
					Bi	50 ug/mL		
					Cadmium	5 ug/mL		
					Chromium	20 ug/mL		
					Co	50 ug/mL		
					Cu	25 ug/mL		
					Fe	100 ug/mL		
					Lead	10 ug/mL		
					Li	50 ug/mL		
					Mn	50 ug/mL		
					Ni	50 ug/mL		
					Selenium	10 ug/mL		
					M18HSTKIC_00005	50 mL	Sr	100 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
Zinc	50 ug/mL							
Mo	100 ug/mL							
Sb	50 ug/mL							
Si	500 ug/mL							
Silver	5 ug/mL							
Sn	100 ug/mL							
Ti	100 ug/mL							
.M17LSTKIC_00002	12/06/18		Inorganic Ventures, Lot M2-TL661610				Tl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.M18DSTKIC_00003	04/03/19		Inorganic Ventures, Lot M2-SE663138		(Purchased Reagent)		Selenium	1000 ug/mL
.M18DSTKIC_00008	04/03/19		Inorganic Ventures, Lot M2-PB656988		(Purchased Reagent)		Lead	1000 ug/mL
.M18GSTKIC_00004	07/13/19		Inorganic Ventures, Lot M2-AS657780		(Purchased Reagent)		Arsenic	1000 ug/mL
.M18HSTKIC_00003	08/14/19		Environmental Express, Lot 1822527		(Purchased Reagent)		Al	2000 ug/mL
							Barium	2000 ug/mL
							Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
.M18HSTKIC_00004	08/14/19		Environmental Express, Lot 1822528		(Purchased Reagent)		Arsenic	40 ug/mL
							B	1000 ug/mL
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
Zinc	500 ug/mL							
.M18HSTKIC_00005	08/14/19		Environmental Express, Lot 1822529		(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
SM_HIVOLISTD_00204	11/08/18	05/08/18	Methylene Chloride, Lot 195889	4000 uL	SMISTDWORK_00362	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00362	11/08/18	05/08/18	Methylene Chloride, Lot 195889	4000 uL	SMISTD_WK_00044	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00044	05/08/19	05/08/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SM_HIVOLISTD_00211	11/30/18	06/06/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00364	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00364	11/30/18	05/30/18	Methylene Chloride, Lot 197404	4000 uL	SMISTD_WK_00044	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00044	05/08/19	05/08/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SM_HIVOLISTD_00215	12/08/18	06/19/18	Methylene Chloride, Lot 199301	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SM1s1_5uL3ICV_00005	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SM_HIVOLISTD_00219	10 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SM1s1_5uL3ICV_00005	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMICVL1_3W5uL_00003	250 uL	1-Methylnaphthalene	10 ug/mL
							2-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							
.SMICVL1_3W5uL_00003	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMICVL1_3WK_00003	200 uL	1-Methylnaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
Naphthalene	40 ug/mL							
Phenanthrene	40 ug/mL							
Pyrene	40 ug/mL							
..SMICVL1_3WK_00003	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMicvLs1S1_WK_00011	200 uL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	200 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
Pyrene	200 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

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SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
...SMicvLs1S1_WK_00011	01/17/19	07/17/18	n/a, Lot n/a	5000 uL	SMicvLs1S1_ST_00019	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							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
....SMicvLs1S1_ST_00019	12/31/19		RESTEK, Lot A0138890			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							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
SMLst1_5uLL1_00042	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00005	20 uL	Benzo[a]anthracene	0.04 ug/mL
							Benzo[a]pyrene	0.04 ug/mL
							Benzo[b]fluoranthene	0.04 ug/mL
							Benzo[k]fluoranthene	0.04 ug/mL
							Chrysene	0.04 ug/mL
							Dibenz(a,h)anthracene	0.04 ug/mL
							Indeno[1,2,3-cd]pyrene	0.04 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST1_5UL3WK_00005	250 uL	Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
..SMLST1_5UL3WK_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W5uL_00008	100 uL	Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
...SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
Smlst1_5uLL1_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00006	20 uL	Benzo[a]anthracene	0.04 ug/mL
							Benzo[a]pyrene	0.04 ug/mL
							Benzo[b]fluoranthene	0.04 ug/mL
							Benzo[k]fluoranthene	0.04 ug/mL
							Chrysene	0.04 ug/mL
							Dibenz(a,h)anthracene	0.04 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	Indeno[1,2,3-cd]pyrene	0.04 ug/mL
							1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22	RESTEK, Lot A0129635			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
SMLst1_5uLL10_00041	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00008	150 uL	1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,2'-oxybis[1-chloropropane]	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3 & 4 Methylphenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Benzo[a]anthracene	12 ug/mL
							Benzo[a]pyrene	12 ug/mL
							Benzo[b]fluoranthene	12 ug/mL
							Benzo[g,h,i]perylene	12 ug/mL
							Benzo[k]fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Bis (2-chloroethoxy)methane	12 ug/mL
							Bis (2-chloroethyl) ether	12 ug/mL
							Bis (2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz (a,h) anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL
							Hexachloroethane	12 ug/mL
							Indeno[1,2,3-cd]pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	24 ug/mL
							3,3'-Dichlorobenzidine	12 ug/mL
							Benzidine	12 ug/mL
					SMSURR5uLWKG_00076	150 uL	2,4,6-Tribromophenol	12 ug/mL
							2-Fluorobiphenyl	12 ug/mL
							2-Fluorophenol	12 ug/mL
							Nitrobenzene-d5	12 ug/mL
							Phenol-d5	12 ug/mL
							Terphenyl-d14	12 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl) ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Benzoic acid	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		Benzenidine	2000 ug/mL
.SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzenidine	2000 ug/mL
							2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
...SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL10_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00010	150 uL	1,1'-Biphenyl	12 ug/mL
							1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,2'-oxybis[1-chloropropane]	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3 & 4 Methylphenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Benzo[a]anthracene	12 ug/mL
							Benzo[a]pyrene	12 ug/mL
							Benzo[b]fluoranthene	12 ug/mL
							Benzo[g,h,i]perylene	12 ug/mL
							Benzo[k]fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Bis (2-chloroethoxy)methane	12 ug/mL
							Bis (2-chloroethyl) ether	12 ug/mL
							Bis (2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz (a,h) anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.2 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL
							Hexachloroethane	12 ug/mL
							Hexadecane	12 ug/mL
							Indeno[1,2,3-cd]pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	24 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							3,3'-Dichlorobenzidine	12 ug/mL
							Benzidine	12 ug/mL
					SMSURR5uLWKG_00078	150 uL	2,4,6-Tribromophenol	12 ug/mL
							2-Fluorobiphenyl	12 ug/mL
							2-Fluorophenol	12 ug/mL
							Nitrobenzene-d5	12 ug/mL
							Phenol-d5	12 ug/mL
							Terphenyl-d14	12 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							N-Nitrosodi-n-propylamine	200 ug/mL		
							N-Nitrosodimethylamine	200 ug/mL		
							N-Nitrosodiphenylamine	200 ug/mL		
							n-Octadecane	200 ug/mL		
							Naphthalene	200 ug/mL		
							Nitrobenzene	200 ug/mL		
							Pentachlorophenol	400 ug/mL		
							Phenanthrene	200 ug/mL		
							Phenol	200 ug/mL		
							Pyrene	200 ug/mL		
							Pyridine	400 ug/mL		
							SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL							
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Benzidine	200 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	1000 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-Nitroaniline	1000 ug/mL		
							4,6-Dinitro-2-methylphenol	2000 ug/mL		
							4-Bromophenyl phenyl ether	1000 ug/mL		
							4-Chloro-3-methylphenol	1000 ug/mL		
							4-Chloroaniline	1000 ug/mL		
4-Chlorophenyl phenyl ether	1000 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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
							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	850 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							
Phenanthrene	1000 ug/mL							
Phenol	1000 ug/mL							
Pyrene	1000 ug/mL							
Pyridine	2000 ug/mL							
							1,1'-Biphenyl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	850 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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477				Indene	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472				Ben-zidine	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
							Ben-zidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL					
							2-Fluorobiphenyl	200 ug/mL					
							2-Fluorophenol	200 ug/mL					
							Nitrobenzene-d5	200 ug/mL					
							Phenol-d5	200 ug/mL					
Terphenyl-d14	200 ug/mL												
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL					
							2-Fluorobiphenyl	500 ug/mL					
							2-Fluorophenol	500 ug/mL					
							Nitrobenzene-d5	500 ug/mL					
							Phenol-d5	500 ug/mL					
Terphenyl-d14	500 ug/mL												
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
SM1st1_5uL11_00041	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL					
							Acenaphthene-d10	3.2 ug/mL					
							Chrysene-d12	3.2 ug/mL					
							Naphthalene-d8	3.2 ug/mL					
							Perylene-d12	3.2 ug/mL					
					Phenanthrene-d10	3.2 ug/mL							
					SMLST_1_3W5uL_00008						175 uL	1,2,4,5-Tetrachlorobenzene	14 ug/mL
												1,2,4-Trichlorobenzene	14 ug/mL
												1,2-Dichlorobenzene	14 ug/mL
												1,2-Diphenylhydrazine	14 ug/mL
												1,3-Dichlorobenzene	14 ug/mL
												1,4-Dichlorobenzene	14 ug/mL
												1,4-Dioxane	14 ug/mL
												1-Methylnaphthalene	14 ug/mL
												2,2'-oxybis[1-chloropropane]	14 ug/mL
												2,3,4,6-Tetrachlorophenol	14 ug/mL
												2,4,5-Trichlorophenol	14 ug/mL
												2,4,6-Trichlorophenol	14 ug/mL
												2,4-Dichlorophenol	14 ug/mL
												2,4-Dimethylphenol	14 ug/mL
2,4-Dinitrophenol	28 ug/mL												

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	14 ug/mL
							2,6-Dichlorophenol	14 ug/mL
							2,6-Dinitrotoluene	14 ug/mL
							2-Chloronaphthalene	14 ug/mL
							2-Chlorophenol	14 ug/mL
							2-Methylnaphthalene	14 ug/mL
							2-Methylphenol	14 ug/mL
							2-Nitroaniline	14 ug/mL
							2-Nitrophenol	14 ug/mL
							3 & 4 Methylphenol	14 ug/mL
							3-Nitroaniline	14 ug/mL
							4,6-Dinitro-2-methylphenol	28 ug/mL
							4-Bromophenyl phenyl ether	14 ug/mL
							4-Chloro-3-methylphenol	14 ug/mL
							4-Chloroaniline	14 ug/mL
							4-Chlorophenyl phenyl ether	14 ug/mL
							4-Nitroaniline	14 ug/mL
							4-Nitrophenol	28 ug/mL
							Acenaphthene	14 ug/mL
							Acenaphthylene	14 ug/mL
							Aniline	14 ug/mL
							Anthracene	14 ug/mL
							Benzo[a]anthracene	14 ug/mL
							Benzo[a]pyrene	14 ug/mL
							Benzo[b]fluoranthene	14 ug/mL
							Benzo[g,h,i]perylene	14 ug/mL
							Benzo[k]fluoranthene	14 ug/mL
							Benzyl alcohol	14 ug/mL
							Bis (2-chloroethoxy)methane	14 ug/mL
							Bis (2-chloroethyl) ether	14 ug/mL
							Bis (2-ethylhexyl) phthalate	14 ug/mL
							Butyl benzyl phthalate	14 ug/mL
							Carbazole	14 ug/mL
							Chrysene	14 ug/mL
							Di-n-butyl phthalate	14 ug/mL
							Di-n-octyl phthalate	14 ug/mL
							Dibenz (a,h) anthracene	14 ug/mL
							Dibenzofuran	14 ug/mL
							Diethyl phthalate	14 ug/mL
							Dimethyl phthalate	14 ug/mL
							Fluoranthene	14 ug/mL
							Fluorene	14 ug/mL
							Hexachlorobenzene	14 ug/mL
							Hexachlorobutadiene	14 ug/mL
							Hexachlorocyclopentadiene	14 ug/mL
							Hexachloroethane	14 ug/mL
							Indeno[1,2,3-cd]pyrene	14 ug/mL
							Isophorone	14 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	14 ug/mL
							N-Nitrosodi-n-propylamine	14 ug/mL
							N-Nitrosodimethylamine	14 ug/mL
							N-Nitrosodiphenylamine	14 ug/mL
							n-Octadecane	14 ug/mL
							Naphthalene	14 ug/mL
							Nitrobenzene	14 ug/mL
							Pentachlorophenol	28 ug/mL
							Phenanthrene	14 ug/mL
							Phenol	14 ug/mL
							Pyrene	14 ug/mL
							Pyridine	28 ug/mL
							Benzoic acid	28 ug/mL
							3,3'-Dichlorobenzidine	14 ug/mL
							Benzydine	14 ug/mL
					SMSURR5uLWKG_00076	175 uL	2,4,6-Tribromophenol	14 ug/mL
							2-Fluorobiphenyl	14 ug/mL
							2-Fluorophenol	14 ug/mL
							Nitrobenzene-d5	14 ug/mL
							Phenol-d5	14 ug/mL
							Terphenyl-d14	14 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
Benzo[g,h,i]perylene	40 ug/mL							
Benzo[k]fluoranthene	40 ug/mL							
Benzyl alcohol	40 ug/mL							
Bis(2-chloroethoxy)methane	40 ug/mL							
Bis(2-chloroethyl) ether	40 ug/mL							
Bis(2-ethylhexyl) phthalate	40 ug/mL							
Butyl benzyl phthalate	40 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Benzoic acid	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
....SMSURROGAT_ST_00011	09/30/22	RESTEK, Lot A0130500			(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL11_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00010	175 uL	1,1'-Biphenyl	14 ug/mL
							1,2,4,5-Tetrachlorobenzene	14 ug/mL
							1,2,4-Trichlorobenzene	14 ug/mL
							1,2-Dichlorobenzene	14 ug/mL
							1,2-Diphenylhydrazine	14 ug/mL
							1,3-Dichlorobenzene	14 ug/mL
							1,3-Dinitrobenzene	14 ug/mL
							1,4-Dichlorobenzene	14 ug/mL
							1,4-Dioxane	14 ug/mL
							1-Methylnaphthalene	14 ug/mL
							2,2'-oxybis[1-chloropropane]	14 ug/mL
							2,3,4,6-Tetrachlorophenol	14 ug/mL
							2,4,5-Trichlorophenol	14 ug/mL
							2,4,6-Trichlorophenol	14 ug/mL
							2,4-Dichlorophenol	14 ug/mL
							2,4-Dimethylphenol	14 ug/mL
							2,4-Dinitrophenol	28 ug/mL
							2,4-Dinitrotoluene	14 ug/mL
							2,6-Dichlorophenol	14 ug/mL
							2,6-Dinitrotoluene	14 ug/mL
							2-Chloronaphthalene	14 ug/mL
							2-Chlorophenol	14 ug/mL
							2-Methylnaphthalene	14 ug/mL
							2-Methylphenol	14 ug/mL
							2-Nitroaniline	14 ug/mL
							2-Nitrophenol	14 ug/mL
							3 & 4 Methylphenol	14 ug/mL
3-Nitroaniline	14 ug/mL							
4,6-Dinitro-2-methylphenol	28 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	14 ug/mL
							4-Chloro-3-methylphenol	14 ug/mL
							4-Chloroaniline	14 ug/mL
							4-Chlorophenyl phenyl ether	14 ug/mL
							4-Nitroaniline	14 ug/mL
							4-Nitrophenol	28 ug/mL
							Acenaphthene	14 ug/mL
							Acenaphthylene	14 ug/mL
							Acetophenone	14 ug/mL
							Aniline	14 ug/mL
							Anthracene	14 ug/mL
							Benzo[a]anthracene	14 ug/mL
							Benzo[a]pyrene	14 ug/mL
							Benzo[b]fluoranthene	14 ug/mL
							Benzo[g,h,i]perylene	14 ug/mL
							Benzo[k]fluoranthene	14 ug/mL
							Benzyl alcohol	14 ug/mL
							Bis (2-chloroethoxy)methane	14 ug/mL
							Bis (2-chloroethyl) ether	14 ug/mL
							Bis (2-ethylhexyl) phthalate	14 ug/mL
							Butyl benzyl phthalate	14 ug/mL
							Carbazole	14 ug/mL
							Chrysene	14 ug/mL
							Di-n-butyl phthalate	14 ug/mL
							Di-n-octyl phthalate	14 ug/mL
							Dibenz (a,h) anthracene	14 ug/mL
							Dibenzofuran	14 ug/mL
							Diethyl phthalate	14 ug/mL
							Dimethyl phthalate	14 ug/mL
							Diphenylamine	11.9 ug/mL
							Fluoranthene	14 ug/mL
							Fluorene	14 ug/mL
							Hexachlorobenzene	14 ug/mL
							Hexachlorobutadiene	14 ug/mL
							Hexachlorocyclopentadiene	14 ug/mL
							Hexachloroethane	14 ug/mL
							Hexadecane	14 ug/mL
							Indeno[1,2,3-cd]pyrene	14 ug/mL
							Isophorone	14 ug/mL
							n-Decane	14 ug/mL
							N-Nitrosodi-n-propylamine	14 ug/mL
							N-Nitrosodimethylamine	14 ug/mL
							N-Nitrosodiphenylamine	14 ug/mL
							n-Octadecane	14 ug/mL
							Naphthalene	14 ug/mL
							Nitrobenzene	14 ug/mL
							Pentachlorophenol	28 ug/mL
							Phenanthrene	14 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							Phenol	14 ug/mL							
							Pyrene	14 ug/mL							
							Pyridine	28 ug/mL							
							Benzoic acid	28 ug/mL							
							Indene	28 ug/mL							
							3,3'-Dichlorobenzidine	14 ug/mL							
							Benzidine	14 ug/mL							
							SMSURR5uLWKG_00078	175 uL	2,4,6-Tribromophenol	14 ug/mL					
									2-Fluorobiphenyl	14 ug/mL					
									2-Fluorophenol	14 ug/mL					
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL							
							Acenaphthene-d10	320 ug/mL							
							Chrysene-d12	320 ug/mL							
							Naphthalene-d8	320 ug/mL							
							Perylene-d12	320 ug/mL							
							Phenanthrene-d10	320 ug/mL							
							Terphenyl-d14	14 ug/mL							
							..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
														Acenaphthene-d10	800 ug/mL
														Chrysene-d12	800 ug/mL
Naphthalene-d8	800 ug/mL														
Perylene-d12	800 ug/mL														
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL							
							Acenaphthene-d10	2000 ug/mL							
							Chrysene-d12	2000 ug/mL							
							Naphthalene-d8	2000 ug/mL							
							Perylene-d12	2000 ug/mL							
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL							
							Acenaphthene-d10	2000 ug/mL							
							Chrysene-d12	2000 ug/mL							
							Naphthalene-d8	2000 ug/mL							
							Perylene-d12	2000 ug/mL							
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL							
							1,2,4,5-Tetrachlorobenzene	40 ug/mL							
							1,2,4-Trichlorobenzene	40 ug/mL							
							1,2-Dichlorobenzene	40 ug/mL							
							1,2-Diphenylhydrazine	40 ug/mL							
							1,3-Dichlorobenzene	40 ug/mL							
							1,3-Dinitrobenzene	40 ug/mL							
							1,4-Dichlorobenzene	40 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl) ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benizidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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	850 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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	Pyridine	2000 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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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						
	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						

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	850 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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477			(Purchased Reagent)	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzydine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472			(Purchased Reagent)	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzydine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	Terphenyl-d14	40 ug/mL					
							2,4,6-Tribromophenol	200 ug/mL					
							2-Fluorobiphenyl	200 ug/mL					
							2-Fluorophenol	200 ug/mL					
							Nitrobenzene-d5	200 ug/mL					
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	Phenol-d5	200 ug/mL					
							Terphenyl-d14	200 ug/mL					
							2,4,6-Tribromophenol	500 ug/mL					
							2-Fluorobiphenyl	500 ug/mL					
							2-Fluorophenol	500 ug/mL					
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	Nitrobenzene-d5	500 ug/mL					
							Phenol-d5	500 ug/mL					
							Terphenyl-d14	500 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500				(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL				
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
SM1st1_5uLL2_00041	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL					
							Acenaphthene-d10	3.2 ug/mL					
							Chrysene-d12	3.2 ug/mL					
							Naphthalene-d8	3.2 ug/mL					
							Perylene-d12	3.2 ug/mL					
					SMLST_1_3WK5_00005						50 uL	Phenanthrene-d10	3.2 ug/mL
												2,6-Dinitrotoluene	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[k]fluoranthene	0.1 ug/mL
												Chrysene	0.1 ug/mL
												Dibenz(a,h)anthracene	0.1 ug/mL
												Hexachlorobenzene	0.1 ug/mL
												Indeno[1,2,3-cd]pyrene	0.1 ug/mL
N-Nitrosodi-n-propylamine	0.1 ug/mL												
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL					
							Acenaphthene-d10	320 ug/mL					
							Chrysene-d12	320 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST1_5UL3WK_00005	250 uL	2,6-Dinitrotoluene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
..SMLST1_5UL3WK_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W5uL_00008	100 uL	2,6-Dinitrotoluene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
...SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	2,6-Dinitrotoluene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	2,6-Dinitrotoluene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	2,6-Dinitrotoluene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
SMLst1_5uLL2_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00006	50 uL	2,6-Dinitrotoluene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							N-Nitrosodi-n-propylamine	0.1 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	2,6-Dinitrotoluene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
SMLst1_5uLL3_00041	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
							SMLST_1_3WK5_00005	100 uL
					2,4-Dinitrotoluene	0.2 ug/mL		
					2,6-Dinitrotoluene	0.2 ug/mL		
					2-Methylnaphthalene	0.2 ug/mL		
					Acenaphthene	0.2 ug/mL		
					Acenaphthylene	0.2 ug/mL		
					Anthracene	0.2 ug/mL		
					Benzo[a]anthracene	0.2 ug/mL		
					Benzo[a]pyrene	0.2 ug/mL		
					Benzo[b]fluoranthene	0.2 ug/mL		
					Benzo[g,h,i]perylene	0.2 ug/mL		
					Benzo[k]fluoranthene	0.2 ug/mL		
					Chrysene	0.2 ug/mL		
					Dibenz(a,h)anthracene	0.2 ug/mL		
					Fluoranthene	0.2 ug/mL		
					Fluorene	0.2 ug/mL		
					Hexachlorobenzene	0.2 ug/mL		
					Indeno[1,2,3-cd]pyrene	0.2 ug/mL		
					n-Decane	0.2 ug/mL		
					N-Nitrosodi-n-propylamine	0.2 ug/mL		
					N-Nitrosodiphenylamine	0.2 ug/mL		
Naphthalene	0.2 ug/mL							
Nitrobenzene	0.2 ug/mL							
Phenanthrene	0.2 ug/mL							
Pyrene	0.2 ug/mL							
2,4,6-Tribromophenol	0.2 ug/mL							
2-Fluorobiphenyl	0.2 ug/mL							
2-Fluorophenol	0.2 ug/mL							
Nitrobenzene-d5	0.2 ug/mL							
Phenol-d5	0.2 ug/mL							
Terphenyl-d14	0.2 ug/mL							
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST1_5UL3WK_00005	250 uL	1-Methylnaphthalene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL
..SMLST1_5UL3WK_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W5uL_00008	100 uL	1-Methylnaphthalene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00076	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
...SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1-Methylnaphthalene	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Anthracene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1-Methylnaphthalene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 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
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							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
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
....SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
.....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL3_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00006	100 uL	1-Methylnaphthalene	0.2 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL
							Acenaphthene	0.2 ug/mL
							Acenaphthylene	0.2 ug/mL
							Acetophenone	0.2 ug/mL
							Anthracene	0.2 ug/mL
							Benzo[a]anthracene	0.2 ug/mL
							Benzo[a]pyrene	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	0.2 ug/mL
							Benzo[g,h,i]perylene	0.2 ug/mL
							Benzo[k]fluoranthene	0.2 ug/mL
							Chrysene	0.2 ug/mL
							Dibenz(a,h)anthracene	0.2 ug/mL
							Fluoranthene	0.2 ug/mL
							Fluorene	0.2 ug/mL
							Hexachlorobenzene	0.2 ug/mL
							Indeno[1,2,3-cd]pyrene	0.2 ug/mL
							n-Decane	0.2 ug/mL
							N-Nitrosodi-n-propylamine	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Phenanthrene	0.2 ug/mL
							Pyrene	0.2 ug/mL
							2,4,6-Tribromophenol	0.2 ug/mL
							2-Fluorobiphenyl	0.2 ug/mL
							2-Fluorophenol	0.2 ug/mL
							Nitrobenzene-d5	0.2 ug/mL
							Phenol-d5	0.2 ug/mL
							Terphenyl-d14	0.2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	1-Methylnaphthalene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
Phenol-d5	1 ug/mL							
Terphenyl-d14	1 ug/mL							
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1-Methylnaphthalene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1-Methylnaphthalene	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz (a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1-Methylnaphthalene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	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
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
....SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
.....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	Terphenyl-d14	500 ug/mL		
							2,4,6-Tribromophenol	5000 ug/mL		
							2-Fluorobiphenyl	5000 ug/mL		
							2-Fluorophenol	5000 ug/mL		
							Nitrobenzene-d5	5000 ug/mL		
							Phenol-d5	5000 ug/mL		
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	Terphenyl-d14	5000 ug/mL		
							2,4,6-Tribromophenol	5000 ug/mL		
							2-Fluorobiphenyl	5000 ug/mL		
							2-Fluorophenol	5000 ug/mL		
							Nitrobenzene-d5	5000 ug/mL		
							Phenol-d5	5000 ug/mL		
SMLst1_5uLL4_00043	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL		
							Acenaphthene-d10	3.2 ug/mL		
							Chrysene-d12	3.2 ug/mL		
							Naphthalene-d8	3.2 ug/mL		
							Perylene-d12	3.2 ug/mL		
							Phenanthrene-d10	3.2 ug/mL		
							SMLST_1_3WK5_00005	200 uL	1,2,4-Trichlorobenzene	0.4 ug/mL
									1,2-Dichlorobenzene	0.4 ug/mL
									1,3-Dichlorobenzene	0.4 ug/mL
									1,4-Dichlorobenzene	0.4 ug/mL
					1-Methylnaphthalene	0.4 ug/mL				
					2,2'-oxybis[1-chloropropane]	0.4 ug/mL				
					2,4-Dinitrophenol	0.8 ug/mL				
					2,4-Dinitrotoluene	0.4 ug/mL				
					2,6-Dinitrotoluene	0.4 ug/mL				
					2-Chloronaphthalene	0.4 ug/mL				
					2-Methylnaphthalene	0.4 ug/mL				
					2-Methylphenol	0.4 ug/mL				
					3 & 4 Methylphenol	0.4 ug/mL				
					Acenaphthene	0.4 ug/mL				
					Acenaphthylene	0.4 ug/mL				
					Anthracene	0.4 ug/mL				
					Benzo[a]anthracene	0.4 ug/mL				
					Benzo[a]pyrene	0.4 ug/mL				
					Benzo[b]fluoranthene	0.4 ug/mL				
					Benzo[g,h,i]perylene	0.4 ug/mL				
					Benzo[k]fluoranthene	0.4 ug/mL				
					Bis(2-chloroethoxy)methane	0.4 ug/mL				
					Bis(2-chloroethyl)ether	0.4 ug/mL				
					Bis(2-ethylhexyl) phthalate	0.4 ug/mL				
					Butyl benzyl phthalate	0.4 ug/mL				
					Carbazole	0.4 ug/mL				
Chrysene	0.4 ug/mL									
Di-n-butyl phthalate	0.4 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	0.4 ug/mL
							Dibenzofuran	0.4 ug/mL
							Diethyl phthalate	0.4 ug/mL
							Dimethyl phthalate	0.4 ug/mL
							Fluoranthene	0.4 ug/mL
							Fluorene	0.4 ug/mL
							Hexachlorobenzene	0.4 ug/mL
							Hexachlorobutadiene	0.4 ug/mL
							Indeno[1,2,3-cd]pyrene	0.4 ug/mL
							Isophorone	0.4 ug/mL
							n-Decane	0.4 ug/mL
							N-Nitrosodi-n-propylamine	0.4 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL
							n-Octadecane	0.4 ug/mL
							Naphthalene	0.4 ug/mL
							Nitrobenzene	0.4 ug/mL
							Phenanthrene	0.4 ug/mL
							Pyrene	0.4 ug/mL
							2,4,6-Tribromophenol	0.4 ug/mL
							2-Fluorobiphenyl	0.4 ug/mL
							2-Fluorophenol	0.4 ug/mL
							Nitrobenzene-d5	0.4 ug/mL
							Phenol-d5	0.4 ug/mL
							Terphenyl-d14	0.4 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST1_5UL3WK_00005	250 uL	1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL
..SMLST1_5UL3WK_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W5uL_00008	100 uL	1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl) ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
							N-Nitrosodiphenylamine	4 ug/mL					
							n-Octadecane	4 ug/mL					
							Naphthalene	4 ug/mL					
							Nitrobenzene	4 ug/mL					
							Phenanthrene	4 ug/mL					
					Pyrene	4 ug/mL							
										SMSURR5uLWKG_00076	100 uL	2,4,6-Tribromophenol	4 ug/mL
										2-Fluorobiphenyl		4 ug/mL	
										2-Fluorophenol		4 ug/mL	
										Nitrobenzene-d5		4 ug/mL	
Phenol-d5	4 ug/mL												
Terphenyl-d14	4 ug/mL												
...SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4-Trichlorobenzene	40 ug/mL					
							1,2-Dichlorobenzene	40 ug/mL					
							1,3-Dichlorobenzene	40 ug/mL					
							1,4-Dichlorobenzene	40 ug/mL					
							1-Methylnaphthalene	40 ug/mL					
							2,2'-oxybis[1-chloropropane]	40 ug/mL					
							2,4-Dinitrophenol	80 ug/mL					
							2,4-Dinitrotoluene	40 ug/mL					
							2,6-Dinitrotoluene	40 ug/mL					
							2-Chloronaphthalene	40 ug/mL					
							2-Methylnaphthalene	40 ug/mL					
							2-Methylphenol	40 ug/mL					
							3 & 4 Methylphenol	40 ug/mL					
							Acenaphthene	40 ug/mL					
							Acenaphthylene	40 ug/mL					
							Anthracene	40 ug/mL					
							Benzo[a]anthracene	40 ug/mL					
							Benzo[a]pyrene	40 ug/mL					
							Benzo[b]fluoranthene	40 ug/mL					
							Benzo[g,h,i]perylene	40 ug/mL					
							Benzo[k]fluoranthene	40 ug/mL					
							Bis(2-chloroethoxy)methane	40 ug/mL					
							Bis(2-chloroethyl)ether	40 ug/mL					
							Bis(2-ethylhexyl) phthalate	40 ug/mL					
							Butyl benzyl phthalate	40 ug/mL					
							Carbazole	40 ug/mL					
							Chrysene	40 ug/mL					
							Di-n-butyl phthalate	40 ug/mL					
							Dibenz(a,h)anthracene	40 ug/mL					
							Dibenzofuran	40 ug/mL					
							Diethyl phthalate	40 ug/mL					
							Dimethyl phthalate	40 ug/mL					
							Fluoranthene	40 ug/mL					
							Fluorene	40 ug/mL					
							Hexachlorobenzene	40 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							3 & 4 Methylphenol	200 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
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							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
							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
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							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
							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
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
....SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
.....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL4_00044	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00006	200 uL	1,2,4-Trichlorobenzene	0.4 ug/mL
							1,2-Dichlorobenzene	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	0.4 ug/mL
							1,4-Dichlorobenzene	0.4 ug/mL
							1-Methylnaphthalene	0.4 ug/mL
							2,2'-oxybis[1-chloropropane]	0.4 ug/mL
							2,4-Dinitrotoluene	0.4 ug/mL
							2,6-Dinitrotoluene	0.4 ug/mL
							2-Chloronaphthalene	0.4 ug/mL
							2-Methylnaphthalene	0.4 ug/mL
							2-Methylphenol	0.4 ug/mL
							3 & 4 Methylphenol	0.4 ug/mL
							Acenaphthene	0.4 ug/mL
							Acenaphthylene	0.4 ug/mL
							Acetophenone	0.4 ug/mL
							Anthracene	0.4 ug/mL
							Benzo[a]anthracene	0.4 ug/mL
							Benzo[a]pyrene	0.4 ug/mL
							Benzo[b]fluoranthene	0.4 ug/mL
							Benzo[g,h,i]perylene	0.4 ug/mL
							Benzo[k]fluoranthene	0.4 ug/mL
							Bis(2-chloroethoxy)methane	0.4 ug/mL
							Bis(2-chloroethyl) ether	0.4 ug/mL
							Bis(2-ethylhexyl) phthalate	0.4 ug/mL
							Butyl benzyl phthalate	0.4 ug/mL
							Carbazole	0.4 ug/mL
							Chrysene	0.4 ug/mL
							Di-n-butyl phthalate	0.4 ug/mL
							Dibenz(a,h)anthracene	0.4 ug/mL
							Dibenzofuran	0.4 ug/mL
							Diethyl phthalate	0.4 ug/mL
							Dimethyl phthalate	0.4 ug/mL
							Fluoranthene	0.4 ug/mL
							Fluorene	0.4 ug/mL
							Hexachlorobenzene	0.4 ug/mL
							Hexachlorobutadiene	0.4 ug/mL
							Indeno[1,2,3-cd]pyrene	0.4 ug/mL
							Isophorone	0.4 ug/mL
							n-Decane	0.4 ug/mL
							N-Nitrosodi-n-propylamine	0.4 ug/mL
							N-Nitrosodimethylamine	0.4 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL
							n-Octadecane	0.4 ug/mL
							Naphthalene	0.4 ug/mL
							Nitrobenzene	0.4 ug/mL
							Phenanthrene	0.4 ug/mL
							Pyrene	0.4 ug/mL
							2,4,6-Tribromophenol	0.4 ug/mL
							2-Fluorobiphenyl	0.4 ug/mL
							2-Fluorophenol	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5	0.4 ug/mL
							Phenol-d5	0.4 ug/mL
							Terphenyl-d14	0.4 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Bis (2-chloroethoxy)methane	1 ug/mL
							Bis (2-chloroethyl) ether	1 ug/mL
							Bis (2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Dibenz (a,h) anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl) ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	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
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl) ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							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
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	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
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1s1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							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
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	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
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
....SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
.....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL5_00043	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST1_5UL3WK_00005	125 uL	1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis (2-chloroethoxy)methane	1 ug/mL
							Bis (2-chloroethyl) ether	1 ug/mL
							Bis (2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz (a,h) anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST1_5UL3WK_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W5uL_00008	100 uL	1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Di-n-octyl phthalate	4 ug/mL		
							Dibenz (a,h) anthracene	4 ug/mL		
							Dibenzofuran	4 ug/mL		
							Diethyl phthalate	4 ug/mL		
							Dimethyl phthalate	4 ug/mL		
							Fluoranthene	4 ug/mL		
							Fluorene	4 ug/mL		
							Hexachlorobenzene	4 ug/mL		
							Hexachlorobutadiene	4 ug/mL		
							Hexachlorocyclopentadiene	4 ug/mL		
							Hexachloroethane	4 ug/mL		
							Indeno[1,2,3-cd]pyrene	4 ug/mL		
							Isophorone	4 ug/mL		
							n-Decane	4 ug/mL		
							N-Nitrosodi-n-propylamine	4 ug/mL		
							N-Nitrosodimethylamine	4 ug/mL		
							N-Nitrosodiphenylamine	4 ug/mL		
							n-Octadecane	4 ug/mL		
							Naphthalene	4 ug/mL		
							Nitrobenzene	4 ug/mL		
							Pentachlorophenol	8 ug/mL		
							Phenanthrene	4 ug/mL		
							Phenol	4 ug/mL		
							Pyrene	4 ug/mL		
							Pyridine	8 ug/mL		
							Benzoic acid	8 ug/mL		
							3,3'-Dichlorobenzidine	4 ug/mL		
							Benzenidine	4 ug/mL		
							SMSURR5uLWKG_00076	100 uL	2,4,6-Tribromophenol	4 ug/mL
									2-Fluorobiphenyl	4 ug/mL
		2-Fluorophenol	4 ug/mL							
		Nitrobenzene-d5	4 ug/mL							
		Phenol-d5	4 ug/mL							
		Terphenyl-d14	4 ug/mL							
..SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL		
							1,2,4-Trichlorobenzene	40 ug/mL		
							1,2-Dichlorobenzene	40 ug/mL		
							1,2-Diphenylhydrazine	40 ug/mL		
							1,3-Dichlorobenzene	40 ug/mL		
							1,4-Dichlorobenzene	40 ug/mL		
							1,4-Dioxane	40 ug/mL		
							1-Methylnaphthalene	40 ug/mL		
							2,2'-oxybis[1-chloropropane]	40 ug/mL		
							2,3,4,6-Tetrachlorophenol	40 ug/mL		
							2,4,5-Trichlorophenol	40 ug/mL		
							2,4,6-Trichlorophenol	40 ug/mL		
							2,4-Dichlorophenol	40 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl) ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzdine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Benzoic acid	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		Benzidine	2000 ug/mL
..SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
							2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
...SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SM1st1_5uLL5_00044	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST1_5UL3WK_00006	125 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis (2-chloroethoxy)methane	1 ug/mL
							Bis (2-chloroethyl) ether	1 ug/mL
							Bis (2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz (a,h) anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
.SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
2-Chloronaphthalene	4 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
..SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
SMcaLs1S10_WK_00005					200 uL	Benzoic acid	400 ug/mL	
						Indene	400 ug/mL	
SMcaLs1S9_WK_00007					100 uL	3,3'-Dichlorobenzidine	200 ug/mL	
						Benzidine	200 ug/mL	
						1,1'-Biphenyl	1000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	850 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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
.....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477			(Purchased Reagent)	Indene	2000 ug/mL
.....SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
.....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472			(Purchased Reagent)	Benidine	2000 ug/mL
..SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	3,3'-Dichlorobenzidine	2000 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	Benidine	2000 ug/mL
....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	40 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
							2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
							2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
							2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
							2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
SMLst1_5uLL6_00042	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST1_5UL3WK_00005	250 uL	1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Aniline	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
							Benzyl alcohol	2 ug/mL
							Bis (2-chloroethoxy)methane	2 ug/mL
							Bis (2-chloroethyl) ether	2 ug/mL
							Bis (2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz (a,h) anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5	2 ug/mL
							Phenol-d5	2 ug/mL
							Terphenyl-d14	2 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST1_5UL3WK_00005	09/30/18	06/12/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W5uL_00008	100 uL	1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzydine	4 ug/mL
					SMSURR5uLWKG_00076	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
..SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl) ether	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benizidine	200 ug/mL
....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477				(Purchased Reagent)	Benzoic acid
....SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472				(Purchased Reagent)	Ben-zidine
..SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
...SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL6_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST1_5UL3WK_00006	250 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	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
							Benzyl alcohol	2 ug/mL
							Bis (2-chloroethoxy)methane	2 ug/mL
							Bis (2-chloroethyl) ether	2 ug/mL
							Bis (2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz (a,h) anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	1.7 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5	2 ug/mL
							Phenol-d5	2 ug/mL
							Terphenyl-d14	2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
..SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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	850 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							
Phenanthrene	1000 ug/mL							
Phenol	1000 ug/mL							
Pyrene	1000 ug/mL							
Pyridine	2000 ug/mL							
....SMcaIs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaIs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Indene	2000 ug/mL
....SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
.....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		Indene	2000 ug/mL
..SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	Benzdine	2000 ug/mL
....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	3,3'-Dichlorobenzidine	2000 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	Benzdine	2000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	40 ug/mL
SMLst1_5uLL7_00042	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
							2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
							2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
							2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
							1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLST_1_3W5uL_00008	50 uL	1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl) ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00076	50 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzydine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477				(Purchased Reagent)	Benzoic acid
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472				(Purchased Reagent)	Benzenidine
.SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL					
							2-Fluorobiphenyl	200 ug/mL					
							2-Fluorophenol	200 ug/mL					
							Nitrobenzene-d5	200 ug/mL					
							Phenol-d5	200 ug/mL					
Terphenyl-d14	200 ug/mL												
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL					
							2-Fluorobiphenyl	500 ug/mL					
							2-Fluorophenol	500 ug/mL					
							Nitrobenzene-d5	500 ug/mL					
							Phenol-d5	500 ug/mL					
Terphenyl-d14	500 ug/mL												
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
SMLst1_5uLL7_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL					
							Acenaphthene-d10	3.2 ug/mL					
							Chrysene-d12	3.2 ug/mL					
							Naphthalene-d8	3.2 ug/mL					
							Perylene-d12	3.2 ug/mL					
					Phenanthrene-d10	3.2 ug/mL							
					SMLST_1_3W5uL_00010						50 uL	1,1'-Biphenyl	4 ug/mL
												1,2,4,5-Tetrachlorobenzene	4 ug/mL
												1,2,4-Trichlorobenzene	4 ug/mL
												1,2-Dichlorobenzene	4 ug/mL
												1,2-Diphenylhydrazine	4 ug/mL
												1,3-Dichlorobenzene	4 ug/mL
												1,3-Dinitrobenzene	4 ug/mL
												1,4-Dichlorobenzene	4 ug/mL
												1,4-Dioxane	4 ug/mL
												1-Methylnaphthalene	4 ug/mL
												2,2'-oxybis[1-chloropropane]	4 ug/mL
												2,3,4,6-Tetrachlorophenol	4 ug/mL
												2,4,5-Trichlorophenol	4 ug/mL
												2,4,6-Trichlorophenol	4 ug/mL
2,4-Dichlorophenol	4 ug/mL												

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benmidine	4 ug/mL
					SMSURR5uLWKG_00078	50 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14	4 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	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
							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	850 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							
Phenanthrene	1000 ug/mL							
Phenol	1000 ug/mL							
Pyrene	1000 ug/mL							
Pyridine	2000 ug/mL							
							Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	Benzidine	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL8_00042	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLST_1_3W5uL_00008	100 uL	1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl) ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz (a,h) anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	16 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
					SMSURR5uLWKG_00076	100 uL	2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							Phenol-d5	8 ug/mL
							Terphenyl-d14	8 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzydine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	200 ug/mL
							Dibenz (a,h) anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477				(Purchased Reagent)	Benzoic acid
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472				(Purchased Reagent)	Benzenidine
.SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL					
							2-Fluorobiphenyl	200 ug/mL					
							2-Fluorophenol	200 ug/mL					
							Nitrobenzene-d5	200 ug/mL					
							Phenol-d5	200 ug/mL					
Terphenyl-d14	200 ug/mL												
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL					
							2-Fluorobiphenyl	500 ug/mL					
							2-Fluorophenol	500 ug/mL					
							Nitrobenzene-d5	500 ug/mL					
							Phenol-d5	500 ug/mL					
Terphenyl-d14	500 ug/mL												
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
SM1st1_5uLL8_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL					
							Acenaphthene-d10	3.2 ug/mL					
							Chrysene-d12	3.2 ug/mL					
							Naphthalene-d8	3.2 ug/mL					
							Perylene-d12	3.2 ug/mL					
					Phenanthrene-d10	3.2 ug/mL							
					SMLST_1_3W5uL_00010						100 uL	1,1'-Biphenyl	8 ug/mL
												1,2,4,5-Tetrachlorobenzene	8 ug/mL
												1,2,4-Trichlorobenzene	8 ug/mL
												1,2-Dichlorobenzene	8 ug/mL
												1,2-Diphenylhydrazine	8 ug/mL
												1,3-Dichlorobenzene	8 ug/mL
												1,3-Dinitrobenzene	8 ug/mL
												1,4-Dichlorobenzene	8 ug/mL
												1,4-Dioxane	8 ug/mL
												1-Methylnaphthalene	8 ug/mL
												2,2'-oxybis[1-chloropropane]	8 ug/mL
												2,3,4,6-Tetrachlorophenol	8 ug/mL
												2,4,5-Trichlorophenol	8 ug/mL
												2,4,6-Trichlorophenol	8 ug/mL
2,4-Dichlorophenol	8 ug/mL												

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Bis (2-chloroethoxy)methane	8 ug/mL
							Bis (2-chloroethyl) ether	8 ug/mL
							Bis (2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz (a,h) anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	16 ug/mL
							Indene	16 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benmidine	8 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							Phenol-d5	8 ug/mL
							Terphenyl-d14	8 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	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
							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	850 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							
Phenanthrene	1000 ug/mL							
Phenol	1000 ug/mL							
Pyrene	1000 ug/mL							
Pyridine	2000 ug/mL							
							Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	Benzdine	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
							Benzdine	2000 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL8x_00152	09/30/18	07/20/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00217	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
.SM_HIVOLISTD_00217	12/08/18	07/05/18	Methylene Chloride, Lot 199301	4000 uL	SMISTDWORK_00366	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL							
							Acenaphthene-d10	320 ug/mL							
							Chrysene-d12	320 ug/mL							
							Naphthalene-d8	320 ug/mL							
							Perylene-d12	320 ug/mL							
..SMISTDWORK_00366	12/19/18	06/19/18	Methylene Chloride, Lot 199301	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL							
							Acenaphthene-d10	800 ug/mL							
							Chrysene-d12	800 ug/mL							
							Naphthalene-d8	800 ug/mL							
							Perylene-d12	800 ug/mL							
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL							
							Acenaphthene-d10	2000 ug/mL							
							Chrysene-d12	2000 ug/mL							
							Naphthalene-d8	2000 ug/mL							
							Perylene-d12	2000 ug/mL							
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL							
							Acenaphthene-d10	2000 ug/mL							
							Chrysene-d12	2000 ug/mL							
							Naphthalene-d8	2000 ug/mL							
							Perylene-d12	2000 ug/mL							
SMLst1_5uLL8x_00152	09/30/18	07/20/18	Methylene Chloride, Lot 200432	500 uL	SMLST_1_3W5uL_00008	100 uL	Anthracene	8 ug/mL							
							Benzo[a]pyrene	8 ug/mL							
							Fluoranthene	8 ug/mL							
							Fluorene	8 ug/mL							
							Naphthalene	8 ug/mL							
					Phenanthrene	8 ug/mL									
					Pyrene	8 ug/mL									
					SMSURR5uLWKG_00076						100 uL	2-Fluorobiphenyl	8 ug/mL		
												Nitrobenzene-d5	8 ug/mL		
												Terphenyl-d14	8 ug/mL		
.SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL								SMLST_1_3W200_00004	200 uL	Anthracene	40 ug/mL
														Benzo[a]pyrene	40 ug/mL
					Fluoranthene	40 ug/mL									
					Fluorene	40 ug/mL									
					Naphthalene	40 ug/mL									
Phenanthrene	40 ug/mL														
Pyrene	40 ug/mL														
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	Anthracene	200 ug/mL							
							Benzo[a]pyrene	200 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18	RESTEK, Lot A0125805			(Purchased Reagent)		Anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2-Fluorobiphenyl	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2-Fluorobiphenyl	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2-Fluorobiphenyl	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2-Fluorobiphenyl	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22	RESTEK, Lot A0130500			(Purchased Reagent)		2-Fluorobiphenyl	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SM1st1_5uLL8x_00154	09/30/18	07/23/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMLst1_5uLL8x_00154	09/30/18	07/23/18	Methylene Chloride, Lot 200432	500 uL	SMLST_1_3W5uL_00010	100 uL	1-Methylnaphthalene	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Chrysene	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Naphthalene	8 ug/mL
							Phenanthrene	8 ug/mL
							Pyrene	8 ug/mL
					SMSURR5uLWKG_00078	100 uL	2-Fluorobiphenyl	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							Terphenyl-d14	8 ug/mL
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1-Methylnaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Naphthalene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	200 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
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							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
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2-Fluorobiphenyl	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2-Fluorobiphenyl	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2-Fluorobiphenyl	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2-Fluorobiphenyl	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2-Fluorobiphenyl	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLst1_5uLL9_00041	09/30/18	06/14/18	Methylene Chloride, Lot 199301	500 uL	SM_HIVOLISTD_00213	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00008	125 uL	1,2,4,5-Tetrachlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Aniline	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
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl) ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzenidine	10 ug/mL
					SMSURR5uLWKG_00076	125 uL	2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14	10 ug/mL
.SM_HIVOLISTD_00213	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	Phenanthrene-d10	800 ug/mL
							1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00008	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
Acenaphthene	40 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzenidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

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	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
Phenanthrene	200 ug/mL							
Phenol	200 ug/mL							
Pyrene	200 ug/mL							
Pyridine	400 ug/mL							
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Benidine	200 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	1000 ug/mL
							1,3-Dichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Aniline	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477				(Purchased Reagent)	Benzoic acid
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472				(Purchased Reagent)	3,3'-Dichlorobenzidine
.SMSURR5uLWKG_00076	09/30/18	06/08/18	Methylene Chloride, Lot 198794	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL					
							2-Fluorobiphenyl	200 ug/mL					
							2-Fluorophenol	200 ug/mL					
							Nitrobenzene-d5	200 ug/mL					
							Phenol-d5	200 ug/mL					
Terphenyl-d14	200 ug/mL												
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL					
							2-Fluorobiphenyl	500 ug/mL					
							2-Fluorophenol	500 ug/mL					
							Nitrobenzene-d5	500 ug/mL					
							Phenol-d5	500 ug/mL					
Terphenyl-d14	500 ug/mL												
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL					
							2-Fluorobiphenyl	5000 ug/mL					
							2-Fluorophenol	5000 ug/mL					
							Nitrobenzene-d5	5000 ug/mL					
							Phenol-d5	5000 ug/mL					
Terphenyl-d14	5000 ug/mL												
SMLst1_5uLL9_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL					
							Acenaphthene-d10	3.2 ug/mL					
							Chrysene-d12	3.2 ug/mL					
							Naphthalene-d8	3.2 ug/mL					
							Perylene-d12	3.2 ug/mL					
					Phenanthrene-d10	3.2 ug/mL							
					SMLST_1_3W5uL_00010						125 uL	1,1'-Biphenyl	10 ug/mL
												1,2,4,5-Tetrachlorobenzene	10 ug/mL
												1,2,4-Trichlorobenzene	10 ug/mL
												1,2-Dichlorobenzene	10 ug/mL
												1,2-Diphenylhydrazine	10 ug/mL
												1,3-Dichlorobenzene	10 ug/mL
												1,3-Dinitrobenzene	10 ug/mL
												1,4-Dichlorobenzene	10 ug/mL
												1,4-Dioxane	10 ug/mL
												1-Methylnaphthalene	10 ug/mL
												2,2'-oxybis[1-chloropropane]	10 ug/mL
												2,3,4,6-Tetrachlorophenol	10 ug/mL
												2,4,5-Trichlorophenol	10 ug/mL
												2,4,6-Trichlorophenol	10 ug/mL
2,4-Dichlorophenol	10 ug/mL												

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	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
							Benzyl alcohol	10 ug/mL
							Bis (2-chloroethoxy)methane	10 ug/mL
							Bis (2-chloroethyl) ether	10 ug/mL
							Bis (2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz (a,h) anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Diphenylamine	8.5 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzenidine	10 ug/mL
					SMSURR5uLWKG_00078	125 uL	2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14	10 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	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
							Benzyl alcohol	200 ug/mL
							Bis (2-chloroethoxy)methane	200 ug/mL
							Bis (2-chloroethyl) ether	200 ug/mL
							Bis (2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	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
							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	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	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	1000 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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	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
							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	850 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							
Phenanthrene	1000 ug/mL							
Phenol	1000 ug/mL							
Pyrene	1000 ug/mL							
Pyridine	2000 ug/mL							
							Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzdine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzdine	2000 ug/mL
							2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
WSTPS1_00031	06/30/19		50 mL, Lot WSTICP1_00008		(Purchased Reagent)		Orthophosphate	100 mg/L
							Orthophosphate as P	100 mg/L
							Orthophosphorus as PO4	306 mg/L
							Phosphorus as P	100 mg/L
							Phosphorus as PO4	306 mg/L
							Phosphorus Pentoxide	229 mg/L
							Phosphorus, Organic	100 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phosphorus, Ortho	100 mg/L
WSTPS2_00033	07/19/19		50mL, Lot WSTICP2_00008			(Purchased Reagent)	Orthophosphate	50 mg/L
							Orthophosphate as P	50 mg/L
							Orthophosphorus as PO4	153 mg/L
							Phosphorus as P	50 mg/L
							Phosphorus as PO4	153 mg/L
							Phosphorus Pentoxide	114.5 mg/L
							Phosphorus, Organic	50 mg/L
WSTTSS1_00853	09/07/18		BAKER 0.2g, Lot 0000129627			(Purchased Reagent)	Total Suspended Solids	200 mg/L

Reagent

IS 8000 STK_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.

Sx1 mL

Catalog No. : 32279 Lot No.: A0127264

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 : August 31, 2020 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 CAS # 577-19-5 Purity 99% (Lot 643872/1)	1,004.0 µg/mL	+/- 5.9635 µg/mL Gravimetric +/- 56.3065 µg/mL Unstressed +/- 57.6234 µg/mL Stressed

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



4441097
ID: IS 8000 STK_00004
Desc: 1-Bromo-2-nitrobenzene
Exp: 8/31/2020 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
1-Bromo-2-nitrobenzene

Reagent

PCBAR12211254_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. : 569745 Lot No.: A0131802
 Description : PCB-1221/1254 Standard
PCB-1221/1254 Standard 1,000µg/mL, Hexane, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : January 31, 2024 Storage: 25°C nominal
 Handling: This product contains PCBs.

CERTIFIED VALUES

Division Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1221	1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 11104-28-2 (Lot 2781200)		+/-	31.8975	µg/mL	Unstressed
	Purity ----%		+/-	41.6615	µg/mL	Stressed
2	Aroclor 1254	1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 11097-69-1 (Lot 124-191-B)		+/-	31.7706	µg/mL	Unstressed
	Purity ----%		+/-	41.4958	µg/mL	Stressed

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



4621331
 ID: PCBAR12211254_00004
 Desc: AR1221/AR1254 STOCK
 Exp: 1/31/2024 Prpd/Rcvd: 1/26/2018
 Sol: Prpd: gibsonp
 AR1221/AR1254 STOCK

Reagent

PCBAR12321262_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.

36

Catalog No. : 569746 Lot No.: A0125033

Description : PCB-1232/1262 Standard
PCB-1232/1262 Standard 1000 µg/ml, Hexane, 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : May 31, 2023 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	1,002.0 µg/mL	+/- 5.9516 µg/mL Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7706 µg/mL Unstressed
	Purity ----%		+/- 41.4958 µg/mL Stressed
2	Aroclor 1262	1,000.0 µg/mL	+/- 5.9397 µg/mL Gravimetric
	CAS # 37324-23-5 (Lot 3067100)		+/- 31.7072 µg/mL Unstressed
	Purity ----%		+/- 41.4130 µg/mL Stressed

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



4441167
ID: PCBAR12321262_00002
Desc: AR1232/AR1262 STOCK
Exp: 5/31/2023 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibson
AR1232/AR1262 STOCK

Reagent

PCBAR12421268_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.

21

2x1 mL

Catalog No. : 569747 **Lot No.:** A0125041

Description : PCB-1242/1268 Standard
PCB-1242/1268 Standard 1000 µg/ml, Hexane, 1 ml/ampul

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

Expiration Date : May 31, 2023 **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 1242	1,008.0 µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/-	31.9609	µg/mL	Unstressed
	Purity ----%		+/-	41.7443	µg/mL	Stressed
2	Aroclor 1268	1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 11100-14-4 (Lot 2743900)		+/-	31.7072	µg/mL	Unstressed
	Purity ----%		+/-	41.4130	µg/mL	Stressed

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



4441158
ID: PCBAR12421268 00002
Desc: AR1242/AR1268 STOCK
Exp: 5/30/2023 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
AR1242/AR1268 STOCK

Reagent

PCBAR1248_00012

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.

2X/mL
05

Catalog No. : 32010 **Lot No.:** A0121842
Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 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 1248 CAS # 12672-29-6 (Lot 07) Purity ----%	996.8 µg/mL	+/- 5.8498	µg/mL	Gravimetric
			+/- 31.5925	µg/mL	Unstressed
			+/- 41.2704	µg/mL	Stressed

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



4441157
 ID: PCBAR1248 00012
 Desc: AR1248 STOCK
 Exp: 12/31/2022 Prpd/Rcvd: 9/14/2017
 Sol: Prpd: gibsonp
 AR1248 STOCK

Reagent

TCX/DCBSTK_00017



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.

10x1mL
618

Catalog No. : 32000 **Lot No.:** A0125833

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, 2023 **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	201.5 µg/mL	+/-	1.1742	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/-	6.3844	µg/mL	Unstressed
	Purity 98%		+/-	8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	201.9 µg/mL	+/-	1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/-	6.3975	µg/mL	Unstressed
	Purity 99%		+/-	8.3581	µg/mL	Stressed

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



4441125
ID: TCX/DCBSTK_00017
Desc: TCX/DCB STOCK
Exp: 6/30/2022 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
TCX/DCB STOCK

Method 625

Semivolatile Organic Compounds
(GC/MS) by Method 625

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHL #
R1	500-150867-1	80	68	67
G1-01	500-150867-2	99	80	64
G2-01	500-150867-3	87	71	62
	MB 500-448172/1-A	85	70	87
	LCS 500-448172/2-A	87	74	76
	LCSD 500-448172/3-A	97	83	78

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

QC LIMITS
28-110
31-110
20-133

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: LCS 500-448172.D

Lab ID: LCS 500-448172/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Anthracene	32.0	28.0	87	27-133	
Benzo[a]pyrene	32.0	29.1	91	17-163	
Fluoranthene	32.0	27.3	85	26-137	
Fluorene	32.0	22.9	71	59-121	
Naphthalene	32.0	22.3	70	21-133	
Phenanthrene	32.0	27.7	86	54-120	
Pyrene	32.0	29.3	91	52-115	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LCSD 500-448172.D
 Lab ID: LCSD 500-448172/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Anthracene	32.0	29.4	92	5	20	27-133	
Benzo[a]pyrene	32.0	31.7	99	9	20	17-163	
Fluoranthene	32.0	28.4	89	4	20	26-137	
Fluorene	32.0	24.9	78	8	20	59-121	
Naphthalene	32.0	23.6	74	6	20	21-133	
Phenanthrene	32.0	28.5	89	3	20	54-120	
Pyrene	32.0	30.1	94	3	20	52-115	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: MB 500-448172.D Lab Sample ID: MB 500-448172/1-A
 Matrix: Water Date Extracted: 09/04/2018 07:56
 Instrument ID: CMS01 Date Analyzed: 09/04/2018 15:33
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-448172/2-A	LCS 500-448172. D	09/04/2018 14:11
	LCSD 500-448172/3-A	LCSD 500-448172. D	09/04/2018 14:39
R1	500-150867-1	500-150867- A-1.D	09/05/2018 08:02
G1-01	500-150867-2	500-150867- A-2.D	09/05/2018 08:29
G2-01	500-150867-3	500-150867- A-3.D	09/05/2018 08:57

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: 1D0719C.D DFTPP Injection Date: 07/19/2018
 Instrument ID: CMS01 DFTPP Injection Time: 16:10
 Analysis Batch No.: 441637

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	59.5
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0 % of mass 69	0.2 (0.7) 1
127	40.0 - 60.0 % of mass 198	45.2
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	6.8
275	10.0 - 30.0 % of mass 198	19.5
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	16.4 (97.8) 3
442	Greater than 40.0 % of mass 198	83.8
443	17.0 - 23.0 % of mass 442	16.7 (19.9) 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
	ICIS 500-441637/9	icisA.D	07/19/2018	16:38
	IC 500-441637/2	ic2A.D	07/19/2018	17:06
	IC 500-441637/3	ic02.D	07/19/2018	17:34
	IC 500-441637/4	IC05.D	07/19/2018	18:01
	IC 500-441637/5	ic1.D	07/19/2018	18:30
	IC 500-441637/6	ic5.D	07/19/2018	18:57
	IC 500-441637/7	ic10.D	07/19/2018	19:25
	IC 500-441637/8	ic20.D	07/19/2018	19:53
	IC 500-441637/10	ic50.D	07/19/2018	20:21
	IC 500-441637/11	ic60.D	07/19/2018	20:48
	IC 500-441637/12	ic70.D	07/19/2018	21:16

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: 1D0904a.D DFTPP Injection Date: 09/04/2018
 Instrument ID: CMS01 DFTPP Injection Time: 11:47
 Analysis Batch No.: 448229

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	59.7
68	Less than 2.0 % of mass 69	0.4 (0.8) 1
69	Mass 69 relative abundance	46.9
70	Less than 2.0 % of mass 69	0.1 (0.2) 1
127	40.0 - 60.0 % of mass 198	57.4
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	6.4
275	10.0 - 30.0 % of mass 198	16.3
365	Greater than 1.0 % of mass 198	2.2
441	Present but less than mass 443	9.9 (78.7) 3
442	Greater than 40.0 % of mass 198	62.3
443	17.0 - 23.0 % of mass 442	12.6 (20.2) 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
	CCVIS 500-448229/3	1C0904b.D	09/04/2018	12:41
	LCS 500-448172/2-A	LCS 500-448172.D	09/04/2018	14:11
	LCSD 500-448172/3-A	LCSD 500-448172.D	09/04/2018	14:39
	MB 500-448172/1-A	MB 500-448172.D	09/04/2018	15:33
R1	500-150867-1	500-150867-A -1.D	09/05/2018	08:02
G1-01	500-150867-2	500-150867-A -2.D	09/05/2018	08:29
G2-01	500-150867-3	500-150867-A -3.D	09/05/2018	08:57

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448229/3 Date Analyzed: 09/04/2018 12:41
 Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): 1C0904b.D Heated Purge: (Y/N) N
 Calibration ID: 29279

	DCBd4		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	273822	5.31	1017561	6.38	461801	7.83	
UPPER LIMIT	547644	5.81	2035122	6.88	923602	8.33	
LOWER LIMIT	136911	4.81	508781	5.88	230901	7.33	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-448172/2-A		249886	5.31	984999	6.38	432405	7.83
LCSD 500-448172/3-A		245342	5.31	966883	6.38	416593	7.83
MB 500-448172/1-A		186055	5.31	859178	6.38	380283	7.84
500-150867-1	R1	175938	5.31	783523	6.38	338937	7.83
500-150867-2	G1-01	208714	5.31	985060	6.38	404406	7.84
500-150867-3	G2-01	222113	5.31	1006872	6.38	433622	7.84

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448229/3 Date Analyzed: 09/04/2018 12:41
 Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): 1C0904b.D Heated Purge: (Y/N) N
 Calibration ID: 29279

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	594326	9.05	531100	11.51	564824	13.80	
UPPER LIMIT	1188652	9.55	1062200	12.01	1129648	14.30	
LOWER LIMIT	297163	8.55	265550	11.01	282412	13.30	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-448172/2-A	579698	9.05	518316	11.51	540639	13.80	
LCSD 500-448172/3-A	555601	9.05	513387	11.51	511680	13.81	
MB 500-448172/1-A	609820	9.06	484290	11.52	500644	13.82	
500-150867-1	R1	497119	9.05	428002	11.50	474810	13.79
500-150867-2	G1-01	638126	9.05	466639	11.51	494804	13.80
500-150867-3	G2-01	653628	9.06	481373	11.52	499271	13.80

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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 Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: R1 Lab Sample ID: 500-150867-1
 Matrix: Water Lab File ID: 500-150867-A-1.D
 Analysis Method: 625 Date Collected: 08/31/2018 15:15
 Extract. Method: 625 Date Extracted: 09/04/2018 07:56
 Sample wt/vol: 255.3 (mL) Date Analyzed: 09/05/2018 08:02
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448229 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
120-12-7	Anthracene	<0.14		0.78	0.14
50-32-8	Benzo[a]pyrene	0.089	J	0.78	0.059
206-44-0	Fluoranthene	0.44	J	0.78	0.16
86-73-7	Fluorene	<0.13		0.78	0.13
91-20-3	Naphthalene	0.89		0.78	0.12
85-01-8	Phenanthrene	0.49	J	0.78	0.17
129-00-0	Pyrene	0.48	J	0.78	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		28-110
1718-51-0	Terphenyl-d14	67		20-133
321-60-8	2-Fluorobiphenyl	68		31-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D
 Lims ID: 500-150867-A-1-A
 Client ID: R1
 Sample Type: Client
 Inject. Date: 05-Sep-2018 08:02:30 ALS Bottle#: 26 Worklist Smp#: 29
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-1-A
 Misc. Info.: 500-0054817-029
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 08:17:37 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: rynkarg Date: 05-Sep-2018 09:17:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	95	175938	3.20	
* 2 Naphthalene-d8	136	6.377	6.381	-0.004	98	783523	3.20	
* 3 Acenaphthene-d10	164	7.832	7.832	0.000	97	338937	3.20	
* 4 Phenanthrene-d10	188	9.049	9.054	-0.005	98	497119	3.20	
* 5 Chrysene-d12	240	11.503	11.513	-0.010	96	428002	3.20	
* 6 Perylene-d12	264	13.791	13.800	-0.009	90	474810	3.20	
\$ 9 Nitrobenzene-d5	82	5.782	5.787	-0.005	86	410026	8.02	
\$ 10 2-Fluorobiphenyl	172	7.275	7.280	-0.005	99	846572	6.79	
\$ 12 Terphenyl-d14	244	10.371	10.376	-0.005	97	653282	6.67	
58 Naphthalene	128	6.396	6.400	-0.004	96	49820	0.2277	
127 Phenanthrene	178	9.068	9.073	-0.005	92	20560	0.1256	
136 Fluoranthene	202	10.053	10.053	0.000	92	19653	0.1128	
141 Pyrene	202	10.238	10.243	-0.005	96	19994	0.1220	
160 Benzo[a]pyrene	252	13.686	13.700	-0.014	13	3278	0.0226	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_HIVOLISTD_00211 Amount Added: 10.00 Units: uL Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D

Injection Date: 05-Sep-2018 08:02:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: 500-150867-A-1-A

Lab Sample ID: 500-150867-1

Worklist Smp#: 29

Client ID: R1

Injection Vol: 5.0 ul

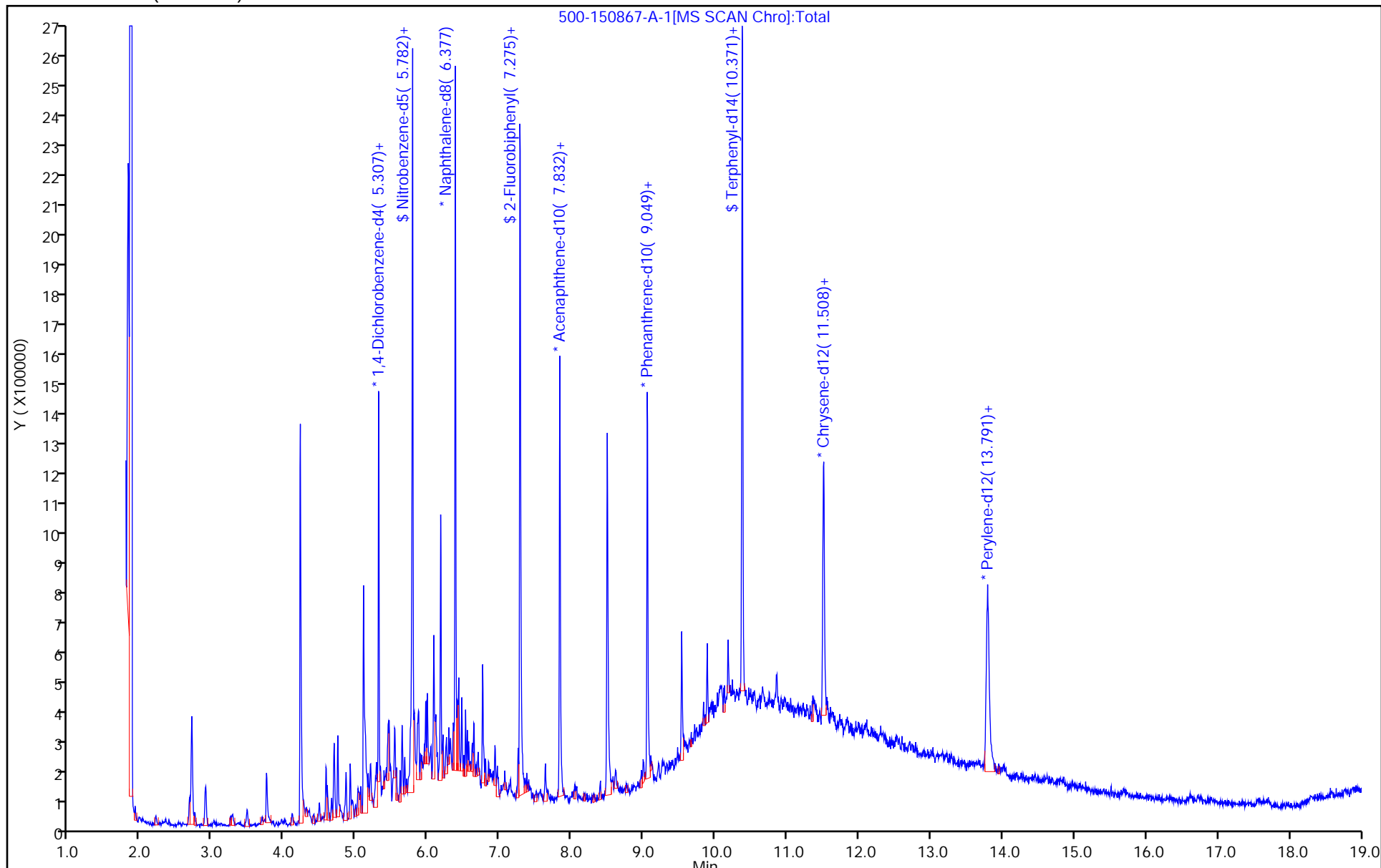
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D
 Lims ID: 500-150867-A-1-A
 Client ID: R1
 Sample Type: Client
 Inject. Date: 05-Sep-2018 08:02:30 ALS Bottle#: 26 Worklist Smp#: 29
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-1-A
 Misc. Info.: 500-0054817-029
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 08:17:37 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: rynkarg

Date: 05-Sep-2018 09:17:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	0.0	0	0.00
\$ 8 Phenol-d5	0.0	0	0.00
\$ 9 Nitrobenzene-d5	10.0	8.02	80.17
\$ 10 2-Fluorobiphenyl	10.0	6.79	67.86
\$ 11 2,4,6-Tribromophenol	0.0	0	0.00
\$ 12 Terphenyl-d14	10.0	6.67	66.69

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D

Injection Date: 05-Sep-2018 08:02:30

Instrument ID: CMS01

Lims ID: 500-150867-A-1-A

Lab Sample ID: 500-150867-1

Client ID: R1

Operator ID: AD

ALS Bottle#: 26

Worklist Smp#: 29

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

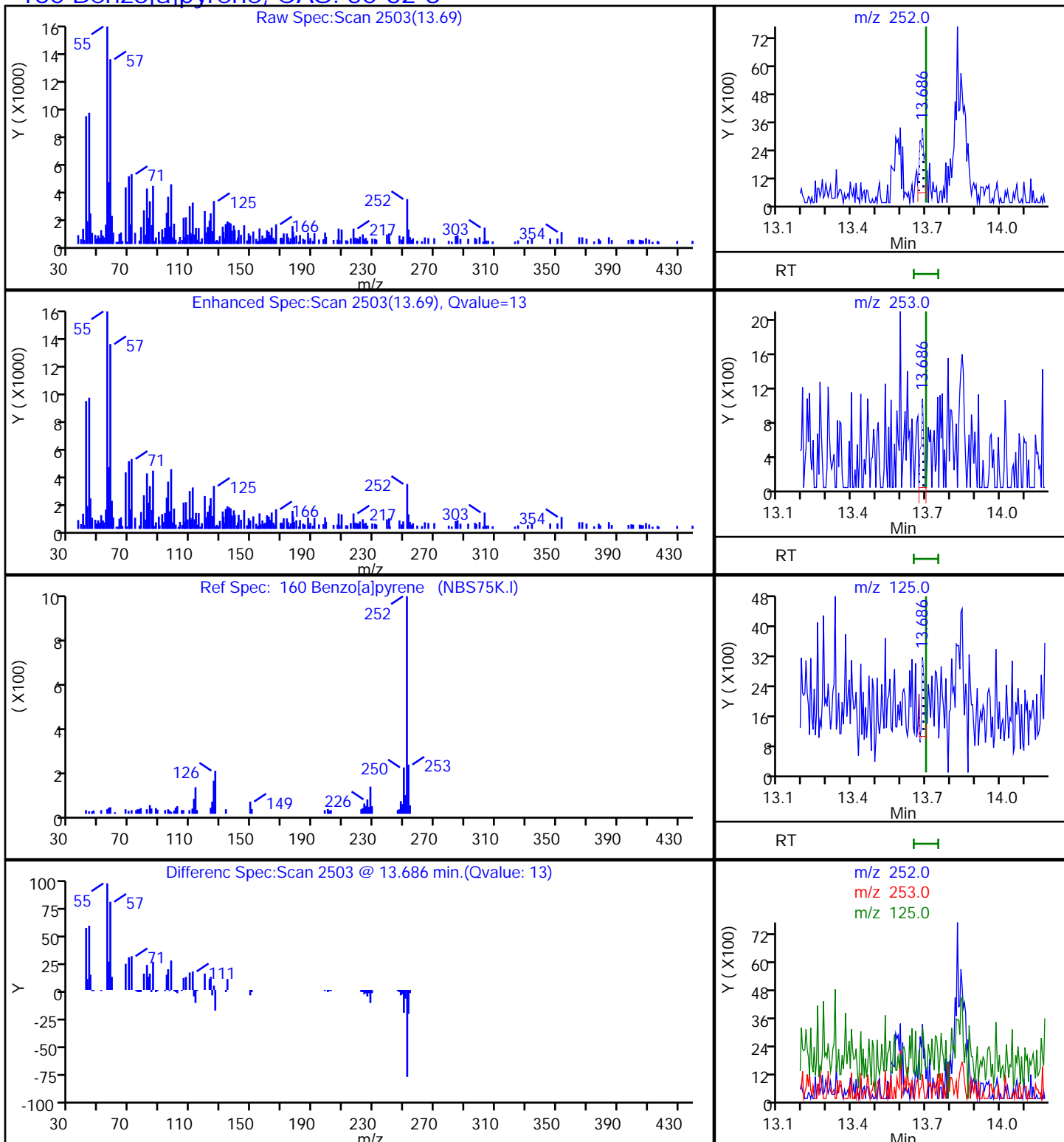
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

160 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D

Injection Date: 05-Sep-2018 08:02:30

Instrument ID: CMS01

Lims ID: 500-150867-A-1-A

Lab Sample ID: 500-150867-1

Client ID: R1

Operator ID: AD

ALS Bottle#: 26

Worklist Smp#: 29

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

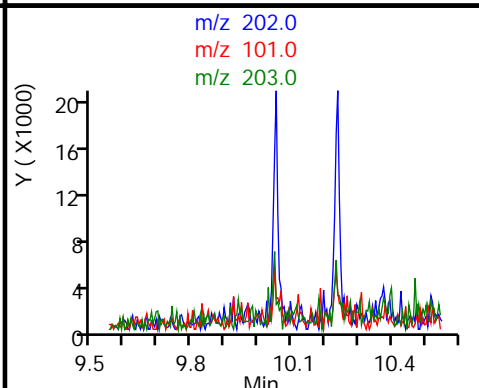
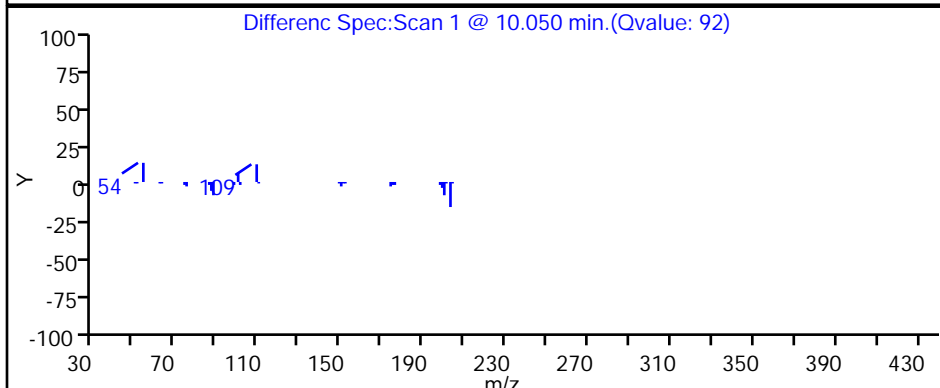
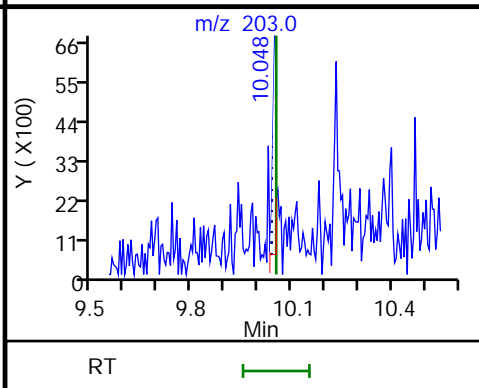
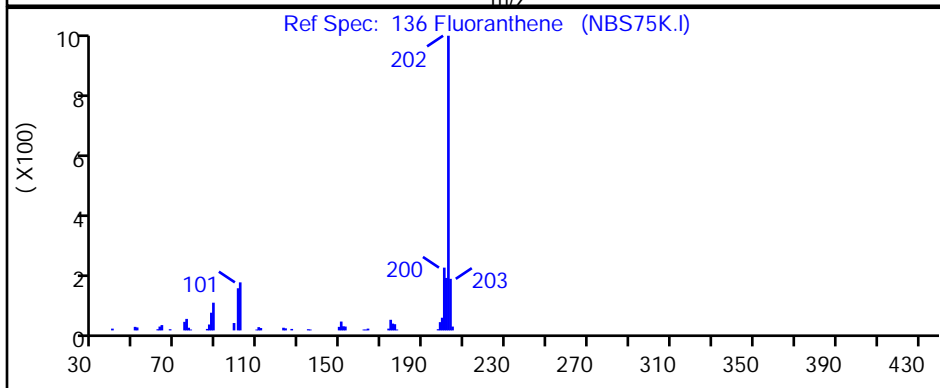
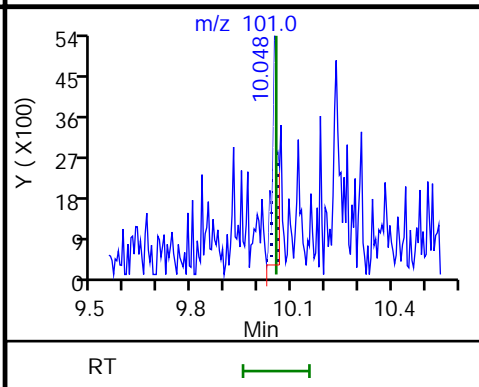
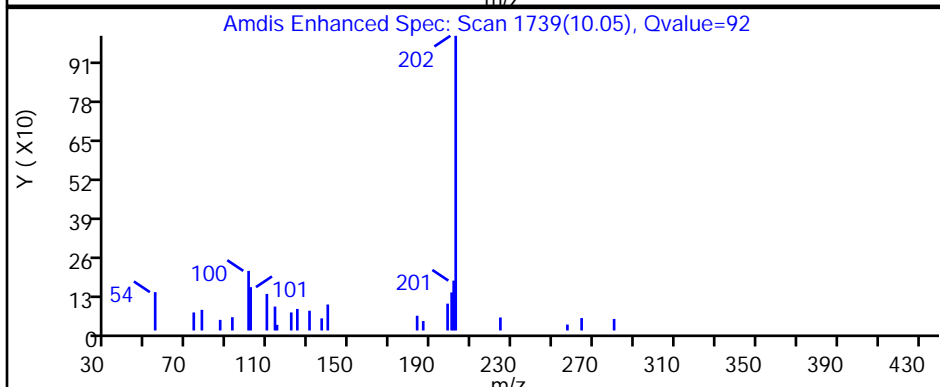
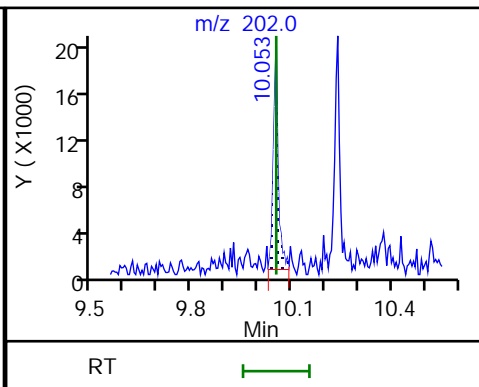
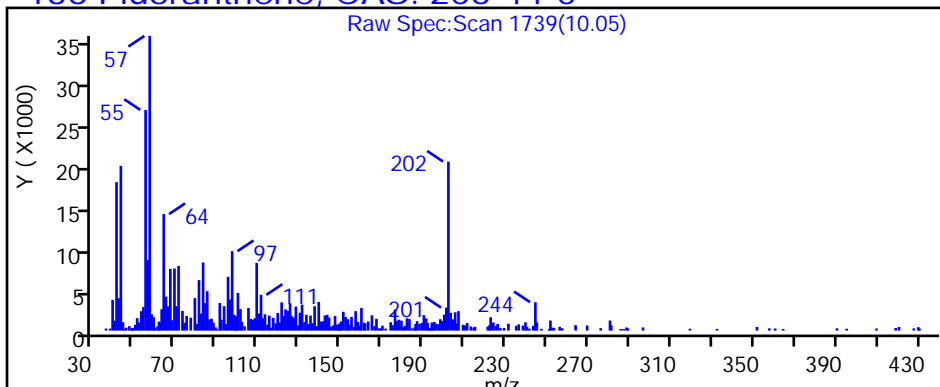
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

136 Fluoranthene, CAS: 206-44-0



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D

Injection Date: 05-Sep-2018 08:02:30

Instrument ID: CMS01

Lims ID: 500-150867-A-1-A

Lab Sample ID: 500-150867-1

Client ID: R1

Operator ID: AD

ALS Bottle#: 26

Worklist Smp#: 29

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

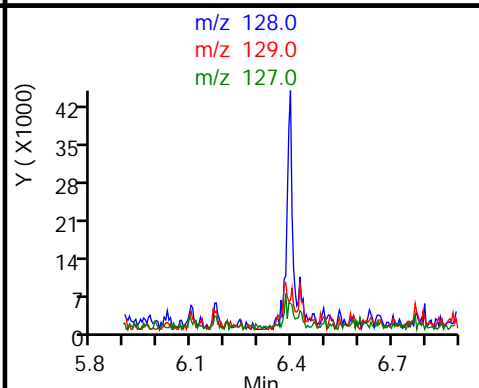
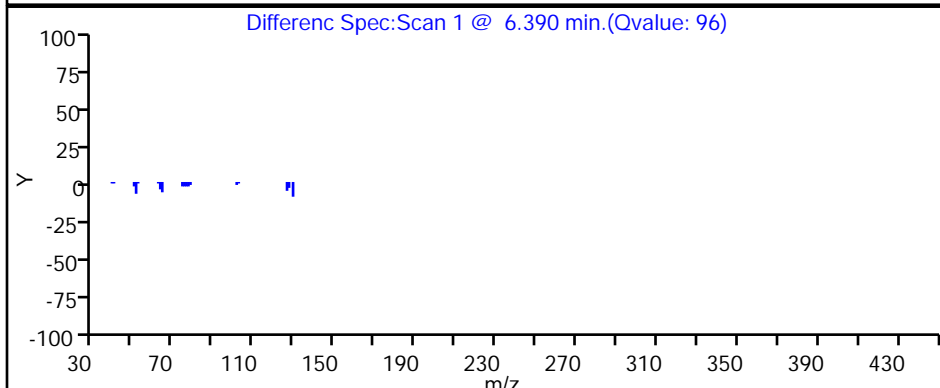
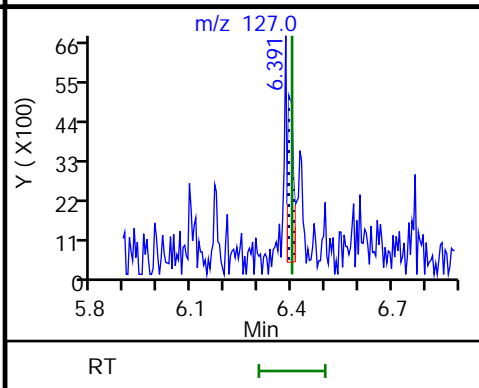
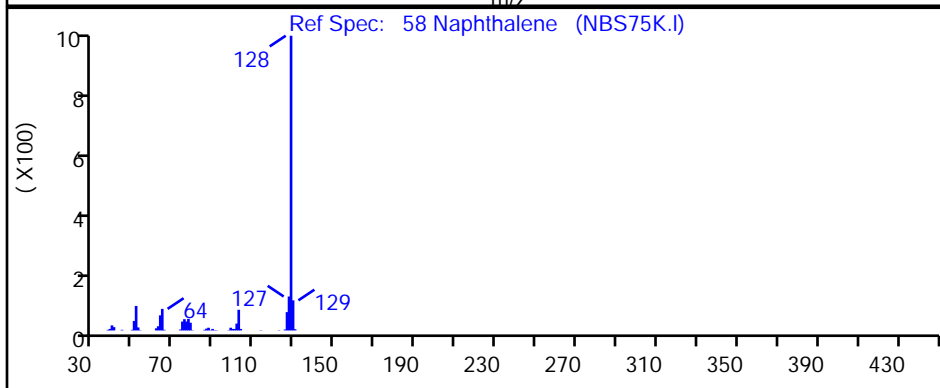
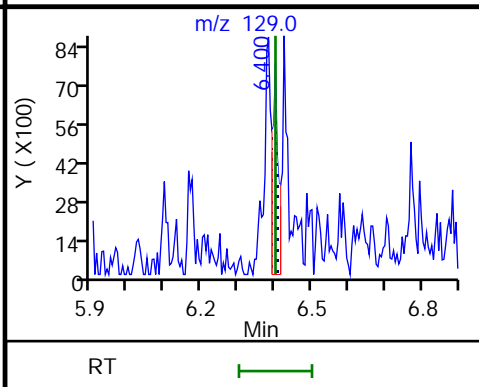
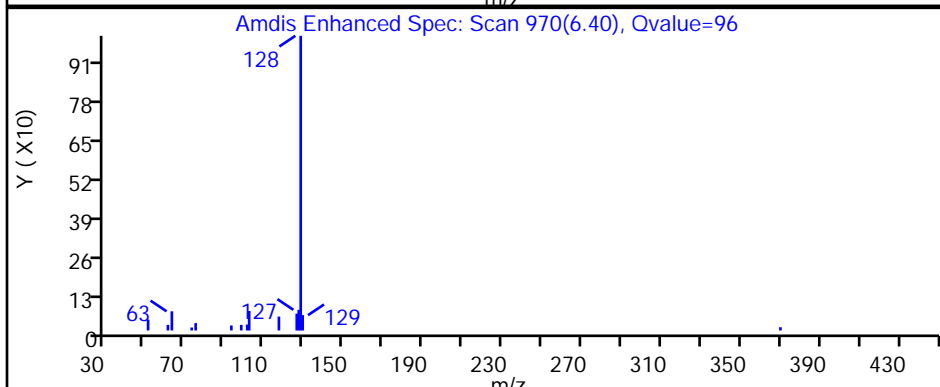
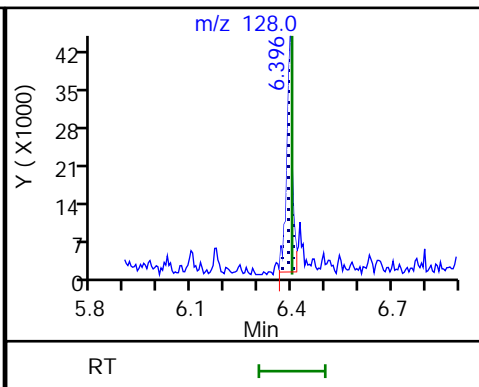
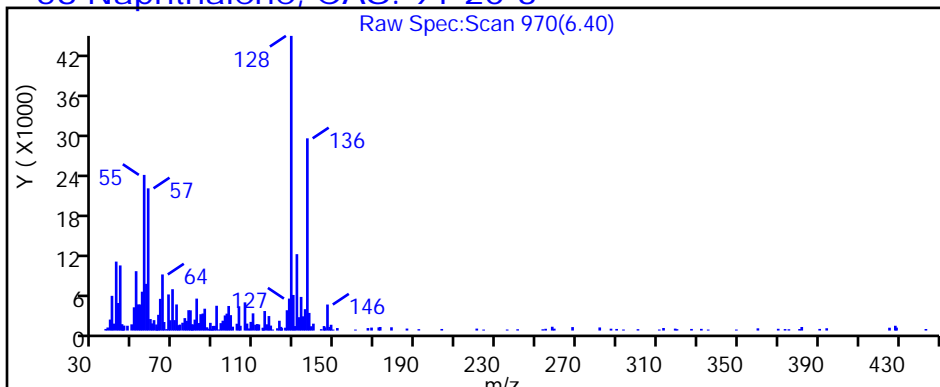
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

58 Naphthalene, CAS: 91-20-3



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D

Injection Date: 05-Sep-2018 08:02:30

Instrument ID: CMS01

Lims ID: 500-150867-A-1-A

Lab Sample ID: 500-150867-1

Client ID: R1

Operator ID: AD

ALS Bottle#: 26

Worklist Smp#: 29

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

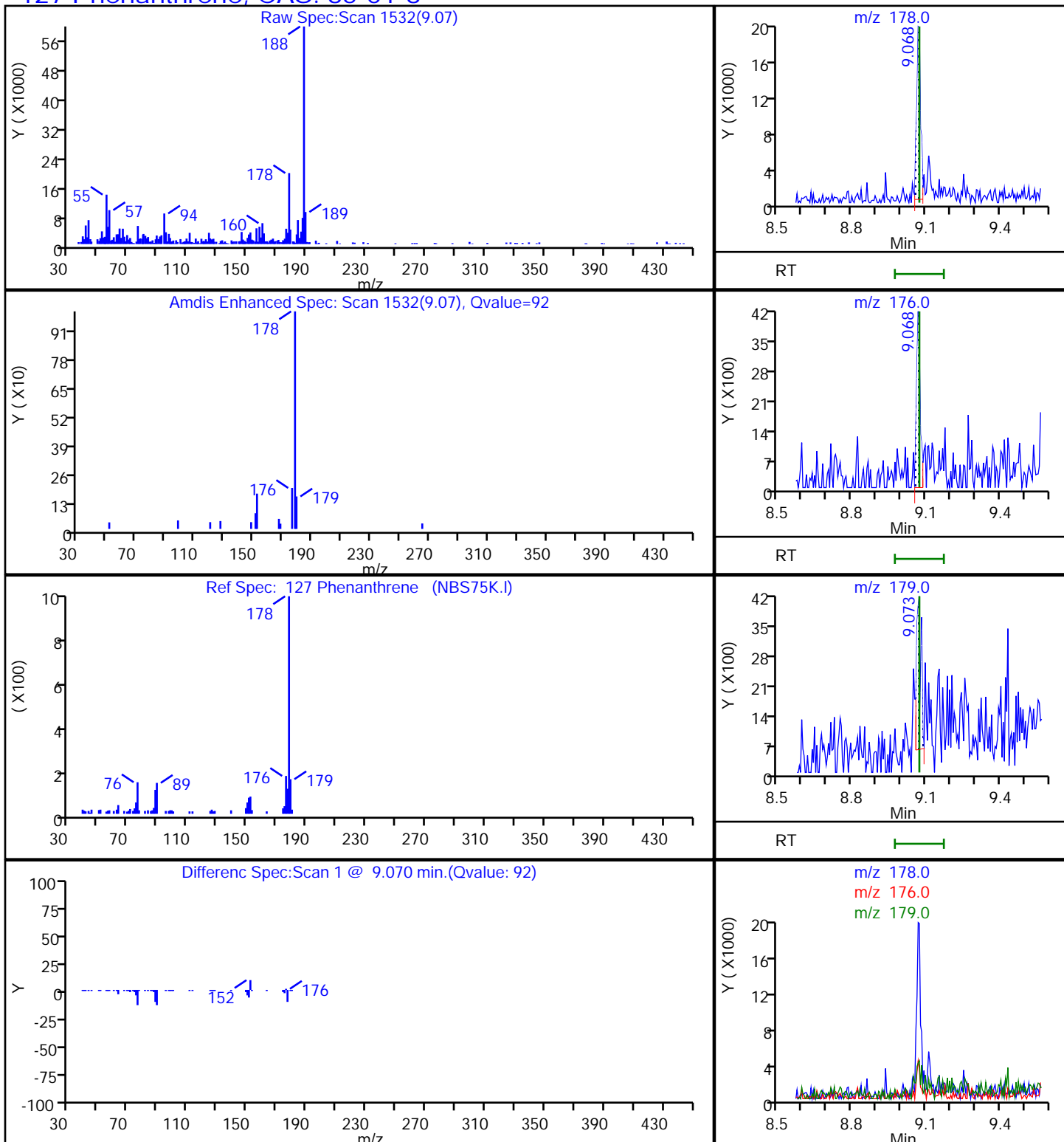
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

127 Phenanthrene, CAS: 85-01-8



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D

Injection Date: 05-Sep-2018 08:02:30

Instrument ID: CMS01

Lims ID: 500-150867-A-1-A

Lab Sample ID: 500-150867-1

Client ID: R1

Operator ID: AD

ALS Bottle#: 26 Worklist Smp#: 29

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

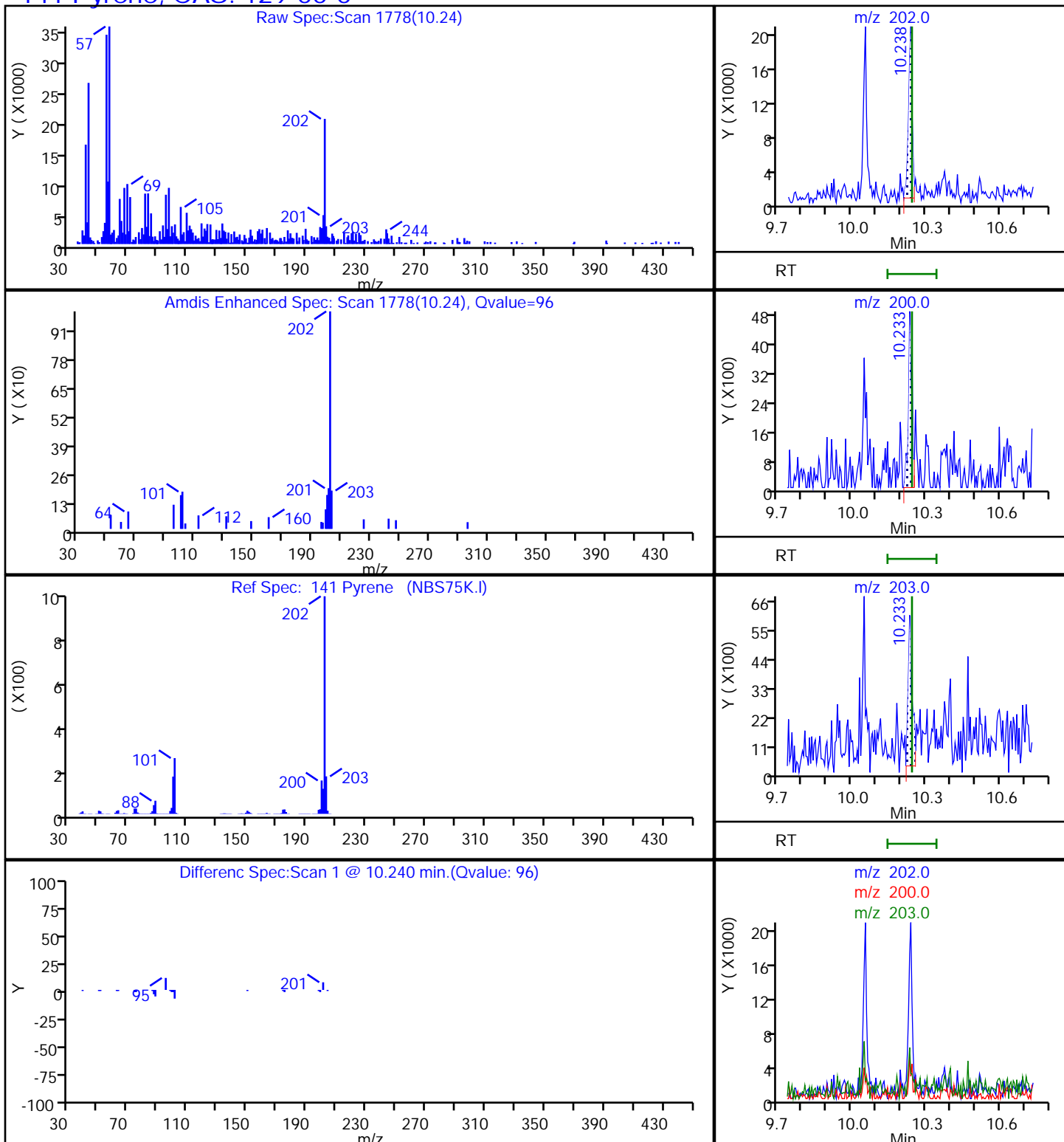
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

141 Pyrene, CAS: 129-00-0



TestAmerica Chicago

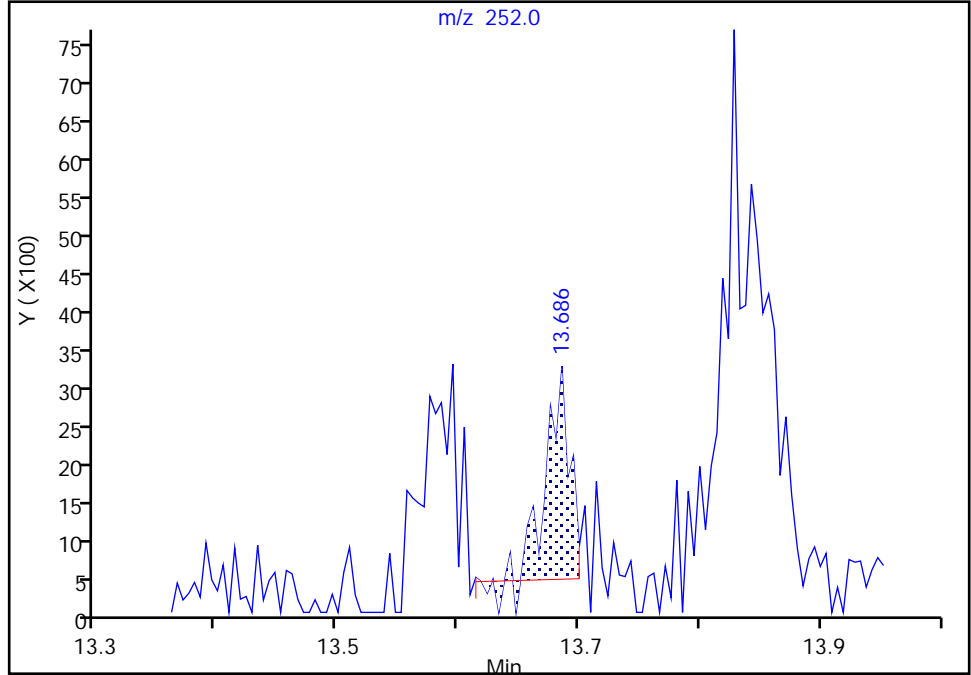
Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-1.D
Injection Date: 05-Sep-2018 08:02:30 Instrument ID: CMS01
Lims ID: 500-150867-A-1-A Lab Sample ID: 500-150867-1
Client ID: R1
Operator ID: AD ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

160 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

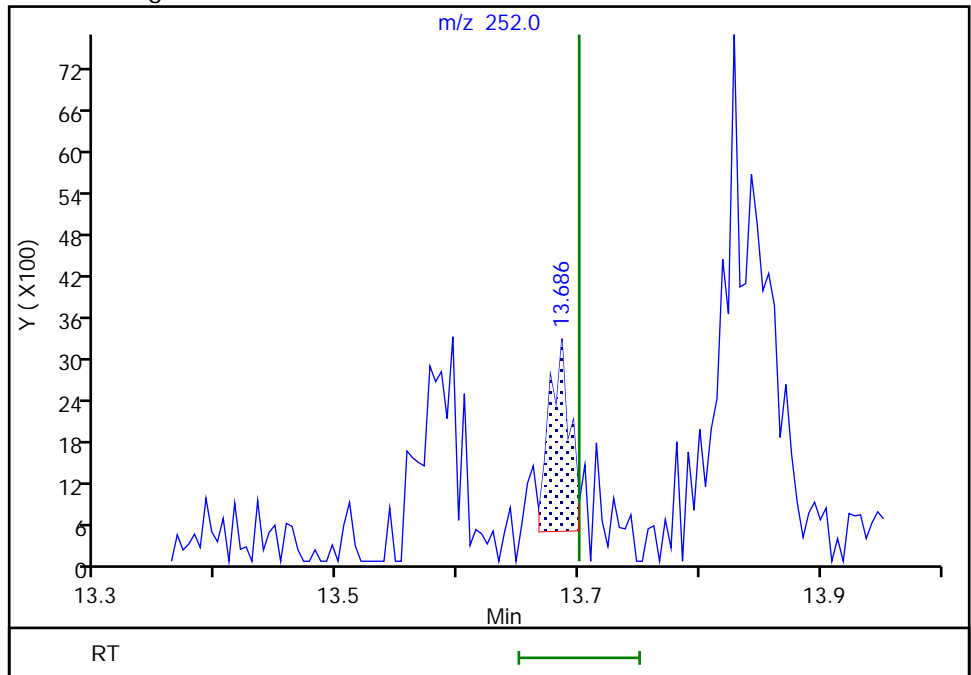
RT: 13.69
Area: 3633
Amount: 0.025075
Amount Units: ug/mL

Processing Integration Results



RT: 13.69
Area: 3278
Amount: 0.022625
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 05-Sep-2018 09:17:00
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: G1-01 Lab Sample ID: 500-150867-2
 Matrix: Water Lab File ID: 500-150867-A-2.D
 Analysis Method: 625 Date Collected: 08/31/2018 15:25
 Extract. Method: 625 Date Extracted: 09/04/2018 07:56
 Sample wt/vol: 240.9(mL) Date Analyzed: 09/05/2018 08:29
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 5(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448229 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
120-12-7	Anthracene	<0.15		0.83	0.15
50-32-8	Benzo[a]pyrene	<0.063		0.83	0.063
206-44-0	Fluoranthene	<0.17		0.83	0.17
86-73-7	Fluorene	<0.14		0.83	0.14
91-20-3	Naphthalene	1.5		0.83	0.13
85-01-8	Phenanthrene	<0.18		0.83	0.18
129-00-0	Pyrene	<0.19		0.83	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	99		28-110
1718-51-0	Terphenyl-d14	64		20-133
321-60-8	2-Fluorobiphenyl	80		31-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-2.D
 Lims ID: 500-150867-A-2-A
 Client ID: G1-01
 Sample Type: Client
 Inject. Date: 05-Sep-2018 08:29:30 ALS Bottle#: 27 Worklist Smp#: 30
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-2-A
 Misc. Info.: 500-0054817-030
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 08:17:37 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: rynkarg Date: 05-Sep-2018 09:17:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	95	208714	3.20	
* 2 Naphthalene-d8	136	6.377	6.381	-0.005	98	985060	3.20	
* 3 Acenaphthene-d10	164	7.836	7.832	0.004	96	404406	3.20	
* 4 Phenanthrene-d10	188	9.054	9.054	0.000	98	638126	3.20	
* 5 Chrysene-d12	240	11.508	11.513	-0.005	96	466639	3.20	
* 6 Perylene-d12	264	13.795	13.800	-0.005	90	494804	3.20	
\$ 9 Nitrobenzene-d5	82	5.782	5.787	-0.005	89	636637	9.90	
\$ 10 2-Fluorobiphenyl	172	7.285	7.280	0.005	99	1197534	8.05	
\$ 12 Terphenyl-d14	244	10.376	10.376	0.000	97	679855	6.37	
58 Naphthalene	128	6.396	6.400	-0.004	99	97869	0.3557	
127 Phenanthrene	178	9.073	9.073	0.000	52	6516	0.0310	

Reagents:

SM_HIVOLISTD_00211 Amount Added: 10.00 Units: uL Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-2.D

Injection Date: 05-Sep-2018 08:29:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: 500-150867-A-2-A

Lab Sample ID: 500-150867-2

Worklist Smp#: 30

Client ID: G1-01

Injection Vol: 5.0 ul

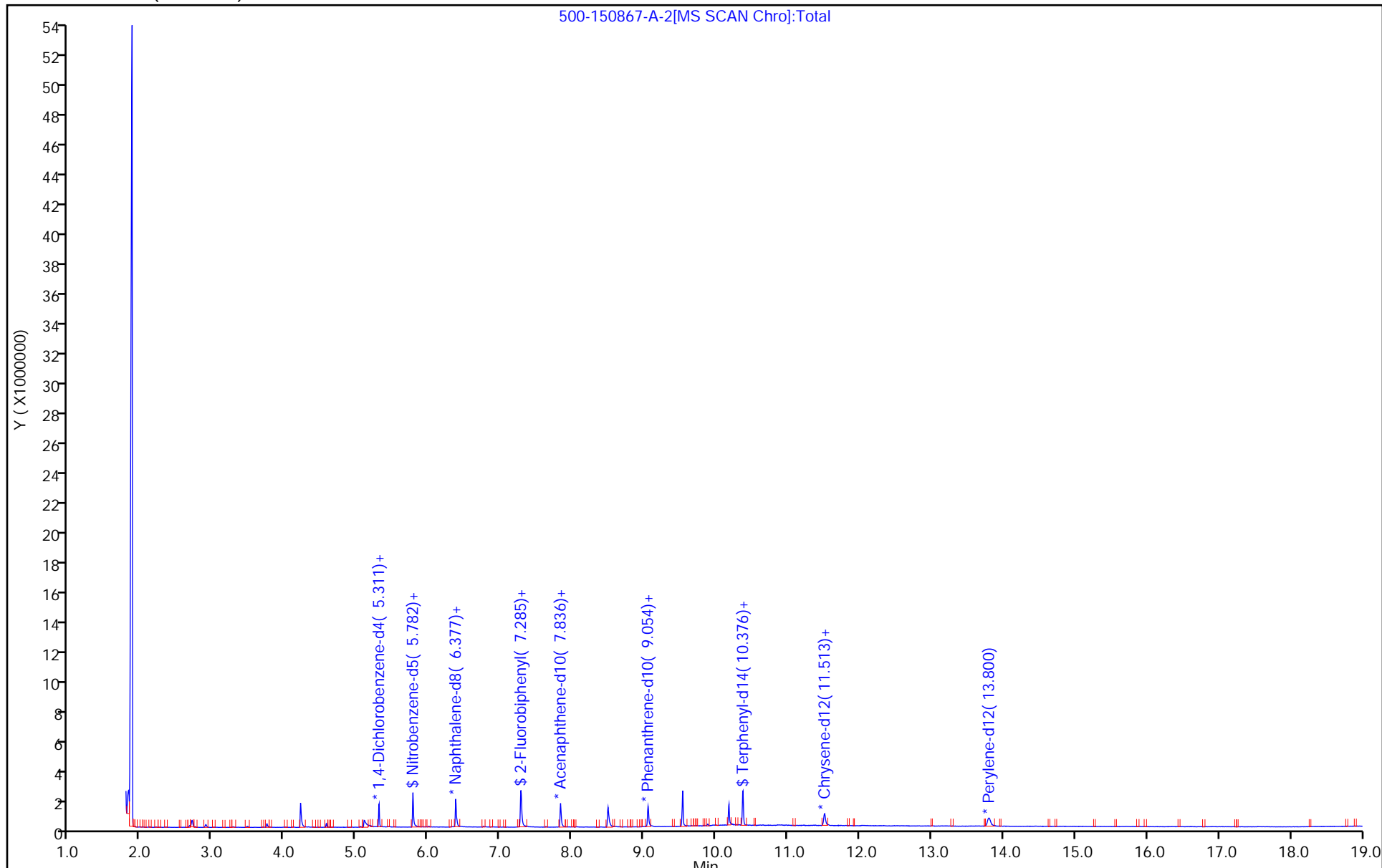
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-2.D
 Lims ID: 500-150867-A-2-A
 Client ID: G1-01
 Sample Type: Client
 Inject. Date: 05-Sep-2018 08:29:30 ALS Bottle#: 27 Worklist Smp#: 30
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-2-A
 Misc. Info.: 500-0054817-030
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 08:17:37 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: rynkarg

Date: 05-Sep-2018 09:17:30

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	0.0	0	0.00
\$ 8 Phenol-d5	0.0	0	0.00
\$ 9 Nitrobenzene-d5	10.0	9.90	99.01
\$ 10 2-Fluorobiphenyl	10.0	8.05	80.46
\$ 11 2,4,6-Tribromophenol	0.0	0	0.00
\$ 12 Terphenyl-d14	10.0	6.37	63.66

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-2.D

Injection Date: 05-Sep-2018 08:29:30

Instrument ID: CMS01

Lims ID: 500-150867-A-2-A

Lab Sample ID: 500-150867-2

Client ID: G1-01

Operator ID: AD

ALS Bottle#: 27 Worklist Smp#: 30

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

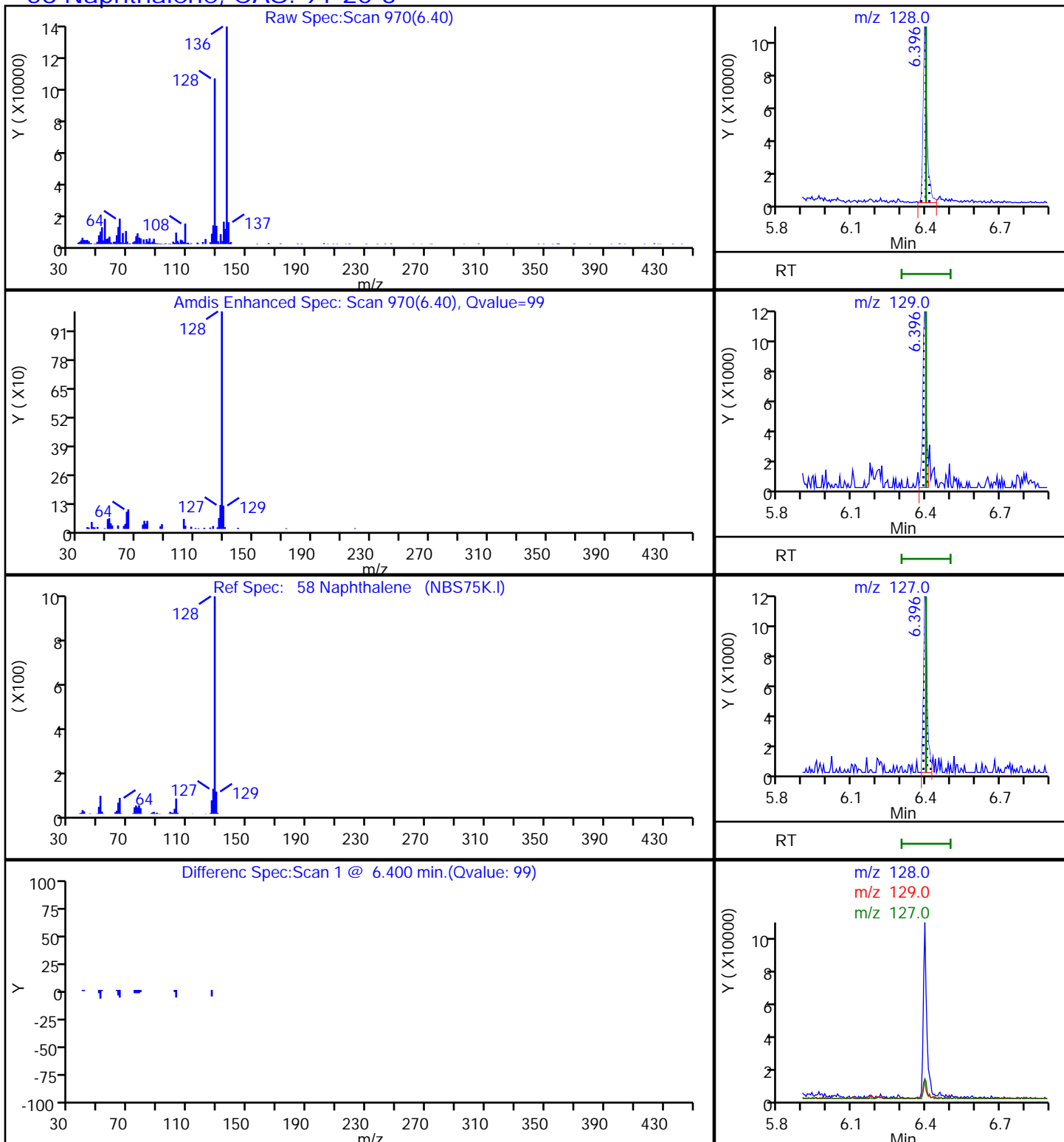
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

58 Naphthalene, CAS: 91-20-3



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: G2-01 Lab Sample ID: 500-150867-3
 Matrix: Water Lab File ID: 500-150867-A-3.D
 Analysis Method: 625 Date Collected: 08/31/2018 15:35
 Extract. Method: 625 Date Extracted: 09/04/2018 07:56
 Sample wt/vol: 249.1(mL) Date Analyzed: 09/05/2018 08:57
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 5(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448229 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
120-12-7	Anthracene	<0.15		0.80	0.15
50-32-8	Benzo[a]pyrene	<0.061		0.80	0.061
206-44-0	Fluoranthene	<0.16		0.80	0.16
86-73-7	Fluorene	<0.13		0.80	0.13
91-20-3	Naphthalene	2.9		0.80	0.12
85-01-8	Phenanthrene	<0.17		0.80	0.17
129-00-0	Pyrene	<0.18		0.80	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		28-110
1718-51-0	Terphenyl-d14	62		20-133
321-60-8	2-Fluorobiphenyl	71		31-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-3.D
 Lims ID: 500-150867-A-3-A
 Client ID: G2-01
 Sample Type: Client
 Inject. Date: 05-Sep-2018 08:57:30 ALS Bottle#: 28 Worklist Smp#: 31
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-3-A
 Misc. Info.: 500-0054817-031
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 09:19:03 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: rynkarg

Date: 05-Sep-2018 09:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	95	222113	3.20	
* 2 Naphthalene-d8	136	6.381	6.381	0.000	98	1006872	3.20	
* 3 Acenaphthene-d10	164	7.841	7.832	0.009	97	433622	3.20	
* 4 Phenanthrene-d10	188	9.059	9.054	0.005	98	653628	3.20	
* 5 Chrysene-d12	240	11.517	11.513	0.004	96	481373	3.20	
* 6 Perylene-d12	264	13.795	13.800	-0.005	91	499271	3.20	
\$ 9 Nitrobenzene-d5	82	5.782	5.787	-0.005	88	571740	8.70	
\$ 10 2-Fluorobiphenyl	172	7.290	7.280	0.010	99	1138561	7.13	
\$ 12 Terphenyl-d14	244	10.376	10.376	0.000	97	678411	6.16	
58 Naphthalene	128	6.396	6.400	-0.004	97	200215	0.7120	

Reagents:

SM_HIVOLISTD_00211

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-3.D

Injection Date: 05-Sep-2018 08:57:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: 500-150867-A-3-A

Lab Sample ID: 500-150867-3

Worklist Smp#: 31

Client ID: G2-01

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

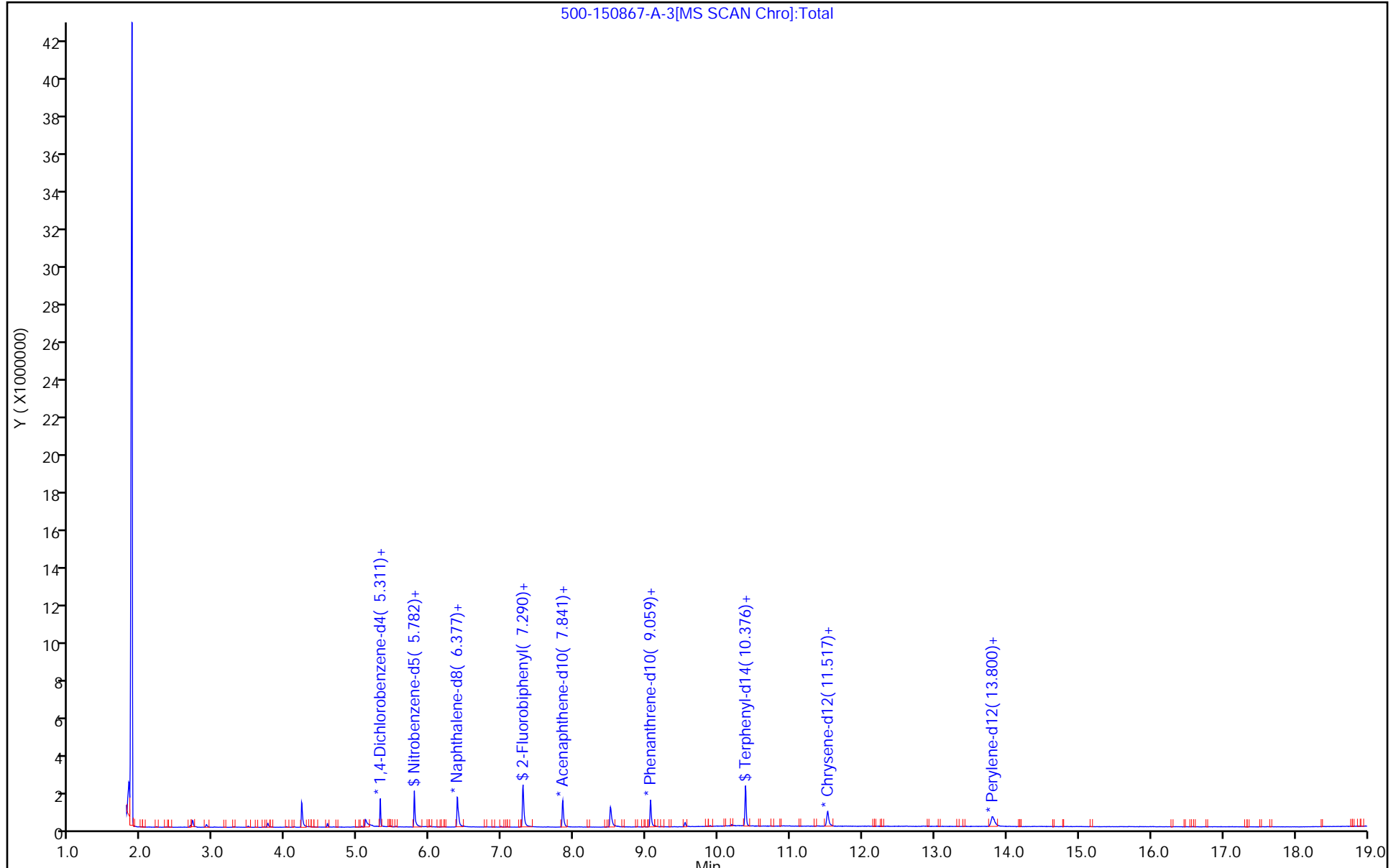
ALS Bottle#: 28

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

500-150867-A-3[MS SCAN Chro]:Total



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-3.D
 Lims ID: 500-150867-A-3-A
 Client ID: G2-01
 Sample Type: Client
 Inject. Date: 05-Sep-2018 08:57:30 ALS Bottle#: 28 Worklist Smp#: 31
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-3-A
 Misc. Info.: 500-0054817-031
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 09:19:03 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: rynkarg

Date: 05-Sep-2018 09:18:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	0.0	0	0.00
\$ 8 Phenol-d5	0.0	0	0.00
\$ 9 Nitrobenzene-d5	10.0	8.70	86.99
\$ 10 2-Fluorobiphenyl	10.0	7.13	71.34
\$ 11 2,4,6-Tribromophenol	0.0	0	0.00
\$ 12 Terphenyl-d14	10.0	6.16	61.58

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\500-150867-A-3.D

Injection Date: 05-Sep-2018 08:57:30

Instrument ID: CMS01

Lims ID: 500-150867-A-3-A

Lab Sample ID: 500-150867-3

Client ID: G2-01

Operator ID: AD

ALS Bottle#: 28

Worklist Smp#: 31

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

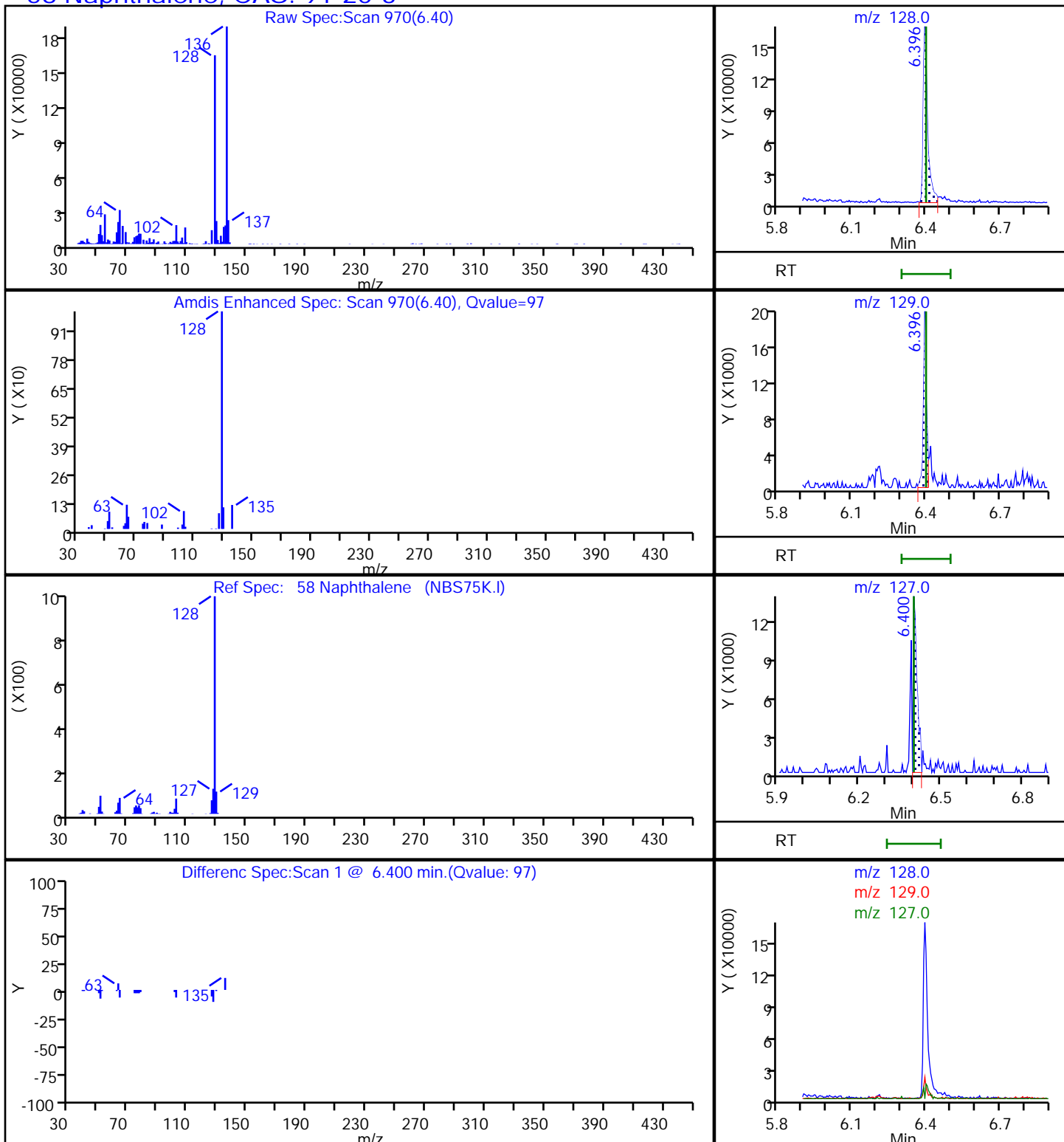
Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

58 Naphthalene, CAS: 91-20-3



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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-441637/3	ic02.D
Level 2	IC 500-441637/4	IC05.D
Level 3	IC 500-441637/5	ic1.D
Level 4	IC 500-441637/2	ic2A.D
Level 5	IC 500-441637/6	ic5.D
Level 6	IC 500-441637/7	ic10.D
Level 7	IC 500-441637/8	ic20.D
Level 8	ICIS 500-441637/9	icisA.D
Level 9	IC 500-441637/10	ic50.D
Level 10	IC 500-441637/11	ic60.D
Level 11	IC 500-441637/12	ic70.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	LVL 9	LVL 10												
1,4-Dioxane	0.3732 0.4343	0.4111	0.3938	0.4199	0.3328 0.4230	Ave	0.3983			0.0100	8.9		35.0				
N-Nitrosodimethylamine	0.6608 0.7454	0.6884	0.6777	0.6866	0.6217 0.7218	Ave	0.6861			0.0100	5.8		35.0				
Pyridine	1.1122 1.0926	1.2085	1.1376	1.1803	0.9150 1.0823	Ave	1.1041			0.0100	8.6		35.0				
Aniline	1.6042 1.5790	1.6419	1.5519	1.5540	1.4690 1.5803	Ave	1.5686			0.0100	3.4		35.0				
Bis(2-chloroethyl)ether	0.9711 0.9362	0.9997	0.9261	0.8907 0.9163	0.9656 0.9469	Ave	0.9441			0.0100	3.6		35.0				
n-Decane	1.1553 1.3596	1.2507	1.1538 1.2335	1.0564 1.2553	1.1176 1.3299	Ave	1.2124			0.0100	8.2		35.0				
1,3-Dichlorobenzene	1.5099 1.4362	1.6014	1.4697	1.3774 1.4283	1.4726 1.4460	Ave	1.4677			0.0100	4.5		35.0				
2-Chlorophenol	1.2827 1.3571	1.3347	1.2810	1.2933	1.2601 1.3427	Ave	1.3074			0.0100	2.8		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

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	LVL 9	LVL 10												
1,4-Dichlorobenzene	1.5180 1.3926	1.5405	1.4439	1.4732 1.4355	1.4515 1.4082	Ave		1.4579		0.0100	3.5		35.0				
Phenol	1.4388 1.4664	1.4701	1.4210	1.4264	1.2936 1.4733	Ave		1.4271		0.0100	4.4		35.0				
1,2-Dichlorobenzene	1.4758 1.4003	1.4946	1.3878	1.3965 1.3766	1.4482 1.4095	Ave		1.4237		0.0100	3.1		35.0				
Benzyl alcohol	++++ 0.6912	0.5477	0.5872	0.6381	++++ 0.6614	Ave		0.6251		0.0100	9.2		35.0				
2,2'-oxybis[1-chloropropane]	1.7733 2.1491	1.9119	1.8996	1.6063 1.9590	1.7231 2.0879	Ave		1.8888		0.0100	9.7		35.0				
N-Nitrosodi-n-propylamine	0.6574 0.6359	0.6023 0.6539	0.5800 0.6115	0.6627 0.6018	0.6630 0.6306	Ave		0.6299		0.0500	4.7		35.0				
Hexachloroethane	0.5670 0.5371	0.5816	0.5424	0.5376	0.5359 0.5446	Ave		0.5495		0.0100	3.2		35.0				
2-Methylphenol	0.8794 0.8674	0.9503	0.8766	0.7330 0.8136	0.8961 0.8674	Ave		0.8605		0.0100	7.4		35.0				
Nitrobenzene	0.2617 0.2357	0.2621	0.2394 0.2346	0.2727 0.2320	0.2674 0.2463	Ave		0.2502		0.0100	6.3		35.0				
3 & 4 Methylphenol	1.1496 1.2319	1.2732	1.2174	1.0835 1.1922	1.0981 1.2007	Ave		1.1808		0.0100	5.6		35.0				
Isophorone	0.4220 0.4135	0.4326	0.3895	0.4191 0.3994	0.4032 0.4223	Ave		0.4127		0.0100	3.5		35.0				
2-Nitrophenol	0.1815 0.1832	0.1917	0.1735	0.1776	0.1666 0.1874	Ave		0.1802		0.0100	4.7		35.0				
Bis(2-chloroethoxy)methane	0.3069 0.2824	0.3131	0.2794	0.3128 0.2796	0.2992 0.2912	Ave		0.2956		0.0100	4.9		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

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	LVL 9	LVL 10												
2,4-Dimethylphenol	0.2745 ++++	0.2960	0.2713	0.2666	0.2503 ++++	Ave		0.2718		0.0100	6.1		35.0				
1,2,4-Trichlorobenzene	0.3125 0.2914	0.3278	0.2855	0.3141 0.2900	0.2986 0.3050	Ave		0.3031		0.0100	4.8		35.0				
Naphthalene	0.9314 0.8119	0.9722	0.9551 0.8511	0.9215 0.8211	0.9290 0.8504	Ave		0.8937		0.0100	6.7		35.0				
Benzoic acid	0.1008 0.0965	0.1047	0.0926	0.0982	0.1011 0.1008	Ave		0.0993		0.0100	3.9		35.0				
2,4-Dichlorophenol	0.2738 0.2807	0.2895	0.2674	0.2695	0.2415 0.2898	Ave		0.2732		0.0100	6.1		35.0				
4-Chloroaniline	0.3979 0.3704	0.4160	0.3668	0.3742	0.3787 0.3857	Ave		0.3843		0.0100	4.5		35.0				
Hexachlorobutadiene	0.1693 0.1545	0.1757	0.1554	0.1595 0.1522	0.1647 0.1595	Ave		0.1613		0.0100	5.0		35.0				
2,6-Dichlorophenol	0.2977 0.2460	0.3055	0.2684	0.2526	0.2808 0.2599	Ave		0.2730		0.0500	8.3		35.0				
2-Methylnaphthalene	0.6290 0.5607	0.6537	0.6630 0.5798	0.6251 0.5684	0.6096 0.5950	Ave		0.6094		0.0100	6.0		35.0				
1-Methylnaphthalene	0.6007 0.7204	0.6184	0.5723 0.5645	0.6371 0.7552	0.5968 0.7660	Ave		0.6479		0.0500	12.1		35.0				
4-Chloro-3-methylphenol	0.1856 0.1954	0.2064	0.1910	0.1980	0.2084 0.2040	Ave		0.1984		0.0100	4.2		35.0				
Hexachlorocyclopentadiene	0.2762 0.3414	0.3245	0.3145	0.3334	0.2484 0.3417	Ave		0.3115		0.0500	11.5		35.0				
1,2,4,5-Tetrachlorobenzene	0.5867 0.5526	0.6077	0.5687	0.5634	0.5762 0.5741	Ave		0.5756		0.0100	3.1		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

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	LVL 9	LVL 10												
2,4,6-Trichlorophenol	0.3733 0.3838	0.3870	0.3742	0.3868	0.3538 0.3957	Ave		0.3792		0.0100	3.6		35.0				
2-Chloronaphthalene	1.2434 1.1708	1.2604	1.1657	1.1643 1.1668	1.2303 1.2004	Ave		1.2003		0.0100	3.3		35.0				
2-Nitroaniline	0.4289 0.4267	0.4322	0.4054	0.4051	0.3998 0.4290	Ave		0.4182		0.0100	3.3		35.0				
2,4,5-Trichlorophenol	0.4011 0.4196	0.4289	0.3882	0.4075	0.3740 0.4137	Ave		0.4047		0.0100	4.7		35.0				
Dimethyl phthalate	1.2602 1.2821	1.2921	1.2238	1.1966 1.2453	1.2878 1.2946	Ave		1.2603		0.0100	2.9		35.0				
2,6-Dinitrotoluene	0.2782 0.2944	0.1547 0.2981	0.2406 0.2864	0.2446 0.2876	0.2813 0.2998	Ave		0.2666		0.0100	16.6		35.0				
Acenaphthylene	1.7153 1.6121	1.7593	1.5702 1.6461	1.6359 1.6048	1.7499 1.6437	Ave		1.6597		0.0100	4.0		35.0				
3-Nitroaniline	0.3185 0.3400	0.3388	0.3185	0.3241	0.3109 0.3502	Ave		0.3287		0.0100	4.4		35.0				
Acenaphthene	1.1542 1.0778	1.1751	1.1575 1.0822	1.1657 1.1002	1.1790 1.1211	Ave		1.1347		0.0100	3.5		35.0				
2,4-Dinitrophenol	0.1172 0.1778	0.1372	0.1368	++++ 0.1672	++++ 0.1684	Ave		0.1508		0.0500	15.8		35.0				
2,4-Dinitrotoluene	0.3616 0.3583	0.3826	0.3127 0.3543	0.3418 0.3559	0.3602 0.3679	Ave		0.3550		0.0100	5.4		35.0				
Dibenzofuran	1.6803 1.4948	1.7043	1.5322	1.6427 1.5056	1.6529 1.5432	Ave		1.5945		0.0100	5.3		35.0				
Diethyl phthalate	1.1504 1.0035	1.1575	1.0459	1.1336 1.0104	1.1557 1.0328	Ave		1.0862		0.0100	6.4		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

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	LVL 9	LVL 10												
2,3,4,6-Tetrachlorophenol	0.2755 0.2810	0.2823	0.2631	0.2750	0.2502 0.2861	Ave		0.2733		0.0500	4.6		35.0				
4-Chlorophenyl phenyl ether	0.6092 0.5513	0.6022	0.5579	0.5567	0.6033 0.5631	Ave		0.5777		0.0100	4.5		35.0				
Fluorene	1.3218 1.1943	1.2923	1.2559 1.2006	1.2880 1.1934	1.3205 1.2218	Ave		1.2543		0.0100	4.3		35.0				
4,6-Dinitro-2-methylphenol	0.1033 0.1191	0.1165	0.1128	0.1139	0.0867 0.1241	Ave		0.1109		0.0100	11.2		35.0				
4-Nitroaniline	0.3210 0.3308	0.3387	0.3131	0.3190	0.3106 0.3347	Ave		0.3240		0.0100	3.4		35.0				
4-Nitrophenol	0.1052 0.1318	0.1158	0.1061	0.1277	0.0936 0.1325	Ave		0.1161		0.0500	13.0		35.0				
N-Nitrosodiphenylamine	0.5649 0.4998	0.5640	0.5041 0.4970	0.5131 0.4878	0.5453 0.5144	Ave		0.5211		0.0100	5.6		35.0				
1,2-Diphenylhydrazine	0.9672 0.9253	0.9819	0.9134	0.9387	0.9711 0.9446	Ave		0.9489		0.0100	2.7		35.0				
4-Bromophenyl phenyl ether	0.2150 0.1972	0.2128	0.1947	0.1921	0.2053 0.2035	Ave		0.2029		0.0100	4.3		35.0				
Hexachlorobenzene	0.2336 0.2186	0.2515 0.2337	0.2462 0.2170	0.2201 0.2133	0.2237 0.2274	Ave		0.2285		0.0100	5.6		35.0				
n-Octadecane	0.3097 0.3364	0.3240	0.3097	0.2960 0.3121	0.2913 0.3395	Ave		0.3148		0.0100	5.5		35.0				
Pentachlorophenol	0.0607 0.1081	0.0832	0.0839	0.0999	+++++ 0.1038	Ave		0.0899		0.0100	19.6		35.0				
Phenanthrene	1.0862 0.9953	1.1076	1.1557 0.9899	1.0796 0.9774	1.0601 1.0293	Ave		1.0535		0.0100	5.7		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

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	LVL 9	LVL 10												
Anthracene	1.1134 0.9992	1.1407	1.0595 1.0400	1.1039 1.0084	1.0872 1.0481	Ave		1.0667		0.0100	4.5		35.0				
Carbazole	1.0384 0.9001	1.0200	0.9287	0.9786 0.9072	0.9425 0.9553	Ave		0.9589		0.0100	5.3		35.0				
Di-n-butyl phthalate	1.1774 1.0774	1.1814	1.0781	1.0967 1.0445	1.1259 1.1229	Ave		1.1131		0.0100	4.4		35.0				
Fluoranthene	1.1979 1.0880	1.2199	1.0409 1.0806	1.0926 1.0689	1.1741 1.1287	Ave		1.1213		0.0100	5.6		35.0				
Benzidine	0.4333 0.6224	0.5165	0.5435	0.5777	0.3511 0.6406	Ave		0.5264		0.0100	19.7		35.0				
Pyrene	1.2957 1.1995	1.3074	1.1704 1.1738	1.2345 1.1677	1.2510 1.2256	Ave		1.2250		0.0100	4.3		35.0				
Butyl benzyl phthalate	0.5415 0.5650	0.5667	0.5343	0.5197 0.5366	0.5222 0.5705	Ave		0.5446		0.0100	3.7		35.0				
3,3'-Dichlorobenzidine	0.3685 0.4079	0.4122	0.3883	0.3935	0.3631 0.4251	Ave		0.3941		0.0100	5.8		35.0				
Benzo[a]anthracene	1.4159 1.1490 1.1704	1.1462 1.2041	1.1735 1.1077	1.1434 1.0965	1.1516 1.1666	Ave		1.1750		0.0100	7.3		35.0				
Bis(2-ethylhexyl) phthalate	0.7582 0.7682	0.7834	0.7215	0.6895 0.7254	0.7376 0.7683	Ave		0.7440		0.0100	4.2		35.0				
Chrysene	1.2845 1.1230 1.0732	1.2151 1.1463	1.1528 1.0380	1.1666 1.0443	1.1367 1.1142	Ave		1.1359		0.0100	6.4		35.0				
Di-n-octyl phthalate	1.2462 1.3573	1.3283	1.2667	1.3022	1.1353 1.3839	Ave		1.2886		0.0100	6.4		35.0				
Benzo[b]fluoranthene	0.9937 1.0301 1.1360	0.9560 1.1259	0.9587 0.9968	0.8993 0.9914	0.9458 1.1373	Ave		1.0155		0.0100	8.1		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

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	LVL 9	LVL 10												
Benzo[k]fluoranthene	1.0327 1.0859 0.8745	1.1350 1.1163	0.9878 0.9512	1.0252 0.9337	1.0263 0.9480	Ave		1.0106		0.0100	8.0		35.0				
Benzo[a]pyrene	1.0146 0.9783 1.0152	0.8852 1.0622	0.9323 0.9823	0.9036 0.9648	0.9517 1.0508	Ave		0.9765		0.0100	5.8		35.0				
Indeno[1,2,3-cd]pyrene	0.9424 1.1214 1.1809	0.8357 1.2383	0.7382 1.1505	1.0920 1.1253	1.0950 1.2226	Ave		1.0675		0.0100	15.1		35.0				
Dibenz(a,h)anthracene	0.8614 0.9186 0.9766	0.7230 1.0169	0.7603 0.9509	0.8415 0.9391	0.9070 1.0124	Ave		0.9007		0.0100	10.7		35.0				
Benzo[g,h,i]perylene	0.9720 1.0047	1.0773	0.8773 0.9873	0.9424 0.9724	0.9583 1.0438	Ave		0.9817		0.0100	5.9		35.0				
2-Fluorophenol	0.8492 1.1191	0.9337	0.6804 1.0277	0.8003 1.0907	0.7808 1.1199	Ave		0.9335		0.0100	17.6		35.0				
Phenol-d5	1.1660 1.1850	1.2227	0.8933 1.1771	0.8885 1.1740	1.0505 1.1769	Ave		1.1038		0.0100	11.7		35.0				
Nitrobenzene-d5	0.2175 0.2122	0.2217	0.1689 0.2078	0.2125 0.2117	0.2062 0.2214	Ave		0.2089		0.0100	7.6		35.0				
2-Fluorobiphenyl	1.2064 1.1307	1.2151	1.1252 1.1713	1.1829 1.1422	1.2568 1.1692	Ave		1.1778		0.0100	3.7		35.0				
2,4,6-Tribromophenol	0.1675 0.1809	0.1678	0.1403 0.1677	0.1464 0.1702	0.1581 0.1838	Ave		0.1647		0.0100	8.7		35.0				
Terphenyl-d14	0.7400 0.7270	0.7625	0.7673 0.7027	0.7126 0.6909	0.7450 0.7435	Ave		0.7324		0.0100	3.6		35.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-441637/3	ic02.D
Level 2	IC 500-441637/4	IC05.D
Level 3	IC 500-441637/5	ic1.D
Level 4	IC 500-441637/2	ic2A.D
Level 5	IC 500-441637/6	ic5.D
Level 6	IC 500-441637/7	ic10.D
Level 7	IC 500-441637/8	ic20.D
Level 8	ICIS 500-441637/9	icisA.D
Level 9	IC 500-441637/10	ic50.D
Level 10	IC 500-441637/11	ic60.D
Level 11	IC 500-441637/12	ic70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 7	LVL 8	LVL 9	LVL 10	
1,4-Dioxane	DCBd 4	Ave	75812 588868	158552	285122	425006	33272 494611	2.00 14.0	4.00	8.00	10.0	1.00 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	134228 1010516	265484	490743	694975	62151 844012	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyridine	DCBd 4	Ave	451868 2962564	932111	1647541	2389346	182925 2531062	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Aniline	DCBd 4	Ave	325874 2140797	633188	1123745	1572877	146847 1847904	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	197269 1269204	385531	670594	36251 927472	96521 1107178	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
n-Decane	DCBd 4	Ave	234669 1843334	482313	21238 893162	42996 1270503	111718 1555091	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
1,3-Dichlorobenzene	DCBd 4	Ave	306708 1947116	617569	1064232	56058 1445658	147200 1690842	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	260560 1839967	514693	927565	1309034	125959 1570075	2.00 14.0	4.00	8.00	10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dichlorobenzene	DCBd 4	Ave	308363 1887971	594061	1045499	59958 1452932	145099 1646594	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Phenol	DCBd 4	Ave	292267 1988137	566918	1028961	1443757	129314 1722770	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	299773 1898471	576391	1004931	56838 1393361	144763 1648197	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	++++ 937082	211200	425164	645824	++++ 773375	++++ 14.0	4.00	8.00	10.0	++++ 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	360221 2913602	737282	1375514	65377 1982822	172247 2441419	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	133534 862143	5783 252172	10676 442768	26972 609104	66273 737365	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	115172 728195	224295	392756	544168	53569 636812	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	178639 1175951	366476	634715	29834 823484	89578 1014257	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Nitrobenzene	NPT	Ave	214436 1328922	402895	18585 705521	44471 966465	109857 1157676	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
3 & 4 Methylphenol	DCBd 4	Ave	233529 1670221	490983	881523	44097 1206697	109766 1404027	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Isophorone	NPT	Ave	345813 2331632	664983	1171254	68338 1663708	165640 1985052	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitrophenol	NPT	Ave	148725 1032899	294714	521685	739645	68444 880938	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	251498 1592633	481325	840003	51004 1164620	122922 1368618	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2,4-Dimethylphenol	NPT	Ave	224952 ++++	455049	815755	1110769	102850 ++++	2.00 ++++	4.00	8.00	10.0	1.00 ++++
1,2,4-Trichlorobenzene	NPT	Ave	256111 1643354	503845	858394	51222 1207921	122680 1433787	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	763223 4578123	1494415	74147 2558969	150280 3420455	381659 3997252	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Ave	165180 1088765	321990	556938	818397	83071 947614	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dichlorophenol	NPT	Ave	224404 1583008	445088	803869	1122850	99227 1362096	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	326044 2088781	639525	1102964	1558847	155579 1812965	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Ave	138735 871270	270114	467118	26012 634158	67651 749664	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	243942 1387426	469579	807106	1052374	115359 1221801	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Methylnaphthalene	NPT	Ave	515432 3162090	1004862	51469 1743220	101941 2367991	250452 2796547	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	492288 4062359	950654	44432 1697318	103902 3145943	245174 3600402	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	152100 1101824	317296	574333	824665	85597 958842	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorocyclopentadiene	ANT	Ave	113628 926343	251983	458999	671143	50402 790596	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	241388 1499444	471855	830010	1134073	116885 1328092	2.00 14.0	4.00	8.00	10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2,4,6-Trichlorophenol	ANT	Ave	153573 1041412	300522	546187	778660	71768 915400	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	511552 3176935	978642	1701240	97494 2348735	249595 2777048	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	176447 1157816	335609	591699	815460	81101 992426	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Ave	165000 1138721	333027	566491	820380	75874 957034	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	518472 3478998	1003228	1786051	100194 2506789	261242 2994897	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Ave	114455 798889	3195 231437	9724 417909	20485 578920	57063 693512	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	705696 4374490	1366026	63454 2402329	136985 3230566	354999 3802517	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
3-Nitroaniline	ANT	Ave	131018 922545	263092	464846	652465	63075 810228	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Acenaphthene	ANT	Ave	474860 2924711	912449	46775 1579388	97609 2214647	239169 2593480	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4-Dinitrophenol	ANT	Ave	96409 965172	213118	399366	+++++ 673188	+++++ 779221	4.00 28.0	8.00	16.0	+++++ 20.0	+++++ 24.0
2,4-Dinitrotoluene	ANT	Ave	148774 972327	297041	12637 517085	28618 716431	73069 851042	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	691292 4056357	1323353	2236205	137548 3030727	335314 3569943	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	473288 2723137	898727	1526376	94919 2034044	234454 2389333	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2,3,4,6-Tetrachlorophenol	ANT	Ave	113339 762481	219181	384023	553497	50747 661803	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Ave	250626 1495871	467614	814239	1120549	122393 1302674	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Fluorene	ANT	Ave	543823 3240779	1003424	50751 1752206	107854 2402289	267893 2826555	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4,6-Dinitro-2-methylphenol	PHN	Ave	142891 1138362	304553	568889	816172	61124 997746	4.00 28.0	8.00	16.0	20.0	2.00 24.0
4-Nitroaniline	ANT	Ave	132062 897586	262959	456977	642173	63013 774296	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Nitrophenol	ANT	Ave	86554 715096	179868	309657	514191	37961 613007	4.00 28.0	8.00	16.0	20.0	2.00 24.0
N-Nitrosodiphenylamine	PHN	Ave	390823 2389621	737259	34384 1253789	74513 1748358	192197 2068143	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
1,2-Diphenylhydrazine	ANT	Ave	397939 2510855	762415	1333030	1889594	197007 2185309	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Ave	148723 942676	278122	491251	688698	72382 818269	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Ave	161601 1045034	8693 305533	16796 547391	31964 764400	78842 914069	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
n-Octadecane	PHN	Ave	214308 1608336	423528	781273	42996 1118488	102680 1365053	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Pentachlorophenol	PHN	Ave	83986 1033575	217578	423114	715930	+++++ 834350	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
Phenanthrene	PHN	Ave	751525 4758334	1447887	78835 2497149	156795 3503317	373681 4138114	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Anthracene	PHN	Ave	770345 4776843	1491130	72270 2623663	160328 3614187	383210 4213877	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	718439 4303124	1333440	2342686	142132 3251653	332234 3840928	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	814594 5150883	1544420	2719759	159285 3743727	396877 4514750	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Ave	828791 5201422	1594701	71000 2725902	158682 3831313	413870 4537807	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzidine	CRY	Ave	290211 2804763	644051	1311854	1981058	116901 2448864	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyrene	CRY	Ave	867799 5405315	1630122	77295 2833073	169241 4004175	416524 4685064	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	362685 2546230	706637	1289533	71252 1840090	173874 2180819	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
3,3'-Dichlorobenzidine	CRY	Ave	246802 1838205	513987	937109	1349541	120909 1624934	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	19037 769560 5274206	38029 1501290	77498 2673470	156746 3760147	383436 4459679	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	507855 3461736	976804	1741384	94519 2487488	245579 2936941	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	17271 752158 4836529	40317 1429328	76134 2505112	159934 3581253	378484 4259411	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	862254 6488702	1736431	3195439	4667294	400172 5564069	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	13939 736374 5728210	32743 1482336	66097 2572182	128588 3744911	331830 4771513	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzo[k]fluoranthene	PRY	Ave	14486 776241 4409743	38872 1469721	68108 2454349	146579 3527009	360079 3977481	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	14232 699357 5119217	30317 1398442	64279 2534739	129204 3644617	333907 4408567	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	13220 801616 5954524	28622 1630307	50895 2968662	156142 4250972	384178 5129224	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Ave	12084 656682 4924499	24762 1338805	52422 2453717	120313 3547494	318214 4247650	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[g,h,i]perylene	PRY	Ave	694799 5065841	1418384	60489 2547509	134741 3673475	336229 4379039	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol	DCBd 4	Ave	172496 1517294	360052	12525 744166	32572 1103914	78046 1309542	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5	DCBd 4	Ave	236862 1606587	471499	16443 852330	36161 1188233	105010 1376221	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Nitrobenzene-d5	NPT	Ave	178275 1196802	340756	13109 624914	34652 881767	84727 1040757	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl	ANT	Ave	496353 3068221	943484	45472 1709495	99052 2299341	254967 2704888	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol	ANT	Ave	68893 490879	130255	5671 244677	12261 342561	32066 425223	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14	CRY	Ave	495644 3276290	950757	50675 1695904	97696 2369273	248065 2842249	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-441637/3	ic02.D
Level 2	IC 500-441637/4	IC05.D
Level 3	IC 500-441637/5	ic1.D
Level 4	IC 500-441637/2	ic2A.D
Level 5	IC 500-441637/6	ic5.D
Level 6	IC 500-441637/7	ic10.D
Level 7	IC 500-441637/8	ic20.D
Level 8	ICIS 500-441637/9	icisA.D
Level 9	IC 500-441637/10	ic50.D
Level 10	IC 500-441637/11	ic60.D
Level 11	IC 500-441637/12	ic70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
1,4-Dioxane	3.2	-1.1	5.4	6.2	-16.4 9.0	-6.3	30	30	30	30	50 30	30
N-Nitrosodimethylamine	0.3	-1.2	0.1	5.2	-9.4 8.6	-3.7	30	30	30	30	50 30	30
Pyridine	9.5	3.0	6.9	-2.0	-17.1 -1.0	0.7	30	30	30	30	50 30	30
Aniline	4.7	-1.1	-0.9	0.7	-6.4 0.7	2.3	30	30	30	30	50 30	30
Bis(2-chloroethyl)ether	5.9	-1.9	-2.9	0.3	-5.7 0.3	2.9	30	30	30	30	50 30	30
n-Decane	3.2	1.7	-4.8 3.5	-12.9 9.7	-7.8 12.1	-4.7	30	30	50 30	30	30 30	30
1,3-Dichlorobenzene	9.1	0.1	-2.7	-6.2 -1.5	0.3 -2.1	2.9	30	30	30	30	50 30	30
2-Chlorophenol	2.1	-2.0	-1.1	2.7	-3.6 3.8	-1.9	30	30	30	30	50 30	30
1,4-Dichlorobenzene	5.7	-1.0	-1.5	1.0 -3.4	-0.4 -4.5	4.1	30	30	30	30	50 30	30
Phenol	3.0	-0.4	0.0	3.2	-9.4 2.8	0.8	30	30	30	30	50 30	30
1,2-Dichlorobenzene	5.0	-2.5	-3.3	-1.9 -1.0	1.7 -1.6	3.7	30	30	30	30	50 30	30
Benzyl alcohol	-12.4	-6.1	2.1	5.8	+++++ 10.6	+++++	50	30	30	30	30	30
2,2'-oxybis[1-chloropropane]	1.2	0.6	3.7	-15.0 10.5	-8.8 13.8	-6.1	30	30	30	30	50 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
N-Nitrosodi-n-propylamine	3.8	-4.4	-7.9	5.2	5.3	4.4		50	30	30	30	30
Hexachloroethane	5.9	-2.9	-4.5	0.1	1.0	3.2	30	30	30	30	50	30
2-Methylphenol	10.4	1.9	-5.4	-14.8	4.1	2.2	30	30	30	50	30	30
Nitrobenzene	4.8	-6.2	-4.3	9.0	6.9	4.6	30	30	50	30	30	30
3 & 4 Methylphenol	7.8	3.1	-7.3	-1.6	-5.8	-2.6	30	30	30	50	30	30
Isophorone	4.8	-5.6	-3.2	-8.2	4.3	2.3	30	30	30	50	30	30
2-Nitrophenol	6.4	-3.7	-1.5	1.5	-2.3	0.7	30	30	30	50	30	30
Bis(2-chloroethoxy)methane	5.9	-5.5	-5.4	4.0	1.6	3.8	30	30	30	50	30	30
2,4-Dimethylphenol	8.9	-0.2	-1.9	5.8	1.2	1.0	30	30	30	50	30	30
1,2,4-Trichlorobenzene	8.1	-5.8	-4.3	-1.5	-4.4	3.1	30	30	30	50	30	30
Naphthalene	8.8	-4.8	6.9	3.1	3.9	4.2	30	30	50	30	30	30
Benzoic acid	5.5	-6.7	-8.1	-4.8	-9.2	1.5	30	30	30	30	50	30
2,4-Dichlorophenol	6.0	-2.1	-1.3	1.6	-2.7	0.2	30	30	30	30	50	30
4-Chloroaniline	8.3	-4.5	-2.6	6.1	-11.6	3.5	30	30	30	30	50	30
Hexachlorobutadiene	8.9	-3.7	-5.7	0.4	-3.6	4.9	30	30	30	30	50	30
2,6-Dichlorophenol	11.9	-1.7	-7.5	-1.1	-4.2	9.0	30	30	30	30	50	30
2-Methylnaphthalene	7.3	-4.9	8.8	-4.8	2.9	3.2	30	30	50	30	30	30
1-Methylnaphthalene	-4.6	-12.9	-6.7	-2.4	0.0	-7.3	30	30	30	30	30	30
4-Chloro-3-methylphenol	4.0	-3.7	-11.7	-1.7	-7.9	-6.4	30	30	50	30	30	30
Hexachlorocyclopentadiene	4.2	1.0	16.6	18.2	11.2	-11.3	30	30	30	30	50	30
1,2,4,5-Tetrachlorobenzene	5.6	-1.2	-2.1	-0.3	-4.0	1.9	30	30	30	30	50	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
2,4,6-Trichlorophenol	2.1	-1.3	2.0	4.3	-6.7	-1.6	30	30	30	30	50	30
2-Chloronaphthalene	5.0	-2.9	-2.8	-3.0	2.5	3.6	30	30	30	50	30	30
2-Nitroaniline	3.4	-3.0	-3.1	2.6	-4.4	2.6	30	30	30	30	50	30
2,4,5-Trichlorophenol	6.0	-4.1	0.7	2.2	-7.6	-0.9	30	30	30	30	50	30
Dimethyl phthalate	2.5	-2.9	-1.2	-5.1	2.2	0.0	30	30	30	50	30	30
2,6-Dinitrotoluene	11.8	-42.0	-9.7	-8.2	5.5	4.4	30	50	30	30	30	30
Acenaphthylene	6.0	-0.8	-3.3	-5.4	-1.4	5.4	30	30	50	30	30	30
3-Nitroaniline	3.1	-3.1	-1.4	-1.0	-2.9	3.3	30	30	30	30	50	30
Acenaphthene	3.6	-4.6	2.0	2.7	-5.4	1.7	30	30	50	30	30	30
2,4-Dinitrophenol	-9.0	-9.3	10.9	-1.2	3.4	-3.1	30	30	30	30	50	30
2,4-Dinitrotoluene	7.8	-0.2	-11.9	11.7	17.9	-22.3	30	30	50	30	30	30
Dibenzofuran	6.9	-3.9	0.2	3.6	0.9	1.9	30	30	30	30	50	30
Diethyl phthalate	6.6	-3.9	-5.6	3.0	3.7	5.4	30	30	30	30	50	30
2,3,4,6-Tetrachlorophenol	3.3	-3.7	-7.0	-3.2	-6.2	5.9	30	30	30	30	50	30
4-Chlorophenyl phenyl ether	4.3	-3.7	0.6	4.4	-7.6	0.8	30	30	30	30	50	30
Fluorene	3.0	-3.4	-3.6	-2.5	4.4	5.5	30	30	30	30	50	30
4,6-Dinitro-2-methylphenol	3.0	-4.3	0.1	2.7	5.3	5.4	30	30	50	30	30	30
4-Nitroaniline	5.0	1.7	-4.9	-2.6	-4.8	-6.9	30	30	30	30	50	30
4-Nitrophenol	4.5	-3.4	2.7	11.9	7.4	-0.9	30	30	30	30	50	30
N-Nitrosodiphenylamine	-0.2	-8.6	-1.5	3.3	2.1	-9.4	30	30	30	30	50	30
1,2-Diphenylhydrazine	8.2	-4.6	10.0	14.1	13.5	8.4	30	30	50	30	30	30
	3.5	-3.7	-3.3	-1.6	4.6	8.4	30	30	30	30	50	30
			-6.4	-1.3	-4.1				30	30	30	30
			-1.1	-0.4	-2.5	1.9			30	30	50	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
4-Bromophenyl phenyl ether	4.8	-4.0	-5.3	0.3	1.2	5.9	30	30	30	30	50	30
Hexachlorobenzene	2.3	10.1	7.8	-3.7	-2.1	2.2	30	50	30	30	30	30
n-Octadecane	2.9	-5.0	-6.7	-0.5	-4.3							
Pentachlorophenol				-6.0	-7.5	-1.6	30	30	30	50	30	30
Phenanthrene				7.8	6.9							
Anthracene	-7.4	-6.7	11.1	15.4	+++	-32.5	30	30	30	30	30	50
Carbazole	5.1	-6.0	9.7	2.5	0.6	3.1	30	30	50	30	30	30
Di-n-butyl phthalate	6.9	-2.5	-0.7	3.5	1.9	4.4	30	30	30	30	30	30
Fluoranthene	6.4	-3.1	-5.5	-1.7	-6.3							
Benzidine	6.1	-3.1	-6.2	0.9	-3.2	5.8	30	30	30	50	30	30
Pyrene	8.8	-3.6	-4.7	0.7	-3.0	6.8	30	30	30	30	30	30
Butyl benzyl phthalate	-1.9	3.2	9.7	21.7	-33.3	-17.7	30	30	30	30	50	30
3,3'-Dichlorobenzidine	6.7	-4.2	-4.7	0.0	2.1	5.8	30	30	50	30	30	30
Benzo[a]anthracene	4.1	-1.9	-1.5	-4.6	-4.1	-0.6	30	30	30	50	30	30
Bis(2-ethylhexyl) phthalate	4.6	-1.5	-0.1	7.9	3.5	-6.5	30	30	30	30	50	30
Chrysene	20.5	-2.5	-0.1	-2.7	-2.0	-2.2	50	30	30	30	30	30
Di-n-octyl phthalate	2.5	-5.7	-6.7	-0.7	-0.4		30	30	30	30	30	
Benzo[b]fluoranthene	5.3	-3.0	-2.5	-7.3	-0.9	1.9	30	30	30	50	30	30
Benzo[k]fluoranthene	13.1	7.0	1.5	2.7	0.1	-1.1	50	30	30	30	30	30
Indeno[1,2,3-cd]pyrene	0.9	-8.6	-8.1	-1.9	-5.5		30	30	30	30	30	
	3.1	-1.7	1.1	7.4	5.3	-3.3	30	30	30	30	50	30
	-2.2	-5.9	-5.6	-11.4	-6.9	1.4	50	30	30	30	30	30
	10.9	-1.8	-2.4	12.0	11.9		30	30	30	30	30	
	2.2	12.3	-2.3	1.4	1.6	7.5	50	30	30	30	30	30
	10.5	-5.9	-7.6	-6.2	-13.5		30	30	30	30	30	
	3.9	-9.3	-4.5	-7.5	-2.5	0.2	50	30	30	30	30	30
	8.8	0.6	-1.2	7.6	4.0		30	30	30	30	30	
	-11.7	-21.7	-30.8 *	2.3	2.6	5.0	50	30	30	30	30	30
	16.0	7.8	5.4	14.5	10.6		30	30	30	30	30	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 441637

SDG No.: _____

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2018 16:38 Calibration End Date: 07/19/2018 21:16 Calibration ID: 29279

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Dibenz(a,h)anthracene	-4.4	-19.7	-15.6	-6.6	0.7	2.0	50	30	30	30	30	30
	12.9	5.6	4.3	12.4	8.4		30	30	30	30	30	
Benzo[g,h,i]perylene			-10.6	-4.0	-2.4	-1.0			50	30	30	30
	9.7	0.6	-0.9	6.3	2.3		30	30	30	30	30	
2-Fluorophenol			-27.1	-14.3	-16.4	-9.0			50	30	30	30
	0.0	10.1	16.8	20.0	19.9		30	30	30	30	30	
Phenol-d5			-19.1	-19.5	-4.8	5.6			50	30	30	30
	10.8	6.6	6.4	6.6	7.4		30	30	30	30	30	
Nitrobenzene-d5			-19.2	1.7	-1.3	4.1			50	30	30	30
	6.1	-0.5	1.3	6.0	1.6		30	30	30	30	30	
2-Fluorobiphenyl			-4.5	0.4	6.7	2.4			50	30	30	30
	3.2	-0.5	-3.0	-0.7	-4.0		30	30	30	30	30	
2,4,6-Tribromophenol			-14.8	-11.1	-4.0	1.7			50	30	30	30
	1.8	1.8	3.3	11.6	9.8		30	30	30	30	30	
Terphenyl-d14			4.8	-2.7	1.7	1.0			50	30	30	30
	4.1	-4.1	-5.7	1.5	-0.7		30	30	30	30	30	

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic2A.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jul-2018 17:06:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-002
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115

Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:30:21 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 20-Jul-2018 14:51:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	325596	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1304609	3.20	3.20	
* 3 Acenaphthene-d10	164	8.199	8.203	-0.004	96	669881	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	98	1161876	3.20	3.20	
* 5 Chrysene-d12	240	12.136	12.150	-0.014	98	1096731	3.20	3.20	
* 6 Perylene-d12	264	14.833	14.837	-0.004	94	1143859	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.012	4.979	0.033	93	32572	0.4000	0.3429	
\$ 8 Phenol-d5	99	5.778	5.735	0.043	95	36161	0.4000	0.3220	a
\$ 9 Nitrobenzene-d5	82	6.149	6.154	-0.005	93	34652	0.4000	0.4069	
\$ 10 2-Fluorobiphenyl	172	7.633	7.637	-0.004	99	99052	0.4000	0.4017	
\$ 11 2,4,6-Tribromophenol	330	8.893	8.898	-0.005	74	12261	0.4000	0.3556	
\$ 12 Terphenyl-d14	244	10.819	10.824	-0.005	95	97696	0.4000	0.3892	
28 Bis(2-chloroethyl)ether	93	5.474	5.474	0.000	76	36251	0.4000	0.3774	
30 n-Decane	43	5.559	5.564	-0.005	83	42996	0.4000	0.3485	
31 1,3-Dichlorobenzene	146	5.645	5.650	-0.005	98	56058	0.4000	0.3754	
33 1,4-Dichlorobenzene	146	5.707	5.707	0.000	97	59958	0.4000	0.4042	
37 1,2-Dichlorobenzene	146	5.835	5.835	0.000	96	56838	0.4000	0.3924	
39 2,2'-oxybis[1-chloropropan	45	5.916	5.916	0.000	91	65377	0.4000	0.3402	
44 Acetophenone	105	6.021	6.030	-0.009	89	55658	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.021	6.035	-0.014	81	26972	0.4000	0.4208	
38 2-Methylphenol	107	6.144	6.120	0.024	93	29834	0.4000	0.3408	
46 Nitrobenzene	77	6.163	6.173	-0.010	94	44471	0.4000	0.4360	
42 3 & 4 Methylphenol	108	6.287	6.249	0.038	89	44097	0.4000	0.3670	
48 Isophorone	82	6.358	6.372	-0.014	97	68338	0.4000	0.4062	
52 Bis(2-chloroethoxy)methane	93	6.534	6.539	-0.005	81	51004	0.4000	0.4233	
56 1,2,4-Trichlorobenzene	180	6.696	6.701	-0.005	92	51222	0.4000	0.4145	
58 Naphthalene	128	6.758	6.762	-0.004	98	150280	0.4000	0.4124	
63 Hexachlorobutadiene	225	6.867	6.867	0.000	93	26012	0.4000	0.3954	
68 2-Methylnaphthalene	142	7.333	7.338	-0.005	96	101941	0.4000	0.4103	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
70 1-Methylnaphthalene	142	7.414	7.419	-0.005	98	103902	0.4000	0.3933	
80 2-Chloronaphthalene	162	7.737	7.742	-0.005	94	97494	0.4000	0.3880	
82 Dimethyl phthalate	163	7.966	7.980	-0.014	96	100194	0.4000	0.3798	
84 2,6-Dinitrotoluene	165	8.023	8.032	-0.009	87	20485	0.4000	0.3671	
86 Acenaphthylene	152	8.080	8.084	-0.004	98	136985	0.4000	0.3943	
90 Acenaphthene	153	8.227	8.232	-0.005	92	97609	0.4000	0.4109	
91 2,4-Dinitrophenol	184	8.289	8.294	-0.005	75	9530	0.8000	0.3019	
95 2,4-Dinitrotoluene	165	8.360	8.370	-0.010	88	28618	0.4000	0.3851	
97 Dibenzofuran	168	8.370	8.375	-0.004	97	137548	0.4000	0.4121	
100 Diethyl phthalate	149	8.551	8.555	-0.005	96	94919	0.4000	0.4174	
104 Fluorene	166	8.655	8.660	-0.005	95	107854	0.4000	0.4108	
111 N-Nitrosodiphenylamine	169	8.755	8.760	-0.005	64	74513	0.4000	0.3938	
122 Hexachlorobenzene	284	9.121	9.126	-0.005	95	31964	0.4000	0.3853	
124 n-Octadecane	43	9.321	9.326	-0.005	84	42996	0.4000	0.3761	
127 Phenanthrene	178	9.454	9.464	-0.010	96	156795	0.4000	0.4099	
128 Anthracene	178	9.497	9.506	-0.009	99	160328	0.4000	0.4140	
129 Carbazole	167	9.659	9.663	-0.004	96	142132	0.4000	0.4082	
133 Di-n-butyl phthalate	149	9.906	9.906	0.000	98	159285	0.4000	0.3941	
136 Fluoranthene	202	10.457	10.467	-0.010	98	158682	0.4000	0.3898	
141 Pyrene	202	10.676	10.681	-0.005	97	169241	0.4000	0.4031	
147 Butyl benzyl phthalate	149	11.366	11.371	-0.005	90	71252	0.4000	0.3818	
151 Benzo[a]anthracene	228	12.117	12.131	-0.014	98	156746	0.4000	0.3892	
150 Bis(2-ethylhexyl) phthalat	149	12.174	12.179	-0.005	74	94519	0.4000	0.3707	
152 Chrysene	228	12.174	12.188	-0.014	97	159934	0.4000	0.4108	
157 Benzo[b]fluoranthene	252	14.005	14.038	-0.033	97	128588	0.4000	0.3542	
158 Benzo[k]fluoranthene	252	14.057	14.091	-0.034	96	146579	0.4000	0.4058	
160 Benzo[a]pyrene	252	14.680	14.723	-0.043	95	129204	0.4000	0.3702	
163 Indeno[1,2,3-cd]pyrene	276	17.829	17.900	-0.071	94	156142	0.4000	0.4092	
164 Dibenz(a,h)anthracene	278	17.952	18.014	-0.062	94	120313	0.4000	0.3737	
165 Benzo[g,h,i]perylene	276	18.604	18.656	-0.052	95	134741	0.4000	0.3840	
S 170 Total Cresols, TCEQ Defini	1				0			0.7078	
S 171 Methyl Phenols,Total	1				0			0.7078	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL4_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic2A.D

Injection Date: 19-Jul-2018 17:06:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

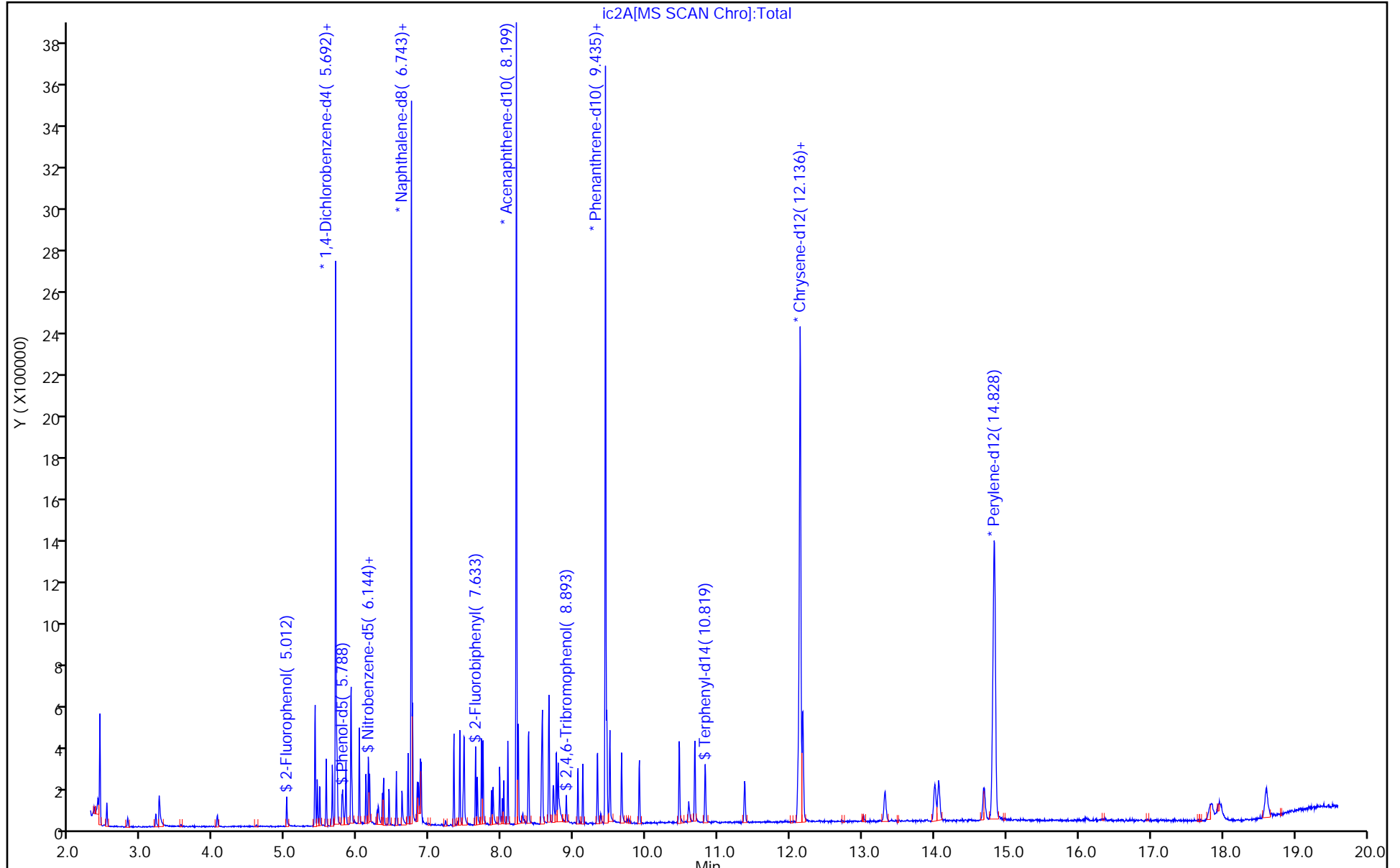
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



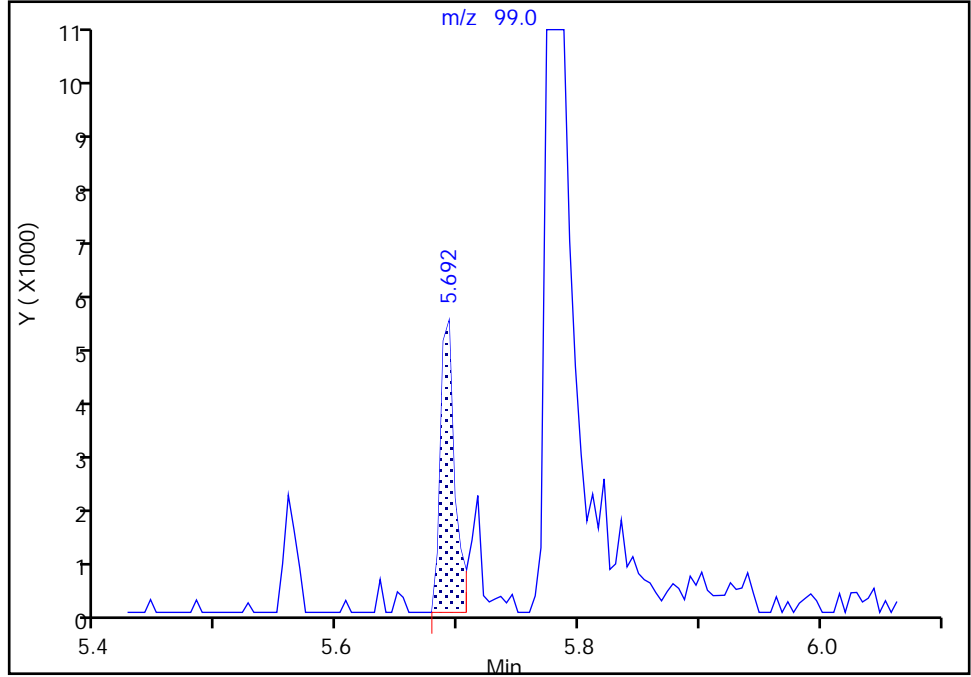
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic2A.D
Injection Date: 19-Jul-2018 17:06:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

\$ 8 Phenol-d5, CAS: 4165-62-2
Signal: 1

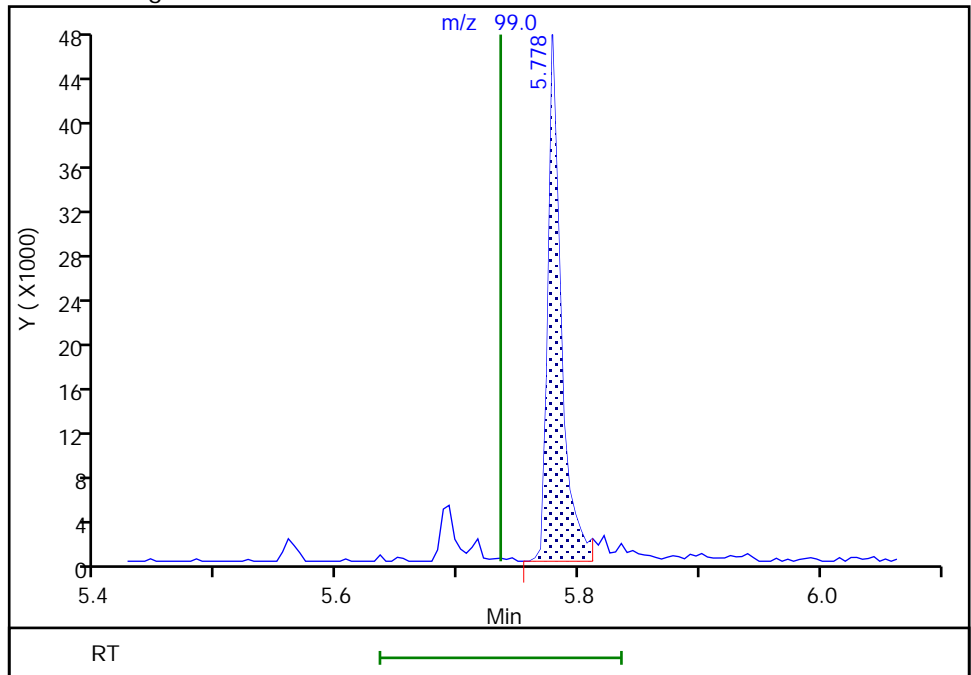
RT: 5.69
Area: 4165
Amount: 0.049357
Amount Units: ug/mL

Processing Integration Results



RT: 5.78
Area: 36161
Amount: 0.321981
Amount Units: ug/mL

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic02.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jul-2018 17:34:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-003
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115

Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:30:31 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: swaneyg Date: 19-Jul-2018 21:20:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	292330	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1211525	3.20	3.20	
* 3 Acenaphthene-d10	164	8.198	8.203	-0.005	96	658905	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	98	1127757	3.20	3.20	
* 5 Chrysene-d12	240	12.136	12.150	-0.014	98	1075622	3.20	3.20	
* 6 Perylene-d12	264	14.828	14.837	-0.009	95	1122207	3.20	3.20	
151 Benzo[a]anthracene	228	12.122	12.131	-0.009	83	19037	0.0400	0.0482	
152 Chrysene	228	12.169	12.188	-0.019	83	17271	0.0400	0.0452	
157 Benzo[b]fluoranthene	252	14.015	14.038	-0.023	92	13939	0.0400	0.0391	
158 Benzo[k]fluoranthene	252	14.072	14.091	-0.019	86	14486	0.0400	0.0409	
160 Benzo[a]pyrene	252	14.685	14.723	-0.038	94	14232	0.0400	0.0416	
163 Indeno[1,2,3-cd]pyrene	276	17.852	17.900	-0.048	74	13220	0.0400	0.0353	
164 Dibenz(a,h)anthracene	278	17.962	18.014	-0.052	20	12084	0.0400	0.0383	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL1_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic02.D

Injection Date: 19-Jul-2018 17:34:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

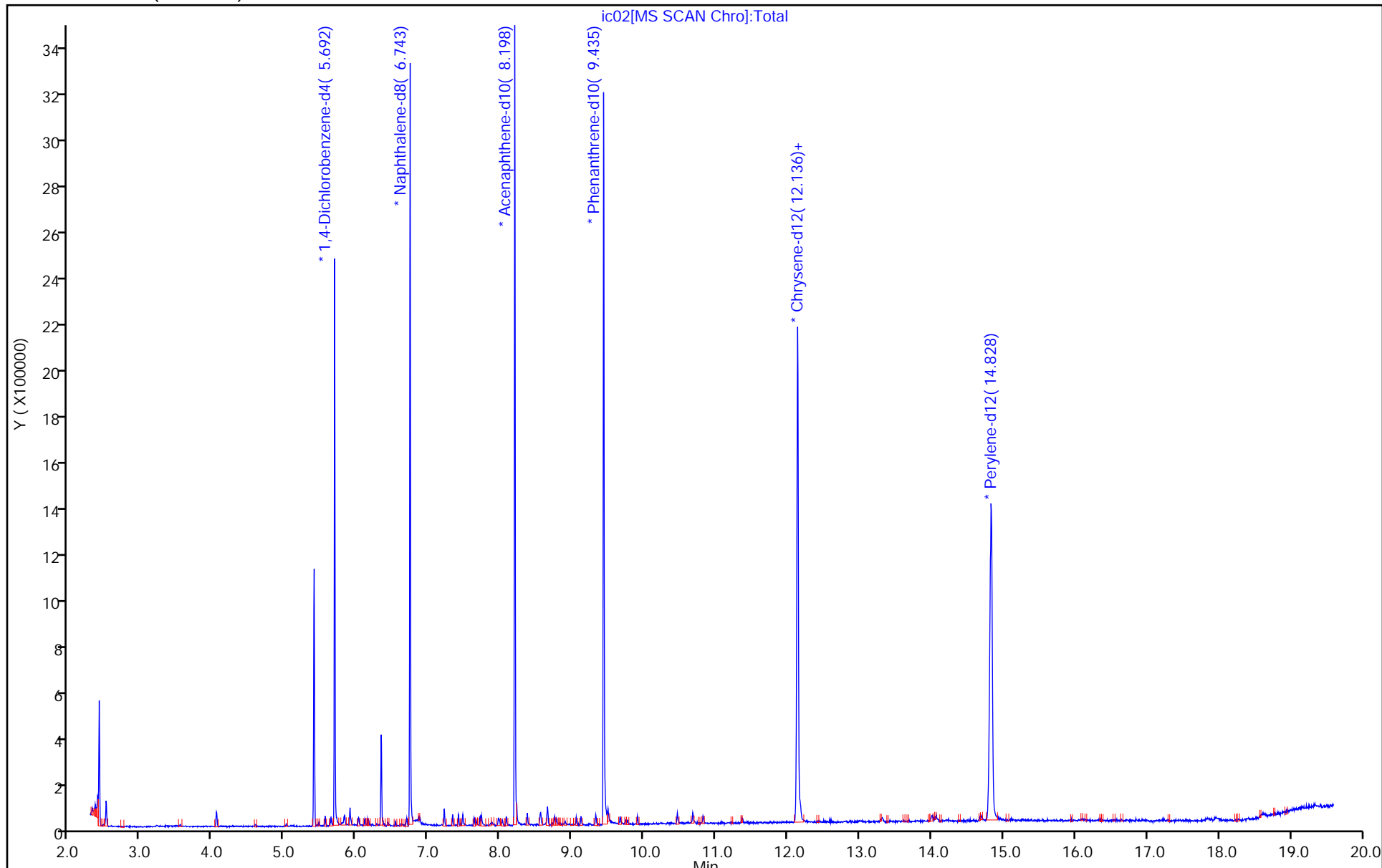
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

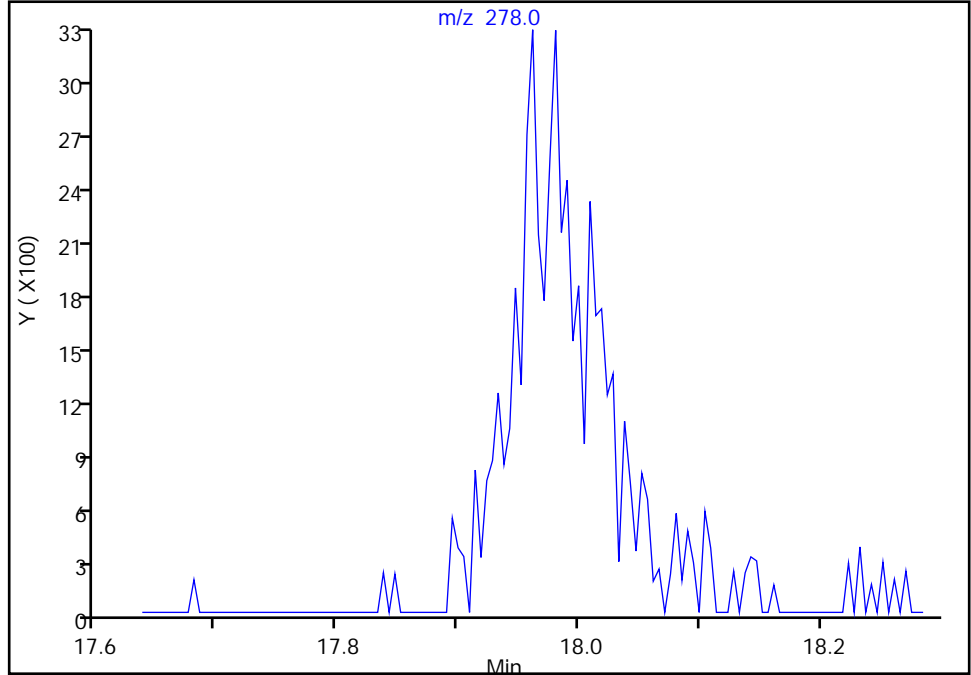
Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic02.D
Injection Date: 19-Jul-2018 17:34:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

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

Signal: 1

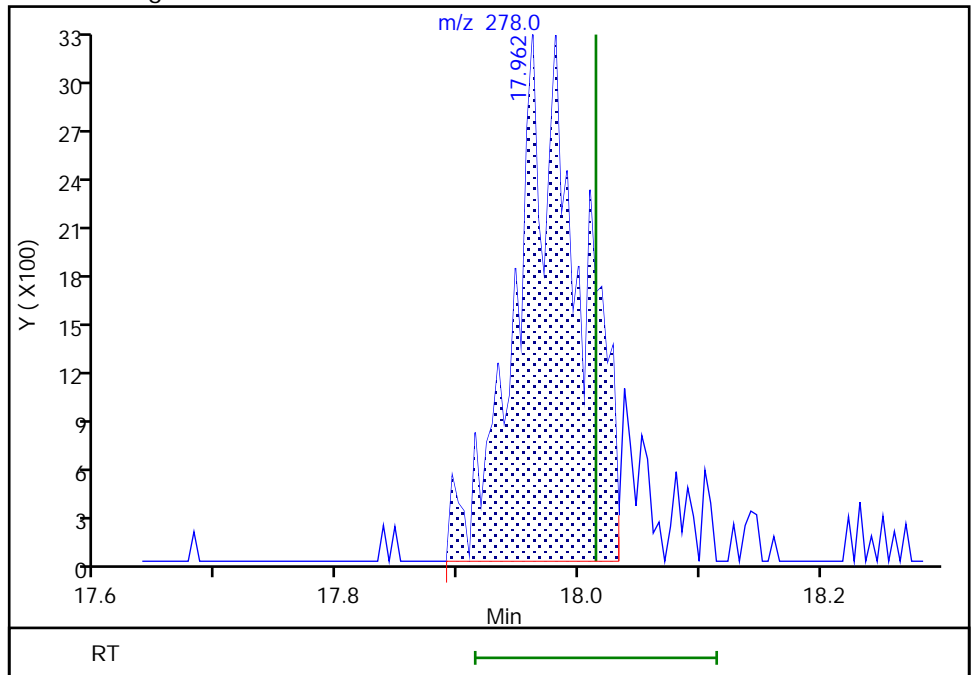
Not Detected
Expected RT: 18.01

Processing Integration Results



Manual Integration Results

RT: 17.96
Area: 12084
Amount: 0.038256
Amount Units: ug/mL



Reviewer: swaneyg, 19-Jul-2018 21:20:01
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\IC05.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Jul-2018 18:01:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-004
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115

Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:30:40 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 20-Jul-2018 15:26:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	307273	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1252449	3.20	3.20	
* 3 Acenaphthene-d10	164	8.199	8.203	-0.004	96	660727	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	98	1106227	3.20	3.20	
* 5 Chrysene-d12	240	12.136	12.150	-0.014	98	1061736	3.20	3.20	
* 6 Perylene-d12	264	14.828	14.837	-0.009	94	1095994	3.20	3.20	
43 N-Nitrosodi-n-propylamine	70	6.021	6.035	-0.014	71	5783	0.1000	0.0956	
84 2,6-Dinitrotoluene	165	8.027	8.032	-0.005	81	3195	0.1000	0.0580	
122 Hexachlorobenzene	284	9.121	9.126	-0.005	93	8693	0.1000	0.1101	
151 Benzo[a]anthracene	228	12.117	12.131	-0.014	94	38029	0.1000	0.0975	
152 Chrysene	228	12.170	12.188	-0.018	97	40317	0.1000	0.1070	
157 Benzo[b]fluoranthene	252	14.000	14.038	-0.038	96	32743	0.1000	0.0941	
158 Benzo[k]fluoranthene	252	14.067	14.091	-0.024	95	38872	0.1000	0.1123	
160 Benzo[a]pyrene	252	14.685	14.723	-0.038	93	30317	0.1000	0.0907	
163 Indeno[1,2,3-cd]pyrene	276	17.857	17.900	-0.043	80	28622	0.1000	0.0783	
164 Dibenz(a,h)anthracene	278	17.962	18.014	-0.052	46	24762	0.1000	0.0803	

Reagents:

SMLst1_5uLL2_00041 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\IC05.D

Injection Date: 19-Jul-2018 18:01:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

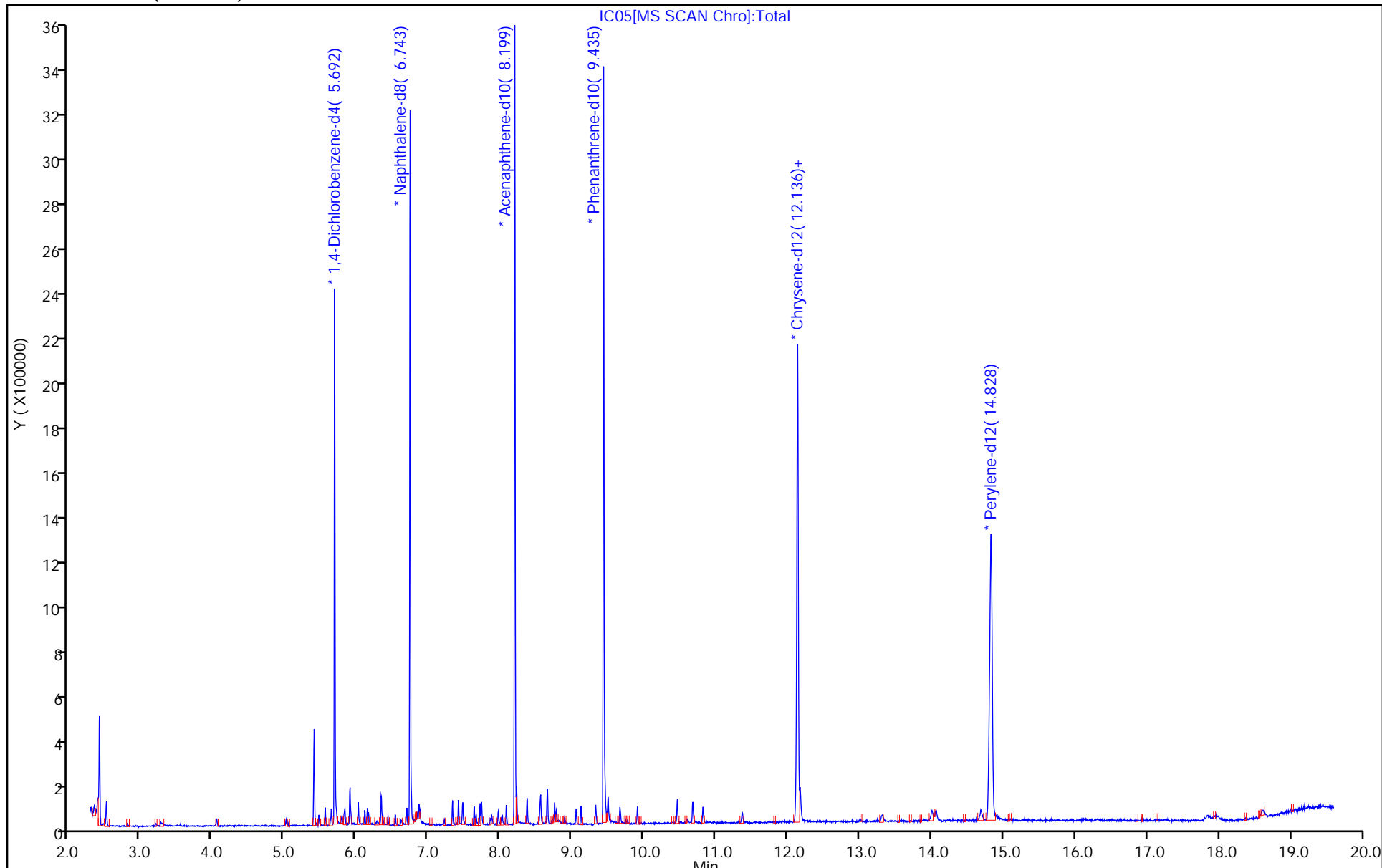
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic1.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Jul-2018 18:30:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-005
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115

Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:30:48 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 20-Jul-2018 14:56:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	294517	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1242139	3.20	3.20	
* 3 Acenaphthene-d10	164	8.199	8.203	-0.004	96	646579	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	99	1091379	3.20	3.20	
* 5 Chrysene-d12	240	12.136	12.150	-0.014	98	1056648	3.20	3.20	
* 6 Perylene-d12	264	14.828	14.837	-0.009	94	1103158	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.017	4.979	0.038	87	12525	0.2000	0.1458	
\$ 8 Phenol-d5	99	5.783	5.735	0.048	95	16443	0.2000	0.1619	a
\$ 9 Nitrobenzene-d5	82	6.149	6.154	-0.005	89	13109	0.2000	0.1617	
\$ 10 2-Fluorobiphenyl	172	7.633	7.637	-0.004	99	45472	0.2000	0.1911	
\$ 11 2,4,6-Tribromophenol	330	8.898	8.898	0.000	70	5671	0.2000	0.1704	
\$ 12 Terphenyl-d14	244	10.819	10.824	-0.005	95	50675	0.2000	0.2095	
30 n-Decane	43	5.564	5.564	0.000	84	21238	0.2000	0.1903	
44 Acetophenone	105	6.021	6.030	-0.009	86	27386	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.021	6.035	-0.014	70	10676	0.2000	0.1842	
46 Nitrobenzene	77	6.163	6.173	-0.010	87	18585	0.2000	0.1914	
58 Naphthalene	128	6.758	6.762	-0.004	99	74147	0.2000	0.2137	
68 2-Methylnaphthalene	142	7.333	7.338	-0.005	98	51469	0.2000	0.2176	
70 1-Methylnaphthalene	142	7.414	7.419	-0.005	96	44432	0.2000	0.1767	
84 2,6-Dinitrotoluene	165	8.023	8.032	-0.009	86	9724	0.2000	0.1805	
86 Acenaphthylene	152	8.080	8.084	-0.004	98	63454	0.2000	0.1892	
90 Acenaphthene	153	8.227	8.232	-0.005	93	46775	0.2000	0.2040	
95 2,4-Dinitrotoluene	165	8.365	8.370	-0.005	89	12637	0.2000	0.1762	
104 Fluorene	166	8.655	8.660	-0.005	94	50751	0.2000	0.2003	
111 N-Nitrosodiphenylamine	169	8.755	8.760	-0.005	62	34384	0.2000	0.1935	
122 Hexachlorobenzene	284	9.121	9.126	-0.005	94	16796	0.2000	0.2155	
127 Phenanthrene	178	9.454	9.464	-0.010	97	78835	0.2000	0.2194	
128 Anthracene	178	9.497	9.506	-0.009	98	72270	0.2000	0.1987	
136 Fluoranthene	202	10.462	10.467	-0.005	98	71000	0.2000	0.1857	

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic1.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
141 Pyrene	202	10.676	10.681	-0.005	96	77295	0.2000	0.1911	
151 Benzo[a]anthracene	228	12.117	12.131	-0.014	97	77498	0.2000	0.1997	
152 Chrysene	228	12.174	12.188	-0.014	97	76134	0.2000	0.2030	
157 Benzo[b]fluoranthene	252	14.010	14.038	-0.028	98	66097	0.2000	0.1888	
158 Benzo[k]fluoranthene	252	14.062	14.091	-0.029	94	68108	0.2000	0.1955	
160 Benzo[a]pyrene	252	14.685	14.723	-0.038	95	64279	0.2000	0.1910	
163 Indeno[1,2,3-cd]pyrene	276	17.838	17.900	-0.062	95	50895	0.2000	0.1383	
164 Dibenz(a,h)anthracene	278	17.962	18.014	-0.052	90	52422	0.2000	0.1688	
165 Benzo[g,h,i]perylene	276	18.613	18.656	-0.043	97	60489	0.2000	0.1787	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL3_00041

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic1.D

Injection Date: 19-Jul-2018 18:30:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul

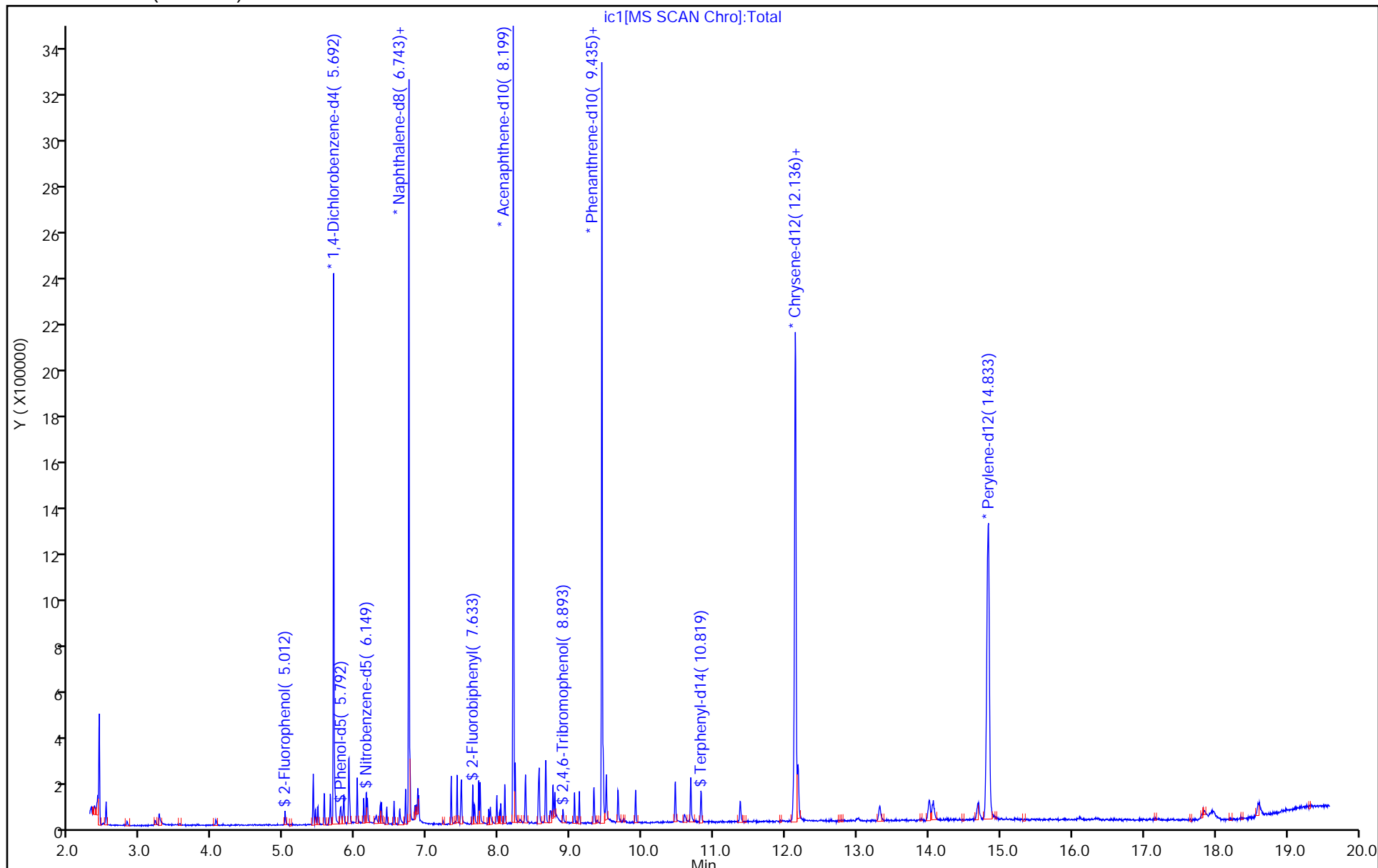
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



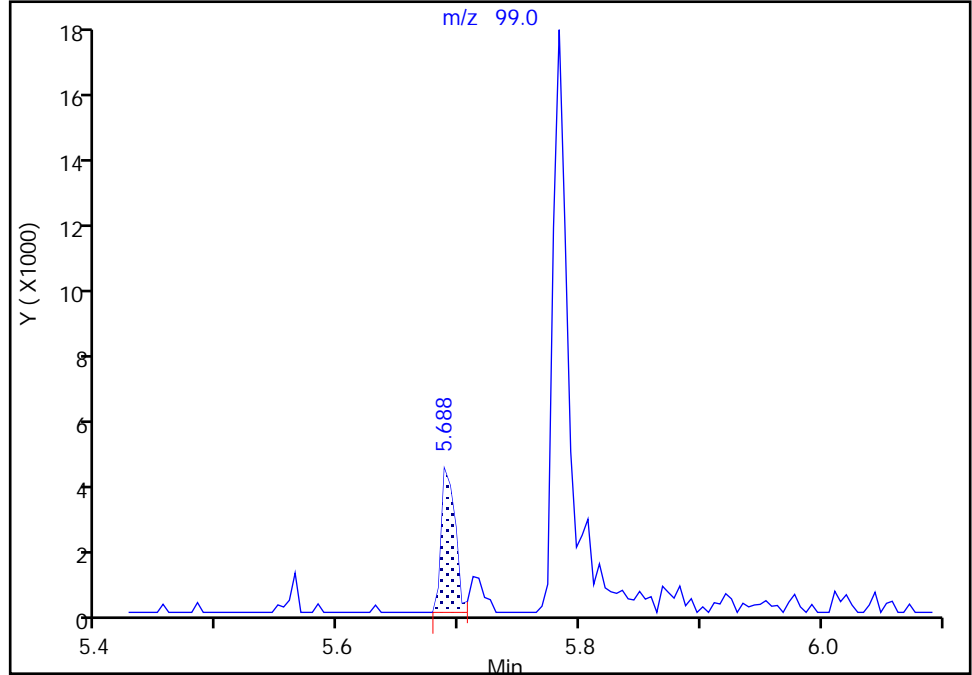
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic1.D
Injection Date: 19-Jul-2018 18:30:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

\$ 8 Phenol-d5, CAS: 4165-62-2
Signal: 1

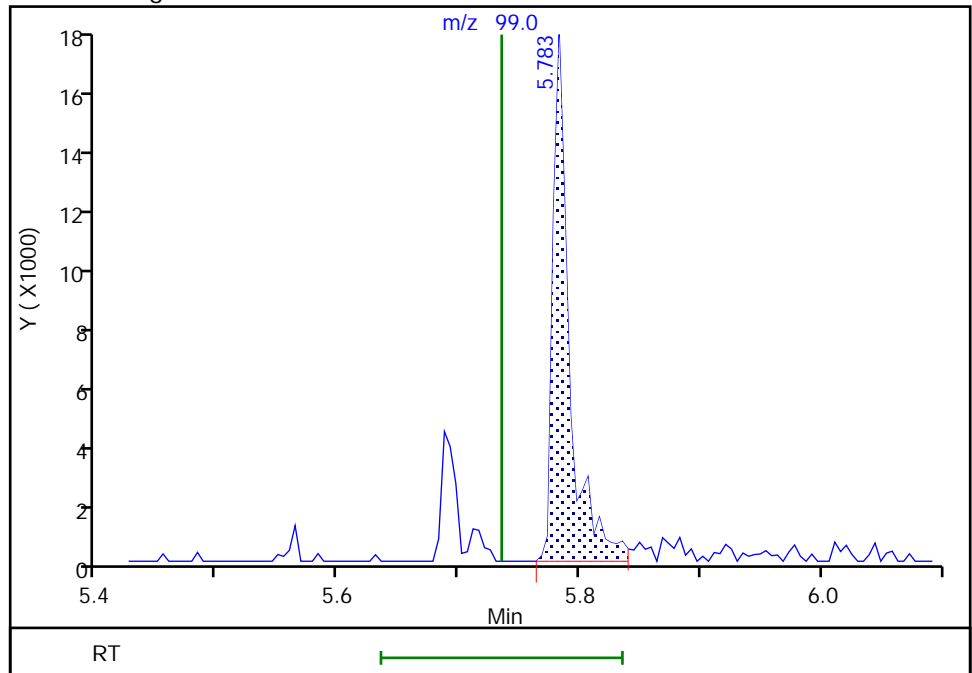
RT: 5.69
Area: 3360
Amount: 0.039825
Amount Units: ug/mL

Processing Integration Results



RT: 5.78
Area: 16443
Amount: 0.161860
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 20-Jul-2018 14:56:53
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic5.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jul-2018 18:57:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-006
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:30:57 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 20-Jul-2018 14:52:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	319880	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1314660	3.20	3.20	
* 3 Acenaphthene-d10	164	8.198	8.203	-0.005	97	649171	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	98	1127963	3.20	3.20	
* 5 Chrysene-d12	240	12.136	12.150	-0.014	96	1065479	3.20	3.20	
* 6 Perylene-d12	264	14.832	14.837	-0.005	96	1122710	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.003	4.979	0.024	96	78046	1.00	0.8363	
\$ 8 Phenol-d5	99	5.768	5.735	0.033	97	105010	1.00	0.9517	a
\$ 9 Nitrobenzene-d5	82	6.149	6.154	-0.005	90	84727	1.00	0.9873	
\$ 10 2-Fluorobiphenyl	172	7.633	7.637	-0.004	99	254967	1.00	1.07	
\$ 11 2,4,6-Tribromophenol	330	8.893	8.898	-0.005	75	32066	1.00	0.9595	
\$ 12 Terphenyl-d14	244	10.819	10.824	-0.005	96	248065	1.00	1.02	
13 1,4-Dioxane	88	2.801	2.801	0.000	89	33272	1.00	0.8356	
14 N-Nitrosodimethylamine	42	3.191	3.205	-0.014	82	62151	1.00	0.9062	
15 Pyridine	79	3.229	3.229	0.000	80	182925	2.00	1.66	
27 Aniline	93	5.435	5.440	-0.005	94	146847	1.00	0.9365	
28 Bis(2-chloroethyl)ether	93	5.469	5.474	-0.005	75	96521	1.00	1.02	
30 n-Decane	43	5.559	5.564	-0.005	84	111718	1.00	0.9218	
31 1,3-Dichlorobenzene	146	5.645	5.650	-0.005	98	147200	1.00	1.00	
29 2-Chlorophenol	128	5.711	5.692	0.019	94	125959	1.00	0.9638	
33 1,4-Dichlorobenzene	146	5.707	5.707	0.000	96	145099	1.00	1.00	
26 Phenol	94	5.778	5.749	0.029	94	129314	1.00	0.9065	
37 1,2-Dichlorobenzene	146	5.835	5.835	0.000	97	144763	1.00	1.02	
36 Benzyl alcohol	108	5.859	5.864	-0.005	90	21472	1.00	0.3436	
40 Indene	116	5.902	5.911	-0.009	91	356600	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.916	5.916	0.000	91	172247	1.00	0.9123	
44 Acetophenone	105	6.020	6.030	-0.010	92	146129	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.020	6.035	-0.015	83	66273	1.00	1.05	
45 Hexachloroethane	117	6.111	6.111	0.000	92	53569	1.00	0.9753	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.139	6.120	0.019	91	89578	1.00	1.04	
46 Nitrobenzene	77	6.163	6.173	-0.010	94	109857	1.00	1.07	a
42 3 & 4 Methylphenol	108	6.277	6.249	0.028	96	109766	1.00	0.9299	
48 Isophorone	82	6.358	6.372	-0.014	97	165640	1.00	0.9770	
50 2-Nitrophenol	139	6.429	6.434	-0.005	93	68444	1.00	0.9245	
52 Bis(2-chloroethoxy)methane	93	6.534	6.539	-0.005	80	122922	1.00	1.01	
51 2,4-Dimethylphenol	122	6.610	6.596	0.014	88	102850	1.00	0.9212	
56 1,2,4-Trichlorobenzene	180	6.696	6.701	-0.005	92	122680	1.00	0.9851	
58 Naphthalene	128	6.758	6.762	-0.004	99	381659	1.00	1.04	
54 Benzoic acid	122	6.762	6.796	-0.034	91	83071	2.00	2.04	a
55 2,4-Dichlorophenol	162	6.838	6.824	0.014	92	99227	1.00	0.8841	
60 4-Chloroaniline	127	6.824	6.829	-0.005	95	155579	1.00	0.9855	
63 Hexachlorobutadiene	225	6.867	6.867	0.000	93	67651	1.00	1.02	
62 2,6-Dichlorophenol	162	6.876	6.872	0.004	93	115359	1.00	1.03	
68 2-Methylnaphthalene	142	7.333	7.338	-0.005	95	250452	1.00	1.00	
70 1-Methylnaphthalene	142	7.414	7.419	-0.005	97	245174	1.00	0.9210	
66 4-Chloro-3-methylphenol	107	7.452	7.438	0.014	87	85597	1.00	1.05	
72 Hexachlorocyclopentadiene	237	7.471	7.471	0.000	94	50402	1.00	0.7977	
73 1,2,4,5-Tetrachlorobenzene	216	7.476	7.480	-0.004	94	116885	1.00	1.00	
74 2,4,6-Trichlorophenol	196	7.656	7.652	0.004	89	71768	1.00	0.9329	
79 1,1'-Biphenyl	154	7.718	7.723	-0.005	96	296685	NC	NC	
80 2-Chloronaphthalene	162	7.737	7.742	-0.005	94	249595	1.00	1.03	
81 2-Nitroaniline	65	7.851	7.856	-0.005	83	81101	1.00	0.9561	
76 2,4,5-Trichlorophenol	196	7.870	7.861	0.009	93	75874	1.00	0.9241	
82 Dimethyl phthalate	163	7.965	7.980	-0.015	95	261242	1.00	1.02	
83 1,3-Dinitrobenzene	168	8.003	8.013	-0.010	84	29419	NC	NC	a
84 2,6-Dinitrotoluene	165	8.023	8.032	-0.009	89	57063	1.00	1.06	
86 Acenaphthylene	152	8.080	8.084	-0.004	98	354999	1.00	1.05	
88 3-Nitroaniline	138	8.194	8.203	-0.009	86	63075	1.00	0.9458	
90 Acenaphthene	153	8.227	8.232	-0.005	92	239169	1.00	1.04	
91 2,4-Dinitrophenol	184	8.284	8.294	-0.010	77	34004	2.00	1.11	
95 2,4-Dinitrotoluene	165	8.360	8.370	-0.010	89	73069	1.00	1.01	
97 Dibenzofuran	168	8.370	8.375	-0.004	97	335314	1.00	1.04	
100 Diethyl phthalate	149	8.550	8.555	-0.005	97	234454	1.00	1.06	
99 2,3,4,6-Tetrachlorophenol	232	8.560	8.565	-0.005	48	50747	1.00	0.9153	
101 Hexadecane	57	8.560	8.565	-0.005	80	210096	NC	NC	
103 4-Chlorophenyl phenyl ethe	204	8.645	8.650	-0.005	93	122393	1.00	1.04	
104 Fluorene	166	8.655	8.660	-0.005	97	267893	1.00	1.05	
109 4,6-Dinitro-2-methylphenol	198	8.707	8.717	-0.010	89	61124	2.00	1.56	
106 4-Nitroaniline	138	8.712	8.726	-0.014	75	63013	1.00	0.9587	
92 4-Nitrophenol	109	8.783	8.745	0.038	87	37961	2.00	1.61	a
98 Diphenylamine	169	8.755	8.760	-0.005	93	192197	NC	NC	
111 N-Nitrosodiphenylamine	169	8.755	8.760	-0.005	62	192197	1.00	1.05	
113 1,2-Diphenylhydrazine	77	8.779	8.783	-0.004	48	197007	1.00	1.02	
119 4-Bromophenyl phenyl ether	248	9.054	9.059	-0.005	66	72382	1.00	1.01	
122 Hexachlorobenzene	284	9.121	9.126	-0.005	96	78842	1.00	0.9789	
124 n-Octadecane	43	9.326	9.326	0.000	83	102680	1.00	0.9252	
125 Pentachlorophenol	266	9.368	9.368	0.000	89	26039	2.00	0.8215	
127 Phenanthrene	178	9.454	9.464	-0.010	98	373681	1.00	1.01	
128 Anthracene	178	9.497	9.506	-0.009	99	383210	1.00	1.02	
129 Carbazole	167	9.658	9.663	-0.005	96	332234	1.00	0.9830	
133 Di-n-butyl phthalate	149	9.906	9.906	0.000	98	396877	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.457	10.467	-0.010	98	413870	1.00	1.05	
138 Benzidine	184	10.591	10.591	0.000	97	116901	1.00	0.6669	
141 Pyrene	202	10.676	10.681	-0.005	96	416524	1.00	1.02	
147 Butyl benzyl phthalate	149	11.366	11.371	-0.005	91	173874	1.00	0.9589	
149 3,3'-Dichlorobenzidine	252	12.108	12.117	-0.009	98	120909	1.00	0.9214	
151 Benzo[a]anthracene	228	12.117	12.131	-0.014	98	383436	1.00	0.9801	
150 Bis(2-ethylhexyl) phthalat	149	12.174	12.179	-0.005	94	245579	1.00	0.99	
152 Chrysene	228	12.174	12.188	-0.014	97	378484	1.00	1.00	
155 Di-n-octyl phthalate	149	13.315	13.325	-0.010	73	400172	1.00	0.8810	
157 Benzo[b]fluoranthene	252	14.010	14.038	-0.028	98	331830	1.00	0.9313	
158 Benzo[k]fluoranthene	252	14.062	14.091	-0.029	96	360079	1.00	1.02	
160 Benzo[a]pyrene	252	14.690	14.723	-0.033	95	333907	1.00	0.9747	
163 Indeno[1,2,3-cd]pyrene	276	17.843	17.900	-0.057	94	384178	1.00	1.03	
164 Dibenz(a,h)anthracene	278	17.957	18.014	-0.057	95	318214	1.00	1.01	
165 Benzo[g,h,i]perylene	276	18.604	18.656	-0.052	96	336229	1.00	0.9762	a
S 170 Total Cresols, TCEQ Defini	1				0			1.97	
S 171 Methyl Phenols, Total	1				0			1.97	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL5_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic5.D

Injection Date: 19-Jul-2018 18:57:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

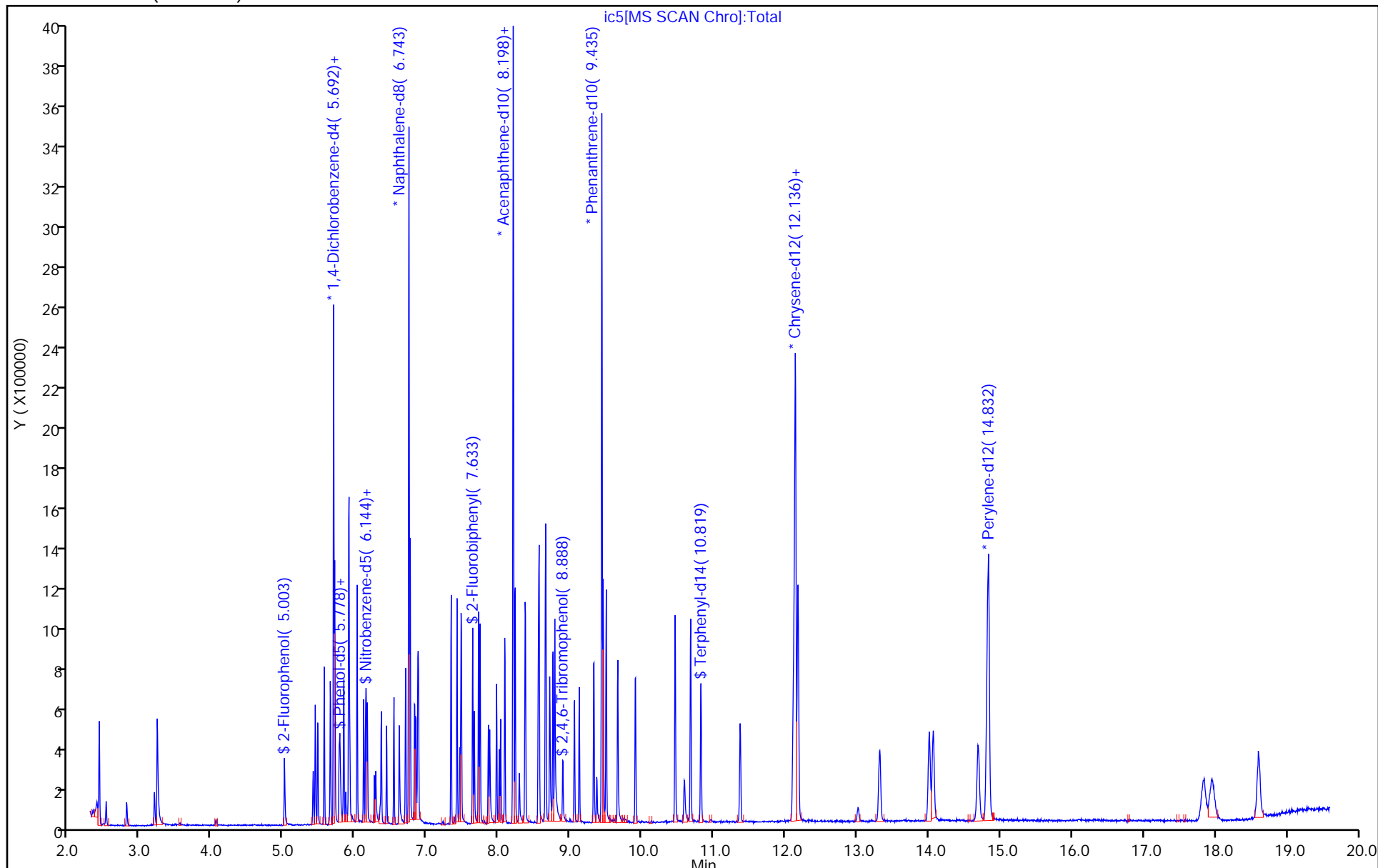
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



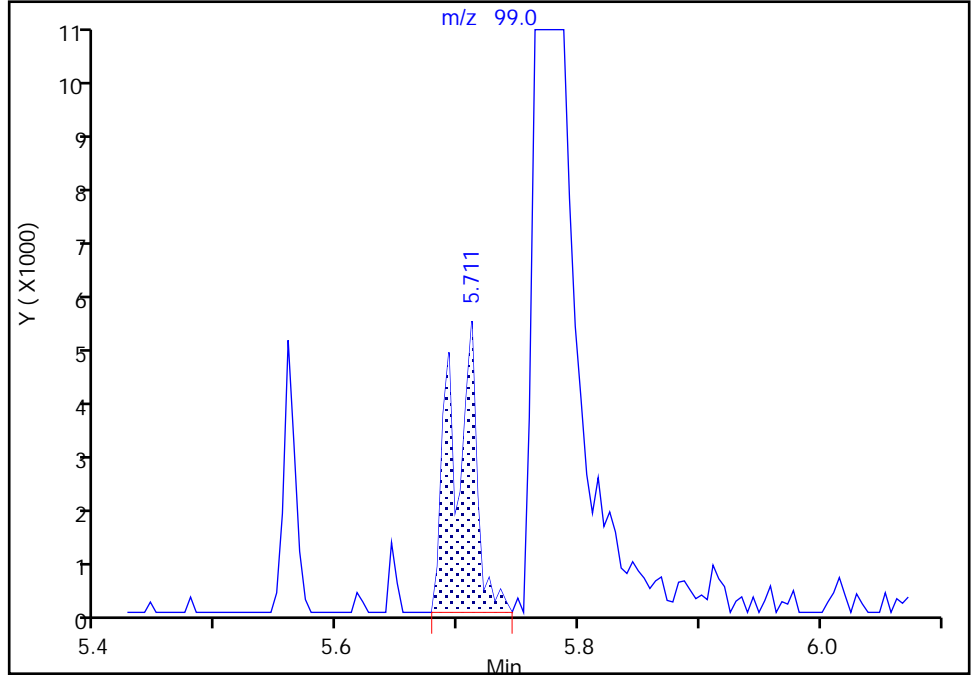
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic5.D
Injection Date: 19-Jul-2018 18:57:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

\$ 8 Phenol-d5, CAS: 4165-62-2
Signal: 1

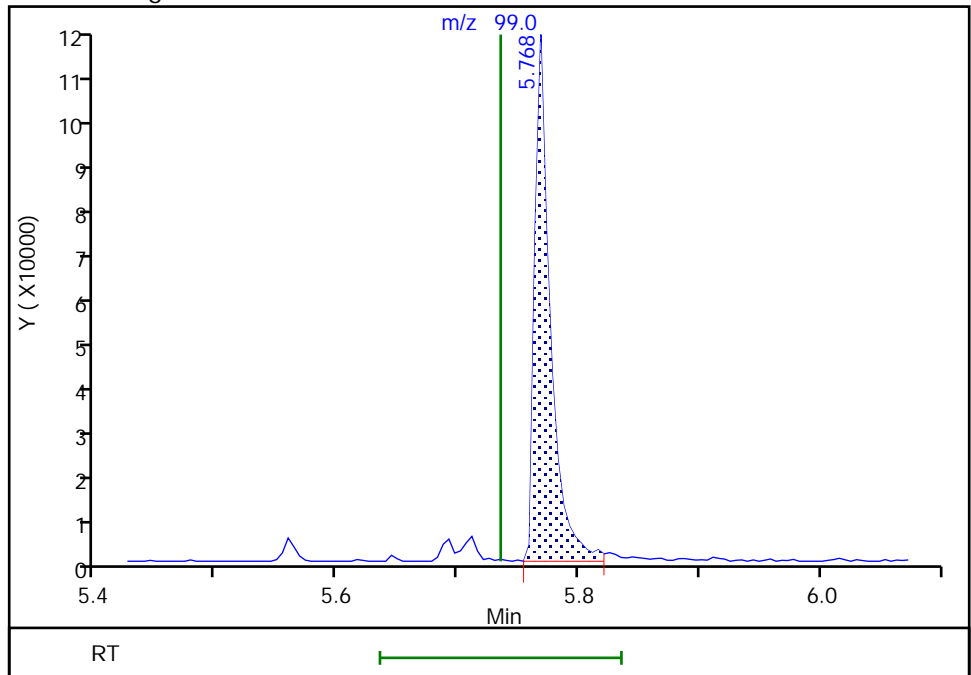
RT: 5.71
Area: 7755
Amount: 0.077916
Amount Units: ug/mL

Processing Integration Results



RT: 5.77
Area: 105010
Amount: 0.951727
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 20-Jul-2018 14:57:06
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

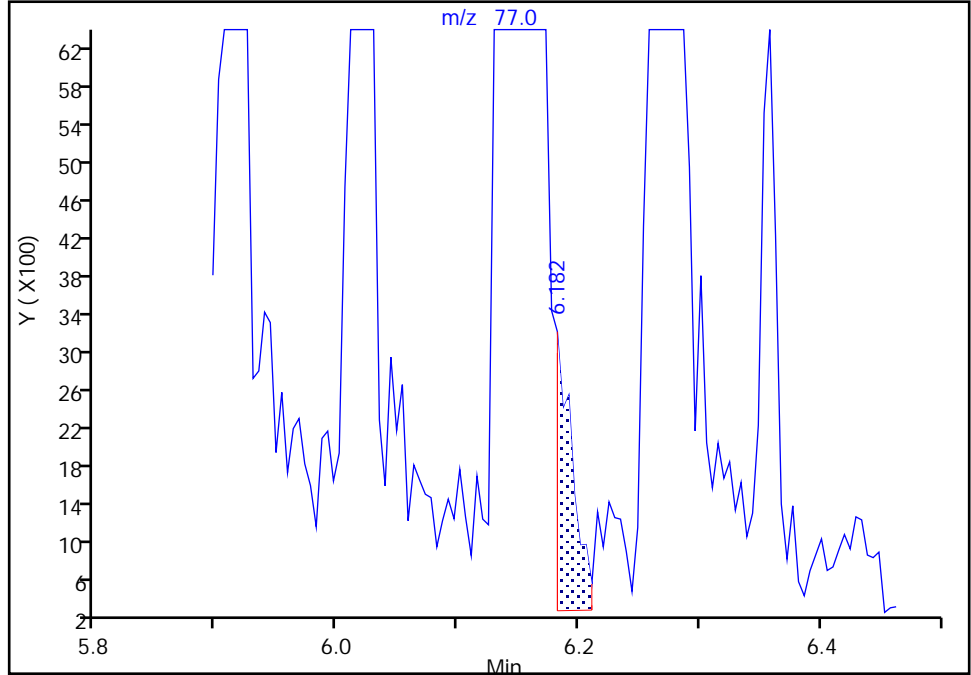
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Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

46 Nitrobenzene, CAS: 98-95-3

Signal: 1

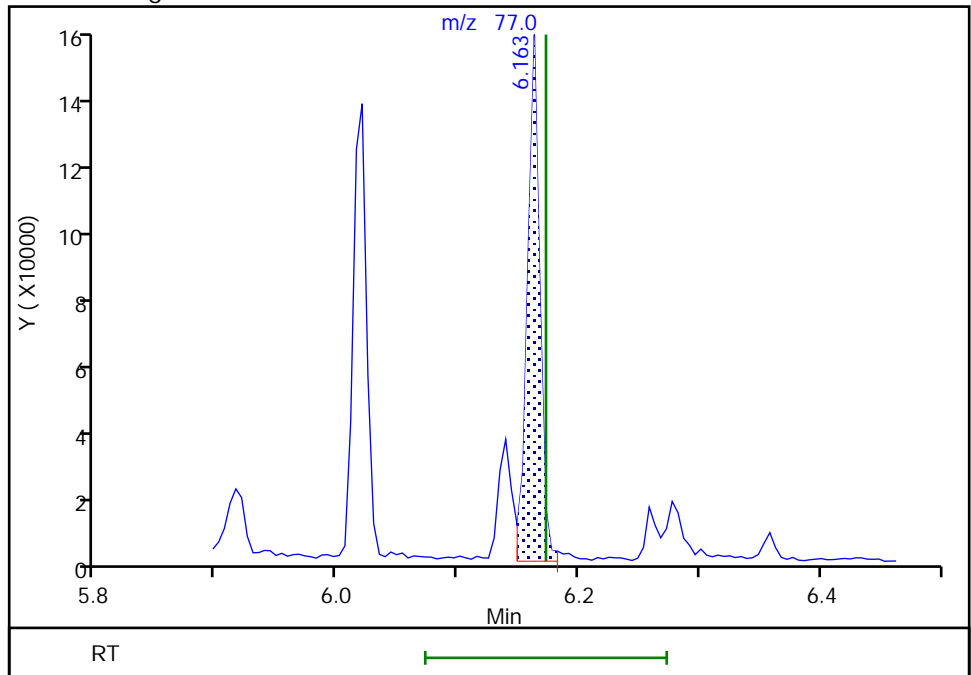
RT: 6.18
Area: 2907
Amount: 0.031977
Amount Units: ug/mL

Processing Integration Results



RT: 6.16
Area: 109857
Amount: 1.068714
Amount Units: ug/mL

Manual Integration Results



TestAmerica Chicago

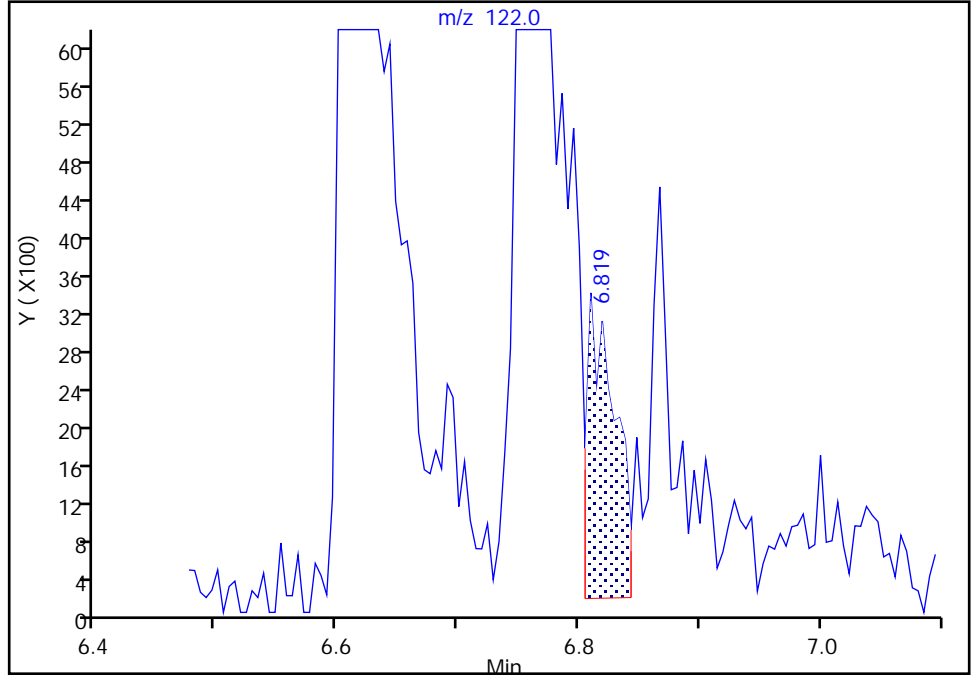
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Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

54 Benzoic acid, CAS: 65-85-0

Signal: 1

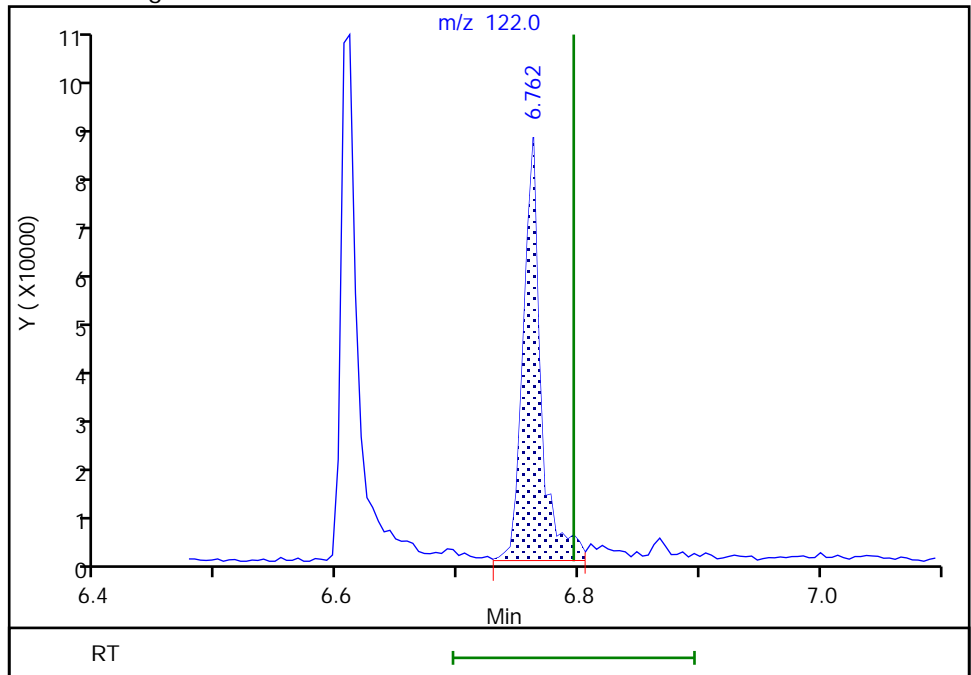
RT: 6.82
Area: 5232
Amount: 0.128702
Amount Units: ug/mL

Processing Integration Results



RT: 6.76
Area: 83071
Amount: 2.037145
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 20-Jul-2018 15:24:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

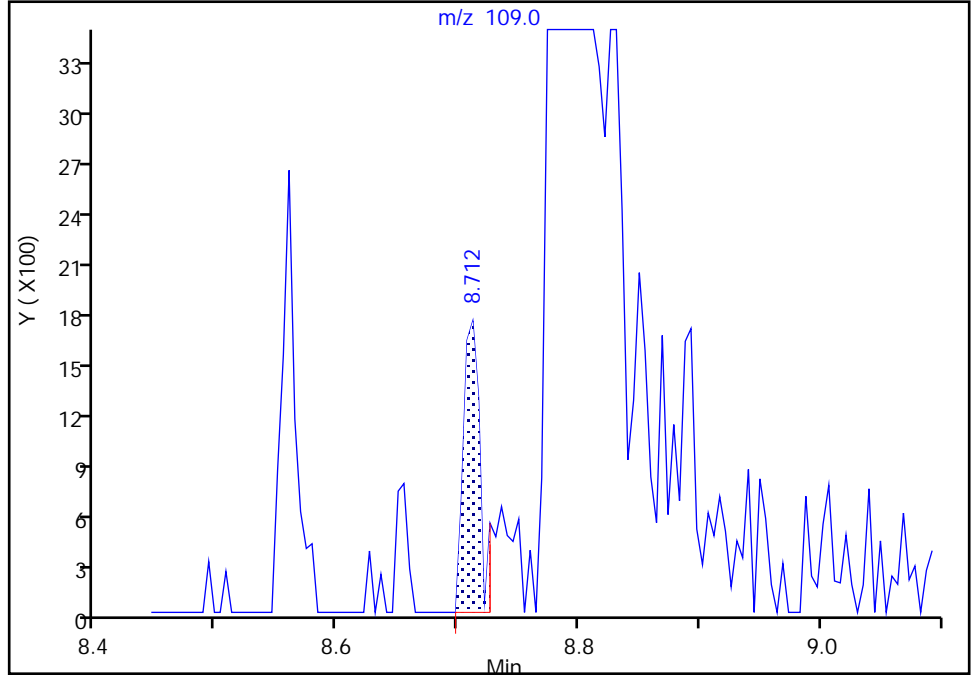
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Injection Date: 19-Jul-2018 18:57:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

92 4-Nitrophenol, CAS: 100-02-7

Signal: 1

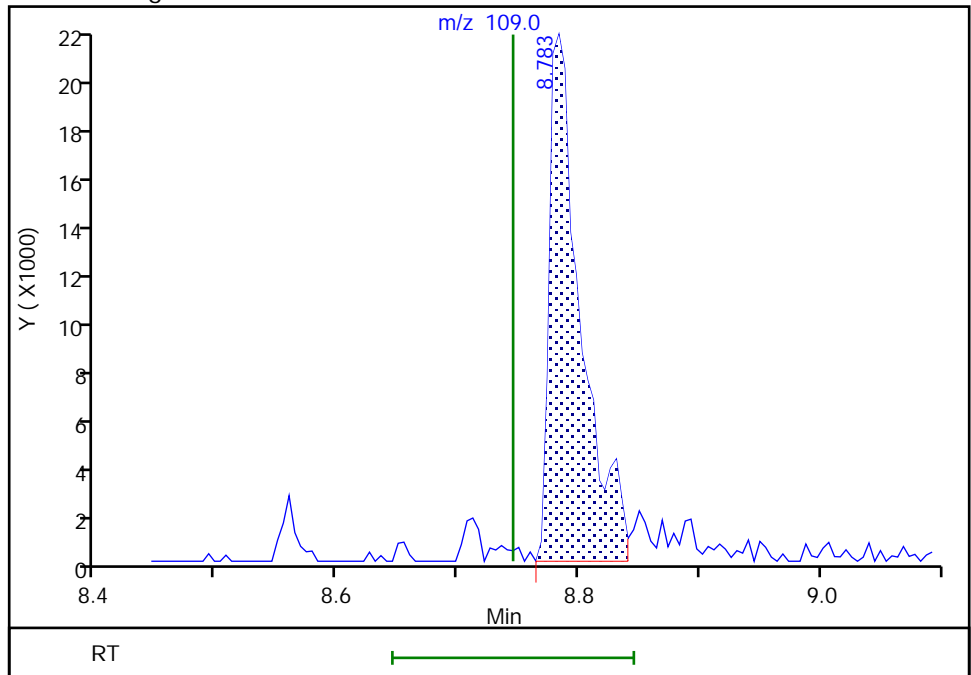
RT: 8.71
Area: 1659
Amount: 0.068236
Amount Units: ug/mL

Processing Integration Results



RT: 8.78
Area: 37961
Amount: 1.611874
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 20-Jul-2018 15:23:45
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

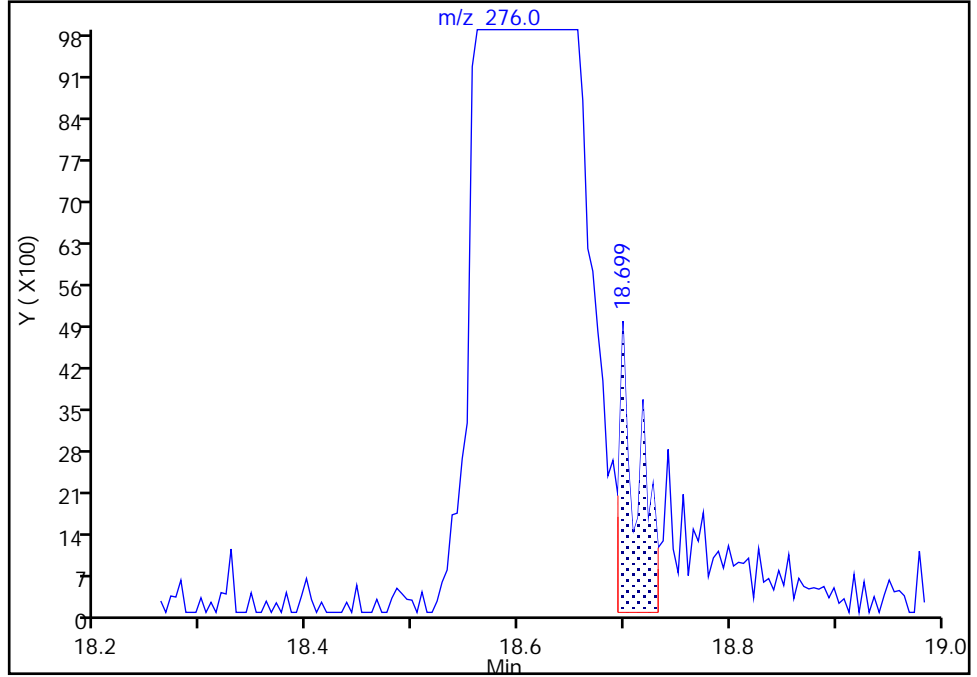
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Injection Date: 19-Jul-2018 18:57:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

165 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

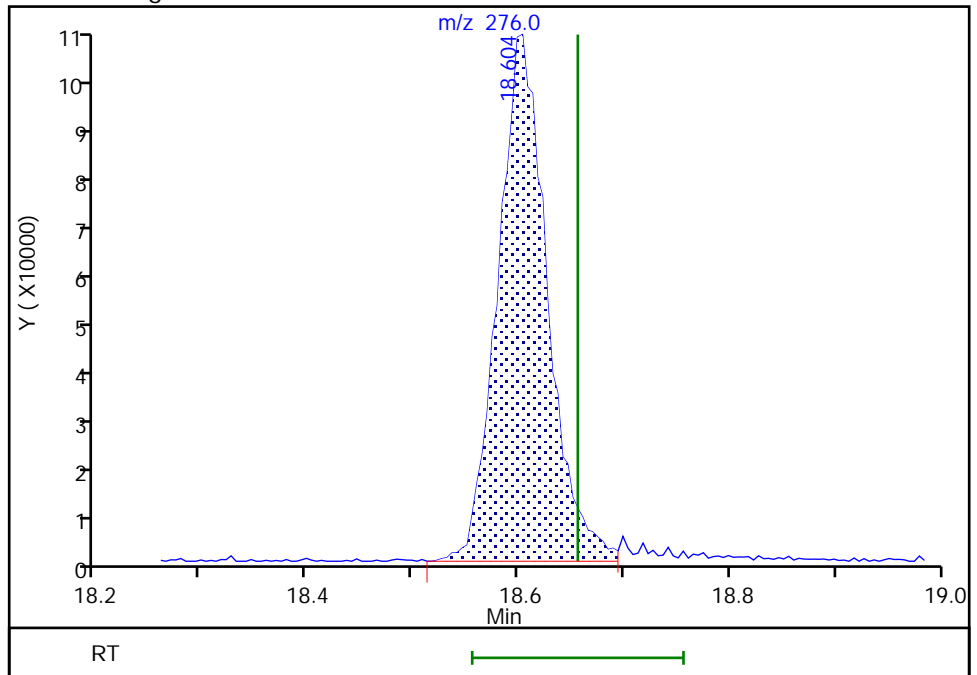
RT: 18.70
Area: 5909
Amount: 0.019202
Amount Units: ug/mL

Processing Integration Results



RT: 18.60
Area: 336229
Amount: 0.976189
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 20-Jul-2018 15:02:34
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic10.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Jul-2018 19:25:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-007
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:31:16 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 20-Jul-2018 15:02:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	325012	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1311157	3.20	3.20	
* 3 Acenaphthene-d10	164	8.199	8.203	-0.004	96	658271	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	98	1107010	3.20	3.20	
* 5 Chrysene-d12	240	12.136	12.150	-0.014	98	1071646	3.20	3.20	
* 6 Perylene-d12	264	14.833	14.837	-0.004	94	1143756	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.998	4.979	0.019	96	172496	2.00	1.82	
\$ 8 Phenol-d5	99	5.759	5.735	0.024	98	236862	2.00	2.11	
\$ 9 Nitrobenzene-d5	82	6.149	6.154	-0.005	93	178275	2.00	2.08	
\$ 10 2-Fluorobiphenyl	172	7.633	7.637	-0.004	99	496353	2.00	2.05	
\$ 11 2,4,6-Tribromophenol	330	8.893	8.898	-0.005	75	68893	2.00	2.03	
\$ 12 Terphenyl-d14	244	10.819	10.824	-0.005	96	495644	2.00	2.02	
13 1,4-Dioxane	88	2.801	2.801	0.000	88	75812	2.00	1.87	
14 N-Nitrosodimethylamine	42	3.191	3.205	-0.014	84	134228	2.00	1.93	
15 Pyridine	79	3.224	3.229	-0.005	80	451868	4.00	4.03	
27 Aniline	93	5.436	5.440	-0.004	94	325874	2.00	2.05	
28 Bis(2-chloroethyl)ether	93	5.469	5.474	-0.005	75	197269	2.00	2.06	
30 n-Decane	43	5.559	5.564	-0.005	85	234669	2.00	1.91	
31 1,3-Dichlorobenzene	146	5.645	5.650	-0.005	97	306708	2.00	2.06	
29 2-Chlorophenol	128	5.707	5.692	0.015	82	260560	2.00	1.96	
33 1,4-Dichlorobenzene	146	5.707	5.707	0.000	96	308363	2.00	2.08	
26 Phenol	94	5.768	5.749	0.019	93	292267	2.00	2.02	
37 1,2-Dichlorobenzene	146	5.835	5.835	0.000	97	299773	2.00	2.07	
36 Benzyl alcohol	108	5.859	5.864	-0.005	91	74327	2.00	1.17	
40 Indene	116	5.906	5.911	-0.005	89	721986	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.916	5.916	0.000	91	360221	2.00	1.88	
44 Acetophenone	105	6.021	6.030	-0.009	93	296657	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.021	6.035	-0.014	81	133534	2.00	2.09	a
45 Hexachloroethane	117	6.111	6.111	0.000	93	115172	2.00	2.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.135	6.120	0.015	92	178639	2.00	2.04	
46 Nitrobenzene	77	6.163	6.173	-0.010	93	214436	2.00	2.09	
42 3 & 4 Methylphenol	108	6.273	6.249	0.024	95	233529	2.00	1.95	
48 Isophorone	82	6.358	6.372	-0.014	97	345813	2.00	2.05	
50 2-Nitrophenol	139	6.430	6.434	-0.004	94	148725	2.00	2.01	
52 Bis(2-chloroethoxy)methane	93	6.534	6.539	-0.005	79	251498	2.00	2.08	
51 2,4-Dimethylphenol	122	6.605	6.596	0.009	89	224952	2.00	2.02	
56 1,2,4-Trichlorobenzene	180	6.696	6.701	-0.005	93	256111	2.00	2.06	
58 Naphthalene	128	6.758	6.762	-0.004	99	763223	2.00	2.08	
54 Benzoic acid	122	6.772	6.796	-0.024	85	165180	4.00	4.06	
55 2,4-Dichlorophenol	162	6.834	6.824	0.010	92	224404	2.00	2.00	
60 4-Chloroaniline	127	6.819	6.829	-0.010	95	326044	2.00	2.07	
63 Hexachlorobutadiene	225	6.867	6.867	0.000	93	138735	2.00	2.10	
62 2,6-Dichlorophenol	162	6.872	6.872	0.000	93	243942	2.00	2.18	
68 2-Methylnaphthalene	142	7.333	7.338	-0.005	96	515432	2.00	2.06	
70 1-Methylnaphthalene	142	7.414	7.419	-0.005	96	492288	2.00	1.85	
66 4-Chloro-3-methylphenol	107	7.447	7.438	0.009	88	152100	2.00	1.87	
72 Hexachlorocyclopentadiene	237	7.471	7.471	0.000	93	113628	2.00	1.77	
73 1,2,4,5-Tetrachlorobenzene	216	7.476	7.480	-0.004	94	241388	2.00	2.04	
74 2,4,6-Trichlorophenol	196	7.652	7.652	0.000	91	153573	2.00	1.97	
79 1,1'-Biphenyl	154	7.718	7.723	-0.005	96	601352	NC	NC	
80 2-Chloronaphthalene	162	7.737	7.742	-0.005	94	511552	2.00	2.07	
81 2-Nitroaniline	65	7.851	7.856	-0.005	82	176447	2.00	2.05	
76 2,4,5-Trichlorophenol	196	7.866	7.861	0.005	93	165000	2.00	1.98	
82 Dimethyl phthalate	163	7.970	7.980	-0.010	95	518472	2.00	2.00	
83 1,3-Dinitrobenzene	168	8.004	8.013	-0.009	84	73192	NC	NC	
84 2,6-Dinitrotoluene	165	8.023	8.032	-0.009	89	114455	2.00	2.09	
86 Acenaphthylene	152	8.080	8.084	-0.004	98	705696	2.00	2.07	
88 3-Nitroaniline	138	8.194	8.203	-0.009	85	131018	2.00	1.94	
90 Acenaphthene	153	8.227	8.232	-0.005	91	474860	2.00	2.03	
91 2,4-Dinitrophenol	184	8.284	8.294	-0.010	80	96409	4.00	3.11	
95 2,4-Dinitrotoluene	165	8.360	8.370	-0.010	88	148774	2.00	2.04	
97 Dibenzofuran	168	8.370	8.375	-0.004	98	691292	2.00	2.11	
100 Diethyl phthalate	149	8.550	8.555	-0.005	97	473288	2.00	2.12	
101 Hexadecane	57	8.560	8.565	-0.005	81	412345	NC	NC	
99 2,3,4,6-Tetrachlorophenol	232	8.560	8.565	-0.005	50	113339	2.00	2.02	
103 4-Chlorophenyl phenyl ethe	204	8.646	8.650	-0.004	91	250626	2.00	2.11	
104 Fluorene	166	8.655	8.660	-0.005	94	543823	2.00	2.11	
109 4,6-Dinitro-2-methylphenol	198	8.707	8.717	-0.010	89	142891	4.00	3.72	
106 4-Nitroaniline	138	8.712	8.726	-0.014	78	132062	2.00	1.98	
92 4-Nitrophenol	109	8.769	8.745	0.024	88	86554	4.00	3.62	
111 N-Nitrosodiphenylamine	169	8.755	8.760	-0.005	61	390823	2.00	2.17	
98 Diphenylamine	169	8.755	8.760	-0.005	93	390823	NC	NC	
113 1,2-Diphenylhydrazine	77	8.779	8.783	-0.004	49	397939	2.00	2.04	
119 4-Bromophenyl phenyl ether	248	9.055	9.059	-0.004	65	148723	2.00	2.12	
122 Hexachlorobenzene	284	9.121	9.126	-0.005	96	161601	2.00	2.04	
124 n-Octadecane	43	9.326	9.326	0.000	84	214308	2.00	1.97	
125 Pentachlorophenol	266	9.364	9.368	-0.004	88	83986	4.00	2.70	
127 Phenanthrene	178	9.454	9.464	-0.010	98	751525	2.00	2.06	
128 Anthracene	178	9.497	9.506	-0.009	99	770345	2.00	2.09	
129 Carbazole	167	9.659	9.663	-0.004	96	718439	2.00	2.17	
133 Di-n-butyl phthalate	149	9.906	9.906	0.000	99	814594	2.00	2.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.462	10.467	-0.005	98	828791	2.00	2.14	
138 Benzidine	184	10.586	10.591	-0.005	97	290211	2.00	1.65	
141 Pyrene	202	10.676	10.681	-0.005	96	867799	2.00	2.12	
147 Butyl benzyl phthalate	149	11.366	11.371	-0.005	93	362685	2.00	1.99	
149 3,3'-Dichlorobenzidine	252	12.103	12.117	-0.014	99	246802	2.00	1.87	
151 Benzo[a]anthracene	228	12.122	12.131	-0.009	98	769560	2.00	1.96	
150 Bis(2-ethylhexyl) phthalat	149	12.174	12.179	-0.005	73	507855	2.00	2.04	
152 Chrysene	228	12.174	12.188	-0.014	97	752158	2.00	1.98	
155 Di-n-octyl phthalate	149	13.320	13.325	-0.005	73	862254	2.00	1.93	
157 Benzo[b]fluoranthene	252	14.010	14.038	-0.028	98	736374	2.00	2.03	
158 Benzo[k]fluoranthene	252	14.067	14.091	-0.024	97	776241	2.00	2.15	
160 Benzo[a]pyrene	252	14.690	14.723	-0.033	95	699357	2.00	2.00	
163 Indeno[1,2,3-cd]pyrene	276	17.852	17.900	-0.048	93	801616	2.00	2.10	
164 Dibenz(a,h)anthracene	278	17.971	18.014	-0.043	95	656682	2.00	2.04	
165 Benzo[g,h,i]perylene	276	18.613	18.656	-0.043	96	694799	2.00	1.98	
S 171 Methyl Phenols, Total	1				0			3.99	
S 170 Total Cresols, TCEQ Defini	1				0			3.99	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL6_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic10.D

Injection Date: 19-Jul-2018 19:25:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul

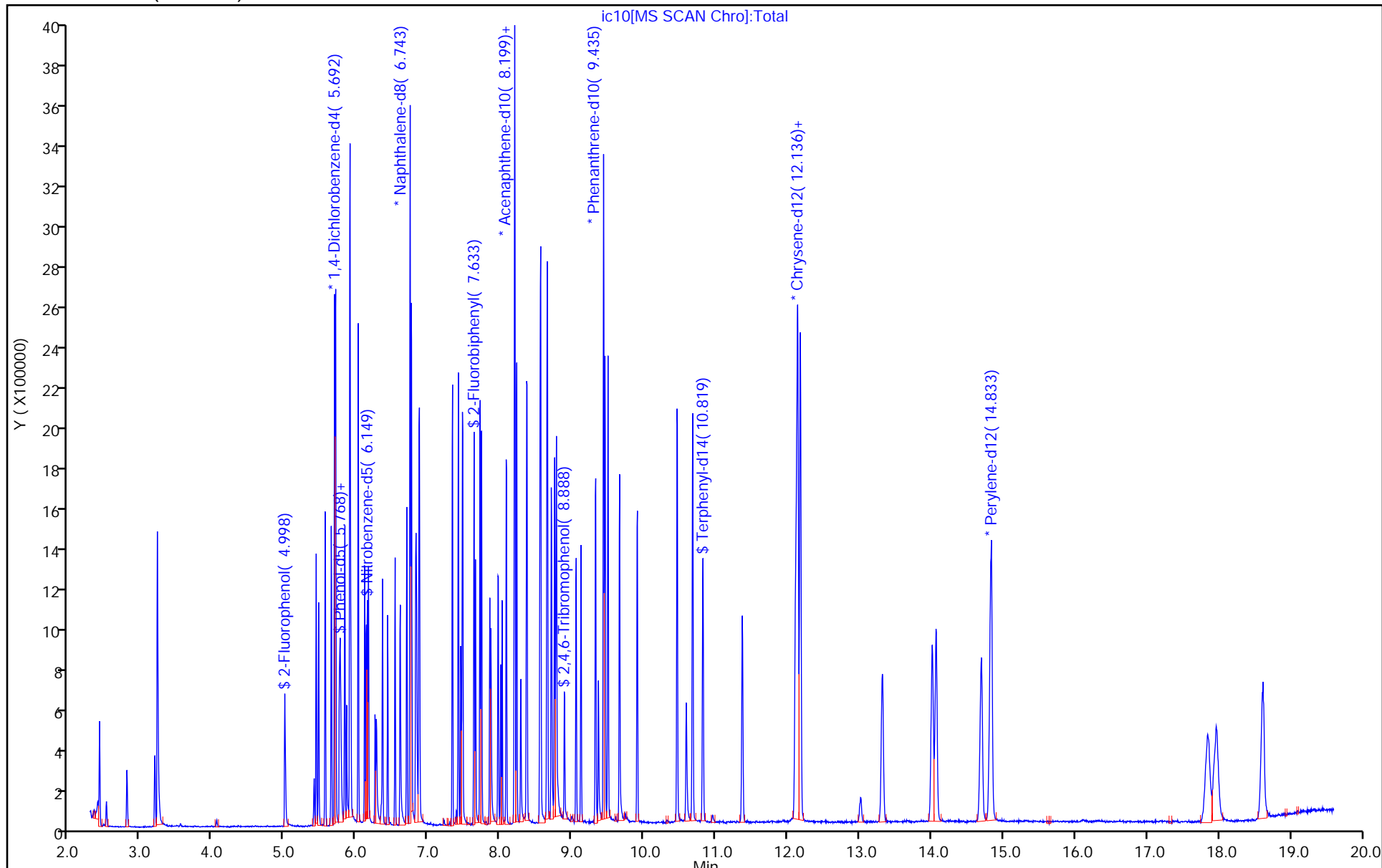
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

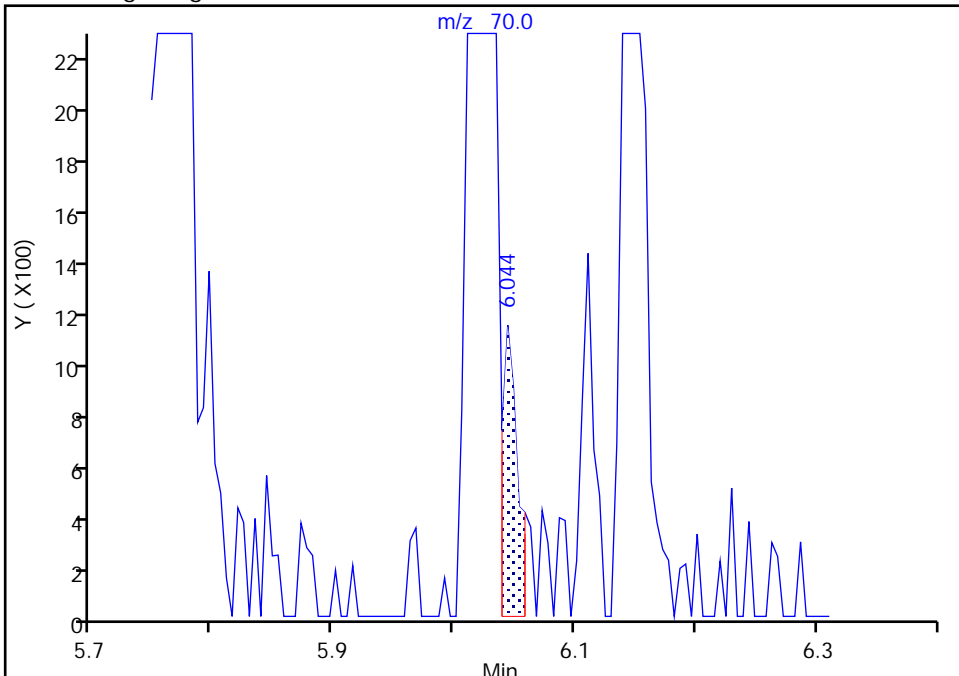
Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic10.D
Injection Date: 19-Jul-2018 19:25:30 Instrument ID: CMS01
Lims ID: ic
Client ID:
Operator ID: GES ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

43 N-Nitrosodi-n-propylamine, CAS: 621-64-7

Signal: 1

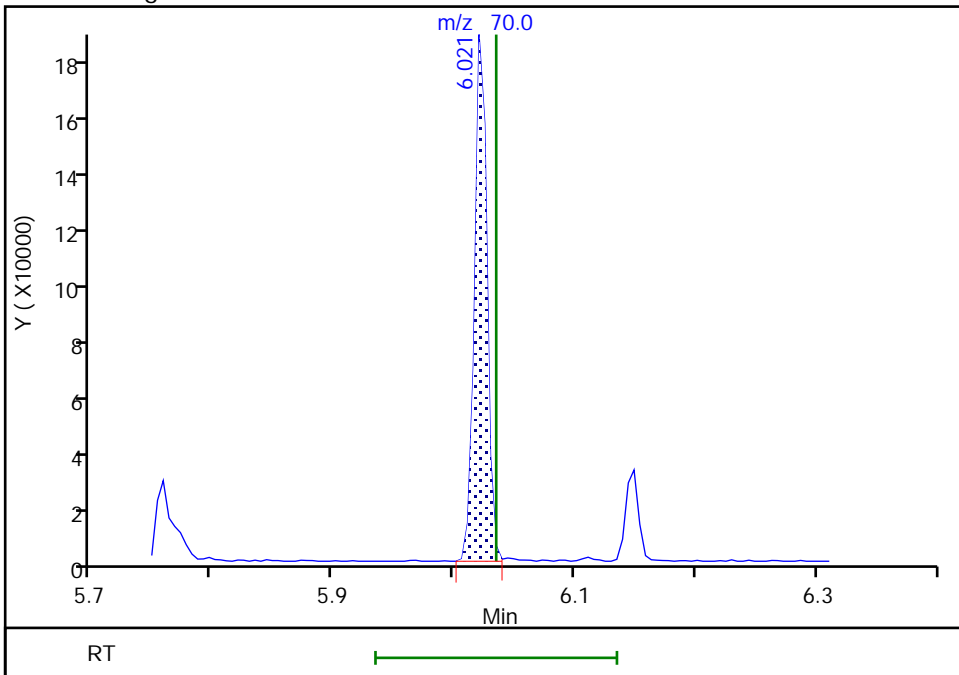
RT: 6.04
Area: 1032
Amount: 0.017994
Amount Units: ug/mL

Processing Integration Results



RT: 6.02
Area: 133534
Amount: 2.087236
Amount Units: ug/mL

Manual Integration Results



Reviewer: rynkarg, 20-Jul-2018 15:00:15
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic20.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Jul-2018 19:53:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-008
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:31:32 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 20-Jul-2018 14:52:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	94	308509	3.20	3.20	
* 2 Naphthalene-d8	136	6.743	6.748	-0.005	99	1229751	3.20	3.20	
* 3 Acenaphthene-d10	164	8.198	8.203	-0.005	95	621168	3.20	3.20	
* 4 Phenanthrene-d10	188	9.435	9.440	-0.005	98	1045805	3.20	3.20	
* 5 Chrysene-d12	240	12.141	12.150	-0.009	98	997491	3.20	3.20	
* 6 Perylene-d12	264	14.832	14.837	-0.005	94	1053275	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.988	4.979	0.009	95	360052	4.00	4.00	
\$ 8 Phenol-d5	99	5.745	5.735	0.010	97	471499	4.00	4.43	
\$ 9 Nitrobenzene-d5	82	6.149	6.154	-0.005	91	340756	4.00	4.24	
\$ 10 2-Fluorobiphenyl	172	7.633	7.637	-0.004	99	943484	4.00	4.13	
\$ 11 2,4,6-Tribromophenol	330	8.893	8.898	-0.005	73	130255	4.00	4.07	
\$ 12 Terphenyl-d14	244	10.819	10.824	-0.005	98	950757	4.00	4.16	
13 1,4-Dioxane	88	2.796	2.801	-0.005	89	158552	4.00	4.13	
14 N-Nitrosodimethylamine	42	3.191	3.205	-0.014	85	265484	4.00	4.01	
15 Pyridine	79	3.219	3.229	-0.010	76	932111	8.00	8.76	
27 Aniline	93	5.435	5.440	-0.005	93	633188	4.00	4.19	
28 Bis(2-chloroethyl)ether	93	5.469	5.474	-0.005	76	385531	4.00	4.24	
30 n-Decane	43	5.564	5.564	0.000	85	482313	4.00	4.13	
31 1,3-Dichlorobenzene	146	5.645	5.650	-0.005	97	617569	4.00	4.36	
29 2-Chlorophenol	128	5.697	5.692	0.005	94	514693	4.00	4.08	
33 1,4-Dichlorobenzene	146	5.707	5.707	0.000	95	594061	4.00	4.23	
26 Phenol	94	5.759	5.749	0.010	93	566918	4.00	4.12	
37 1,2-Dichlorobenzene	146	5.835	5.835	0.000	97	576391	4.00	4.20	
36 Benzyl alcohol	108	5.859	5.864	-0.005	91	211200	4.00	3.50	
40 Indene	116	5.906	5.911	-0.005	91	1380243	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.916	5.916	0.000	91	737282	4.00	4.05	
44 Acetophenone	105	6.020	6.030	-0.010	90	570776	NC	NC	a
43 N-Nitrosodi-n-propylamine	70	6.025	6.035	-0.010	80	252172	4.00	4.15	
45 Hexachloroethane	117	6.111	6.111	0.000	94	224295	4.00	4.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.125	6.120	0.005	92	366476	4.00	4.42	
46 Nitrobenzene	77	6.168	6.173	-0.005	91	402895	4.00	4.19	
42 3 & 4 Methylphenol	108	6.249	6.249	0.000	95	490983	4.00	4.31	
48 Isophorone	82	6.363	6.372	-0.009	97	664983	4.00	4.19	
50 2-Nitrophenol	139	6.434	6.434	0.000	93	294714	4.00	4.26	
52 Bis(2-chloroethoxy)methane	93	6.534	6.539	-0.005	79	481325	4.00	4.24	
51 2,4-Dimethylphenol	122	6.601	6.596	0.005	88	455049	4.00	4.36	
56 1,2,4-Trichlorobenzene	180	6.696	6.701	-0.005	93	503845	4.00	4.33	
58 Naphthalene	128	6.762	6.762	0.000	99	1494415	4.00	4.35	
54 Benzoic acid	122	6.781	6.796	-0.015	91	321990	8.00	8.44	
55 2,4-Dichlorophenol	162	6.824	6.824	0.000	93	445088	4.00	4.24	
60 4-Chloroaniline	127	6.824	6.829	-0.005	95	639525	4.00	4.33	
63 Hexachlorobutadiene	225	6.867	6.867	0.000	93	270114	4.00	4.36	
62 2,6-Dichlorophenol	162	6.872	6.872	0.000	94	469579	4.00	4.48	
68 2-Methylnaphthalene	142	7.333	7.338	-0.005	96	1004862	4.00	4.29	
70 1-Methylnaphthalene	142	7.414	7.419	-0.005	96	950654	4.00	3.82	
66 4-Chloro-3-methylphenol	107	7.442	7.438	0.004	89	317296	4.00	4.16	
72 Hexachlorocyclopentadiene	237	7.471	7.471	0.000	95	251983	4.00	4.17	
73 1,2,4,5-Tetrachlorobenzene	216	7.476	7.480	-0.004	95	471855	4.00	4.22	
74 2,4,6-Trichlorophenol	196	7.652	7.652	0.000	88	300522	4.00	4.08	
79 1,1'-Biphenyl	154	7.718	7.723	-0.005	95	1153776	NC	NC	
80 2-Chloronaphthalene	162	7.737	7.742	-0.005	94	978642	4.00	4.20	
81 2-Nitroaniline	65	7.851	7.856	-0.005	83	335609	4.00	4.13	
76 2,4,5-Trichlorophenol	196	7.861	7.861	0.000	94	333027	4.00	4.24	
82 Dimethyl phthalate	163	7.970	7.980	-0.010	96	1003228	4.00	4.10	
83 1,3-Dinitrobenzene	168	8.008	8.013	-0.005	86	141647	NC	NC	
84 2,6-Dinitrotoluene	165	8.027	8.032	-0.005	89	231437	4.00	4.47	
86 Acenaphthylene	152	8.084	8.084	0.000	98	1366026	4.00	4.24	
88 3-Nitroaniline	138	8.194	8.203	-0.009	86	263092	4.00	4.12	
90 Acenaphthene	153	8.227	8.232	-0.005	92	912449	4.00	4.14	
91 2,4-Dinitrophenol	184	8.284	8.294	-0.010	80	213118	8.00	7.28	
95 2,4-Dinitrotoluene	165	8.365	8.370	-0.005	87	297041	4.00	4.31	
97 Dibenzofuran	168	8.370	8.375	-0.004	97	1323353	4.00	4.28	
100 Diethyl phthalate	149	8.550	8.555	-0.005	97	898727	4.00	4.26	
99 2,3,4,6-Tetrachlorophenol	232	8.560	8.565	-0.005	70	219181	4.00	4.13	
101 Hexadecane	57	8.560	8.565	-0.005	82	785510	NC	NC	
103 4-Chlorophenyl phenyl ethe	204	8.650	8.650	0.000	90	467614	4.00	4.17	
104 Fluorene	166	8.655	8.660	-0.005	95	1003424	4.00	4.12	
109 4,6-Dinitro-2-methylphenol	198	8.712	8.717	-0.005	90	304553	8.00	8.40	
106 4-Nitroaniline	138	8.717	8.726	-0.009	76	262959	4.00	4.18	
92 4-Nitrophenol	109	8.755	8.745	0.010	66	179868	8.00	7.98	
98 Diphenylamine	169	8.755	8.760	-0.005	92	737259	NC	NC	
111 N-Nitrosodiphenylamine	169	8.755	8.760	-0.005	64	737259	4.00	4.33	
113 1,2-Diphenylhydrazine	77	8.779	8.783	-0.004	40	762415	4.00	4.14	
119 4-Bromophenyl phenyl ether	248	9.054	9.059	-0.005	66	278122	4.00	4.19	
122 Hexachlorobenzene	284	9.126	9.126	0.000	96	305533	4.00	4.09	
124 n-Octadecane	43	9.326	9.326	0.000	84	423528	4.00	4.12	
125 Pentachlorophenol	266	9.364	9.368	-0.004	88	217578	8.00	7.40	
127 Phenanthrene	178	9.459	9.464	-0.005	98	1447887	4.00	4.21	
128 Anthracene	178	9.501	9.506	-0.005	99	1491130	4.00	4.28	
129 Carbazole	167	9.658	9.663	-0.005	96	1333440	4.00	4.26	
133 Di-n-butyl phthalate	149	9.906	9.906	0.000	98	1544420	4.00	4.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.462	10.467	-0.005	98	1594701	4.00	4.35	
138 Benzidine	184	10.586	10.591	-0.005	97	644051	4.00	3.92	
141 Pyrene	202	10.676	10.681	-0.005	96	1630122	4.00	4.27	
147 Butyl benzyl phthalate	149	11.370	11.371	-0.001	92	706637	4.00	4.16	
149 3,3'-Dichlorobenzidine	252	12.108	12.117	-0.009	98	513987	4.00	4.18	
151 Benzo[a]anthracene	228	12.122	12.131	-0.009	98	1501290	4.00	4.10	
150 Bis(2-ethylhexyl) phthalat	149	12.174	12.179	-0.005	94	976804	4.00	4.21	
152 Chrysene	228	12.179	12.188	-0.009	97	1429328	4.00	4.04	
155 Di-n-octyl phthalate	149	13.320	13.325	-0.005	75	1736431	4.00	4.12	
157 Benzo[b]fluoranthene	252	14.019	14.038	-0.019	98	1482336	4.00	4.43	
158 Benzo[k]fluoranthene	252	14.076	14.091	-0.015	97	1469721	4.00	4.42	
160 Benzo[a]pyrene	252	14.699	14.723	-0.024	95	1398442	4.00	4.35	
163 Indeno[1,2,3-cd]pyrene	276	17.862	17.900	-0.038	93	1630307	4.00	4.64	
164 Dibenz(a,h)anthracene	278	17.985	18.014	-0.029	94	1338805	4.00	4.52	
165 Benzo[g,h,i]perylene	276	18.623	18.656	-0.033	96	1418384	4.00	4.39	
S 170 Total Cresols, TCEQ Defini	1				0			8.73	
S 171 Methyl Phenols, Total	1				0			8.73	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL7_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic20.D

Injection Date: 19-Jul-2018 19:53:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul

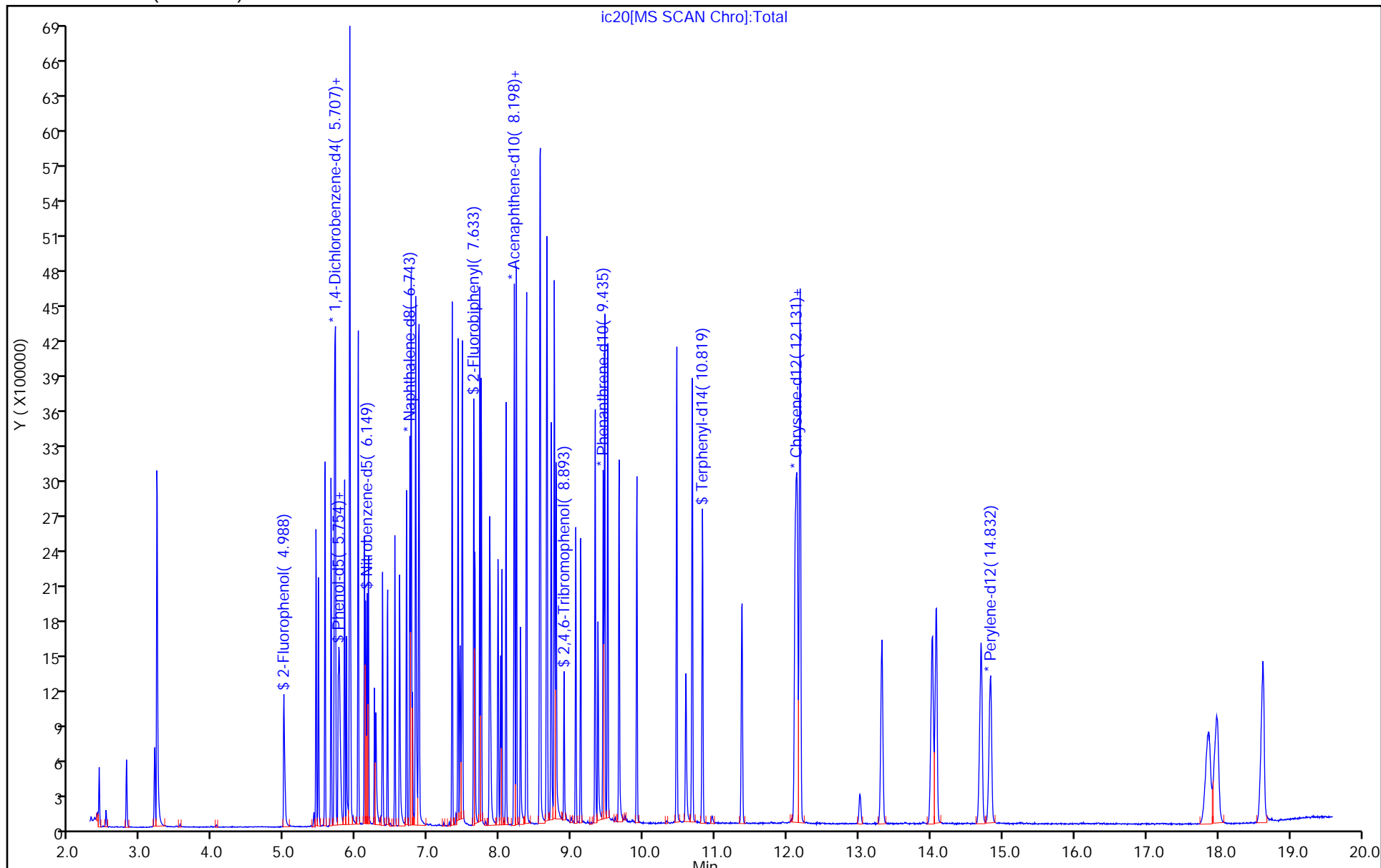
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\icisA.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 8
 Inject. Date: 19-Jul-2018 16:38:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: icis
 Misc. Info.: 500-0053770-009
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115

Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:31:47 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 20-Jul-2018 14:48:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	91	289641	3.20	3.20	
* 2 Naphthalene-d8	136	6.748	6.748	0.000	99	1202699	3.20	3.20	
* 3 Acenaphthene-d10	164	8.203	8.203	0.000	94	583773	3.20	3.20	
* 4 Phenanthrene-d10	188	9.440	9.440	0.000	98	1009057	3.20	3.20	
* 5 Chrysene-d12	240	12.150	12.150	0.000	98	965407	3.20	3.20	
* 6 Perylene-d12	264	14.837	14.837	0.000	94	1032139	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.979	4.979	0.000	95	744166	8.00	8.81	
\$ 8 Phenol-d5	99	5.735	5.735	0.000	98	852330	8.00	8.53	
\$ 9 Nitrobenzene-d5	82	6.154	6.154	0.000	89	624914	8.00	7.96	
\$ 10 2-Fluorobiphenyl	172	7.637	7.637	0.000	99	1709495	8.00	7.96	
\$ 11 2,4,6-Tribromophenol	330	8.898	8.898	0.000	75	244677	8.00	8.14	
\$ 12 Terphenyl-d14	244	10.824	10.824	0.000	96	1695904	8.00	7.68	
13 1,4-Dioxane	88	2.801	2.801	0.000	88	285122	8.00	7.91	
14 N-Nitrosodimethylamine	42	3.205	3.205	0.000	82	490743	8.00	7.90	
15 Pyridine	79	3.229	3.229	0.000	75	1647541	16.0	16.5	
27 Aniline	93	5.440	5.440	0.000	92	1123745	8.00	7.91	
28 Bis(2-chloroethyl)ether	93	5.474	5.474	0.000	75	670594	8.00	7.85	
30 n-Decane	43	5.564	5.564	0.000	85	893162	8.00	8.14	
31 1,3-Dichlorobenzene	146	5.650	5.650	0.000	97	1064232	8.00	8.01	
29 2-Chlorophenol	128	5.692	5.692	0.000	95	927565	8.00	7.84	
33 1,4-Dichlorobenzene	146	5.707	5.707	0.000	97	1045499	8.00	7.92	
26 Phenol	94	5.749	5.749	0.000	93	1028961	8.00	7.97	
37 1,2-Dichlorobenzene	146	5.835	5.835	0.000	97	1004931	8.00	7.80	
36 Benzyl alcohol	108	5.864	5.864	0.000	91	425164	8.00	7.51	
40 Indene	116	5.911	5.911	0.000	90	2398195	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.916	5.916	0.000	91	1375514	8.00	8.05	
44 Acetophenone	105	6.030	6.030	0.000	90	985185	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.035	6.035	0.000	79	442768	8.00	7.77	
45 Hexachloroethane	117	6.111	6.111	0.000	96	392756	8.00	7.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.120	6.120	0.000	91	634715	8.00	8.15	
46 Nitrobenzene	77	6.173	6.173	0.000	92	705521	8.00	7.50	
42 3 & 4 Methylphenol	108	6.249	6.249	0.000	95	881523	8.00	8.25	
48 Isophorone	82	6.372	6.372	0.000	97	1171254	8.00	7.55	
50 2-Nitrophenol	139	6.434	6.434	0.000	94	521685	8.00	7.70	
52 Bis(2-chloroethoxy)methane	93	6.539	6.539	0.000	79	840003	8.00	7.56	
51 2,4-Dimethylphenol	122	6.596	6.596	0.000	88	815755	8.00	7.99	
56 1,2,4-Trichlorobenzene	180	6.701	6.701	0.000	94	858394	8.00	7.53	
58 Naphthalene	128	6.762	6.762	0.000	99	2558969	8.00	7.62	
54 Benzoic acid	122	6.796	6.796	0.000	88	556938	16.0	14.9	
55 2,4-Dichlorophenol	162	6.824	6.824	0.000	92	803869	8.00	7.83	
60 4-Chloroaniline	127	6.829	6.829	0.000	95	1102964	8.00	7.64	
63 Hexachlorobutadiene	225	6.867	6.867	0.000	94	467118	8.00	7.70	
62 2,6-Dichlorophenol	162	6.872	6.872	0.000	94	807106	8.00	7.87	
68 2-Methylnaphthalene	142	7.338	7.338	0.000	96	1743220	8.00	7.61	
70 1-Methylnaphthalene	142	7.419	7.419	0.000	95	1697318	8.00	6.97	
66 4-Chloro-3-methylphenol	107	7.438	7.438	0.000	90	574333	8.00	7.70	
72 Hexachlorocyclopentadiene	237	7.471	7.471	0.000	94	458999	8.00	8.08	
73 1,2,4,5-Tetrachlorobenzene	216	7.480	7.480	0.000	95	830010	8.00	7.90	
74 2,4,6-Trichlorophenol	196	7.652	7.652	0.000	91	546187	8.00	7.89	
79 1,1'-Biphenyl	154	7.723	7.723	0.000	95	1959769	NC	NC	
80 2-Chloronaphthalene	162	7.742	7.742	0.000	94	1701240	8.00	7.77	
81 2-Nitroaniline	65	7.856	7.856	0.000	83	591699	8.00	7.76	
76 2,4,5-Trichlorophenol	196	7.861	7.861	0.000	92	566491	8.00	7.67	
82 Dimethyl phthalate	163	7.980	7.980	0.000	96	1786051	8.00	7.77	
83 1,3-Dinitrobenzene	168	8.013	8.013	0.000	84	264994	NC	NC	
84 2,6-Dinitrotoluene	165	8.032	8.032	0.000	88	417909	8.00	8.59	
86 Acenaphthylene	152	8.084	8.084	0.000	98	2402329	8.00	7.93	
88 3-Nitroaniline	138	8.203	8.203	0.000	83	464846	8.00	7.75	
90 Acenaphthene	153	8.232	8.232	0.000	92	1579388	8.00	7.63	
91 2,4-Dinitrophenol	184	8.294	8.294	0.000	80	399366	16.0	14.5	
95 2,4-Dinitrotoluene	165	8.370	8.370	0.000	88	517085	8.00	7.98	
97 Dibenzofuran	168	8.375	8.375	0.000	97	2236205	8.00	7.69	
100 Diethyl phthalate	149	8.555	8.555	0.000	97	1526376	8.00	7.70	
101 Hexadecane	57	8.565	8.565	0.000	82	1351572	NC	NC	
99 2,3,4,6-Tetrachlorophenol	232	8.565	8.565	0.000	65	384023	8.00	7.70	
103 4-Chlorophenyl phenyl ethe	204	8.650	8.650	0.000	91	814239	8.00	7.73	
104 Fluorene	166	8.660	8.660	0.000	93	1752206	8.00	7.66	
109 4,6-Dinitro-2-methylphenol	198	8.717	8.717	0.000	86	568889	16.0	16.3	
106 4-Nitroaniline	138	8.726	8.726	0.000	80	456977	8.00	7.73	
92 4-Nitrophenol	109	8.745	8.745	0.000	90	309657	16.0	14.6	
111 N-Nitrosodiphenylamine	169	8.760	8.760	0.000	64	1253789	8.00	7.63	
98 Diphenylamine	169	8.760	8.760	0.000	93	1253789	NC	NC	
113 1,2-Diphenylhydrazine	77	8.783	8.783	0.000	40	1333030	8.00	7.70	
119 4-Bromophenyl phenyl ether	248	9.059	9.059	0.000	73	491251	8.00	7.68	
122 Hexachlorobenzene	284	9.126	9.126	0.000	96	547391	8.00	7.60	
124 n-Octadecane	43	9.326	9.326	0.000	84	781273	8.00	7.87	
125 Pentachlorophenol	266	9.368	9.368	0.000	88	423114	16.0	14.9	
127 Phenanthrene	178	9.464	9.464	0.000	98	2497149	8.00	7.52	
128 Anthracene	178	9.506	9.506	0.000	99	2623663	8.00	7.80	
129 Carbazole	167	9.663	9.663	0.000	96	2342686	8.00	7.75	
133 Di-n-butyl phthalate	149	9.906	9.906	0.000	99	2719759	8.00	7.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.467	10.467	0.000	98	2725902	8.00	7.71	
138 Benzidine	184	10.591	10.591	0.000	97	1311854	8.00	8.26	
141 Pyrene	202	10.681	10.681	0.000	97	2833073	8.00	7.67	
147 Butyl benzyl phthalate	149	11.371	11.371	0.000	92	1289533	8.00	7.85	
149 3,3'-Dichlorobenzidine	252	12.117	12.117	0.000	99	937109	8.00	7.88	
151 Benzo[a]anthracene	228	12.131	12.131	0.000	98	2673470	8.00	7.54	
150 Bis(2-ethylhexyl) phthalat	149	12.179	12.179	0.000	94	1741384	8.00	7.76	
152 Chrysene	228	12.188	12.188	0.000	98	2505112	8.00	7.31	
155 Di-n-octyl phthalate	149	13.325	13.325	0.000	74	3195439	8.00	7.86	
157 Benzo[b]fluoranthene	252	14.038	14.038	0.000	98	2572182	8.00	7.85	
158 Benzo[k]fluoranthene	252	14.091	14.091	0.000	98	2454349	8.00	7.53	
160 Benzo[a]pyrene	252	14.723	14.723	0.000	95	2534739	8.00	8.05	
163 Indeno[1,2,3-cd]pyrene	276	17.900	17.900	0.000	94	2968662	8.00	8.62	
164 Dibenz(a,h)anthracene	278	18.014	18.014	0.000	95	2453717	8.00	8.45	
165 Benzo[g,h,i]perylene	276	18.656	18.656	0.000	97	2547509	8.00	8.05	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLst1_5uLL8_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\icisA.D

Injection Date: 19-Jul-2018 16:38:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: icis

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

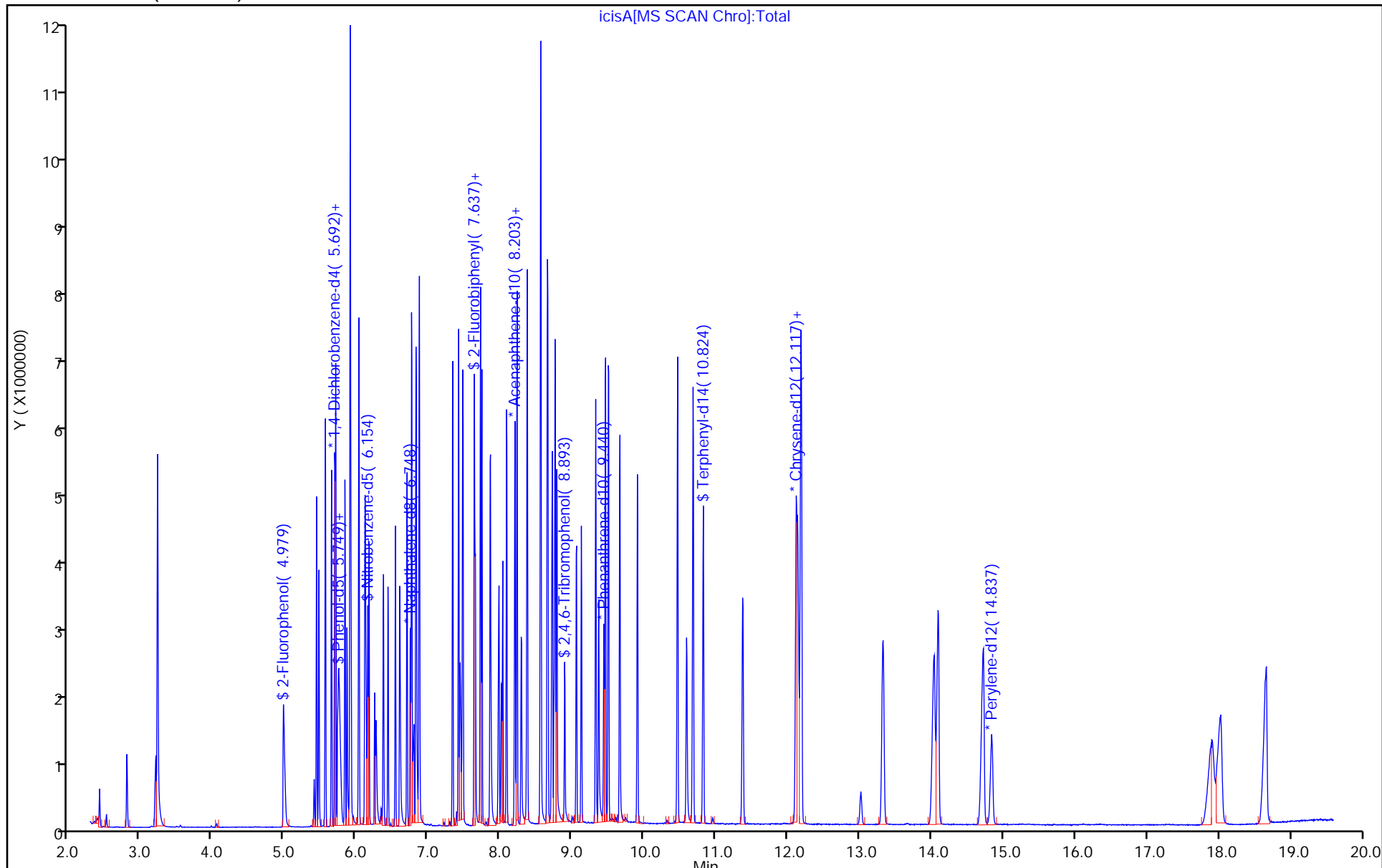
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic50.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 19-Jul-2018 20:21:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-010
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:32:00 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.blic70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 20-Jul-2018 14:53:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	92	323885	3.20	3.20	
* 2 Naphthalene-d8	136	6.748	6.748	0.000	98	1333052	3.20	3.20	
* 3 Acenaphthene-d10	164	8.203	8.203	0.000	92	644166	3.20	3.20	
* 4 Phenanthrene-d10	188	9.440	9.440	0.000	98	1146956	3.20	3.20	
* 5 Chrysene-d12	240	12.150	12.150	0.000	97	1097346	3.20	3.20	
* 6 Perylene-d12	264	14.842	14.837	0.005	97	1208826	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.965	4.979	-0.014	95	1103914	10.0	11.7	
\$ 8 Phenol-d5	99	5.716	5.735	-0.019	98	1188233	10.0	10.6	
\$ 9 Nitrobenzene-d5	82	6.158	6.154	0.004	91	881767	10.0	10.1	
\$ 10 2-Fluorobiphenyl	172	7.637	7.637	0.000	99	2299341	10.0	9.70	
\$ 11 2,4,6-Tribromophenol	330	8.898	8.898	0.000	75	342561	10.0	10.3	
\$ 12 Terphenyl-d14	244	10.824	10.824	0.000	96	2369273	10.0	9.43	
13 1,4-Dioxane	88	2.801	2.801	0.000	88	425006	10.0	10.5	
14 N-Nitrosodimethylamine	42	3.215	3.205	0.010	82	694975	10.0	10.0	
15 Pyridine	79	3.234	3.229	0.005	75	2389346	20.0	21.4	
27 Aniline	93	5.445	5.440	0.005	93	1572877	10.0	9.91	
28 Bis(2-chloroethyl)ether	93	5.474	5.474	0.000	76	927472	10.0	9.71	
30 n-Decane	43	5.564	5.564	0.000	86	1270503	10.0	10.4	
31 1,3-Dichlorobenzene	146	5.650	5.650	0.000	97	1445658	10.0	9.73	
29 2-Chlorophenol	128	5.688	5.692	-0.004	95	1309034	10.0	9.89	
33 1,4-Dichlorobenzene	146	5.711	5.707	0.004	97	1452932	10.0	9.85	
26 Phenol	94	5.730	5.749	-0.019	94	1443757	10.0	10.0	
37 1,2-Dichlorobenzene	146	5.840	5.835	0.005	97	1393361	10.0	9.67	
36 Benzyl alcohol	108	5.868	5.864	0.004	90	645824	10.0	10.2	
40 Indene	116	5.911	5.911	0.000	91	3164265	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.921	5.916	0.005	91	1982822	10.0	10.4	
44 Acetophenone	105	6.030	6.030	0.000	90	1354696	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.039	6.035	0.004	78	609104	10.0	9.55	
45 Hexachloroethane	117	6.116	6.111	0.005	92	544168	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.111	6.120	-0.009	91	823484	10.0	9.46	
46 Nitrobenzene	77	6.173	6.173	0.000	90	966465	10.0	9.27	
42 3 & 4 Methylphenol	108	6.244	6.249	-0.005	95	1206697	10.0	10.1	
48 Isophorone	82	6.372	6.372	0.000	97	1663708	10.0	9.68	
50 2-Nitrophenol	139	6.439	6.434	0.005	93	739645	10.0	9.85	
52 Bis(2-chloroethoxy)methane	93	6.539	6.539	0.000	79	1164620	10.0	9.46	
51 2,4-Dimethylphenol	122	6.591	6.596	-0.005	88	1110769	10.0	9.81	
56 1,2,4-Trichlorobenzene	180	6.700	6.701	-0.001	93	1207921	10.0	9.57	
58 Naphthalene	128	6.767	6.762	0.005	98	3420455	10.0	9.19	
54 Benzoic acid	122	6.810	6.796	0.014	88	818397	20.0	19.8	
55 2,4-Dichlorophenol	162	6.815	6.824	-0.009	91	1122850	10.0	9.87	
60 4-Chloroaniline	127	6.829	6.829	0.000	95	1558847	10.0	9.74	
63 Hexachlorobutadiene	225	6.872	6.867	0.005	94	634158	10.0	9.43	
62 2,6-Dichlorophenol	162	6.872	6.872	0.000	93	1052374	10.0	9.25	
68 2-Methylnaphthalene	142	7.338	7.338	0.000	96	2367991	10.0	9.33	
70 1-Methylnaphthalene	142	7.419	7.419	0.000	97	3145943	10.0	11.7	
66 4-Chloro-3-methylphenol	107	7.423	7.438	-0.015	89	824665	10.0	9.98	
72 Hexachlorocyclopentadiene	237	7.476	7.471	0.005	93	671143	10.0	10.7	
73 1,2,4,5-Tetrachlorobenzene	216	7.480	7.480	0.000	94	1134073	10.0	9.79	
74 2,4,6-Trichlorophenol	196	7.652	7.652	0.000	92	778660	10.0	10.2	
79 1,1'-Biphenyl	154	7.723	7.723	0.000	95	2651166	NC	NC	
80 2-Chloronaphthalene	162	7.742	7.742	0.000	95	2348735	10.0	9.72	
81 2-Nitroaniline	65	7.861	7.856	0.005	82	815460	10.0	9.69	
76 2,4,5-Trichlorophenol	196	7.851	7.861	-0.010	94	820380	10.0	10.1	
82 Dimethyl phthalate	163	7.984	7.980	0.004	96	2506789	10.0	9.88	
83 1,3-Dinitrobenzene	168	8.023	8.013	0.010	84	377255	NC	NC	
84 2,6-Dinitrotoluene	165	8.037	8.032	0.005	89	578920	10.0	10.8	
86 Acenaphthylene	152	8.089	8.084	0.005	98	3230566	10.0	9.67	
88 3-Nitroaniline	138	8.208	8.203	0.005	87	652465	10.0	9.86	
90 Acenaphthene	153	8.232	8.232	0.000	92	2214647	10.0	9.70	
91 2,4-Dinitrophenol	184	8.298	8.294	0.004	78	673188	20.0	22.2	
95 2,4-Dinitrotoluene	165	8.374	8.370	0.004	84	716431	10.0	10.0	
97 Dibenzofuran	168	8.374	8.375	0.000	97	3030727	10.0	9.44	
100 Diethyl phthalate	149	8.560	8.555	0.005	97	2034044	10.0	9.30	
99 2,3,4,6-Tetrachlorophenol	232	8.560	8.565	-0.005	49	553497	10.0	10.1	
101 Hexadecane	57	8.565	8.565	0.000	83	1784977	NC	NC	
103 4-Chlorophenyl phenyl ethe	204	8.655	8.650	0.005	91	1120549	10.0	9.64	
104 Fluorene	166	8.665	8.660	0.005	93	2402289	10.0	9.51	
109 4,6-Dinitro-2-methylphenol	198	8.726	8.717	0.009	84	816172	20.0	20.5	
106 4-Nitroaniline	138	8.731	8.726	0.005	70	642173	10.0	9.85	
92 4-Nitrophenol	109	8.731	8.745	-0.014	76	514191	20.0	22.0	
98 Diphenylamine	169	8.764	8.760	0.004	94	1748358	NC	NC	
111 N-Nitrosodiphenylamine	169	8.764	8.760	0.004	64	1748358	10.0	9.36	
113 1,2-Diphenylhydrazine	77	8.788	8.783	0.005	40	1889594	10.0	9.89	
119 4-Bromophenyl phenyl ether	248	9.059	9.059	0.000	66	688698	10.0	9.47	
122 Hexachlorobenzene	284	9.131	9.126	0.005	96	764400	10.0	9.33	
124 n-Octadecane	43	9.326	9.326	0.000	85	1118488	10.0	9.91	
125 Pentachlorophenol	266	9.368	9.368	0.000	80	715930	20.0	22.2	
127 Phenanthrene	178	9.463	9.464	-0.001	97	3503317	10.0	9.28	
128 Anthracene	178	9.506	9.506	0.000	99	3614187	10.0	9.45	
129 Carbazole	167	9.663	9.663	0.000	96	3251653	10.0	9.46	
133 Di-n-butyl phthalate	149	9.911	9.906	0.004	99	3743727	10.0	9.38	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.467	10.467	0.000	98	3831313	10.0	9.53	
138 Benzidine	184	10.591	10.591	0.000	97	1981058	10.0	11.0	
141 Pyrene	202	10.686	10.681	0.005	96	4004175	10.0	9.53	
147 Butyl benzyl phthalate	149	11.375	11.371	0.004	93	1840090	10.0	9.85	
149 3,3'-Dichlorobenzidine	252	12.117	12.117	0.000	99	1349541	10.0	9.99	
151 Benzo[a]anthracene	228	12.136	12.131	0.005	99	3760147	10.0	9.33	
150 Bis(2-ethylhexyl) phthalat	149	12.179	12.179	0.000	94	2487488	10.0	9.75	
152 Chrysene	228	12.193	12.188	0.005	98	3581253	10.0	9.19	
155 Di-n-octyl phthalate	149	13.325	13.325	0.000	74	4667294	10.0	10.1	
157 Benzo[b]fluoranthene	252	14.048	14.038	0.010	98	3744911	10.0	9.76	
158 Benzo[k]fluoranthene	252	14.105	14.091	0.014	97	3527009	10.0	9.24	
160 Benzo[a]pyrene	252	14.733	14.723	0.010	95	3644617	10.0	9.88	
163 Indeno[1,2,3-cd]pyrene	276	17.924	17.900	0.024	94	4250972	10.0	10.5	
164 Dibenz(a,h)anthracene	278	18.047	18.014	0.033	95	3547494	10.0	10.4	
165 Benzo[g,h,i]perylene	276	18.675	18.656	0.019	97	3673475	10.0	9.91	
S 170 Total Cresols, TCEQ Defini	1				0			19.6	
S 171 Methyl Phenols, Total	1				0			19.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMIst1_5uLL9_00041

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic50.D

Injection Date: 19-Jul-2018 20:21:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 10

Client ID:

Injection Vol: 5.0 ul

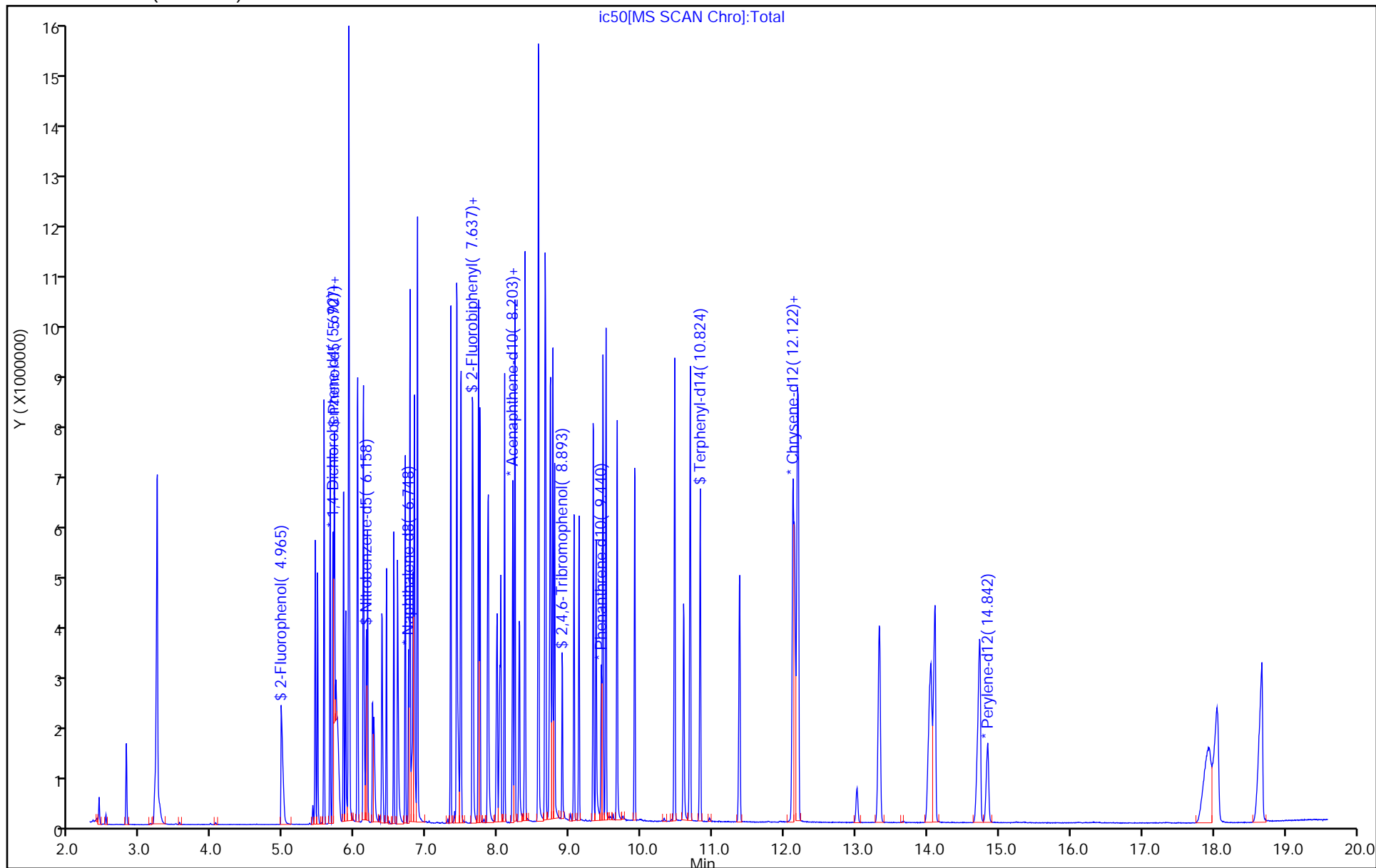
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic60.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 19-Jul-2018 20:48:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-011
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:32:13 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 20-Jul-2018 14:53:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.697	5.692	0.005	93	311818	3.20	3.20	
* 2 Naphthalene-d8	136	6.748	6.748	0.000	99	1253404	3.20	3.20	
* 3 Acenaphthene-d10	164	8.203	8.203	0.000	95	616906	3.20	3.20	
* 4 Phenanthrene-d10	188	9.440	9.440	0.000	98	1072135	3.20	3.20	
* 5 Chrysene-d12	240	12.155	12.150	0.005	97	1019412	3.20	3.20	
* 6 Perylene-d12	264	14.842	14.837	0.005	95	1118794	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.960	4.979	-0.019	96	1309542	12.0	14.4	
\$ 8 Phenol-d5	99	5.707	5.735	-0.028	96	1376221	12.0	12.8	
\$ 9 Nitrobenzene-d5	82	6.158	6.154	0.004	90	1040757	12.0	12.7	
\$ 10 2-Fluorobiphenyl	172	7.637	7.637	0.000	99	2704888	12.0	11.9	
\$ 11 2,4,6-Tribromophenol	330	8.898	8.898	0.000	74	425223	12.0	13.4	
\$ 12 Terphenyl-d14	244	10.824	10.824	0.000	96	2842249	12.0	12.2	
13 1,4-Dioxane	88	2.806	2.801	0.005	87	494611	12.0	12.7	
14 N-Nitrosodimethylamine	42	3.219	3.205	0.014	82	844012	12.0	12.6	
15 Pyridine	79	3.238	3.229	0.009	74	2531062	24.0	23.5	
27 Aniline	93	5.445	5.440	0.005	92	1847904	12.0	12.1	
28 Bis(2-chloroethyl)ether	93	5.478	5.474	0.004	76	1107178	12.0	12.0	
30 n-Decane	43	5.569	5.564	0.005	86	1555091	12.0	13.2	
31 1,3-Dichlorobenzene	146	5.650	5.650	0.000	97	1690842	12.0	11.8	
29 2-Chlorophenol	128	5.683	5.692	-0.009	94	1570075	12.0	12.3	
33 1,4-Dichlorobenzene	146	5.711	5.707	0.004	96	1646594	12.0	11.6	
26 Phenol	94	5.730	5.749	-0.019	94	1722770	12.0	12.4	
37 1,2-Dichlorobenzene	146	5.840	5.835	0.005	97	1648197	12.0	11.9	
36 Benzyl alcohol	108	5.873	5.864	0.009	90	773375	12.0	12.7	
40 Indene	116	5.911	5.911	0.000	91	3684631	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.921	5.916	0.005	90	2441419	12.0	13.3	
44 Acetophenone	105	6.035	6.030	0.005	89	1608882	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.044	6.035	0.009	79	737365	12.0	12.0	
45 Hexachloroethane	117	6.116	6.111	0.005	92	636812	12.0	11.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.106	6.120	-0.014	92	1014257	12.0	12.1	
46 Nitrobenzene	77	6.177	6.173	0.004	90	1157676	12.0	11.8	
42 3 & 4 Methylphenol	108	6.239	6.249	-0.010	96	1404027	12.0	12.2	
48 Isophorone	82	6.377	6.372	0.005	97	1985052	12.0	12.3	
50 2-Nitrophenol	139	6.439	6.434	0.005	93	880938	12.0	12.5	
52 Bis(2-chloroethoxy)methane	93	6.544	6.539	0.005	79	1368618	12.0	11.8	
51 2,4-Dimethylphenol	122	6.591	6.596	-0.005	88	1356102	12.0	12.7	
56 1,2,4-Trichlorobenzene	180	6.700	6.701	-0.001	93	1433787	12.0	12.1	
58 Naphthalene	128	6.767	6.762	0.005	98	3997252	12.0	11.4	
54 Benzoic acid	122	6.815	6.796	0.019	86	947614	24.0	24.4	
55 2,4-Dichlorophenol	162	6.810	6.824	-0.014	93	1362096	12.0	12.7	
60 4-Chloroaniline	127	6.829	6.829	0.000	95	1812965	12.0	12.0	
63 Hexachlorobutadiene	225	6.872	6.867	0.005	93	749664	12.0	11.9	
62 2,6-Dichlorophenol	162	6.872	6.872	0.000	93	1221801	12.0	11.4	
68 2-Methylnaphthalene	142	7.338	7.338	0.000	96	2796547	12.0	11.7	
70 1-Methylnaphthalene	142	7.423	7.419	0.004	96	3600402	12.0	14.2	
66 4-Chloro-3-methylphenol	107	7.423	7.438	-0.015	59	958842	12.0	12.3	
72 Hexachlorocyclopentadiene	237	7.476	7.471	0.005	94	790596	12.0	13.2	
73 1,2,4,5-Tetrachlorobenzene	216	7.485	7.480	0.005	95	1328092	12.0	12.0	
74 2,4,6-Trichlorophenol	196	7.652	7.652	0.000	89	915400	12.0	12.5	
79 1,1'-Biphenyl	154	7.728	7.723	0.005	95	3102577	NC	NC	
80 2-Chloronaphthalene	162	7.747	7.742	0.005	94	2777048	12.0	12.0	
81 2-Nitroaniline	65	7.861	7.856	0.005	82	992426	12.0	12.3	
76 2,4,5-Trichlorophenol	196	7.847	7.861	-0.014	93	957034	12.0	12.3	
82 Dimethyl phthalate	163	7.989	7.980	0.009	95	2994897	12.0	12.3	
83 1,3-Dinitrobenzene	168	8.027	8.013	0.014	82	459153	NC	NC	
84 2,6-Dinitrotoluene	165	8.042	8.032	0.010	88	693512	12.0	13.5	
86 Acenaphthylene	152	8.089	8.084	0.005	98	3802517	12.0	11.9	
88 3-Nitroaniline	138	8.208	8.203	0.005	88	810228	12.0	12.8	
90 Acenaphthene	153	8.237	8.232	0.005	92	2593480	12.0	11.9	
91 2,4-Dinitrophenol	184	8.298	8.294	0.004	79	779221	24.0	26.8	
95 2,4-Dinitrotoluene	165	8.379	8.370	0.009	61	851042	12.0	12.4	
97 Dibenzofuran	168	8.379	8.375	0.005	96	3569943	12.0	11.6	
100 Diethyl phthalate	149	8.560	8.555	0.005	96	2389333	12.0	11.4	
101 Hexadecane	57	8.565	8.565	0.000	83	2058011	NC	NC	
99 2,3,4,6-Tetrachlorophenol	232	8.560	8.565	-0.005	69	661803	12.0	12.6	
103 4-Chlorophenyl phenyl ethe	204	8.655	8.650	0.005	91	1302674	12.0	11.7	
104 Fluorene	166	8.665	8.660	0.005	93	2826555	12.0	11.7	
109 4,6-Dinitro-2-methylphenol	198	8.726	8.717	0.009	88	997746	24.0	26.9	
106 4-Nitroaniline	138	8.736	8.726	0.010	82	774296	12.0	12.4	
92 4-Nitrophenol	109	8.726	8.745	-0.019	73	613007	24.0	27.4	
111 N-Nitrosodiphenylamine	169	8.769	8.760	0.009	63	2068143	12.0	11.8	
98 Diphenylamine	169	8.769	8.760	0.009	94	2068143	NC	NC	
113 1,2-Diphenylhydrazine	77	8.788	8.783	0.005	40	2185309	12.0	11.9	
119 4-Bromophenyl phenyl ether	248	9.059	9.059	0.000	67	818269	12.0	12.0	
122 Hexachlorobenzene	284	9.131	9.126	0.005	96	914069	12.0	11.9	
124 n-Octadecane	43	9.330	9.326	0.004	86	1365053	12.0	12.9	
125 Pentachlorophenol	266	9.368	9.368	0.000	88	834350	24.0	27.7	
127 Phenanthrene	178	9.463	9.464	-0.001	97	4138114	12.0	11.7	
128 Anthracene	178	9.511	9.506	0.005	98	4213877	12.0	11.8	
129 Carbazole	167	9.663	9.663	0.000	96	3840928	12.0	12.0	
133 Di-n-butyl phthalate	149	9.911	9.906	0.004	99	4514750	12.0	12.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.467	10.467	0.000	98	4537807	12.0	12.1	
138 Benzidine	184	10.595	10.591	0.004	97	2448864	12.0	14.6	
141 Pyrene	202	10.686	10.681	0.005	96	4685064	12.0	12.0	
147 Butyl benzyl phthalate	149	11.375	11.371	0.004	92	2180819	12.0	12.6	
149 3,3'-Dichlorobenzidine	252	12.122	12.117	0.005	99	1624934	12.0	12.9	
151 Benzo[a]anthracene	228	12.136	12.131	0.005	98	4459679	12.0	11.9	
150 Bis(2-ethylhexyl) phthalat	149	12.184	12.179	0.005	94	2936941	12.0	12.4	
152 Chrysene	228	12.198	12.188	0.010	98	4259411	12.0	11.8	
155 Di-n-octyl phthalate	149	13.330	13.325	0.005	74	5564069	12.0	12.9	
157 Benzo[b]fluoranthene	252	14.053	14.038	0.015	98	4771513	12.0	13.4	
158 Benzo[k]fluoranthene	252	14.114	14.091	0.023	97	3977481	12.0	11.3	
160 Benzo[a]pyrene	252	14.737	14.723	0.014	95	4408567	12.0	12.9	
163 Indeno[1,2,3-cd]pyrene	276	17.947	17.900	0.047	94	5129224	12.0	13.7	
164 Dibenz(a,h)anthracene	278	18.071	18.014	0.057	95	4247650	12.0	13.5	
165 Benzo[g,h,i]perylene	276	18.680	18.656	0.024	97	4379039	12.0	12.8	
S 171 Methyl Phenols, Total	1				0			24.3	
S 170 Total Cresols, TCEQ Defini	1				0			24.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMIst1_5uLL10_00041

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic60.D

Injection Date: 19-Jul-2018 20:48:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 11

Client ID:

Injection Vol: 5.0 ul

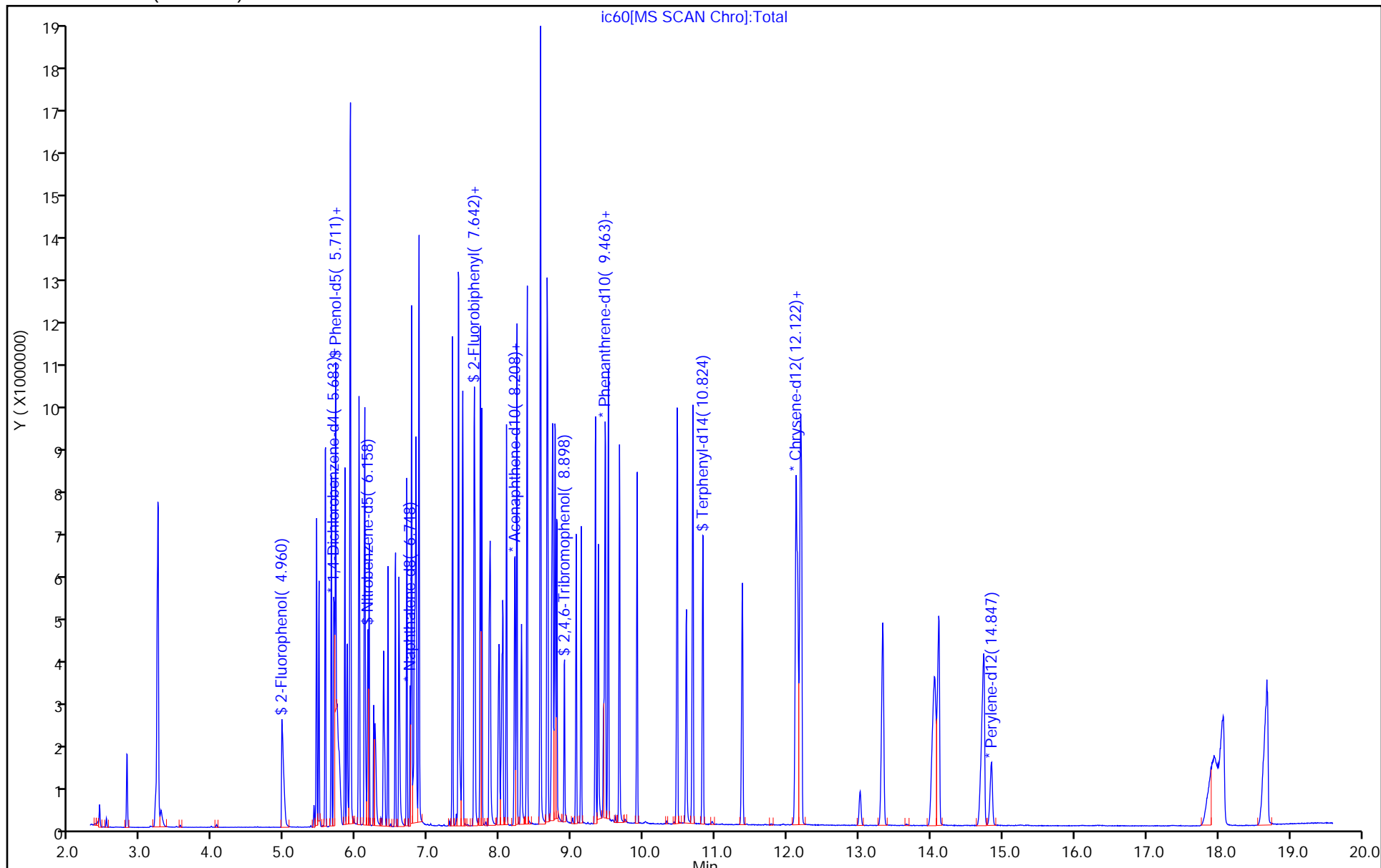
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 19-Jul-2018 21:16:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0053770-012
 Operator ID: GES Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 20-Jul-2018 15:32:24 Calib Date: 19-Jul-2018 21:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 20-Jul-2018 14:55:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.692	5.692	0.000	92	309888	3.20	3.20	
* 2 Naphthalene-d8	136	6.748	6.748	0.000	99	1288931	3.20	3.20	
* 3 Acenaphthene-d10	164	8.203	8.203	0.000	95	620246	3.20	3.20	
* 4 Phenanthrene-d10	188	9.445	9.440	0.005	98	1092739	3.20	3.20	
* 5 Chrysene-d12	240	12.155	12.150	0.005	98	1030053	3.20	3.20	
* 6 Perylene-d12	264	14.847	14.837	0.010	95	1152547	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.955	4.979	-0.024	95	1517294	14.0	16.8	
\$ 8 Phenol-d5	99	5.702	5.735	-0.033	97	1606587	14.0	15.0	
\$ 9 Nitrobenzene-d5	82	6.158	6.154	0.004	89	1196802	14.0	14.2	
\$ 10 2-Fluorobiphenyl	172	7.642	7.637	0.005	99	3068221	14.0	13.4	
\$ 11 2,4,6-Tribromophenol	330	8.898	8.898	0.000	74	490879	14.0	15.4	
\$ 12 Terphenyl-d14	244	10.828	10.824	0.004	98	3276290	14.0	13.9	
13 1,4-Dioxane	88	2.806	2.801	0.005	87	588868	14.0	15.3	
14 N-Nitrosodimethylamine	42	3.224	3.205	0.019	79	1010516	14.0	15.2	
15 Pyridine	79	3.238	3.229	0.009	73	2962564	28.0	27.7	
27 Aniline	93	5.445	5.440	0.005	92	2140797	14.0	14.1	
28 Bis(2-chloroethyl)ether	93	5.478	5.474	0.004	75	1269204	14.0	13.9	
30 n-Decane	43	5.569	5.564	0.005	87	1843334	14.0	15.7	
31 1,3-Dichlorobenzene	146	5.650	5.650	0.000	97	1947116	14.0	13.7	
29 2-Chlorophenol	128	5.678	5.692	-0.014	94	1839967	14.0	14.5	
33 1,4-Dichlorobenzene	146	5.711	5.707	0.004	95	1887971	14.0	13.4	
26 Phenol	94	5.716	5.749	-0.033	94	1988137	14.0	14.4	
37 1,2-Dichlorobenzene	146	5.840	5.835	0.005	97	1898471	14.0	13.8	
36 Benzyl alcohol	108	5.873	5.864	0.009	89	937082	14.0	15.5	
40 Indene	116	5.916	5.911	0.005	91	4193626	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.921	5.916	0.005	90	2913602	14.0	15.9	
44 Acetophenone	105	6.035	6.030	0.005	89	1859276	NC	NC	
43 N-Nitrosodi-n-propylamine	70	6.044	6.035	0.009	78	862143	14.0	14.1	
45 Hexachloroethane	117	6.116	6.111	0.005	92	728195	14.0	13.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
38 2-Methylphenol	107	6.101	6.120	-0.019	94	1175951	14.0	14.1	
46 Nitrobenzene	77	6.177	6.173	0.004	89	1328922	14.0	13.2	
42 3 & 4 Methylphenol	108	6.235	6.249	-0.015	96	1670221	14.0	14.6	
48 Isophorone	82	6.382	6.372	0.010	97	2331632	14.0	14.0	
50 2-Nitrophenol	139	6.439	6.434	0.005	93	1032899	14.0	14.2	
52 Bis(2-chloroethoxy)methane	93	6.544	6.539	0.005	79	1592633	14.0	13.4	
51 2,4-Dimethylphenol	122	6.586	6.596	-0.010	88	1552996	14.0	14.2	
56 1,2,4-Trichlorobenzene	180	6.701	6.701	0.000	93	1643354	14.0	13.5	
58 Naphthalene	128	6.767	6.762	0.005	98	4578123	14.0	12.7	
54 Benzoic acid	122	6.824	6.796	0.028	88	1088765	28.0	27.2	
55 2,4-Dichlorophenol	162	6.800	6.824	-0.024	92	1583008	14.0	14.4	
60 4-Chloroaniline	127	6.834	6.829	0.005	95	2088781	14.0	13.5	
63 Hexachlorobutadiene	225	6.872	6.867	0.005	78	871270	14.0	13.4	
62 2,6-Dichlorophenol	162	6.872	6.872	0.000	93	1387426	14.0	12.6	
68 2-Methylnaphthalene	142	7.338	7.338	0.000	96	3162090	14.0	12.9	
70 1-Methylnaphthalene	142	7.423	7.419	0.004	97	4062359	14.0	15.6	
66 4-Chloro-3-methylphenol	107	7.419	7.438	-0.019	85	1101824	14.0	13.8	
72 Hexachlorocyclopentadiene	237	7.476	7.471	0.005	94	926343	14.0	15.3	
73 1,2,4,5-Tetrachlorobenzene	216	7.485	7.480	0.005	94	1499444	14.0	13.4	
74 2,4,6-Trichlorophenol	196	7.652	7.652	0.000	92	1041412	14.0	14.2	
79 1,1'-Biphenyl	154	7.728	7.723	0.005	95	3565315	NC	NC	
80 2-Chloronaphthalene	162	7.747	7.742	0.005	94	3176935	14.0	13.7	
81 2-Nitroaniline	65	7.866	7.856	0.010	82	1157816	14.0	14.3	
76 2,4,5-Trichlorophenol	196	7.847	7.861	-0.014	93	1138721	14.0	14.5	
82 Dimethyl phthalate	163	7.989	7.980	0.009	95	3478998	14.0	14.2	
83 1,3-Dinitrobenzene	168	8.032	8.013	0.019	81	521946	NC	NC	
84 2,6-Dinitrotoluene	165	8.042	8.032	0.010	87	798889	14.0	15.5	
86 Acenaphthylene	152	8.094	8.084	0.010	98	4374490	14.0	13.6	
88 3-Nitroaniline	138	8.213	8.203	0.010	85	922545	14.0	14.5	
90 Acenaphthene	153	8.237	8.232	0.005	92	2924711	14.0	13.3	
91 2,4-Dinitrophenol	184	8.303	8.294	0.009	79	965172	28.0	33.0	
95 2,4-Dinitrotoluene	165	8.384	8.370	0.014	88	972327	14.0	14.1	
97 Dibenzofuran	168	8.379	8.375	0.005	97	4056357	14.0	13.1	
100 Diethyl phthalate	149	8.565	8.555	0.010	97	2723137	14.0	12.9	
99 2,3,4,6-Tetrachlorophenol	232	8.560	8.565	-0.005	70	762481	14.0	14.4	
101 Hexadecane	57	8.565	8.565	0.000	83	2333648	NC	NC	
103 4-Chlorophenyl phenyl ethe	204	8.655	8.650	0.005	91	1495871	14.0	13.4	
104 Fluorene	166	8.665	8.660	0.005	94	3240779	14.0	13.3	
109 4,6-Dinitro-2-methylphenol	198	8.731	8.717	0.014	87	1138362	28.0	30.1	
106 4-Nitroaniline	138	8.741	8.726	0.015	83	897586	14.0	14.3	
92 4-Nitrophenol	109	8.717	8.745	-0.028	85	715096	28.0	31.8	
98 Diphenylamine	169	8.769	8.760	0.009	91	2389621	NC	NC	
111 N-Nitrosodiphenylamine	169	8.769	8.760	0.009	64	2389621	14.0	13.4	
113 1,2-Diphenylhydrazine	77	8.793	8.783	0.010	40	2510855	14.0	13.7	
119 4-Bromophenyl phenyl ether	248	9.064	9.059	0.005	66	942676	14.0	13.6	
122 Hexachlorobenzene	284	9.135	9.126	0.009	96	1045034	14.0	13.4	
124 n-Octadecane	43	9.330	9.326	0.004	87	1608336	14.0	15.0	
125 Pentachlorophenol	266	9.373	9.368	0.005	88	1033575	28.0	33.7	
127 Phenanthrene	178	9.468	9.464	0.004	97	4758334	14.0	13.2	
128 Anthracene	178	9.511	9.506	0.005	98	4776843	14.0	13.1	
129 Carbazole	167	9.668	9.663	0.005	96	4303124	14.0	13.1	
133 Di-n-butyl phthalate	149	9.911	9.906	0.005	99	5150883	14.0	13.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.472	10.467	0.005	98	5201422	14.0	13.6	
138 Benzidine	184	10.595	10.591	0.004	97	2804763	14.0	16.6	
141 Pyrene	202	10.690	10.681	0.009	96	5405315	14.0	13.7	
147 Butyl benzyl phthalate	149	11.375	11.371	0.004	92	2546230	14.0	14.5	
149 3,3'-Dichlorobenzidine	252	12.127	12.117	0.010	99	1838205	14.0	14.5	
151 Benzo[a]anthracene	228	12.141	12.131	0.010	98	5274206	14.0	13.9	
150 Bis(2-ethylhexyl) phthalat	149	12.184	12.179	0.005	94	3461736	14.0	14.5	
152 Chrysene	228	12.203	12.188	0.015	98	4836529	14.0	13.2	
155 Di-n-octyl phthalate	149	13.335	13.325	0.010	74	6488702	14.0	14.7	
157 Benzo[b]fluoranthene	252	14.067	14.038	0.029	98	5728210	14.0	15.7	
158 Benzo[k]fluoranthene	252	14.119	14.091	0.028	97	4409743	14.0	12.1	
160 Benzo[a]pyrene	252	14.747	14.723	0.024	95	5119217	14.0	14.6	
163 Indeno[1,2,3-cd]pyrene	276	17.971	17.900	0.071	96	5954524	14.0	15.5	
164 Dibenz(a,h)anthracene	278	18.090	18.014	0.076	94	4924499	14.0	15.2	
165 Benzo[g,h,i]perylene	276	18.699	18.656	0.043	97	5065841	14.0	14.3	
S 170 Total Cresols, TCEQ Defini	1				0			28.7	
S 171 Methyl Phenols, Total	1				0			28.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMIst1_5uLL11_00041

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\ic70.D

Injection Date: 19-Jul-2018 21:16:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: ic

Worklist Smp#: 12

Client ID:

Injection Vol: 5.0 ul

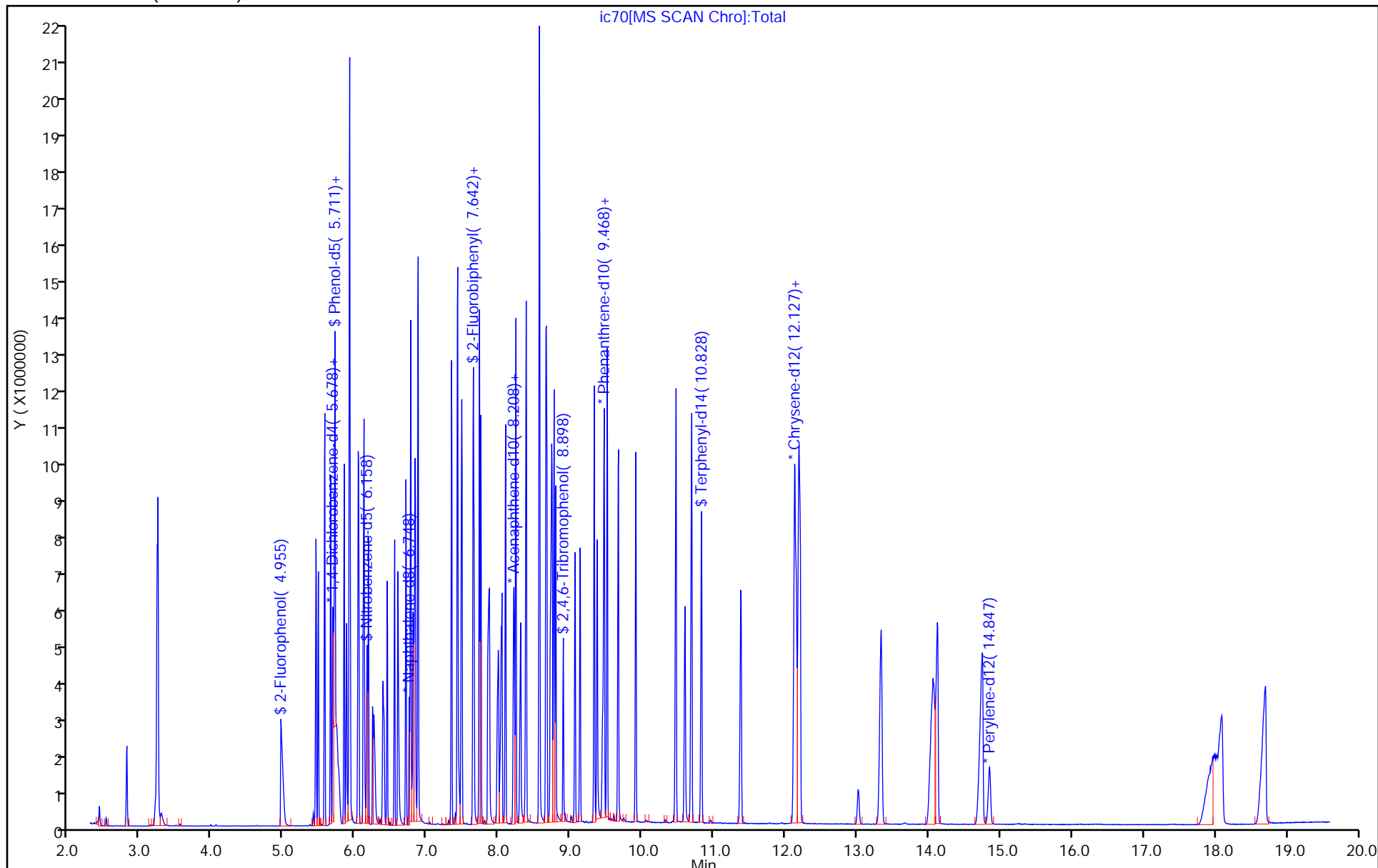
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448229/3 Calibration Date: 09/04/2018 12:41
 Instrument ID: CMS01 Calib Start Date: 07/19/2018 16:38
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 07/19/2018 21:16
 Lab File ID: 1C0904b.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.8937	0.9738	0.0100	8.72	8.00	9.0	20.0
Fluorene	Ave	1.254	1.171	0.0100	7.47	8.00	-6.7	20.0
Phenanthrene	Ave	1.053	1.112	0.0100	8.45	8.00	5.6	20.0
Anthracene	Ave	1.067	1.161	0.0100	8.70	8.00	8.8	20.0
Fluoranthene	Ave	1.121	1.197	0.0100	8.54	8.00	6.8	20.0
Pyrene	Ave	1.225	1.337	0.0100	8.73	8.00	9.2	20.0
Benzo[a]pyrene	Ave	0.9765	1.032	0.0100	8.45	8.00	5.7	20.0
Nitrobenzene-d5	Ave	0.2089	0.2328	0.0100	8.92	8.00	11.5	20.0
2-Fluorobiphenyl	Ave	1.178	1.147	0.0100	7.79	8.00	-2.6	20.0
Terphenyl-d14	Ave	0.7324	0.7054	0.0100	7.70	8.00	-3.7	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1C0904b.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 04-Sep-2018 12:41:30 ALS Bottle#: 2 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 500-0054817-003
 Operator ID: AD Instrument ID: CMS01
 Sublist: chrom-1-LVI8270*sub115
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 11:12:44 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: diaza Date: 04-Sep-2018 15:17:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	93	273822	3.20	3.20	
* 2 Naphthalene-d8	136	6.381	6.381	0.000	98	1017561	3.20	3.20	
* 3 Acenaphthene-d10	164	7.832	7.832	0.000	94	461801	3.20	3.20	
* 4 Phenanthrene-d10	188	9.054	9.054	0.000	98	594326	3.20	3.20	
* 5 Chrysene-d12	240	11.513	11.513	0.000	96	531100	3.20	3.20	s
* 6 Perylene-d12	264	13.800	13.800	0.000	92	564824	3.20	3.20	s
\$ 7 2-Fluorophenol	112	4.213	4.213	0.000	91	829289	8.00	10.4	
\$ 8 Phenol-d5	99	5.093	5.093	0.000	96	827722	8.00	8.76	
\$ 9 Nitrobenzene-d5	82	5.787	5.787	0.000	86	592294	8.00	8.92	
\$ 10 2-Fluorobiphenyl	172	7.280	7.280	0.000	98	1324752	8.00	7.79	
\$ 11 2,4,6-Tribromophenol	330	8.493	8.493	0.000	85	169728	8.00	7.14	
\$ 12 Terphenyl-d14	244	10.376	10.376	0.000	97	936564	8.00	7.70	
13 1,4-Dioxane	88	2.063	2.063	0.000	77	282675	8.00	8.29	
14 N-Nitrosodimethylamine	42	2.387	2.387	0.000	80	475232	8.00	8.10	
15 Pyridine	79	2.410	2.410	0.000	77	1605364	16.0	17.0	
27 Aniline	93	5.045	5.045	0.000	91	1202215	8.00	8.96	
28 Bis(2-chloroethyl)ether	93	5.097	5.097	0.000	69	692810	8.00	8.58	
26 Phenol	94	5.107	5.107	0.000	91	1032050	8.00	8.45	
29 2-Chlorophenol	128	5.164	5.164	0.000	90	990582	8.00	8.85	
30 n-Decane	43	5.197	5.197	0.000	77	912159	8.00	8.79	
31 1,3-Dichlorobenzene	146	5.264	5.264	0.000	98	1009530	8.00	8.04	
33 1,4-Dichlorobenzene	146	5.326	5.326	0.000	95	1030694	8.00	8.26	
37 1,2-Dichlorobenzene	146	5.454	5.454	0.000	98	982236	8.00	8.06	
36 Benzyl alcohol	108	5.464	5.464	0.000	90	522726	8.00	9.77	
40 Indene	116	5.535	5.535	0.000	90	2563145	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.559	5.559	0.000	91	1419736	8.00	8.78	
38 2-Methylphenol	107	5.597	5.597	0.000	93	551436	8.00	7.49	
44 Acetophenone	105	5.663	5.663	0.000	91	960857	NC	NC	
43 N-Nitrosodi-n-propylamine	70	5.682	5.682	0.000	78	429862	8.00	7.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
42 3 & 4 Methylphenol	108	5.725	5.725	0.000	95	767183	8.00	7.59	
45 Hexachloroethane	117	5.739	5.739	0.000	94	449865	8.00	9.57	
46 Nitrobenzene	77	5.806	5.806	0.000	89	641379	8.00	8.06	
48 Isophorone	82	6.010	6.010	0.000	96	1093387	8.00	8.33	
50 2-Nitrophenol	139	6.072	6.072	0.000	89	488883	8.00	8.53	
51 2,4-Dimethylphenol	122	6.148	6.148	0.000	88	763065	8.00	8.83	
52 Bis(2-chloroethoxy)methane	93	6.191	6.191	0.000	70	770092	8.00	8.19	
55 2,4-Dichlorophenol	162	6.301	6.301	0.000	87	703727	8.00	8.10	
56 1,2,4-Trichlorobenzene	180	6.339	6.339	0.000	95	701499	8.00	7.28	
54 Benzoic acid	122	6.343	6.343	0.000	87	918353	16.0	29.1	E
58 Naphthalene	128	6.400	6.400	0.000	98	2477214	8.00	8.72	
60 4-Chloroaniline	127	6.462	6.462	0.000	93	1103845	8.00	9.03	
62 2,6-Dichlorophenol	162	6.472	6.472	0.000	85	667079	8.00	7.68	
63 Hexachlorobutadiene	225	6.510	6.510	0.000	97	354450	8.00	6.91	
66 4-Chloro-3-methylphenol	107	6.904	6.904	0.000	89	587266	8.00	9.31	
68 2-Methylnaphthalene	142	6.976	6.976	0.000	96	1570175	8.00	8.10	
70 1-Methylnaphthalene	142	7.057	7.057	0.000	95	1486576	8.00	7.22	
72 Hexachlorocyclopentadiene	237	7.114	7.114	0.000	94	297791	8.00	6.63	
73 1,2,4,5-Tetrachlorobenzene	216	7.118	7.118	0.000	97	623605	8.00	7.51	
74 2,4,6-Trichlorophenol	196	7.228	7.228	0.000	92	436909	8.00	7.98	
76 2,4,5-Trichlorophenol	196	7.280	7.280	0.000	58	461930	8.00	7.91	
79 1,1'-Biphenyl	154	7.361	7.361	0.000	95	1641057	NC	NC	
80 2-Chloronaphthalene	162	7.375	7.375	0.000	96	1417620	8.00	8.18	
81 2-Nitroaniline	65	7.480	7.480	0.000	75	688117	8.00	11.4	
82 Dimethyl phthalate	163	7.623	7.623	0.000	97	1364241	8.00	7.50	
83 1,3-Dinitrobenzene	168	7.661	7.661	0.000	81	190056	NC	NC	
84 2,6-Dinitrotoluene	165	7.675	7.675	0.000	83	314444	8.00	8.17	
86 Acenaphthylene	152	7.713	7.713	0.000	97	1955006	8.00	8.16	
88 3-Nitroaniline	138	7.827	7.827	0.000	79	427785	8.00	9.02	
90 Acenaphthene	153	7.860	7.860	0.000	92	1290266	8.00	7.88	
91 2,4-Dinitrophenol	184	7.917	7.917	0.000	70	333305	16.0	15.3	
97 Dibenzofuran	168	8.003	8.003	0.000	96	1787832	8.00	7.77	
95 2,4-Dinitrotoluene	165	8.013	8.013	0.000	85	424373	8.00	8.28	
92 4-Nitrophenol	109	8.041	8.041	0.000	85	313671	16.0	18.7	
99 2,3,4,6-Tetrachlorophenol	232	8.127	8.127	0.000	78	328107	8.00	8.32	
100 Diethyl phthalate	149	8.203	8.203	0.000	96	1326542	8.00	8.46	
101 Hexadecane	57	8.217	8.217	0.000	73	1965324	NC	NC	
104 Fluorene	166	8.284	8.284	0.000	94	1351627	8.00	7.47	
103 4-Chlorophenyl phenyl ethe	204	8.284	8.284	0.000	93	525250	8.00	6.30	
106 4-Nitroaniline	138	8.341	8.341	0.000	72	397570	8.00	8.50	
109 4,6-Dinitro-2-methylphenol	198	8.355	8.355	0.000	88	368428	16.0	17.9	
111 N-Nitrosodiphenylamine	169	8.388	8.388	0.000	65	885763	8.00	9.15	
98 Diphenylamine	169	8.388	8.388	0.000	92	885763	NC	NC	
113 1,2-Diphenylhydrazine	77	8.417	8.417	0.000	45	1179841	8.00	8.62	
119 4-Bromophenyl phenyl ether	248	8.683	8.683	0.000	77	297122	8.00	7.88	
122 Hexachlorobenzene	284	8.745	8.745	0.000	93	347185	8.00	8.18	
125 Pentachlorophenol	266	8.926	8.926	0.000	94	358355	16.0	21.5	
124 n-Octadecane	43	8.973	8.973	0.000	76	760070	8.00	13.0	
127 Phenanthrene	178	9.073	9.073	0.000	98	1652475	8.00	8.45	
128 Anthracene	178	9.116	9.116	0.000	99	1724595	8.00	8.70	
129 Carbazole	167	9.263	9.263	0.000	96	1604917	8.00	9.01	
133 Di-n-butyl phthalate	149	9.539	9.539	0.000	99	2115555	8.00	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.053	10.053	0.000	98	1778905	8.00	8.54	
138 Benzidine	184	10.176	10.176	0.000	98	871583	8.00	9.98	
141 Pyrene	202	10.243	10.243	0.000	97	1775553	8.00	8.73	
147 Butyl benzyl phthalate	149	10.856	10.856	0.000	93	982470	8.00	10.9	
149 3,3'-Dichlorobenzidine	252	11.489	11.489	0.000	95	544633	8.00	8.33	
151 Benzo[a]anthracene	228	11.498	11.498	0.000	98	1634710	8.00	8.38	
152 Chrysene	228	11.551	11.551	0.000	98	1454275	8.00	7.71	
150 Bis(2-ethylhexyl) phthalat	149	11.565	11.565	0.000	89	1379170	8.00	11.2	
155 Di-n-octyl phthalate	149	12.535	12.535	0.000	75	2535327	8.00	10.6	
157 Benzo[b]fluoranthene	252	13.115	13.115	0.000	95	1470453	8.00	8.20	
158 Benzo[k]fluoranthene	252	13.168	13.168	0.000	95	1392309	8.00	7.81	
160 Benzo[a]pyrene	252	13.700	13.700	0.000	93	1457079	8.00	8.45	
163 Indeno[1,2,3-cd]pyrene	276	16.211	16.211	0.000	90	1685601	8.00	8.95	
164 Dibenz(a,h)anthracene	278	16.302	16.302	0.000	90	1293995	8.00	8.14	
165 Benzo[g,h,i]perylene	276	16.948	16.948	0.000	91	1325249	8.00	7.65	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

s - Failed ISTD Recovery Test

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL8x_00152

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1C0904b.D

Injection Date: 04-Sep-2018 12:41:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: ccvis

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

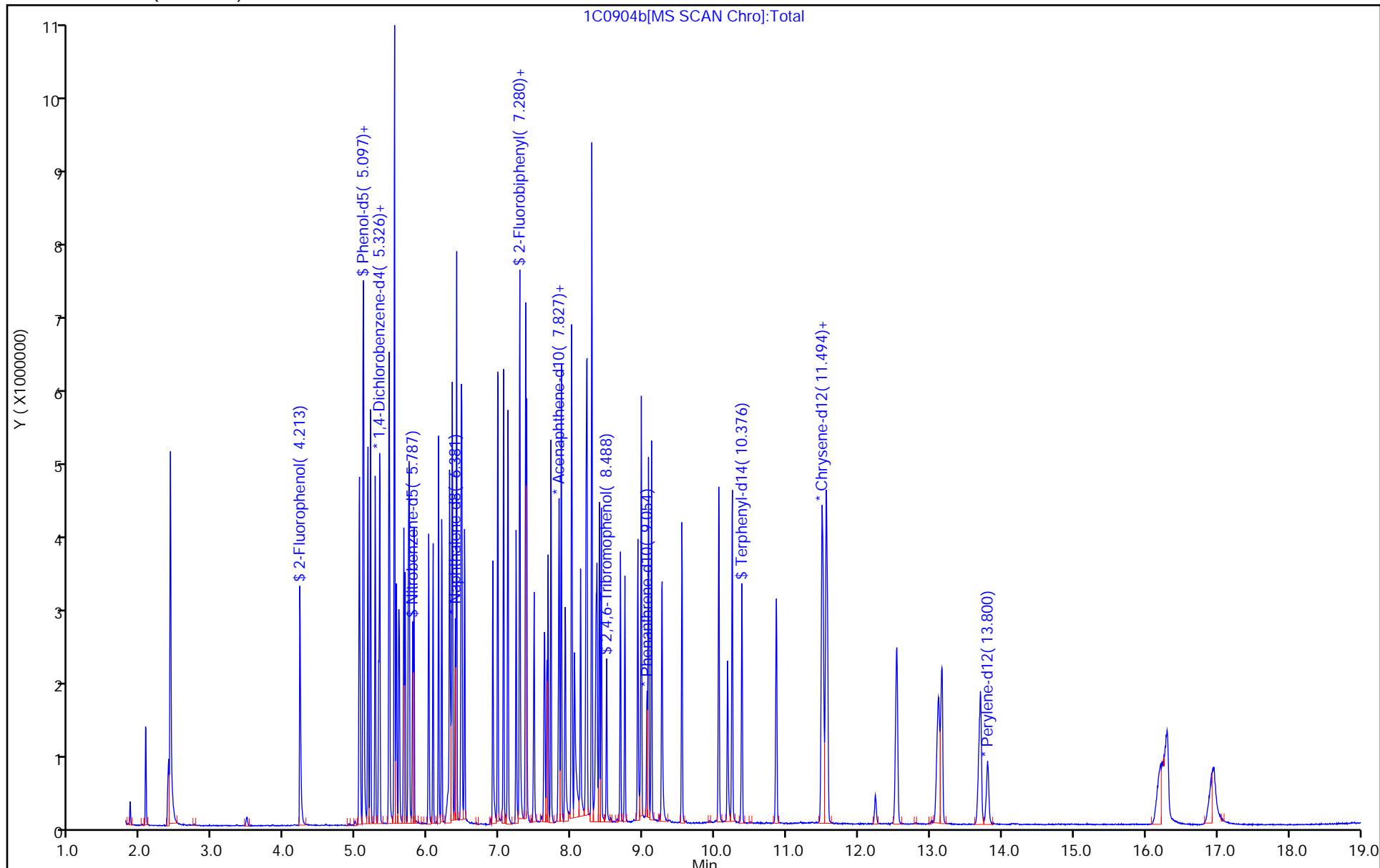
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 19-Jul-2018 16:10:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: 500-0053767-001
 Operator ID: GES Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 19-Jul-2018 16:40:42 Calib Date: 18-Jul-2018 14:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180718-53731.b\1C0718F.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: swaneyg Date: 19-Jul-2018 16:40:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
125 Pentachlorophenol	266	9.368	9.368	0.000	88	282589	NR	NR	
138 Benzidine	184	10.591	10.591	0.000	97	2698576	NR	NR	
166 DFTPP									
167 4,4'-DDE	246	10.771	10.771	0.000	86	3191		NR	
168 4,4'-DDD	235	11.171	11.171	0.000	90	7441		NR	
169 4,4'-DDT	235	11.499	11.499	0.000	98	1326879	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

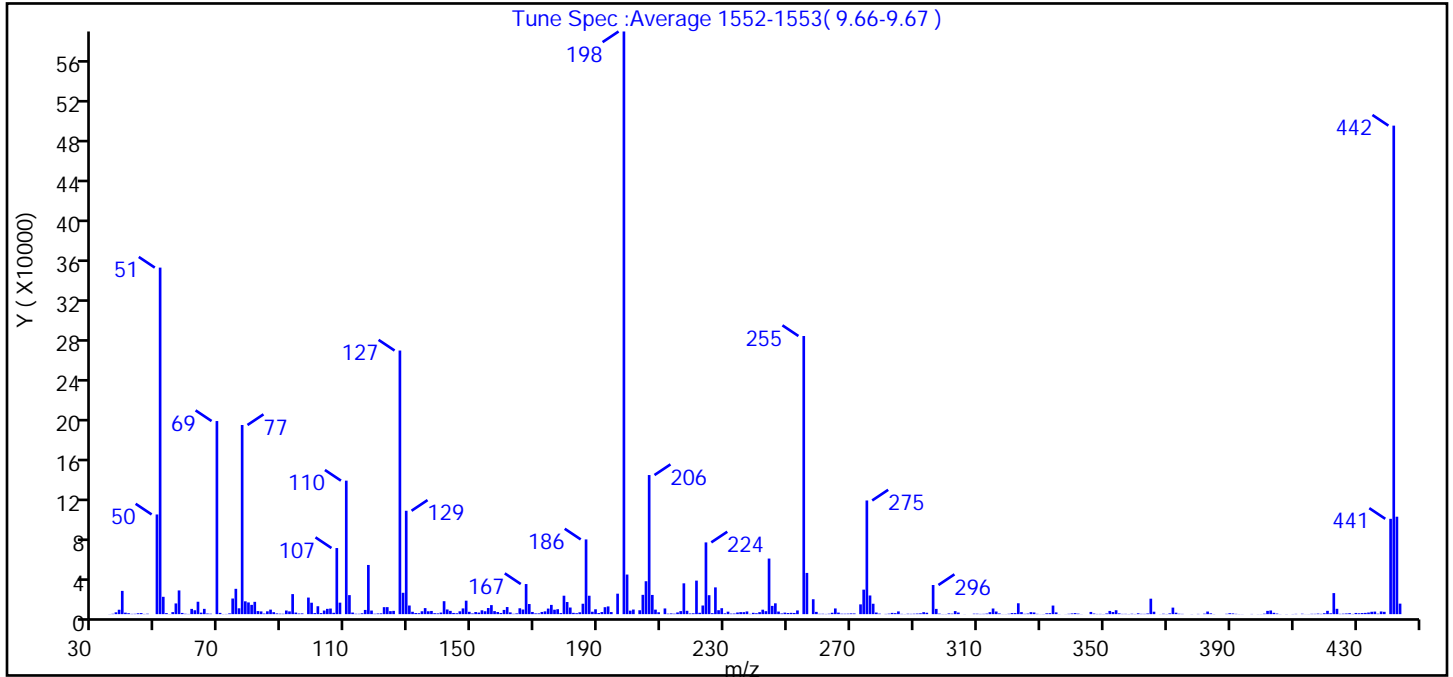
Reagents:

HIVOL_DFTPPWK_00111 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D
 Injection Date: 19-Jul-2018 16:10:30 Instrument ID: CMS01
 Lims ID: dftpp
 Client ID:
 Operator ID: GES ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
 Tune Method: DFTPP Method 625

166 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100.0
51	30-60 percent of Mass 198	59.5
68	Less than 2 percent of Mass 69	0.0 (0.0)
69	Present	33.1
70	Less than 2 percent of Mass 69	0.2 (0.7)
127	40-60 percent of Mass 198	45.2
197	Less than 1 percent of Mass 198	0.0
199	5-9 percent of Mass 198	6.8
275	10-30 percent of Mass 198	19.5
365	Greater than 1 percent of Mass 198	2.7
441	Present but less than Mass 443	16.4 (97.8)
442	Greater than 40 percent of Mass 198	83.8
443	17-23 percent of Mass 442	16.7 (19.9)

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D\1-LVI8270.rsl\spectra.d
Injection Date: 19-Jul-2018 16:10:30
Spectrum: Tune Spec :Average 1552-1553(9.66-9.67)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	116	135.00	6057	233.00	614	335.00	1751
36.00	363	136.00	2884	234.00	1667	336.00	92
37.00	1817	137.00	3210	235.00	2036	338.00	83
38.00	4427	138.00	960	236.00	1992	339.00	339
39.00	23352	139.00	783	237.00	2705	340.00	720
40.00	1482	140.00	1575	238.00	287	341.00	1054
41.00	932	141.00	13002	239.00	1354	342.00	530
42.00	280	142.00	4700	240.00	925	343.00	101
43.00	358	143.00	3281	241.00	1997	346.00	2218
44.00	896	144.00	1192	242.00	4470	347.00	631
45.00	1074	145.00	894	243.00	2972	348.00	215
46.00	193	146.00	2862	244.00	55808	349.00	261
47.00	440	147.00	5756	245.00	8286	350.00	143
50.00	100072	148.00	13526	246.00	10864	351.00	672
51.00	347904	149.00	2343	247.00	2586	352.00	3227
52.00	17408	150.00	718	248.00	704	353.00	2123
53.00	1022	151.00	2126	249.00	1530	354.00	3913
54.00	132	152.00	1580	250.00	1131	355.00	750
55.00	2036	153.00	3856	251.00	1317	356.00	259
56.00	10761	154.00	2903	252.00	1173	357.00	306
57.00	23808	155.00	6134	253.00	3713	358.00	160
58.00	1222	156.00	9069	255.00	279232	359.00	406
59.00	391	157.00	3035	256.00	41392	360.00	162
60.00	208	158.00	2139	258.00	14971	361.00	868
61.00	5278	159.00	1165	259.00	2274	362.00	300
62.00	3899	160.00	4235	260.00	330	363.00	276
63.00	12458	161.00	7130	261.00	381	364.00	678
64.00	1497	162.00	1776	262.00	216	365.00	15517
65.00	5307	163.00	354	263.00	419	366.00	2442
66.00	645	164.00	763	264.00	1394	368.00	85
67.00	441	165.00	5899	265.00	5724	369.00	422
69.00	193856	166.00	4646	266.00	1532	370.00	158
70.00	1261	167.00	30224	267.00	438	371.00	766

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D\1-LVI8270.rslt\spectra.d

Injection Date: 19-Jul-2018 16:10:30

Spectrum: Tune Spec :Average 1552-1553(9.66-9.67)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	146	168.00	10157	268.00	423	372.00	6557
72.00	194	169.00	2194	269.00	504	373.00	1436
73.00	760	170.00	779	270.00	761	374.00	378
74.00	15683	171.00	767	271.00	698	375.00	265
75.00	25424	172.00	2208	273.00	9818	378.00	123
76.00	5878	173.00	2796	274.00	24600	380.00	252
77.00	189888	174.00	5584	275.00	114120	382.00	491
78.00	12875	175.00	9283	276.00	18736	383.00	2617
79.00	11763	176.00	4461	277.00	10436	384.00	810
80.00	9315	177.00	4967	278.00	1613	385.00	126
81.00	12362	178.00	1081	279.00	506	389.00	345
82.00	3075	179.00	18512	281.00	238	390.00	937
83.00	2746	180.00	12174	282.00	486	391.00	704
84.00	588	181.00	6648	283.00	1263	392.00	302
85.00	2835	182.00	1329	284.00	982	393.00	116
86.00	4544	183.00	965	285.00	2746	394.00	101
87.00	1973	184.00	1860	286.00	286	397.00	202
88.00	735	185.00	10458	287.00	116	399.00	100
89.00	460	186.00	75024	288.00	420	400.00	94
90.00	384	187.00	18480	289.00	315	401.00	497
91.00	3651	188.00	2416	290.00	431	402.00	3280
92.00	2771	189.00	4894	291.00	601	403.00	3681
93.00	20120	190.00	1107	292.00	842	404.00	1360
94.00	1584	191.00	2109	293.00	1989	405.00	587
95.00	613	192.00	6977	294.00	1411	406.00	111
96.00	742	193.00	7768	296.00	29256	408.00	141
98.00	16648	194.00	2094	297.00	5276	410.00	153
99.00	11468	196.00	20552	298.00	519	411.00	282
100.00	1047	198.00	584960	299.00	137	413.00	415
101.00	7940	199.00	39752	300.00	142	414.00	77
102.00	1055	200.00	3518	301.00	735	415.00	105
103.00	3615	201.00	4618	302.00	496	416.00	331
104.00	5315	203.00	3901	303.00	3047	417.00	307
105.00	5623	204.00	19384	304.00	1611	418.00	576

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D\1-LVI8270.rslt\spectra.d

Injection Date: 19-Jul-2018 16:10:30

Spectrum: Tune Spec :Average 1552-1553(9.66-9.67)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
106.00	1346	205.00	33048	306.00	86	419.00	286
107.00	66368	206.00	139648	309.00	459	420.00	891
108.00	11530	207.00	19280	310.00	432	421.00	3324
110.00	134016	208.00	4536	311.00	238	422.00	859
111.00	19096	209.00	1873	312.00	311	423.00	21120
112.00	1598	211.00	5716	313.00	555	424.00	5357
113.00	393	212.00	479	314.00	1978	425.00	305
114.00	358	213.00	729	315.00	5659	426.00	469
115.00	862	214.00	458	316.00	2645	427.00	682
116.00	4224	215.00	1718	317.00	708	428.00	974
117.00	49376	216.00	3048	318.00	98	429.00	226
118.00	3600	217.00	30936	319.00	106	430.00	1200
119.00	404	218.00	3356	320.00	365	431.00	866
120.00	691	219.00	679	321.00	1073	432.00	1106
121.00	810	220.00	840	322.00	1067	433.00	1255
122.00	7011	221.00	33664	323.00	10926	434.00	1623
123.00	7039	222.00	1361	324.00	2041	435.00	2381
124.00	3022	223.00	8677	325.00	327	436.00	2564
125.00	3279	224.00	72032	326.00	577	437.00	455
127.00	264640	225.00	19016	327.00	2025	438.00	2681
128.00	21440	226.00	980	328.00	1670	439.00	2334
129.00	103792	227.00	26864	329.00	296	441.00	95696
130.00	8663	228.00	3953	330.00	77	442.00	490432
131.00	2377	229.00	5979	331.00	142	443.00	97824
132.00	1104	230.00	825	332.00	866	444.00	10555
133.00	926	231.00	2486	333.00	1015		
134.00	2892	232.00	535	334.00	8622		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D

Injection Date: 19-Jul-2018 16:10:30

Instrument ID: CMS01

Operator ID: GES

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

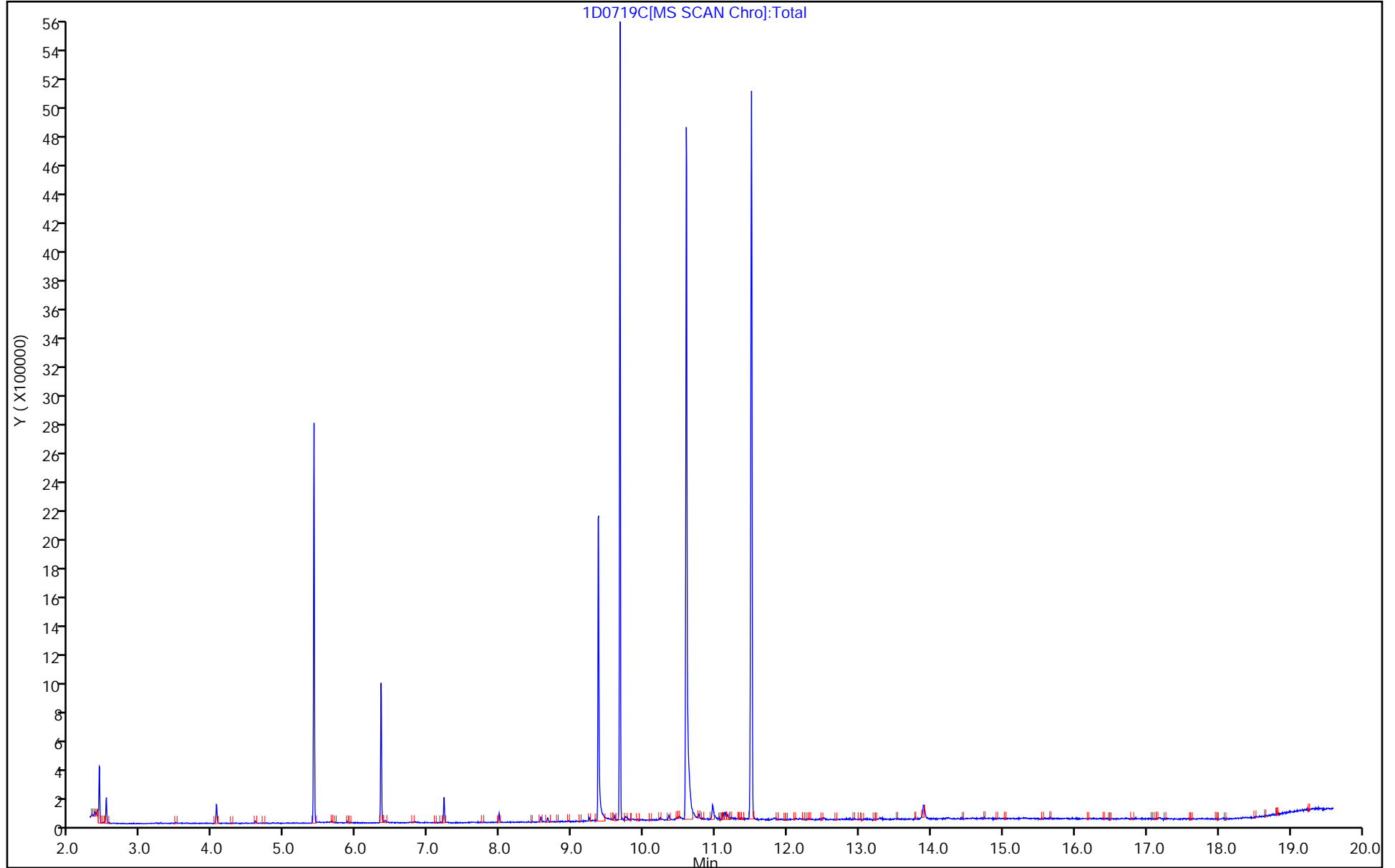
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180719-53770.b\1D0719C.D
Injection Date: 19-Jul-2018 16:10:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: GES ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL

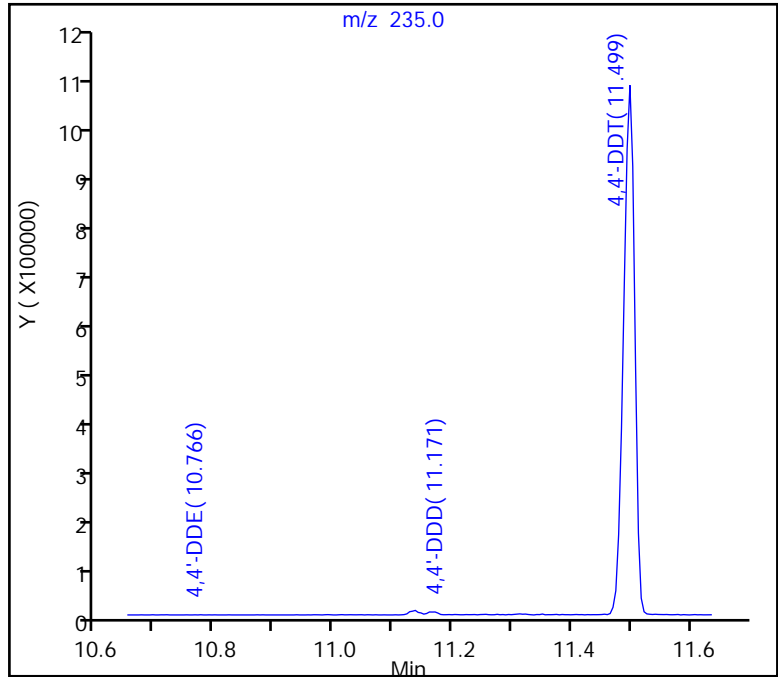
169 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

169 4,4'-DDT, Area = 1326879
168 4,4'-DDD, Area = 7441
167 4,4'-DDE, Area = 3191

%Breakdown: 0.79%, Max Limit: 20.00%
Passed



TestAmerica Chicago

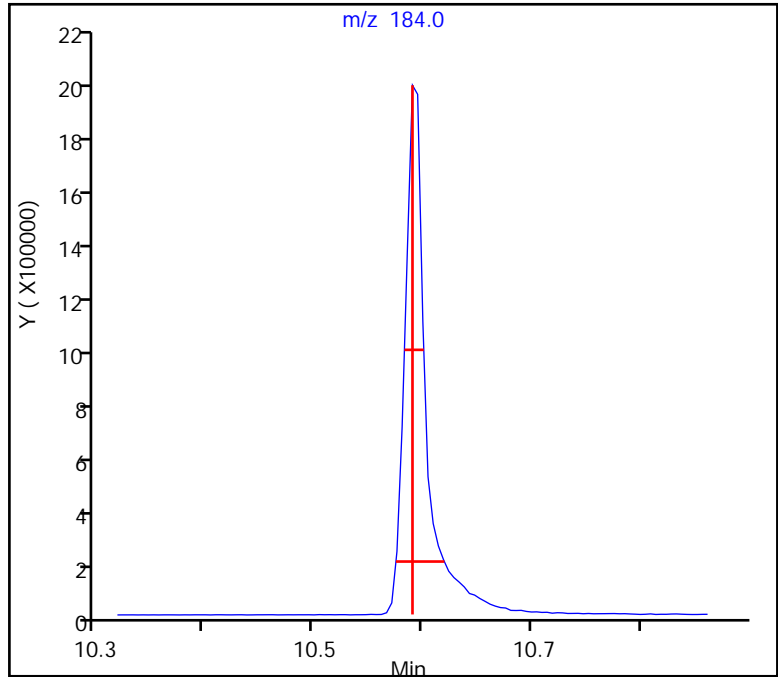
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Injection Date: 19-Jul-2018 16:10:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: GES ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL

138 Benzidine, Detector: MS SCAN

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

Back Width = 0.029 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.9, Max. Tailing < 3.00
Passed



TestAmerica Chicago

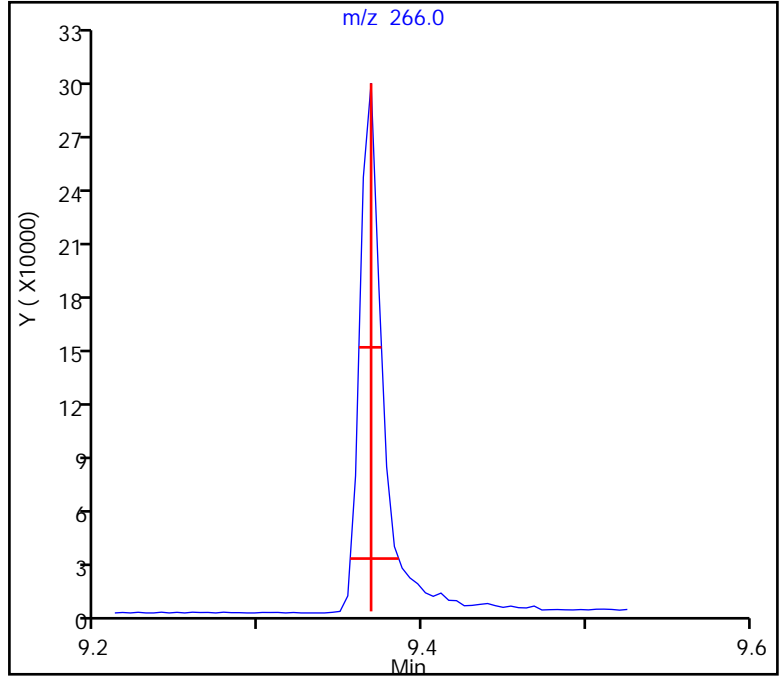
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Injection Date: 19-Jul-2018 16:10:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: GES ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL

125 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.017 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.3, Max. Tailing < 5.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 04-Sep-2018 11:47:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: 500-0054817-001
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 11:33:22 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: swaneyg Date: 04-Sep-2018 19:39:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
125 Pentachlorophenol	266	8.944	8.944	0.000	93	117741	NR	NR	
138 Benzidine	184	10.195	10.195	0.000	98	883755	NR	NR	
166 DFTPP									
167 4,4'-DDE	246	10.333	10.333	0.000	8	1397		NR	
168 4,4'-DDD	235	10.652	10.652	0.000	64	4622		NR	
169 4,4'-DDT	235	10.951	10.951	0.000	94	425493	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

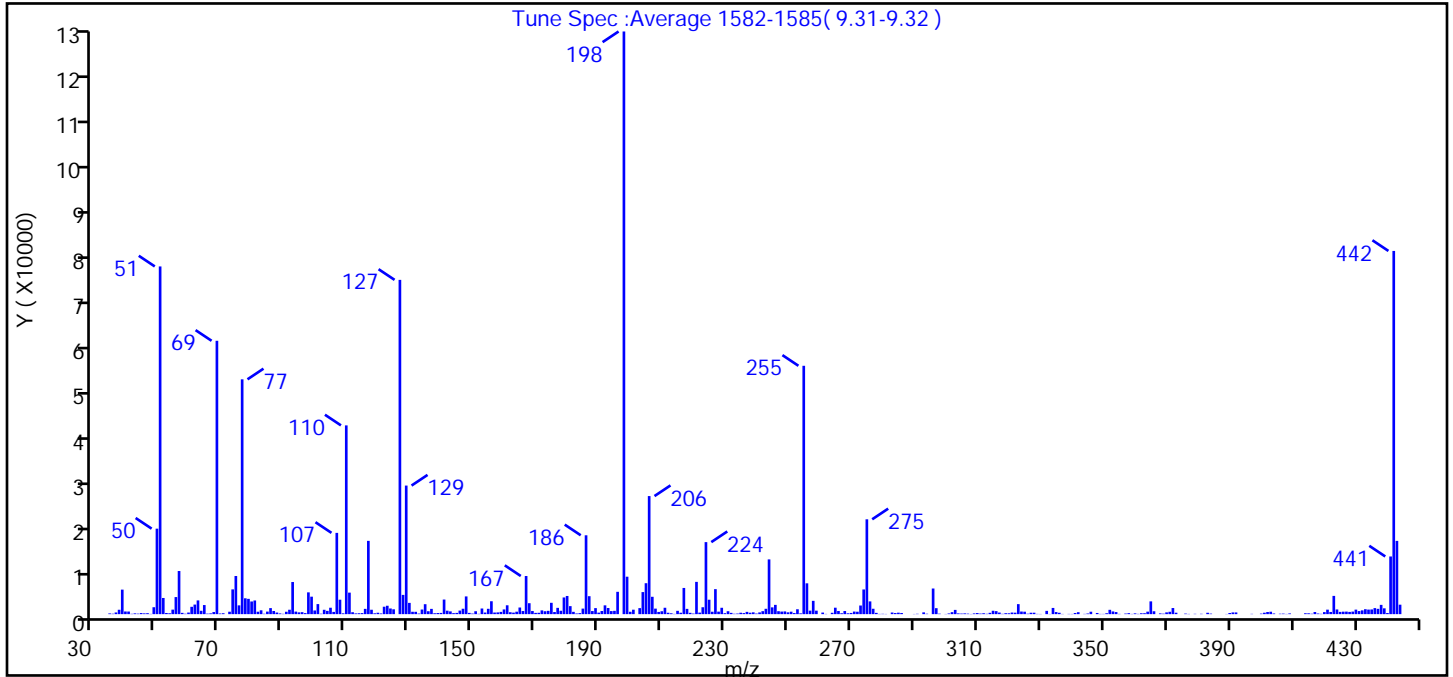
Reagents:

HIVOL_DFTPPWK_00119 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D
 Injection Date: 04-Sep-2018 11:47:30 Instrument ID: CMS01
 Lims ID: dftpp
 Client ID:
 Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
 Tune Method: DFTPP Method 625

166 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100.0
51	30-60 percent of Mass 198	59.7
68	Less than 2 percent of Mass 69	0.4 (0.8)
69	Present	46.9
70	Less than 2 percent of Mass 69	0.1 (0.2)
127	40-60 percent of Mass 198	57.4
197	Less than 1 percent of Mass 198	0.0
199	5-9 percent of Mass 198	6.4
275	10-30 percent of Mass 198	16.3
365	Greater than 1 percent of Mass 198	2.2
441	Present but less than Mass 443	9.9 (78.7)
442	Greater than 40 percent of Mass 198	62.3
443	17-23 percent of Mass 442	12.6 (20.2)

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D\1-LVI8270.rsl\spectra.d
 Injection Date: 04-Sep-2018 11:47:30
 Spectrum: Tune Spec :Average 1582-1585(9.31-9.32)
 Base Peak: 198.00
 Minimum % Base Peak: 0
 Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	156	130.00	2436	225.00	3117	327.00	305
36.00	92	131.00	513	226.00	522	328.00	309
37.00	360	132.00	505	227.00	5406	329.00	54
38.00	949	133.00	120	228.00	544	330.00	42
39.00	5303	134.00	1000	229.00	1378	332.00	708
40.00	577	135.00	2151	230.00	207	333.00	41
41.00	564	136.00	628	231.00	631	334.00	1342
42.00	73	137.00	1140	232.00	277	335.00	451
43.00	170	138.00	195	233.00	83	336.00	298
44.00	108	139.00	244	234.00	128	337.00	44
45.00	235	140.00	269	235.00	304	339.00	52
46.00	166	141.00	3158	236.00	229	340.00	44
47.00	206	142.00	746	237.00	492	341.00	243
48.00	51	143.00	595	238.00	308	342.00	421
49.00	1496	144.00	218	239.00	393	344.00	55
50.00	18488	145.00	270	240.00	130	345.00	135
51.00	75200	146.00	770	241.00	375	346.00	524
52.00	3496	147.00	1168	242.00	642	348.00	251
53.00	251	148.00	3834	243.00	1159	349.00	50
54.00	192	149.00	271	244.00	11839	350.00	51
55.00	974	150.00	124	245.00	1467	351.00	197
56.00	3693	151.00	628	246.00	2005	352.00	936
57.00	9328	152.00	65	247.00	634	353.00	583
58.00	278	153.00	1220	248.00	556	354.00	447
59.00	85	154.00	344	249.00	591	355.00	54
60.00	347	155.00	1154	250.00	394	357.00	126
61.00	1586	156.00	2790	251.00	529	358.00	215
62.00	2070	157.00	349	252.00	234	359.00	49
63.00	2971	158.00	377	253.00	1056	360.00	169
64.00	723	159.00	488	254.00	169	361.00	59
65.00	1966	160.00	1020	255.00	53712	362.00	194
66.00	112	161.00	1916	256.00	6666	363.00	203
67.00	170	162.00	412	257.00	756	364.00	537

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D\1-LVI8270.rsl\spectra.d

Injection Date: 04-Sep-2018 11:47:30

Spectrum: Tune Spec :Average 1582-1585(9.31-9.32)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
68.00	452	163.00	327	258.00	2877	365.00	2762
69.00	59120	164.00	529	259.00	752	366.00	625
70.00	138	165.00	1434	261.00	342	368.00	160
71.00	198	166.00	673	262.00	50	369.00	104
73.00	524	167.00	8248	264.00	293	370.00	383
74.00	5355	168.00	2366	265.00	1392	371.00	511
75.00	8249	169.00	669	266.00	676	372.00	1320
76.00	1900	170.00	273	267.00	192	373.00	308
77.00	50784	171.00	293	268.00	673	376.00	117
78.00	3428	172.00	813	269.00	181	377.00	50
79.00	3307	173.00	628	270.00	259	379.00	68
80.00	2740	174.00	714	271.00	560	381.00	75
81.00	2954	175.00	2453	272.00	524	383.00	298
82.00	524	176.00	456	273.00	1866	384.00	114
83.00	833	177.00	1360	274.00	5339	389.00	39
84.00	83	178.00	727	275.00	20512	390.00	244
85.00	551	179.00	3608	276.00	2755	391.00	371
86.00	1305	180.00	3930	277.00	1163	392.00	371
87.00	681	181.00	1732	278.00	276	397.00	61
88.00	347	182.00	499	279.00	50	400.00	115
89.00	154	183.00	143	280.00	69	401.00	309
90.00	67	184.00	218	281.00	44	402.00	465
91.00	517	185.00	1198	283.00	352	403.00	523
92.00	953	186.00	17056	284.00	239	404.00	144
93.00	6947	187.00	3883	285.00	316	406.00	92
94.00	550	188.00	668	286.00	251	407.00	114
95.00	383	189.00	1303	290.00	39	408.00	44
96.00	427	190.00	328	291.00	75	409.00	157
97.00	226	191.00	676	293.00	384	414.00	197
98.00	4712	192.00	1904	294.00	90	415.00	186
99.00	3778	193.00	1328	296.00	5543	416.00	89
100.00	793	194.00	661	297.00	1290	417.00	458
101.00	2173	195.00	714	298.00	101	418.00	136
102.00	90	196.00	4828	300.00	39	419.00	66

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D\1-LVI8270.rslt\spectra.d

Injection Date: 04-Sep-2018 11:47:30

Spectrum: Tune Spec :Average 1582-1585(9.31-9.32)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.00	942	198.00	126016	301.00	152	420.00	439
104.00	708	199.00	8097	302.00	427	421.00	970
105.00	1386	200.00	513	303.00	919	422.00	473
106.00	484	201.00	962	304.00	160	423.00	3947
107.00	17576	203.00	1303	305.00	125	424.00	1012
108.00	3121	204.00	4770	306.00	162	425.00	488
109.00	175	205.00	6691	307.00	109	426.00	534
110.00	40824	206.00	25536	308.00	41	427.00	549
111.00	4653	207.00	3753	309.00	157	428.00	482
112.00	416	208.00	1195	310.00	236	429.00	551
113.00	160	209.00	480	311.00	121	430.00	974
114.00	194	210.00	629	312.00	197	431.00	665
115.00	225	211.00	1380	313.00	76	432.00	819
116.00	1143	212.00	300	314.00	287	433.00	1067
117.00	15848	213.00	184	315.00	733	434.00	986
118.00	951	214.00	52	316.00	650	435.00	1013
119.00	182	215.00	714	317.00	343	436.00	1306
120.00	301	216.00	304	318.00	69	437.00	1148
121.00	149	217.00	5665	319.00	204	438.00	2005
122.00	1606	218.00	1141	320.00	187	439.00	1256
123.00	1816	219.00	285	321.00	346	440.00	239
124.00	1224	220.00	121	322.00	315	441.00	12473
125.00	1048	221.00	6980	323.00	2164	442.00	78552
127.00	72296	222.00	331	324.00	565	443.00	15843
128.00	4163	223.00	1493	325.00	529	444.00	2045
129.00	27808	224.00	15577	326.00	92		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D

Injection Date: 04-Sep-2018 11:47:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

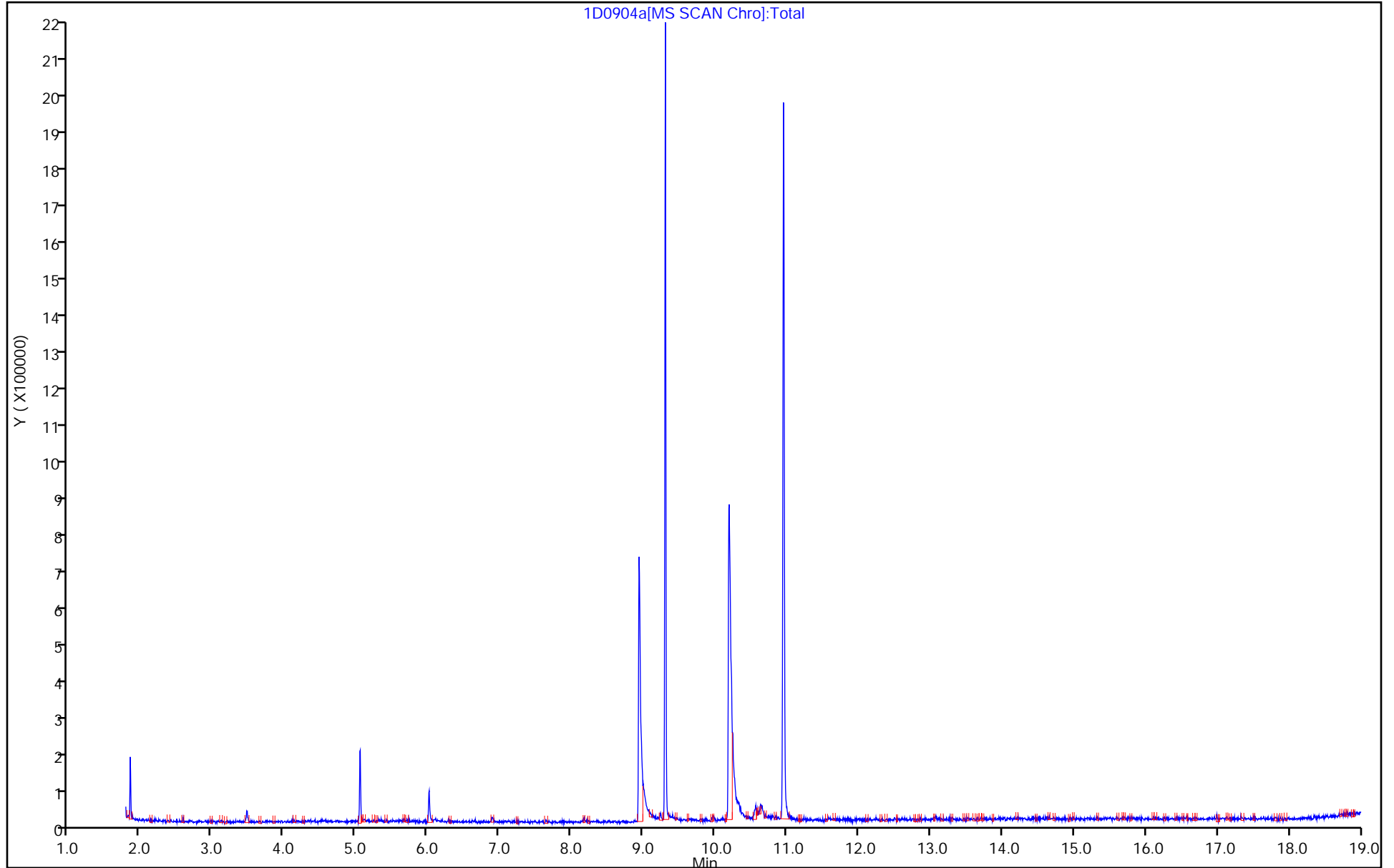
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D
Injection Date: 04-Sep-2018 11:47:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL

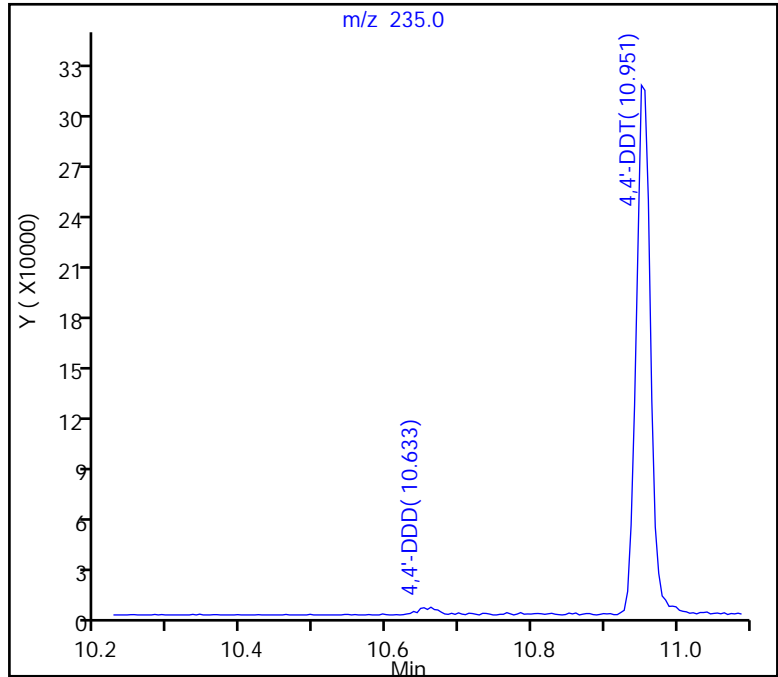
169 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

169 4,4'-DDT, Area = 425493
168 4,4'-DDD, Area = 4622
167 4,4'-DDE, Area = 1397

%Breakdown: 1.39%, Max Limit: 20.00%
Passed



TestAmerica Chicago

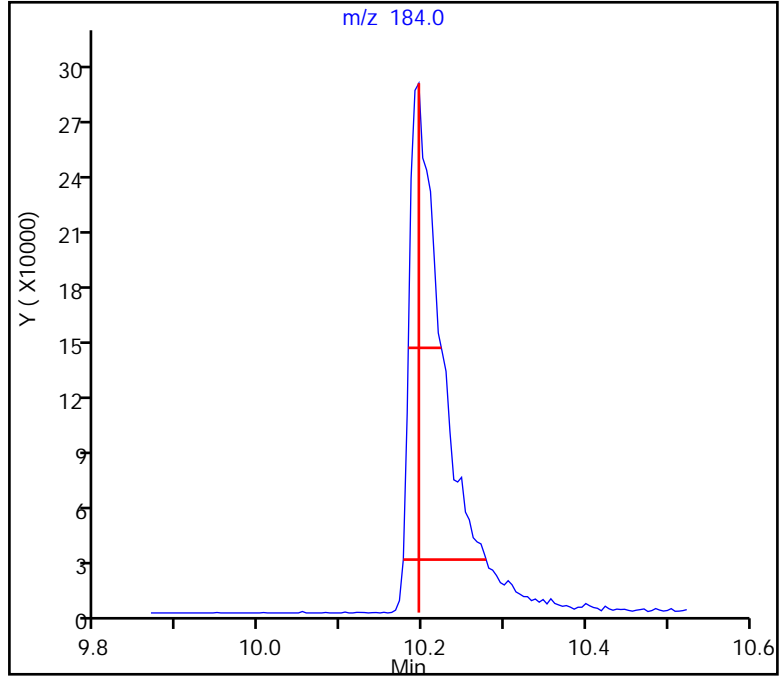
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Injection Date: 04-Sep-2018 11:47:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL

138 Benzidine, Detector: MS SCAN

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

Back Width = 0.082 (min.)
Front Width = 0.019 (min.)

Tailing Factor = * 4.3, Max. Tailing < 3.00
Failed



TestAmerica Chicago

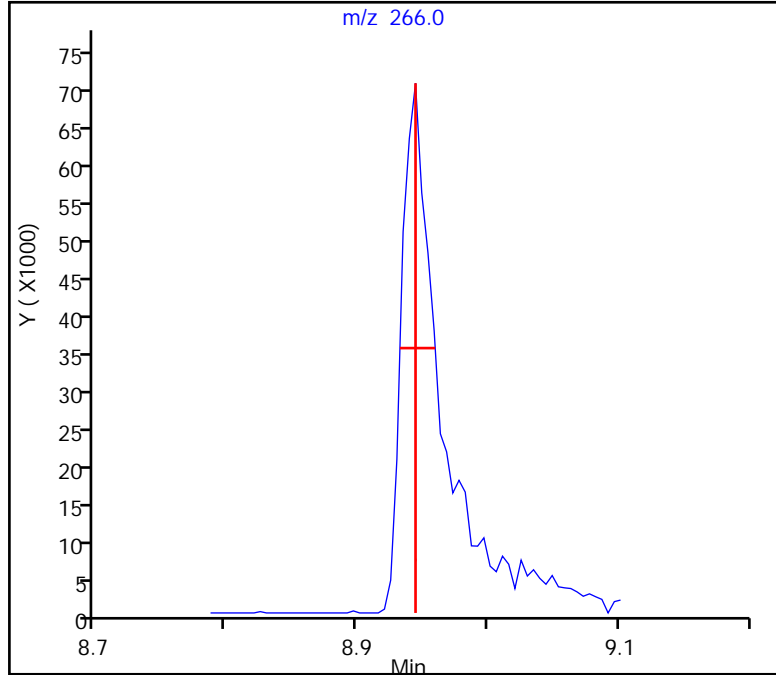
Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1D0904a.D
Injection Date: 04-Sep-2018 11:47:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL

125 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.000 (min.)
Front Width = 0.000 (min.)

Tailing Factor = 0.0, Max. Tailing < 5.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-448172/1-A
 Matrix: Water Lab File ID: MB 500-448172.D
 Analysis Method: 625 Date Collected: _____
 Extract. Method: 625 Date Extracted: 09/04/2018 07:56
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2018 15:33
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448229 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
120-12-7	Anthracene	<0.15		0.80	0.15
50-32-8	Benzo[a]pyrene	<0.061		0.80	0.061
206-44-0	Fluoranthene	<0.16		0.80	0.16
86-73-7	Fluorene	<0.13		0.80	0.13
91-20-3	Naphthalene	<0.12		0.80	0.12
85-01-8	Phenanthrene	<0.17		0.80	0.17
129-00-0	Pyrene	<0.18		0.80	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		28-110
1718-51-0	Terphenyl-d14	87		20-133
321-60-8	2-Fluorobiphenyl	70		31-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\MB 500-448172.D
 Lims ID: MB 500-448172/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Sep-2018 15:33:30 ALS Bottle#: 5 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: MB 500-448172/1-A
 Misc. Info.: 500-0054817-009
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:55:54 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:55:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	94	186055	3.20	3.20	
* 2 Naphthalene-d8	136	6.381	6.381	0.000	98	859178	3.20	3.20	
* 3 Acenaphthene-d10	164	7.841	7.832	0.009	97	380283	3.20	3.20	
* 4 Phenanthrene-d10	188	9.063	9.054	0.009	98	609820	3.20	3.20	
* 5 Chrysene-d12	240	11.522	11.513	0.009	97	484290	3.20	3.20	
* 6 Perylene-d12	264	13.824	13.800	0.024	91	500644	3.20	3.20	M
\$ 7 2-Fluorophenol	112	4.217	4.213	0.004	88	419358	10.0	7.73	
\$ 8 Phenol-d5	99	5.102	5.093	0.009	96	331335	10.0	5.16	
\$ 9 Nitrobenzene-d5	82	5.782	5.787	-0.005	86	475368	10.0	8.48	
\$ 10 2-Fluorobiphenyl	172	7.289	7.280	0.009	100	975306	10.0	6.97	
\$ 11 2,4,6-Tribromophenol	330	8.512	8.493	0.019	84	152606	10.0	7.80	
\$ 12 Terphenyl-d14	244	10.381	10.376	0.005	97	961977	10.0	8.68	
17 N-Nitrosomethylethylamine	88	3.628	3.614	0.014	21	187		NC	
19 Acrylamide	71	4.217	4.137	0.080	26	1437		NC	
25 Benzaldehyde	77	4.940	4.931	0.009	20	625		NC	
24 Pentachloroethane	167	5.069	5.073	-0.004	40	812		NC	
40 Indene	116	5.525	5.535	-0.010	56	2705		NC	
44 Acetophenone	105	5.668	5.663	0.005	15	469		NC	
34 N-Nitrosomorpholine	56	5.692	5.682	0.010	42	515		NC	
35 2-Toluidine	106	5.715	5.701	0.014	7	102		NC	
41 N-Nitrosopiperidine	114	5.967	5.929	0.038	36	117		NC	
79 1,1'-Biphenyl	154	7.285	7.361	-0.076	50	790		NC	
71 1-Chloronaphthalene	162	7.347	7.394	-0.047	3	345		NC	
77 1,4-Dinitrobenzene	168	7.641	7.589	0.052	1	171		NC	
83 1,3-Dinitrobenzene	168	7.641	7.661	-0.020	1	171		NC	
101 Hexadecane	57	8.193	8.217	-0.024	30	2284		NC	
105 1,3,5-Trinitrobenzene	75	8.707	8.664	0.043	1	237		NC	
120 Disulfoton	88	9.063	9.059	0.004	53	6471		NC	
132 Methapyrilene	97	9.858	9.791	0.067	3	633		NC	
139 p-Dimethylamino azobenzene	225	10.542	10.552	-0.010	1	380		NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
167 4,4'-DDE	246	10.381	10.333	0.048	53	16854		NR	
168 4,4'-DDD	235	11.075	10.652	0.423	1	124		NR	
169 4,4'-DDT	235	11.075	10.951	0.124	1	124		NR	
T 213 3-Dimethylaminopropylamine	58	5.287	4.885	0.402	38	965		0	
T 211 Benzotrichloride TIC	105	6.519	6.800	-0.281	1	1816		0	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_HIVOLISTD_00211

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\MB 500-448172.D

Injection Date: 04-Sep-2018 15:33:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: MB 500-448172/1-A

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

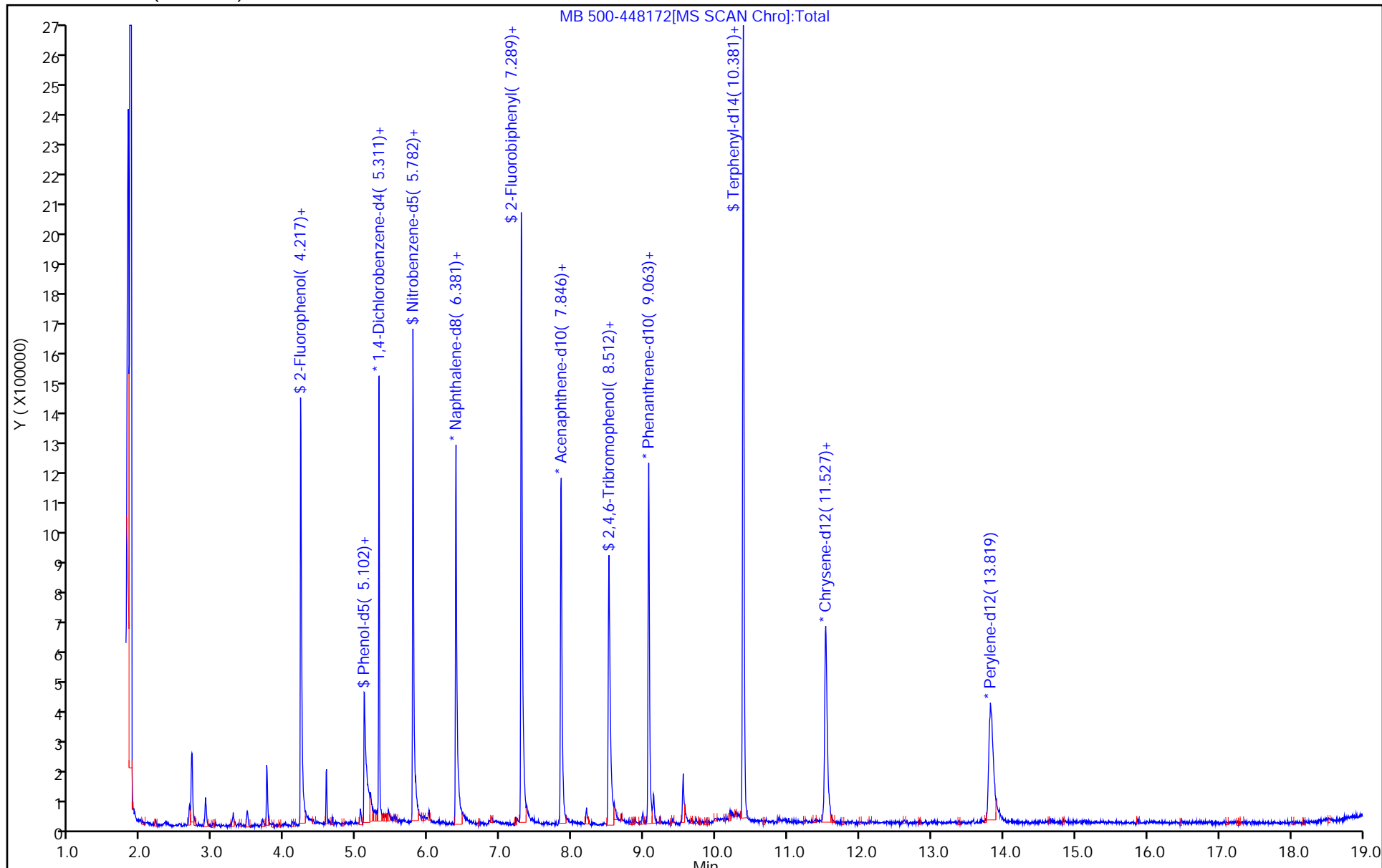
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\MB 500-448172.D
 Lims ID: MB 500-448172/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Sep-2018 15:33:30 ALS Bottle#: 5 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: MB 500-448172/1-A
 Misc. Info.: 500-0054817-009
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:55:54 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:55:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	7.73	77.26
\$ 8 Phenol-d5	10.0	5.16	51.63
\$ 9 Nitrobenzene-d5	10.0	8.48	84.76
\$ 10 2-Fluorobiphenyl	10.0	6.97	69.68
\$ 11 2,4,6-Tribromophenol	10.0	7.80	77.96
\$ 12 Terphenyl-d14	10.0	8.68	86.79

TestAmerica Chicago

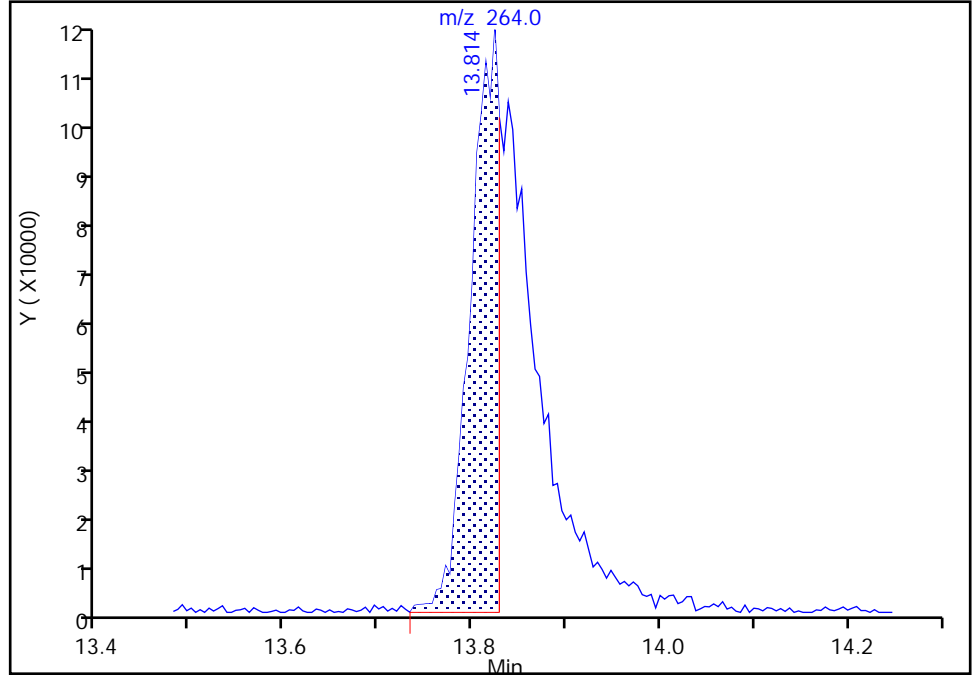
Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\MB 500-448172.D
Injection Date: 04-Sep-2018 15:33:30 Instrument ID: CMS01
Lims ID: MB 500-448172/1-A
Client ID:
Operator ID: AD ALS Bottle#: 5 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_625_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

* 6 Perylene-d12, CAS: 1520-96-3

Signal: 1

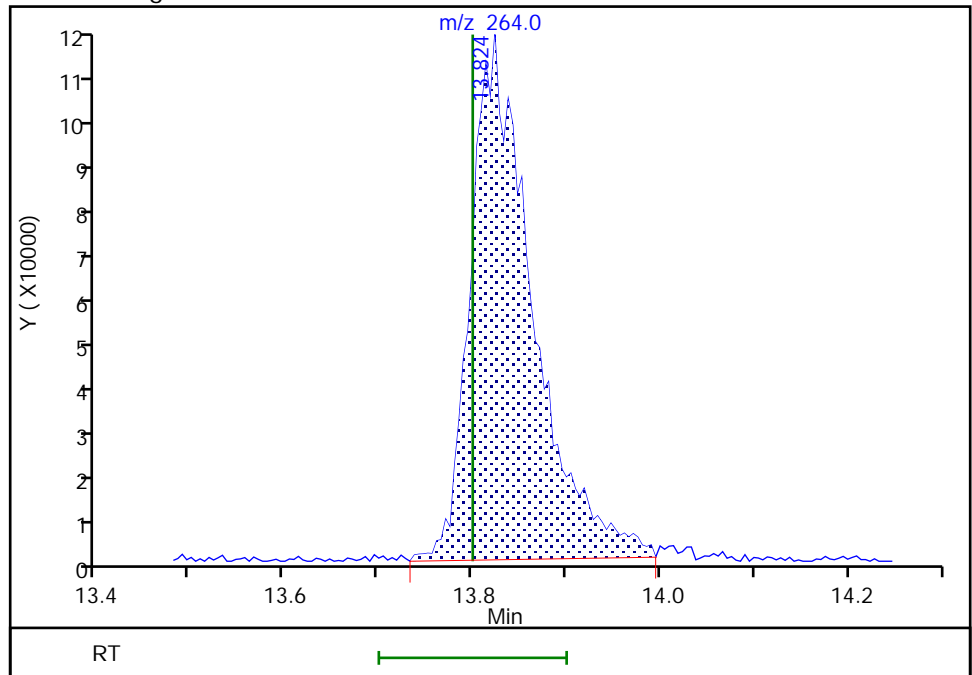
RT: 13.81
Area: 234065
Amount: 3.200000
Amount Units: ug/mL

Processing Integration Results



RT: 13.82
Area: 500644
Amount: 3.200000
Amount Units: ug/mL

Manual Integration Results



Reviewer: swaneyg, 04-Sep-2018 19:53:31
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448172/2-A
 Matrix: Water Lab File ID: LCS 500-448172.D
 Analysis Method: 625 Date Collected: _____
 Extract. Method: 625 Date Extracted: 09/04/2018 07:56
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2018 14:11
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448229 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
120-12-7	Anthracene	28.0		0.80	0.15
50-32-8	Benzo[a]pyrene	29.1		0.80	0.061
206-44-0	Fluoranthene	27.3		0.80	0.16
86-73-7	Fluorene	22.9		0.80	0.13
91-20-3	Naphthalene	22.3		0.80	0.12
85-01-8	Phenanthrene	27.7		0.80	0.17
129-00-0	Pyrene	29.3		0.80	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		28-110
1718-51-0	Terphenyl-d14	76		20-133
321-60-8	2-Fluorobiphenyl	74		31-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\LCS 500-448172.D
 Lims ID: LCS 500-448172/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Sep-2018 14:11:30 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 500-448172/2-A
 Misc. Info.: 500-0054817-006
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:48:54 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:48:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	94	249886	3.20	3.20	
* 2 Naphthalene-d8	136	6.381	6.381	0.000	98	984999	3.20	3.20	
* 3 Acenaphthene-d10	164	7.827	7.832	-0.005	96	432405	3.20	3.20	
* 4 Phenanthrene-d10	188	9.049	9.054	-0.005	98	579698	3.20	3.20	
* 5 Chrysene-d12	240	11.513	11.513	0.000	95	518316	3.20	3.20	
* 6 Perylene-d12	264	13.800	13.800	0.000	92	540639	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.217	4.213	0.004	88	605818	10.0	8.31	
\$ 8 Phenol-d5	99	5.093	5.093	0.000	97	568797	10.0	6.60	
\$ 9 Nitrobenzene-d5	82	5.787	5.787	0.000	85	559793	10.0	8.71	
\$ 10 2-Fluorobiphenyl	172	7.275	7.280	-0.005	99	1172784	10.0	7.37	
\$ 11 2,4,6-Tribromophenol	330	8.493	8.493	0.000	85	165067	10.0	7.42	
\$ 12 Terphenyl-d14	244	10.376	10.376	0.000	97	906140	10.0	7.64	
13 1,4-Dioxane	88	2.068	2.063	0.005	76	139797	8.00	4.49	
14 N-Nitrosodimethylamine	42	2.377	2.387	-0.010	86	290183	8.00	5.42	
15 Pyridine	79	2.410	2.410	0.000	76	806983	16.0	9.36	
27 Aniline	93	5.040	5.045	-0.005	90	786655	8.00	6.42	
28 Bis(2-chloroethyl)ether	93	5.097	5.097	0.000	69	458756	8.00	6.22	
26 Phenol	94	5.102	5.107	-0.005	89	501741	8.00	4.50	
29 2-Chlorophenol	128	5.164	5.164	0.000	91	691949	8.00	6.78	
30 n-Decane	43	5.197	5.197	0.000	78	448728	8.00	4.74	
31 1,3-Dichlorobenzene	146	5.264	5.264	0.000	98	524148	8.00	4.57	
33 1,4-Dichlorobenzene	146	5.326	5.326	0.000	96	539650	8.00	4.74	
37 1,2-Dichlorobenzene	146	5.454	5.454	0.000	98	524082	8.00	4.71	
36 Benzyl alcohol	108	5.463	5.464	-0.001	87	357824	8.00	7.33	
40 Indene	116	5.530	5.535	-0.005	92	1749694	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.559	5.559	0.000	91	958560	8.00	6.50	
38 2-Methylphenol	107	5.597	5.597	0.000	91	382221	8.00	5.69	
44 Acetophenone	105	5.663	5.663	0.000	91	690782	NC	NC	
43 N-Nitrosodi-n-propylamine	70	5.677	5.682	-0.005	77	312604	8.00	6.36	
42 3 & 4 Methylphenol	108	5.725	5.725	0.000	95	520208	8.00	5.64	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
45 Hexachloroethane	117	5.735	5.739	-0.004	93	220347	8.00	5.14	
46 Nitrobenzene	77	5.801	5.806	-0.005	90	463606	8.00	6.02	
48 Isophorone	82	6.006	6.010	-0.004	96	758058	8.00	5.97	
50 2-Nitrophenol	139	6.067	6.072	-0.005	88	345033	8.00	6.22	
51 2,4-Dimethylphenol	122	6.148	6.148	0.000	90	528717	8.00	6.32	
52 Bis(2-chloroethoxy)methane	93	6.191	6.191	0.000	71	555883	8.00	6.11	
55 2,4-Dichlorophenol	162	6.300	6.301	-0.001	86	511982	8.00	6.09	
56 1,2,4-Trichlorobenzene	180	6.338	6.339	-0.001	95	382384	8.00	4.10	
54 Benzoic acid	122	6.315	6.343	-0.028	86	433623	16.0	14.2	a
58 Naphthalene	128	6.396	6.400	-0.004	98	1532593	8.00	5.57	
60 4-Chloroaniline	127	6.462	6.462	0.000	93	771890	8.00	6.53	
62 2,6-Dichlorophenol	162	6.472	6.472	0.000	88	492801	8.00	5.86	
63 Hexachlorobutadiene	225	6.510	6.510	0.000	97	181867	8.00	3.66	
65 Caprolactam	113	6.781	6.752	0.029	73	80244	NC	NC	
66 4-Chloro-3-methylphenol	107	6.909	6.904	0.005	88	443417	8.00	7.26	
68 2-Methylnaphthalene	142	6.971	6.976	-0.005	96	945302	8.00	5.04	
70 1-Methylnaphthalene	142	7.052	7.057	-0.005	96	924761	8.00	4.64	
72 Hexachlorocyclopentadiene	237	7.109	7.114	-0.005	94	129025	8.00	3.07	
73 1,2,4,5-Tetrachlorobenzene	216	7.114	7.118	-0.004	96	355798	8.00	4.57	
74 2,4,6-Trichlorophenol	196	7.228	7.228	0.000	92	316980	8.00	6.19	
76 2,4,5-Trichlorophenol	196	7.285	7.280	0.005	93	333483	8.00	6.10	
79 1,1'-Biphenyl	154	7.356	7.361	-0.005	96	1029341	NC	NC	
80 2-Chloronaphthalene	162	7.375	7.375	0.000	95	892865	8.00	5.51	
81 2-Nitroaniline	65	7.475	7.480	-0.005	75	518341	8.00	9.17	
82 Dimethyl phthalate	163	7.618	7.623	-0.005	97	1044475	8.00	6.13	
83 1,3-Dinitrobenzene	168	7.656	7.661	-0.005	82	145285	NC	NC	
84 2,6-Dinitrotoluene	165	7.670	7.675	-0.005	83	235708	8.00	6.54	
86 Acenaphthylene	152	7.713	7.713	0.000	97	1302268	8.00	5.81	
88 3-Nitroaniline	138	7.822	7.827	-0.005	82	254418	8.00	5.73	
90 Acenaphthene	153	7.856	7.860	-0.004	92	870962	8.00	5.68	
91 2,4-Dinitrophenol	184	7.913	7.917	-0.004	69	264253	16.0	13.0	
97 Dibenzofuran	168	7.998	8.003	-0.005	96	1249877	8.00	5.80	
95 2,4-Dinitrotoluene	165	8.008	8.013	-0.005	85	319539	8.00	6.66	
92 4-Nitrophenol	109	8.050	8.041	0.009	85	183748	16.0	11.7	
99 2,3,4,6-Tetrachlorophenol	232	8.127	8.127	0.000	78	246954	8.00	6.69	
100 Diethyl phthalate	149	8.198	8.203	-0.005	96	987867	8.00	6.73	
101 Hexadecane	57	8.212	8.217	-0.005	72	1264566	NC	NC	
104 Fluorene	166	8.284	8.284	0.000	93	969438	8.00	5.72	
103 4-Chlorophenyl phenyl ethe	204	8.284	8.284	0.000	70	375232	8.00	4.81	
106 4-Nitroaniline	138	8.336	8.341	-0.005	71	234219	8.00	5.35	
109 4,6-Dinitro-2-methylphenol	198	8.350	8.355	-0.005	85	306963	16.0	15.3	
111 N-Nitrosodiphenylamine	169	8.388	8.388	0.000	66	705682	8.00	7.47	
113 1,2-Diphenylhydrazine	77	8.412	8.417	-0.005	45	868166	8.00	6.77	
119 4-Bromophenyl phenyl ether	248	8.683	8.683	0.000	76	214968	8.00	5.85	
122 Hexachlorobenzene	284	8.745	8.745	0.000	93	247821	8.00	5.99	
123 Atrazine	200	8.840	8.845	-0.005	84	168403	NC	NC	
125 Pentachlorophenol	266	8.926	8.944	-0.018	94	257980	16.0	15.8	
124 n-Octadecane	43	8.973	8.973	0.000	76	567628	8.00	9.95	
127 Phenanthrene	178	9.073	9.073	0.000	97	1320139	8.00	6.92	
128 Anthracene	178	9.116	9.116	0.000	98	1351712	8.00	7.00	
129 Carbazole	167	9.263	9.263	0.000	96	1305589	8.00	7.52	
133 Di-n-butyl phthalate	149	9.539	9.539	0.000	99	1649845	8.00	8.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.053	10.053	0.000	98	1385731	8.00	6.82	
138 Benzidine	184	10.181	10.195	-0.014	95	147565	8.00	1.73	7
141 Pyrene	202	10.238	10.243	-0.005	97	1452075	8.00	7.32	
147 Butyl benzyl phthalate	149	10.856	10.856	0.000	94	806487	8.00	9.14	
149 3,3'-Dichlorobenzidine	252	11.489	11.489	0.000	96	430451	8.00	6.74	
151 Benzo[a]anthracene	228	11.503	11.498	0.005	98	1358336	8.00	7.14	
152 Chrysene	228	11.546	11.551	-0.005	98	1211225	8.00	6.58	
150 Bis(2-ethylhexyl) phthalat	149	11.565	11.565	0.000	90	1121056	8.00	9.30	
155 Di-n-octyl phthalate	149	12.535	12.535	0.000	75	2085579	8.00	8.93	
157 Benzo[b]fluoranthene	252	13.110	13.115	-0.005	95	1261565	8.00	7.35	
158 Benzo[k]fluoranthene	252	13.158	13.168	-0.010	93	1252715	8.00	7.34	
160 Benzo[a]pyrene	252	13.691	13.700	-0.009	92	1198847	8.00	7.27	
163 Indeno[1,2,3-cd]pyrene	276	16.197	16.211	-0.014	88	1350270	8.00	7.49	
164 Dibenz(a,h)anthracene	278	16.292	16.302	-0.010	90	1048311	8.00	6.89	
165 Benzo[g,h,i]perylene	276	16.934	16.948	-0.014	91	1172107	8.00	7.07	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

SM_HIVOLISTD_00211

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\LCS 500-448172.D

Injection Date: 04-Sep-2018 14:11:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: LCS 500-448172/2-A

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

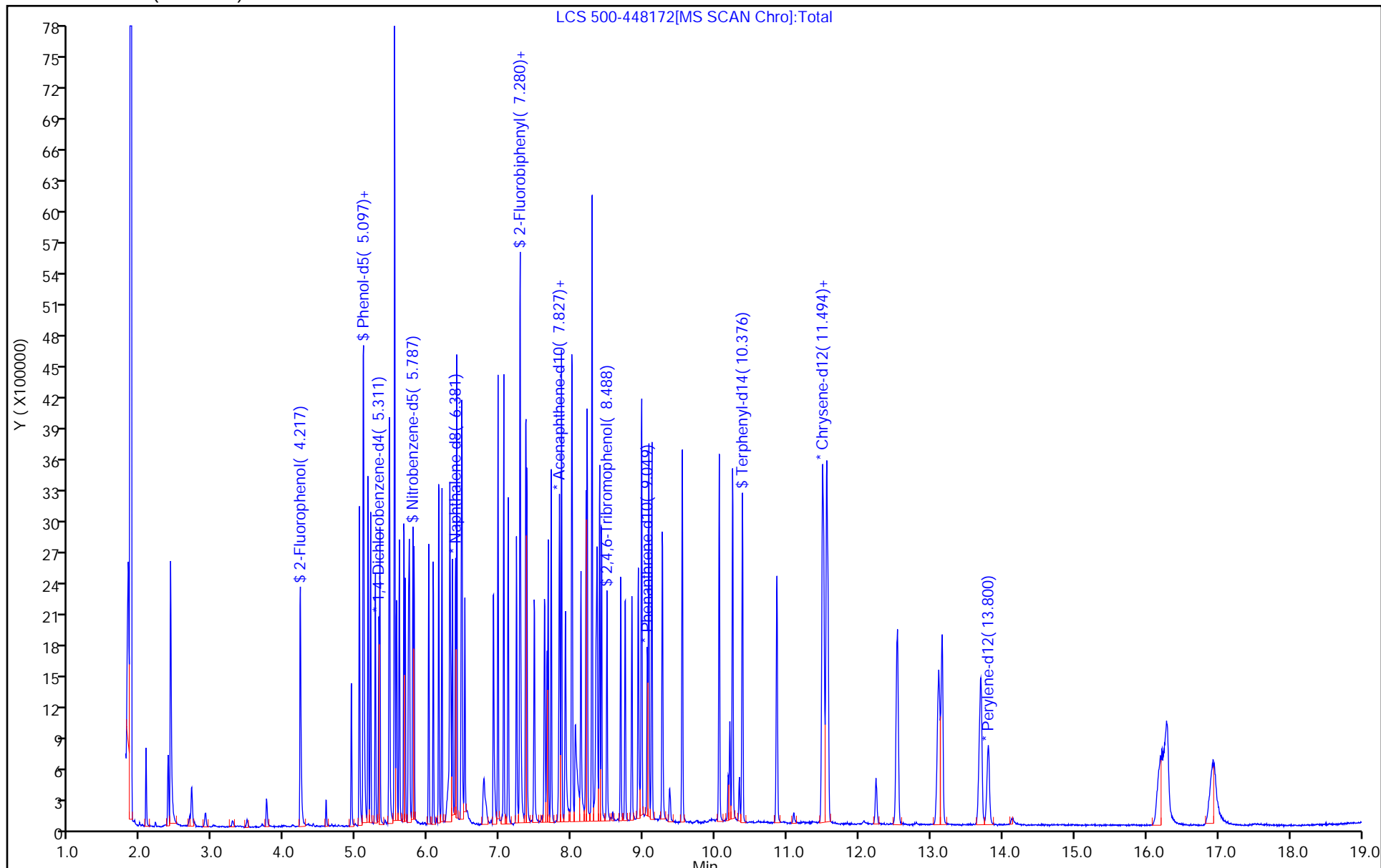
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\LCS 500-448172.D
 Lims ID: LCS 500-448172/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Sep-2018 14:11:30 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 500-448172/2-A
 Misc. Info.: 500-0054817-006
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:48:54 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg Date: 04-Sep-2018 19:48:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	8.31	83.10
\$ 8 Phenol-d5	10.0	6.60	65.99
\$ 9 Nitrobenzene-d5	10.0	8.71	87.06
\$ 10 2-Fluorobiphenyl	10.0	7.37	73.69
\$ 11 2,4,6-Tribromophenol	10.0	7.42	74.16
\$ 12 Terphenyl-d14	10.0	7.64	76.38

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 500-448172/3-A
 Matrix: Water Lab File ID: LCSD 500-448172.D
 Analysis Method: 625 Date Collected: _____
 Extract. Method: 625 Date Extracted: 09/04/2018 07:56
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2018 14:39
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448229 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
120-12-7	Anthracene	29.4		0.80	0.15
50-32-8	Benzo[a]pyrene	31.7		0.80	0.061
206-44-0	Fluoranthene	28.4		0.80	0.16
86-73-7	Fluorene	24.9		0.80	0.13
91-20-3	Naphthalene	23.6		0.80	0.12
85-01-8	Phenanthrene	28.5		0.80	0.17
129-00-0	Pyrene	30.1		0.80	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	97		28-110
1718-51-0	Terphenyl-d14	78		20-133
321-60-8	2-Fluorobiphenyl	83		31-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\LCSD 500-448172.D
 Lims ID: LCSD 500-448172/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Sep-2018 14:39:30 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 500-448172/3-A
 Misc. Info.: 500-0054817-007
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:53:04 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:53:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.311	5.311	0.000	94	245342	3.20	3.20	
* 2 Naphthalene-d8	136	6.381	6.381	0.000	99	966883	3.20	3.20	
* 3 Acenaphthene-d10	164	7.827	7.832	-0.005	97	416593	3.20	3.20	
* 4 Phenanthrene-d10	188	9.054	9.054	0.000	98	555601	3.20	3.20	
* 5 Chrysene-d12	240	11.513	11.513	0.000	96	513387	3.20	3.20	
* 6 Perylene-d12	264	13.805	13.800	0.005	91	511680	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.218	4.213	0.005	90	678486	10.0	9.48	
\$ 8 Phenol-d5	99	5.093	5.093	0.000	97	575836	10.0	6.80	
\$ 9 Nitrobenzene-d5	82	5.787	5.787	0.000	86	615192	10.0	9.75	
\$ 10 2-Fluorobiphenyl	172	7.275	7.280	-0.005	99	1275519	10.0	8.32	
\$ 11 2,4,6-Tribromophenol	330	8.493	8.493	0.000	85	176951	10.0	8.25	
\$ 12 Terphenyl-d14	244	10.376	10.376	0.000	97	911674	10.0	7.76	
13 1,4-Dioxane	88	2.068	2.063	0.005	74	146373	8.00	4.79	
14 N-Nitrosodimethylamine	42	2.377	2.387	-0.010	81	296829	8.00	5.64	
15 Pyridine	79	2.411	2.410	0.001	75	926596	16.0	10.9	
27 Aniline	93	5.040	5.045	-0.005	90	845426	8.00	7.03	
28 Bis(2-chloroethyl)ether	93	5.097	5.097	0.000	70	495652	8.00	6.85	
26 Phenol	94	5.102	5.107	-0.005	90	506774	8.00	4.63	
29 2-Chlorophenol	128	5.159	5.164	-0.005	91	730046	8.00	7.28	
30 n-Decane	43	5.197	5.197	0.000	77	466665	8.00	5.02	
31 1,3-Dichlorobenzene	146	5.264	5.264	0.000	98	553827	8.00	4.92	
33 1,4-Dichlorobenzene	146	5.326	5.326	0.000	95	556063	8.00	4.97	
37 1,2-Dichlorobenzene	146	5.454	5.454	0.000	98	563044	8.00	5.16	
36 Benzyl alcohol	108	5.464	5.464	0.000	90	378442	8.00	7.90	
40 Indene	116	5.530	5.535	-0.005	90	1871565	NC	NC	
39 2,2'-oxybis[1-chloropropan	45	5.559	5.559	0.000	91	1002328	8.00	6.92	
38 2-Methylphenol	107	5.597	5.597	0.000	91	407833	8.00	6.18	
44 Acetophenone	105	5.659	5.663	-0.004	92	739309	NC	NC	
43 N-Nitrosodi-n-propylamine	70	5.678	5.682	-0.004	78	339237	8.00	7.02	
42 3 & 4 Methylphenol	108	5.725	5.725	0.000	94	547582	8.00	6.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
45 Hexachloroethane	117	5.735	5.739	-0.004	93	237709	8.00	5.64	
46 Nitrobenzene	77	5.801	5.806	-0.005	92	478723	8.00	6.33	
48 Isophorone	82	6.006	6.010	-0.004	96	784245	8.00	6.29	
50 2-Nitrophenol	139	6.068	6.072	-0.004	89	356275	8.00	6.54	
51 2,4-Dimethylphenol	122	6.148	6.148	0.000	88	583346	8.00	7.10	
52 Bis(2-chloroethoxy)methane	93	6.191	6.191	0.000	70	599606	8.00	6.71	
55 2,4-Dichlorophenol	162	6.301	6.301	0.000	86	508438	8.00	6.16	a
56 1,2,4-Trichlorobenzene	180	6.339	6.339	0.000	95	409667	8.00	4.47	
54 Benzoic acid	122	6.305	6.343	-0.038	38	338740	16.0	11.3	a
58 Naphthalene	128	6.396	6.400	-0.004	98	1593521	8.00	5.90	
60 4-Chloroaniline	127	6.462	6.462	0.000	95	844964	8.00	7.28	
62 2,6-Dichlorophenol	162	6.472	6.472	0.000	88	520837	8.00	6.31	
63 Hexachlorobutadiene	225	6.510	6.510	0.000	97	192127	8.00	3.94	
65 Caprolactam	113	6.776	6.752	0.024	72	76153	NC	NC	
66 4-Chloro-3-methylphenol	107	6.905	6.904	0.001	90	450923	8.00	7.52	
68 2-Methylnaphthalene	142	6.971	6.976	-0.005	96	996028	8.00	5.41	
70 1-Methylnaphthalene	142	7.052	7.057	-0.005	96	943434	8.00	4.82	
72 Hexachlorocyclopentadiene	237	7.109	7.114	-0.005	94	133787	8.00	3.30	
73 1,2,4,5-Tetrachlorobenzene	216	7.114	7.118	-0.004	97	355932	8.00	4.75	
74 2,4,6-Trichlorophenol	196	7.228	7.228	0.000	92	329556	8.00	6.68	
76 2,4,5-Trichlorophenol	196	7.285	7.280	0.005	91	326013	8.00	6.19	
79 1,1'-Biphenyl	154	7.356	7.361	-0.005	96	1103004	NC	NC	
80 2-Chloronaphthalene	162	7.371	7.375	-0.004	95	902512	8.00	5.78	
81 2-Nitroaniline	65	7.480	7.480	0.000	76	526958	8.00	9.68	
82 Dimethyl phthalate	163	7.623	7.623	0.000	98	1099159	8.00	6.70	
83 1,3-Dinitrobenzene	168	7.656	7.661	-0.005	83	155038	NC	NC	
84 2,6-Dinitrotoluene	165	7.670	7.675	-0.005	83	251517	8.00	7.25	
86 Acenaphthylene	152	7.713	7.713	0.000	98	1378695	8.00	6.38	
88 3-Nitroaniline	138	7.822	7.827	-0.005	79	265507	8.00	6.20	
90 Acenaphthene	153	7.856	7.860	-0.004	93	890564	8.00	6.03	
91 2,4-Dinitrophenol	184	7.913	7.917	-0.004	69	254524	16.0	13.0	
97 Dibenzofuran	168	7.998	8.003	-0.005	97	1302231	8.00	6.27	
95 2,4-Dinitrotoluene	165	8.008	8.013	-0.005	85	340043	8.00	7.36	
92 4-Nitrophenol	109	8.046	8.041	0.005	85	179746	16.0	11.9	a
99 2,3,4,6-Tetrachlorophenol	232	8.127	8.127	0.000	77	250209	8.00	7.03	
100 Diethyl phthalate	149	8.198	8.203	-0.005	96	1077224	8.00	7.62	
101 Hexadecane	57	8.212	8.217	-0.005	73	1273744	NC	NC	
104 Fluorene	166	8.284	8.284	0.000	93	1016079	8.00	6.22	
103 4-Chlorophenyl phenyl ethe	204	8.284	8.284	0.000	70	388993	8.00	5.17	
106 4-Nitroaniline	138	8.336	8.341	-0.005	70	268197	8.00	6.36	
109 4,6-Dinitro-2-methylphenol	198	8.350	8.355	-0.005	90	302123	16.0	15.7	
111 N-Nitrosodiphenylamine	169	8.388	8.388	0.000	65	741210	8.00	8.19	
113 1,2-Diphenylhydrazine	77	8.412	8.417	-0.005	45	920935	8.00	7.46	
119 4-Bromophenyl phenyl ether	248	8.683	8.683	0.000	78	219496	8.00	6.23	
122 Hexachlorobenzene	284	8.745	8.745	0.000	93	267869	8.00	6.75	
123 Atrazine	200	8.840	8.845	-0.005	83	174960	NC	NC	
125 Pentachlorophenol	266	8.926	8.944	-0.018	94	259669	16.0	16.6	
124 n-Octadecane	43	8.973	8.973	0.000	76	566834	8.00	10.4	
127 Phenanthrene	178	9.073	9.073	0.000	98	1304045	8.00	7.13	
128 Anthracene	178	9.116	9.116	0.000	99	1362261	8.00	7.36	
129 Carbazole	167	9.263	9.263	0.000	96	1370444	8.00	8.23	
133 Di-n-butyl phthalate	149	9.539	9.539	0.000	99	1749461	8.00	9.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
136 Fluoranthene	202	10.053	10.053	0.000	98	1379977	8.00	7.09	
138 Benzidine	184	10.176	10.195	-0.019	97	323945	8.00	3.84	
141 Pyrene	202	10.238	10.243	-0.005	97	1478908	8.00	7.52	
147 Butyl benzyl phthalate	149	10.856	10.856	0.000	93	835699	8.00	9.57	
149 3,3'-Dichlorobenzidine	252	11.489	11.489	0.000	96	436930	8.00	6.91	
151 Benzo[a]anthracene	228	11.498	11.498	0.000	98	1300289	8.00	6.90	
152 Chrysene	228	11.546	11.551	-0.005	99	1297333	8.00	7.12	
150 Bis(2-ethylhexyl) phthalat	149	11.565	11.565	0.000	89	1160846	8.00	9.73	
155 Di-n-octyl phthalate	149	12.530	12.535	-0.005	75	2150261	8.00	9.61	
157 Benzo[b]fluoranthene	252	13.111	13.115	-0.004	94	1204136	8.00	7.42	
158 Benzo[k]fluoranthene	252	13.158	13.168	-0.010	93	1203584	8.00	7.45	
160 Benzo[a]pyrene	252	13.696	13.700	-0.004	93	1237396	8.00	7.93	
163 Indeno[1,2,3-cd]pyrene	276	16.197	16.211	-0.014	87	1375860	8.00	8.06	
164 Dibenz(a,h)anthracene	278	16.292	16.302	-0.010	90	1072635	8.00	7.45	
165 Benzo[g,h,i]perylene	276	16.944	16.948	-0.004	91	1210704	8.00	7.71	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SM_HIVOLISTD_00211

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\LCSD 500-448172.D

Injection Date: 04-Sep-2018 14:39:30

Instrument ID: CMS01

Operator ID: AD

Lims ID: LCSD 500-448172/3-A

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul

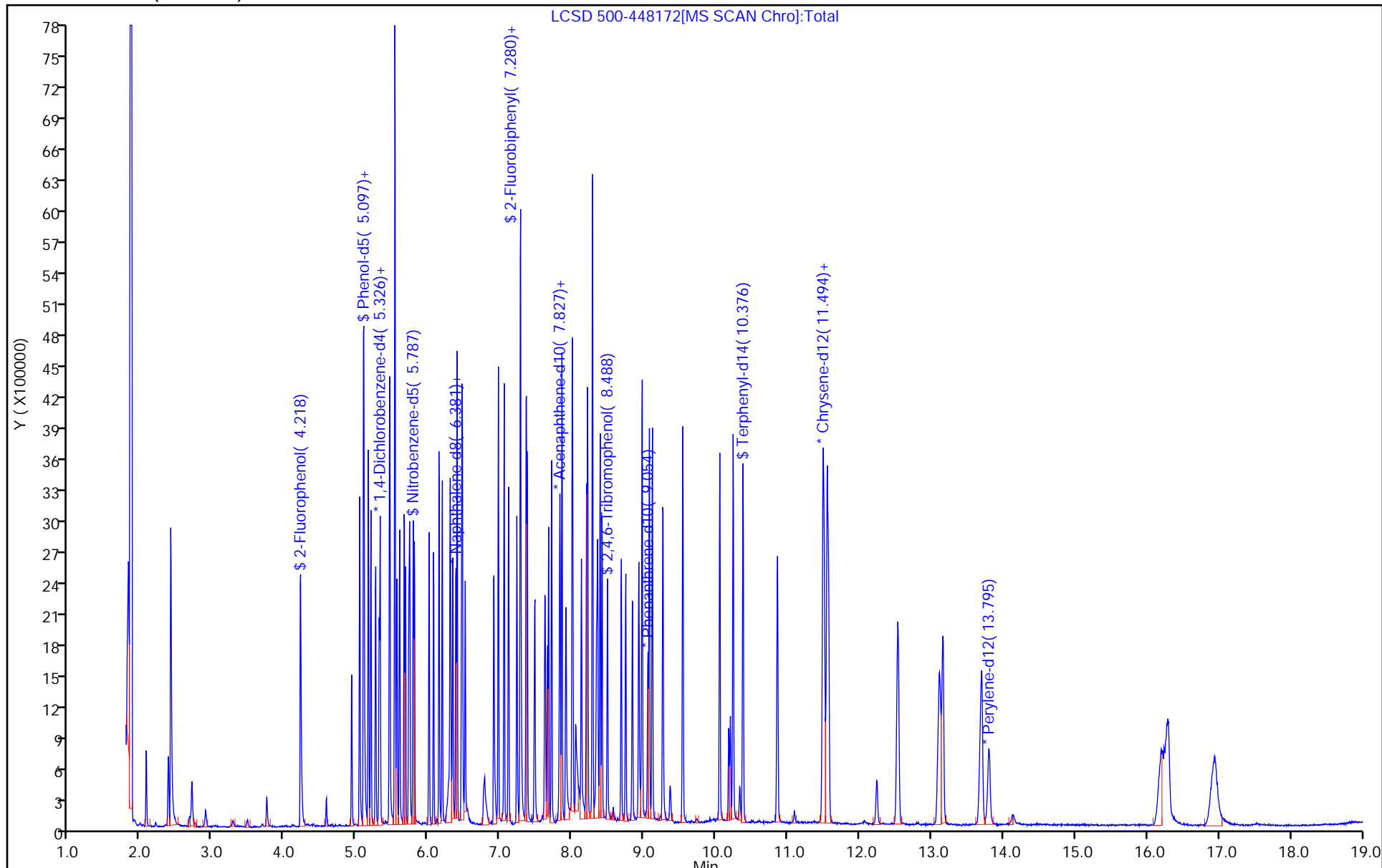
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 1-LVI8270

Limit Group: MSBNA_625_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\LCSD 500-448172.D
 Lims ID: LCSD 500-448172/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Sep-2018 14:39:30 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 500-448172/3-A
 Misc. Info.: 500-0054817-007
 Operator ID: AD Instrument ID: CMS01
 Method: \\ChromNA\Chicago\ChromData\CMS01\20180904-54817.b\1-LVI8270.m
 Limit Group: MSBNA_625_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:53:04 Calib Date: 25-Jul-2018 13:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20180725-53890.b\1C0725E.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg Date: 04-Sep-2018 19:53:04

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	9.48	94.80
\$ 8 Phenol-d5	10.0	6.80	68.04
\$ 9 Nitrobenzene-d5	10.0	9.75	97.47
\$ 10 2-Fluorobiphenyl	10.0	8.32	83.19
\$ 11 2,4,6-Tribromophenol	10.0	8.25	82.51
\$ 12 Terphenyl-d14	10.0	7.76	77.59

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS01 Start Date: 07/19/2018 16:10Analysis Batch Number: 441637 End Date: 07/19/2018 21:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-441637/1		07/19/2018 16:10	1	1D0719C.D	ZB5MS 0.25 (mm)
ICIS 500-441637/9		07/19/2018 16:38	1	icisA.D	ZB5MS 0.25 (mm)
IC 500-441637/2		07/19/2018 17:06	1	ic2A.D	ZB5MS 0.25 (mm)
IC 500-441637/3		07/19/2018 17:34	1	ic02.D	ZB5MS 0.25 (mm)
IC 500-441637/4		07/19/2018 18:01	1	IC05.D	ZB5MS 0.25 (mm)
IC 500-441637/5		07/19/2018 18:30	1	ic1.D	ZB5MS 0.25 (mm)
IC 500-441637/6		07/19/2018 18:57	1	ic5.D	ZB5MS 0.25 (mm)
IC 500-441637/7		07/19/2018 19:25	1	ic10.D	ZB5MS 0.25 (mm)
IC 500-441637/8		07/19/2018 19:53	1	ic20.D	ZB5MS 0.25 (mm)
IC 500-441637/10		07/19/2018 20:21	1	ic50.D	ZB5MS 0.25 (mm)
IC 500-441637/11		07/19/2018 20:48	1	ic60.D	ZB5MS 0.25 (mm)
IC 500-441637/12		07/19/2018 21:16	1	ic70.D	ZB5MS 0.25 (mm)
ICV 500-441637/13		07/19/2018 21:43	1		ZB5MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS01 Start Date: 09/04/2018 11:47

Analysis Batch Number: 448229 End Date: 09/05/2018 08:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-448229/1		09/04/2018 11:47	1	1D0904a.D	ZB5MS 0.25 (mm)
CCVIS 500-448229/3		09/04/2018 12:41	1	1C0904b.D	ZB5MS 0.25 (mm)
CCV 500-448229/4		09/04/2018 13:16	1		ZB5MS 0.25 (mm)
CCVL 500-448229/5		09/04/2018 13:44	1		ZB5MS 0.25 (mm)
LCS 500-448172/2-A		09/04/2018 14:11	1	LCS 500-448172.D	ZB5MS 0.25 (mm)
LCSD 500-448172/3-A		09/04/2018 14:39	1	LCSD 500-448172.D	ZB5MS 0.25 (mm)
MB 500-448172/1-A		09/04/2018 15:33	1	MB 500-448172.D	ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 00:09	1		ZB5MS 0.25 (mm)
500-150867-1		09/05/2018 08:02	1	500-150867-A-1. D	ZB5MS 0.25 (mm)
500-150867-2		09/05/2018 08:29	1	500-150867-A-2. D	ZB5MS 0.25 (mm)
500-150867-3		09/05/2018 08:57	1	500-150867-A-3. D	ZB5MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448172 Batch Start Date: 09/04/18 07:55 Batch Analyst: Smykowski, Justin

Batch Method: 625 Batch End Date: 09/04/18 09:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 500-448172/1		625, 625				250 mL	1.0 mL	6 SU	2 SU
LCS 500-448172/2		625, 625				250 mL	1.0 mL	6 SU	2 SU
LCSD 500-448172/3		625, 625				250 mL	1.0 mL	6 SU	2 SU
500-150867-A-1	R1	625, 625	T	439.1 g	183.8 g	255.3 mL	1.0 mL	7 SU	2 SU
500-150867-A-2	G1-01	625, 625	T	423.9 g	183.0 g	240.9 mL	1.0 mL	7 SU	2 SU
500-150867-A-3	G2-01	625, 625	T	430.2 g	181.1 g	249.1 mL	1.0 mL	7 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	EXBNAL1SPW 00223	EXBNASURTS 00053			
MB 500-448172/1		625, 625		12 SU		100 uL			
LCS 500-448172/2		625, 625		12 SU	200 uL	100 uL			
LCSD 500-448172/3		625, 625		12 SU	200 uL	100 uL			
500-150867-A-1	R1	625, 625	T	12 SU		100 uL			
500-150867-A-2	G1-01	625, 625	T	12 SU		100 uL			
500-150867-A-3	G2-01	625, 625	T	12 SU		100 uL			

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448172 Batch Start Date: 09/04/18 07:55 Batch Analyst: Smykowski, JustinBatch Method: 625 Batch End Date: 09/04/18 09:45

Batch Notes	
Acid Used for pH Adjustment ID	4842573
Balance ID	2619
Base Used to Adjust pH ID	4903332
Analyst ID - Concentration	BSO
Concentration 1 Corrected Temperature	37.0, 38.5, 37.5, 38.5 Degrees C
Concentration 2 Corrected Temperature	30.0 Degrees C
Equipment ID - Concentration 1	C-2394, C-2177, C-2175, C-2176
Equipment ID - Concentration 2	C-0655
Analyst ID - Extraction	dak, js
Glass Wool ID	4811494
Na2SO4 ID	4902664
pH Indicator ID	220416A, 3816
Pipette/Syringe/Dispenser ID	a98, a100
Prep Solvent ID	4910622
Prep Solvent Volume Used	180 mL
Residual Chlorine Indicator ID	14-860
Analyst ID - Spike Analyst	dak
Analyst ID - Spike Witness Analyst	js
Sufficient Volume for Batch QC	N
Thermometer ID - Concentration 1	VEEGEE#3
Thermometer ID - Concentration 2	VEEGEE#4
Concentration 1 Uncorrected Temperature	38.5, 40.0, 39.0, 40.0 Degrees C
Concentration 2 Uncorrected Temperature	30.0 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.

Method 8270D

Semivolatile Organic Compounds
(GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): ZB5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHL #
Total Solids	500-150867-4	74	75	82
	MB 500-448191/1-A	99	102	98
	LCS 500-448191/2-A	87	91	80

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

QC LIMITS
41-120
44-121
35-160

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: LCS 500-448191.d
 Lab ID: LCS 500-448191/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1330	1120	84	62-119	
Acenaphthylene	1330	1080	81	60-110	
Anthracene	1330	1120	84	63-110	
Benzo[a]anthracene	1330	1140	86	67-122	
Benzo[a]pyrene	1330	1180	88	61-120	
Benzo[b]fluoranthene	1330	1150	86	64-127	
Benzo[g,h,i]perylene	1330	1180	88	65-132	
Benzo[k]fluoranthene	1330	1180	88	65-120	
Chrysene	1330	1090	82	63-120	
Dibenz(a,h)anthracene	1330	1230	93	64-119	
Fluoranthene	1330	1140	86	62-120	
Fluorene	1330	1090	82	62-120	
Indeno[1,2,3-cd]pyrene	1330	1230	92	57-127	
Naphthalene	1330	1090	82	63-110	
Phenanthrene	1330	1110	83	62-120	
Pyrene	1330	1100	83	61-128	
1-Methylnaphthalene	1330	1080	81	61-110	
2-Methylnaphthalene	1330	1080	81	62-110	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: MB 500-448191.d Lab Sample ID: MB 500-448191/1-A
 Matrix: Solid Date Extracted: 09/04/2018 08:10
 Instrument ID: CMS24 Date Analyzed: 09/04/2018 17:19
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-448191/2-A	LCS 500-448191.d	09/04/2018 16:27
Total Solids	500-150867-4	500-150867-A-4-A.D	09/05/2018 10:43

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: 11D0821c.D DFTPP Injection Date: 08/21/2018
 Instrument ID: CMS11 DFTPP Injection Time: 14:30
 Analysis Batch No.: 446389

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	50.7
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	34.8
70	Less than 2% of mass 69	0.1 (0.3) 1
127	10-80% of Base Peak	49.4
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.8
275	10-60% of Base Peak	48.3
365	Greater than 1% of mass 198	12.6
441	present but less than 24% of mass 442	80.6 (16.6) 2
442	Greater than 50% of mass 198	486.3
443	15-24% of mass 442	88.1 (18.1) 2

1-Value is % mass 69

2-Value is % mass 442

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
	IC 500-446389/2	ic ppm2.D	08/21/2018	15:07
	IC 500-446389/3	ic ppm02.D	08/21/2018	15:36
	IC 500-446389/4	ic ppm05.D	08/21/2018	16:06
	IC 500-446389/5	ic ppm1.D	08/21/2018	16:35
	IC 500-446389/6	ic ppm5.D	08/21/2018	17:04
	IC 500-446389/7	ic ppm10.D	08/21/2018	17:34
	IC 500-446389/8	ic ppm20.D	08/21/2018	18:03
	ICIS 500-446389/9	ic ppm40.D	08/21/2018	18:32
	IC 500-446389/11	ic ppm60.D	08/21/2018	19:31
	IC 500-446389/12	ic ppm70.D	08/21/2018	20:00
	ICV 500-446389/13	icv-list1.D	08/21/2018	20:30

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: 11D0905.D DFTPP Injection Date: 09/05/2018
 Instrument ID: CMS11 DFTPP Injection Time: 08:50
 Analysis Batch No.: 448389

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	76.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	36.8
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	51.2
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.9
275	10-60% of Base Peak	45.8
365	Greater than 1% of mass 198	13.6
441	present but less than 24% of mass 442	87.1 (16.3) 2
442	Greater than 50% of mass 198	533.6
443	15-24% of mass 442	97.4 (18.3) 2

1-Value is % mass 69

2-Value is % mass 442

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
	CCVIS 500-448389/2	11c0905.D	09/05/2018	09:18
Total Solids	500-150867-4	500-150867-A -4-A.D	09/05/2018	10:43

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: 24D0822d.d DFTPP Injection Date: 08/22/2018
 Instrument ID: CMS24 DFTPP Injection Time: 19:01
 Analysis Batch No.: 446627

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	51.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	38.8
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	53.5
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	24.1
365	Greater than 1% of mass 198	2.8
441	present but less than 24% of mass 442	11.3 (17.5) 2
442	Greater than 50% of mass 198	64.8
443	15-24% of mass 442	12.4 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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
	IC 500-446627/3	24c0822d.d	08/22/2018	19:26
	IC 500-446627/2	IC ppm2.d	08/22/2018	19:52
	IC 500-446627/4	IC ppm05.d	08/22/2018	20:17
	IC 500-446627/5	IC ppm1.d	08/22/2018	20:43
	IC 500-446627/6	IC ppm5.d	08/22/2018	21:09
	IC 500-446627/7	IC ppm10.d	08/22/2018	21:35
	IC 500-446627/8	IC ppm20.d	08/22/2018	22:00
	ICIS 500-446627/9	ICIS.d	08/22/2018	22:26
	IC 500-446627/10	IC ppm50.d	08/22/2018	22:52
	IC 500-446627/11	IC ppm60.d	08/22/2018	23:18
	IC 500-446627/12	IC ppm70.d	08/22/2018	23:43
	ICV 500-446627/13	ICV.d	08/23/2018	00:09

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab File ID: 24D0904.d DFTPP Injection Date: 09/04/2018
 Instrument ID: CMS24 DFTPP Injection Time: 15:01
 Analysis Batch No.: 448285

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	59.5
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	43.1
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	57.3
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	22.8
365	Greater than 1% of mass 198	2.6
441	present but less than 24% of mass 442	9.5 (17.7) 2
442	Greater than 50% of mass 198	53.7
443	15-24% of mass 442	10.7 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

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
	CCVIS 500-448285/2	24C0904.d	09/04/2018	15:26
	LCS 500-448191/2-A	LCS 500-448191.d	09/04/2018	16:27
	MB 500-448191/1-A	MB 500-448191.d	09/04/2018	17:19

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: ICIS 500-446389/9 Date Analyzed: 08/21/2018 18:32
 Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): ic ppm40.D Heated Purge: (Y/N) N
 Calibration ID: 29840

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	123125	6.06	480665	7.12	239028	8.59
UPPER LIMIT	246250	6.56	961330	7.62	478056	9.09
LOWER LIMIT	61563	5.56	240333	6.62	119514	8.09
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-446389/13	124973	6.06	493342	7.12	227814	8.59

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: ICIS 500-446389/9 Date Analyzed: 08/21/2018 18:32
 Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): ic ppm40.D Heated Purge: (Y/N) N
 Calibration ID: 29840

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	451429	9.84	537104	12.86	667335	16.05
UPPER LIMIT	902858	10.34	1074208	13.36	1334670	16.55
LOWER LIMIT	225715	9.34	268552	12.36	333668	15.55
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-446389/13	423273	9.84	517954	12.86	631052	16.05

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448389/2 Date Analyzed: 09/05/2018 09:18
 Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): 11c0905.D Heated Purge: (Y/N) N
 Calibration ID: 30119

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	141627	5.87	569255	6.93	287753	8.40
UPPER LIMIT	283254	6.37	1138510	7.43	575506	8.90
LOWER LIMIT	70814	5.37	284628	6.43	143877	7.90
LAB SAMPLE ID	CLIENT SAMPLE ID					
500-150867-4	Total Solids		140693	5.91	541457	6.94
					276607	8.39

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448389/2 Date Analyzed: 09/05/2018 09:18
 Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): 11c0905.D Heated Purge: (Y/N) N
 Calibration ID: 30119

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	503490	9.64	598034	12.49	719809	15.42
UPPER LIMIT	1006980	10.14	1196068	12.99	1439618	15.92
LOWER LIMIT	251745	9.14	299017	11.99	359905	14.92
LAB SAMPLE ID	CLIENT SAMPLE ID					
500-150867-4	Total Solids		468972	9.64	637460	12.49
					654602	15.43

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: ICIS 500-446627/9 Date Analyzed: 08/22/2018 22:26
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm)
 Lab File ID (Standard): ICIS.d Heated Purge: (Y/N) N
 Calibration ID: 29843

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	215809	6.23	788962	7.28	349965	8.76
UPPER LIMIT	431618	6.73	1577924	7.78	699930	9.26
LOWER LIMIT	107905	5.73	394481	6.78	174983	8.26
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-446627/13	205301	6.23	733297	7.28	324862	8.76

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: ICIS 500-446627/9 Date Analyzed: 08/22/2018 22:26
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm)
 Lab File ID (Standard): ICIS.d Heated Purge: (Y/N) N
 Calibration ID: 29843

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	630946	10.02	581432	13.21	603782	16.68
UPPER LIMIT	1261892	10.52	1162864	13.71	1207564	17.18
LOWER LIMIT	315473	9.52	290716	12.71	301891	16.18
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-446627/13	582435	10.02	541610	13.22	566260	16.69

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448285/2 Date Analyzed: 09/04/2018 15:26
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm)
 Lab File ID (Standard): 24C0904.d Heated Purge: (Y/N) N
 Calibration ID: 30105

	DCBd4		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	184068	6.03	675692	7.09	297859	8.56	
UPPER LIMIT	368136	6.53	1351384	7.59	595718	9.06	
LOWER LIMIT	92034	5.53	337846	6.59	148930	8.06	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-448191/2-A		176499	6.06	677923	7.10	303208	8.56
MB 500-448191/1-A		157219	6.05	690927	7.10	331207	8.57

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448285/2 Date Analyzed: 09/04/2018 15:26
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm)
 Lab File ID (Standard): 24C0904.d Heated Purge: (Y/N) N
 Calibration ID: 30105

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	527578	9.82	476708	12.84	493195	16.04
UPPER LIMIT	1055156	10.32	953416	13.34	986390	16.54
LOWER LIMIT	263789	9.32	238354	12.34	246598	15.54
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 500-448191/2-A	540064	9.82	495547	12.83	503761	16.03
MB 500-448191/1-A	618511	9.83	530093	12.83	524016	16.03

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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 Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: Total Solids Lab Sample ID: 500-150867-4
 Matrix: Solid Lab File ID: 500-150867-A-4-A.D
 Analysis Method: 8270D Date Collected: 08/31/2018 15:50
 Extract. Method: 3541 Date Extracted: 09/04/2018 08:10
 Sample wt/vol: 15.0638(g) Date Analyzed: 09/05/2018 10:43
 Con. Extract Vol.: 2.5(mL) Dilution Factor: 1
 Injection Volume: 5(uL) Level: (low/med) Low
 % Moisture: 31.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448389 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	17	J	48	8.6
208-96-8	Acenaphthylene	24	J	48	6.3
120-12-7	Anthracene	61		48	8.0
56-55-3	Benzo[a]anthracene	210		48	6.5
50-32-8	Benzo[a]pyrene	230		48	9.3
205-99-2	Benzo[b]fluoranthene	320		48	10
191-24-2	Benzo[g,h,i]perylene	87		48	15
207-08-9	Benzo[k]fluoranthene	130		48	14
218-01-9	Chrysene	240		48	13
53-70-3	Dibenz(a,h)anthracene	20	J	48	9.3
206-44-0	Fluoranthene	500		48	8.9
86-73-7	Fluorene	20	J	48	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	85		48	12
91-20-3	Naphthalene	20	J	48	7.4
85-01-8	Phenanthrene	260		48	6.7
129-00-0	Pyrene	420		48	9.5
90-12-0	1-Methylnaphthalene	17	J	97	12
91-57-6	2-Methylnaphthalene	28	J	97	8.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	74		41-120
1718-51-0	Terphenyl-d14 (Surr)	82		35-160
321-60-8	2-Fluorobiphenyl (Surr)	75		44-121

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D
 Lims ID: 500-150867-A-4-A
 Client ID: Total Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 10:43:30 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-4-A
 Misc. Info.: 500-0054839-006
 Operator ID: AD Instrument ID: CMS11
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 13:29:11 Calib Date: 28-Aug-2018 15:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180828-54681.b\11c0828g.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: diaza

Date: 05-Sep-2018 11:27:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.907	5.868	0.039	92	140693	3.20	a
* 2 Naphthalene-d8	136	6.939	6.943	-0.004	98	541457	3.20	
* 3 Acenaphthene-d10	164	8.394	8.398	-0.004	97	276607	3.20	
* 4 Phenanthrene-d10	188	9.635	9.644	-0.009	98	468972	3.20	
* 5 Chrysene-d12	240	12.488	12.488	0.000	97	637460	3.20	
* 6 Perylene-d12	264	15.432	15.427	0.005	97	654602	3.20	
\$ 9 Nitrobenzene-d5	82	6.344	6.317	0.014	89	299447	7.43	
\$ 10 2-Fluorobiphenyl	172	7.818	7.832	-0.005	99	818401	7.51	
\$ 12 Terphenyl-d14	244	11.066	11.071	0.000	99	1274938	8.23	
62 Naphthalene	128	6.953	6.939	0.000	92	13115	0.0812	
73 2-Methylnaphthalene	142	7.524	7.508	0.001	79	13239	0.1165	
74 1-Methylnaphthalene	142	7.604	7.594	-0.005	95	7532	0.0709	
92 Acenaphthylene	152	8.275	8.289	-0.005	97	14254	0.0985	
98 Acenaphthene	153	8.418	8.437	-0.009	88	7219	0.0687	
115 Fluorene	166	8.850	8.865	-0.005	92	9234	0.0814	
131 Phenanthrene	178	9.654	9.673	-0.010	97	168800	1.10	
132 Anthracene	178	9.697	9.716	-0.009	98	40145	0.2526	
142 Fluoranthene	202	10.696	10.706	0.001	99	332302	2.10	
145 Pyrene	202	10.924	10.933	-0.004	97	321484	1.76	
154 Benzo[a]anthracene	228	12.474	12.479	0.000	98	169009	0.8805	
155 Chrysene	228	12.526	12.541	-0.010	98	188476	1.01	
160 Benzo[b]fluoranthene	252	14.533	14.533	0.000	98	254728	1.31	Ma
161 Benzo[k]fluoranthene	252	14.581	14.581	-0.009	94	107271	0.5487	Ma
163 Benzo[a]pyrene	252	15.280	15.289	-0.014	95	174806	0.9469	
165 Indeno[1,2,3-cd]pyrene	276	18.685	18.684	-0.005	97	94813	0.3525	
166 Dibenz(a,h)anthracene	278	18.737	18.741	-0.010	63	18027	0.0813	
167 Benzo[g,h,i]perylene	276	19.218	19.212	0.001	96	80920	0.3616	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_HIVOLISTD_00204

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Worklist Smp#: 6

Client ID: Total Solids

Injection Vol: 5.0 ul

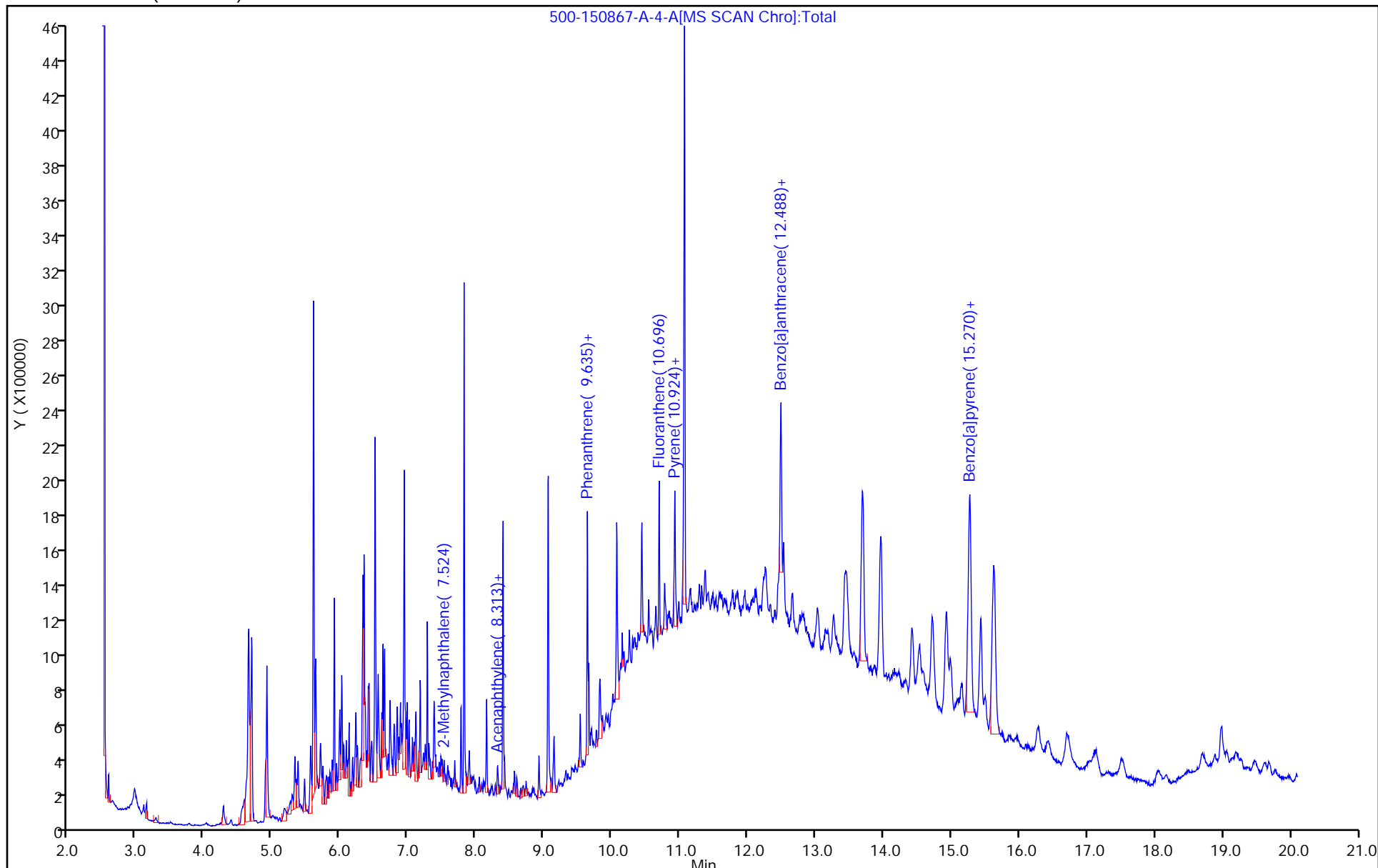
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D
 Lims ID: 500-150867-A-4-A
 Client ID: Total Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 10:43:30 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-4-A
 Misc. Info.: 500-0054839-006
 Operator ID: AD Instrument ID: CMS11
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 13:29:11 Calib Date: 28-Aug-2018 15:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180828-54681.b\11c0828g.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: diaza Date: 05-Sep-2018 11:27:51

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	0.0	0	0.00
\$ 8 Phenol-d5	0.0	0	0.00
\$ 9 Nitrobenzene-d5	10.0	7.43	74.27
\$ 10 2-Fluorobiphenyl	10.0	7.51	75.12
\$ 11 2,4,6-Tribromophenol	0.0	0	0.00
\$ 12 Terphenyl-d14	10.0	8.23	82.34

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

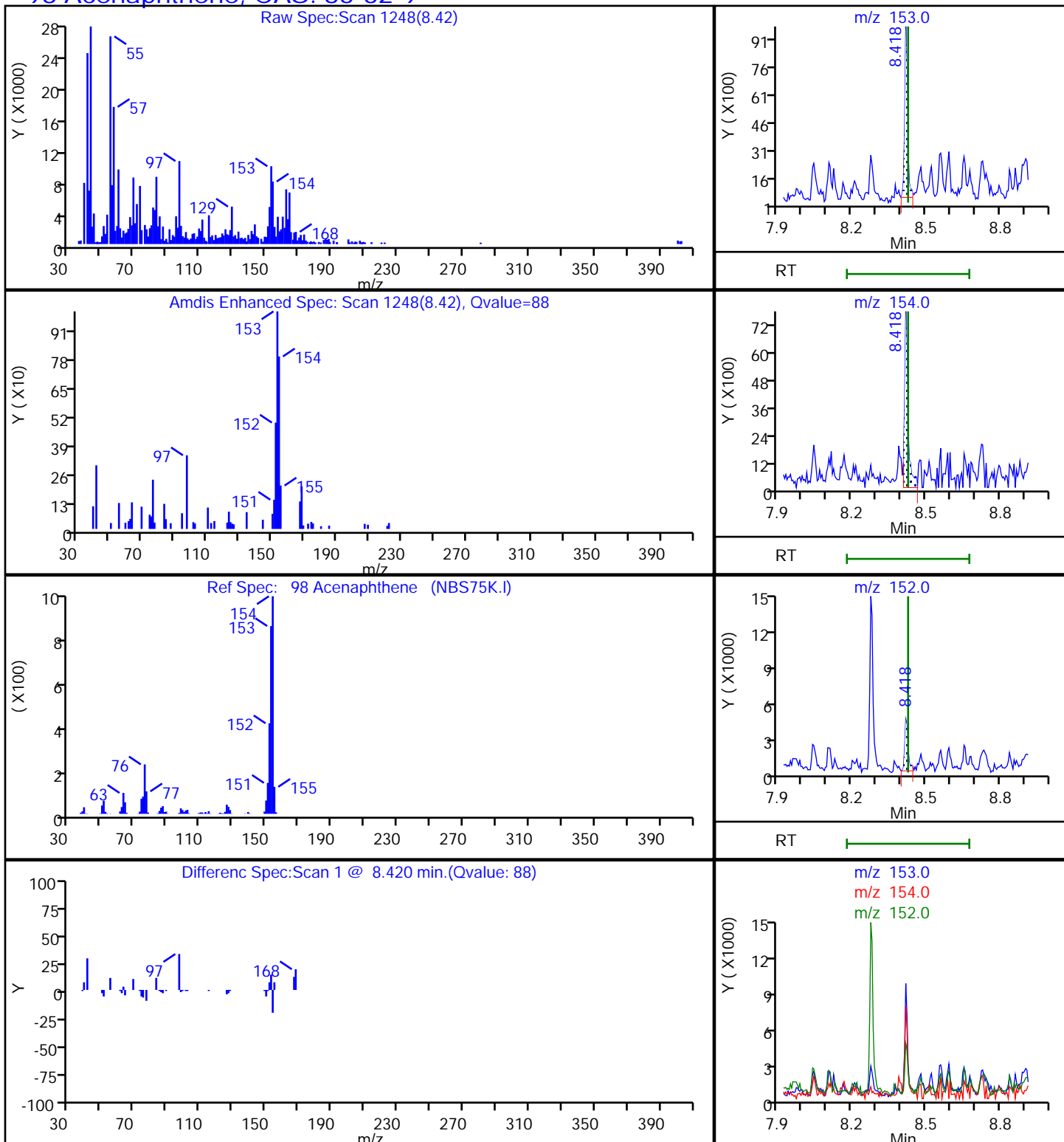
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

98 Acenaphthene, CAS: 83-32-9



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

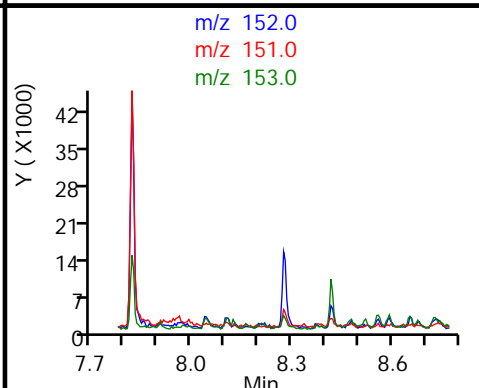
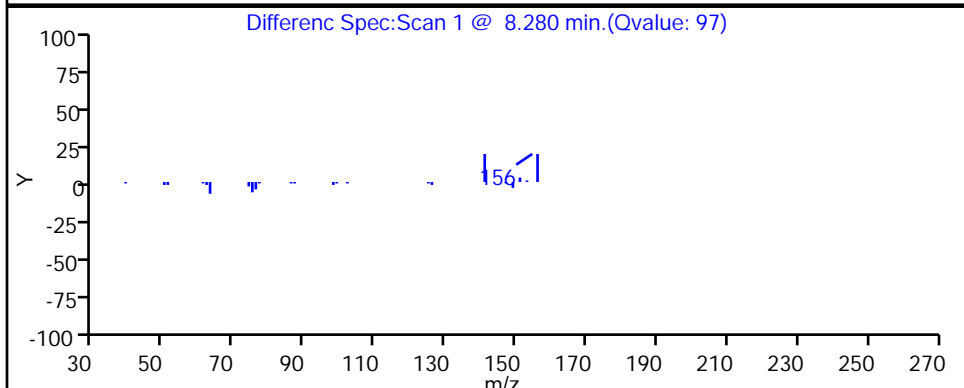
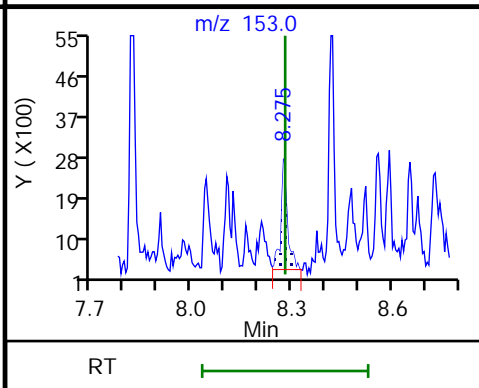
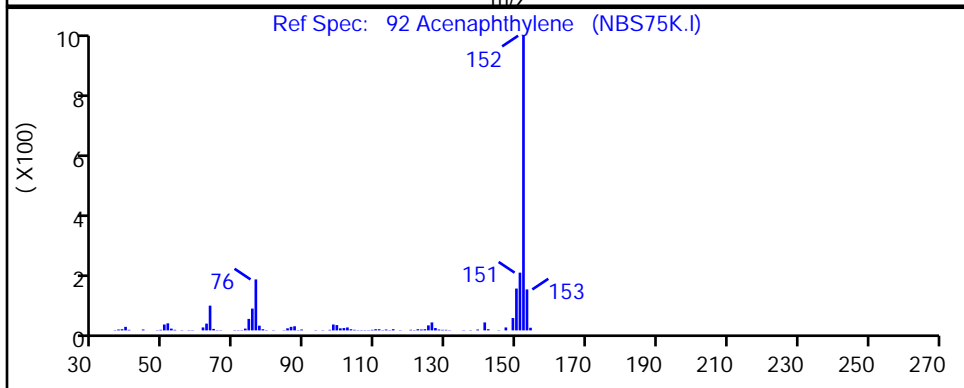
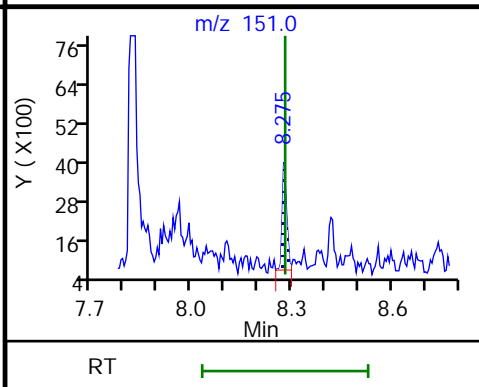
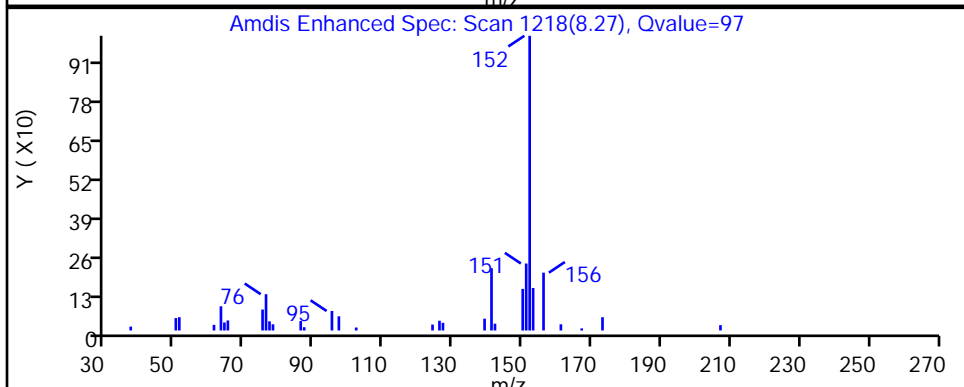
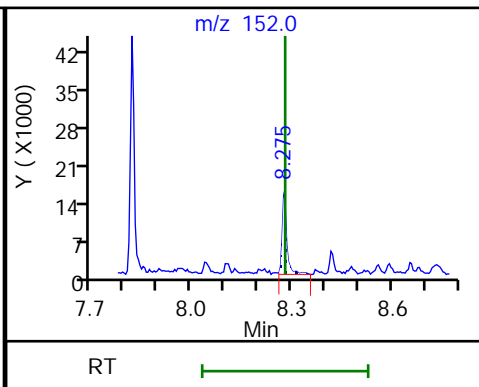
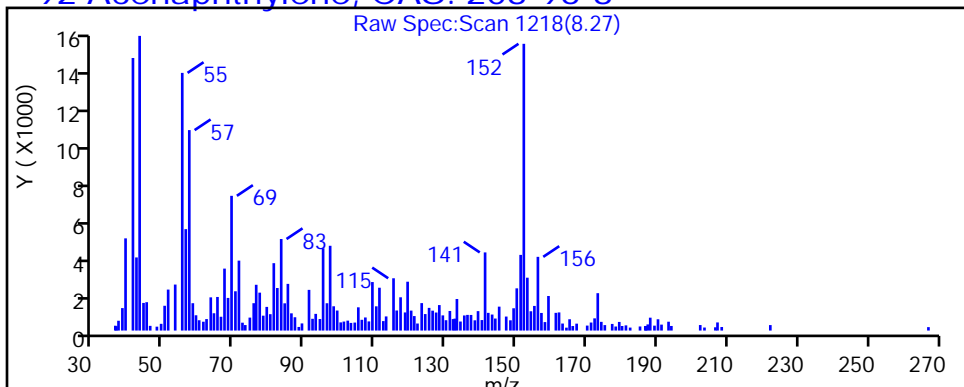
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

92 Acenaphthylene, CAS: 208-96-8



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

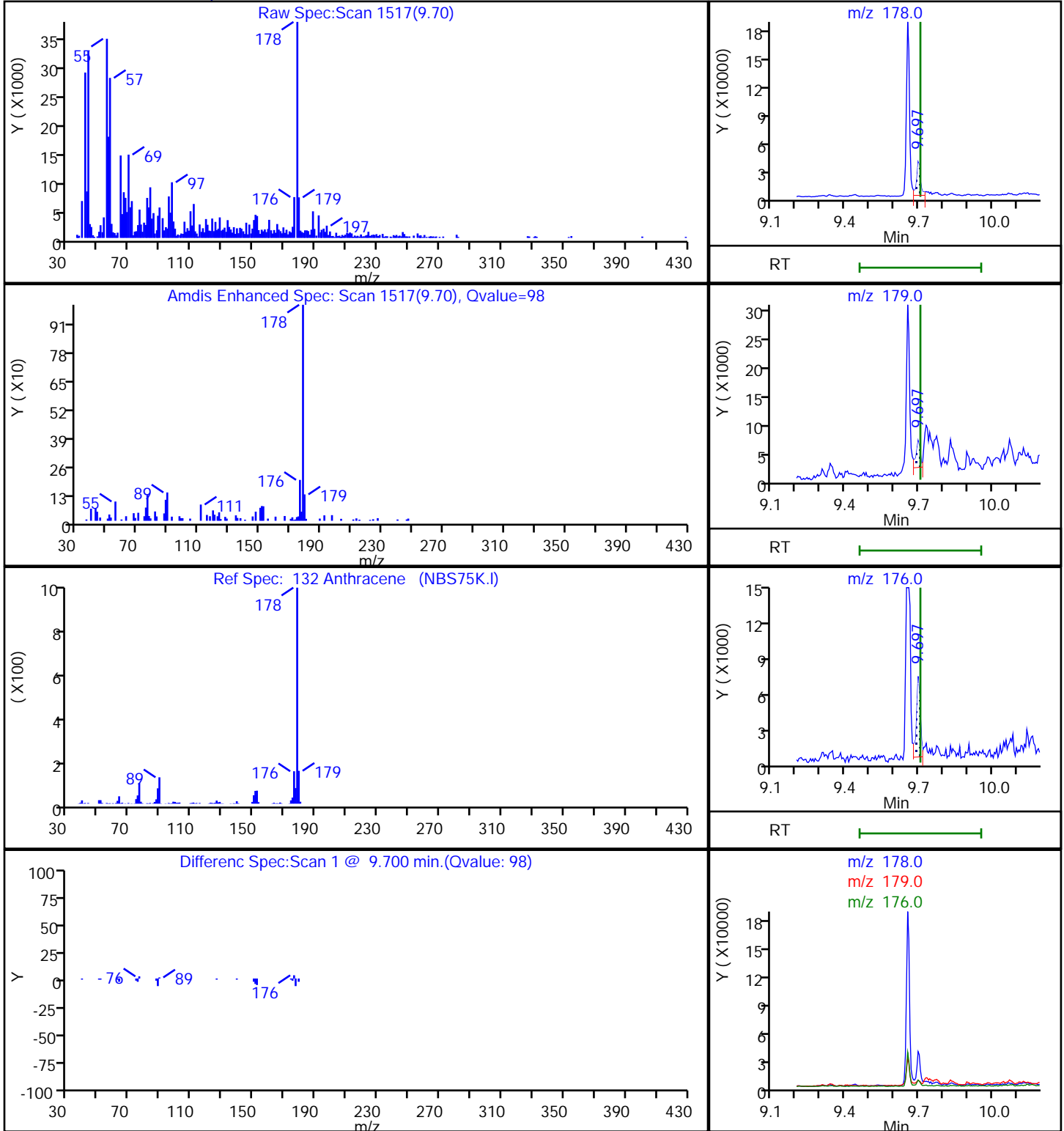
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

132 Anthracene, CAS: 120-12-7



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

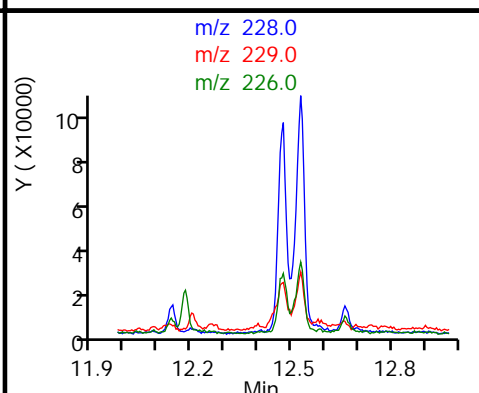
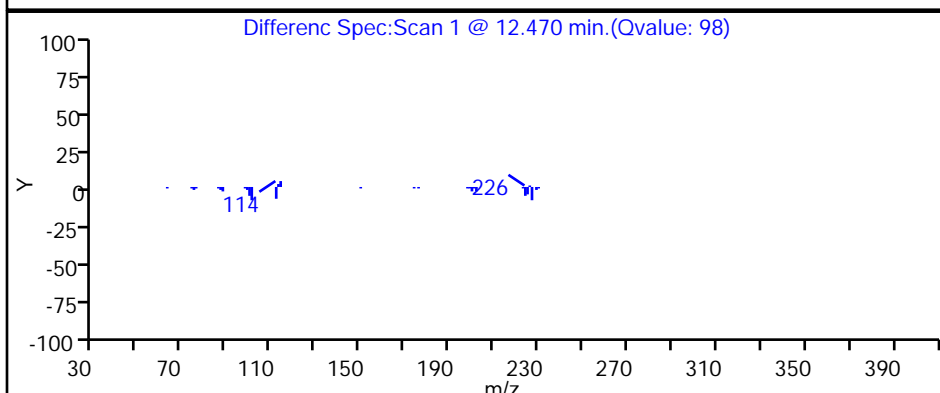
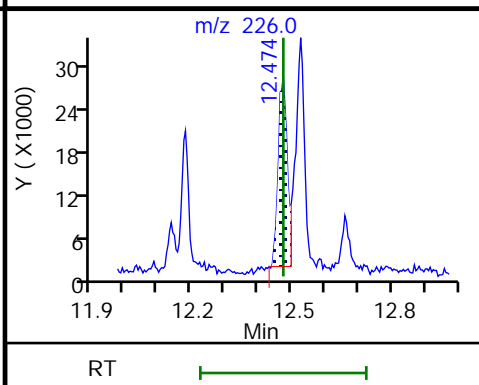
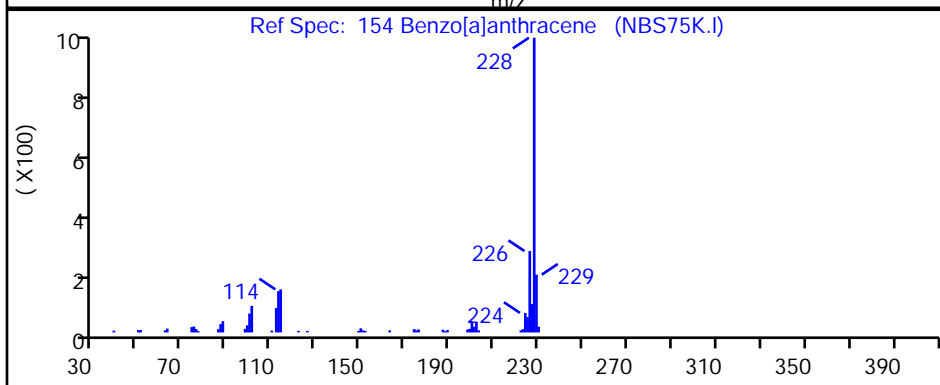
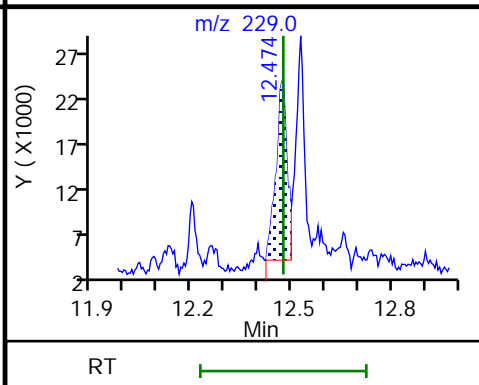
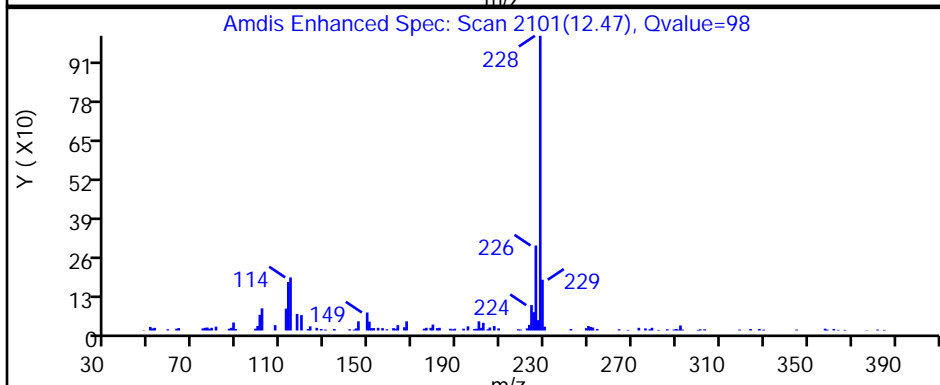
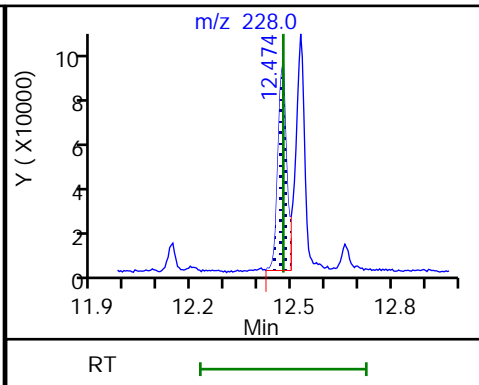
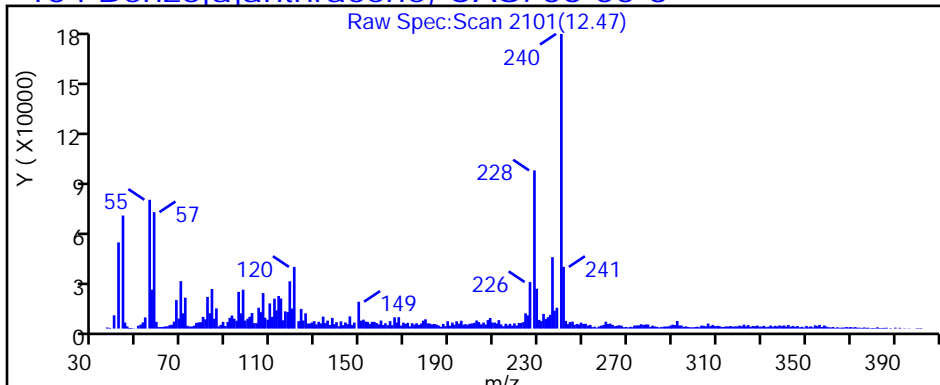
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

154 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

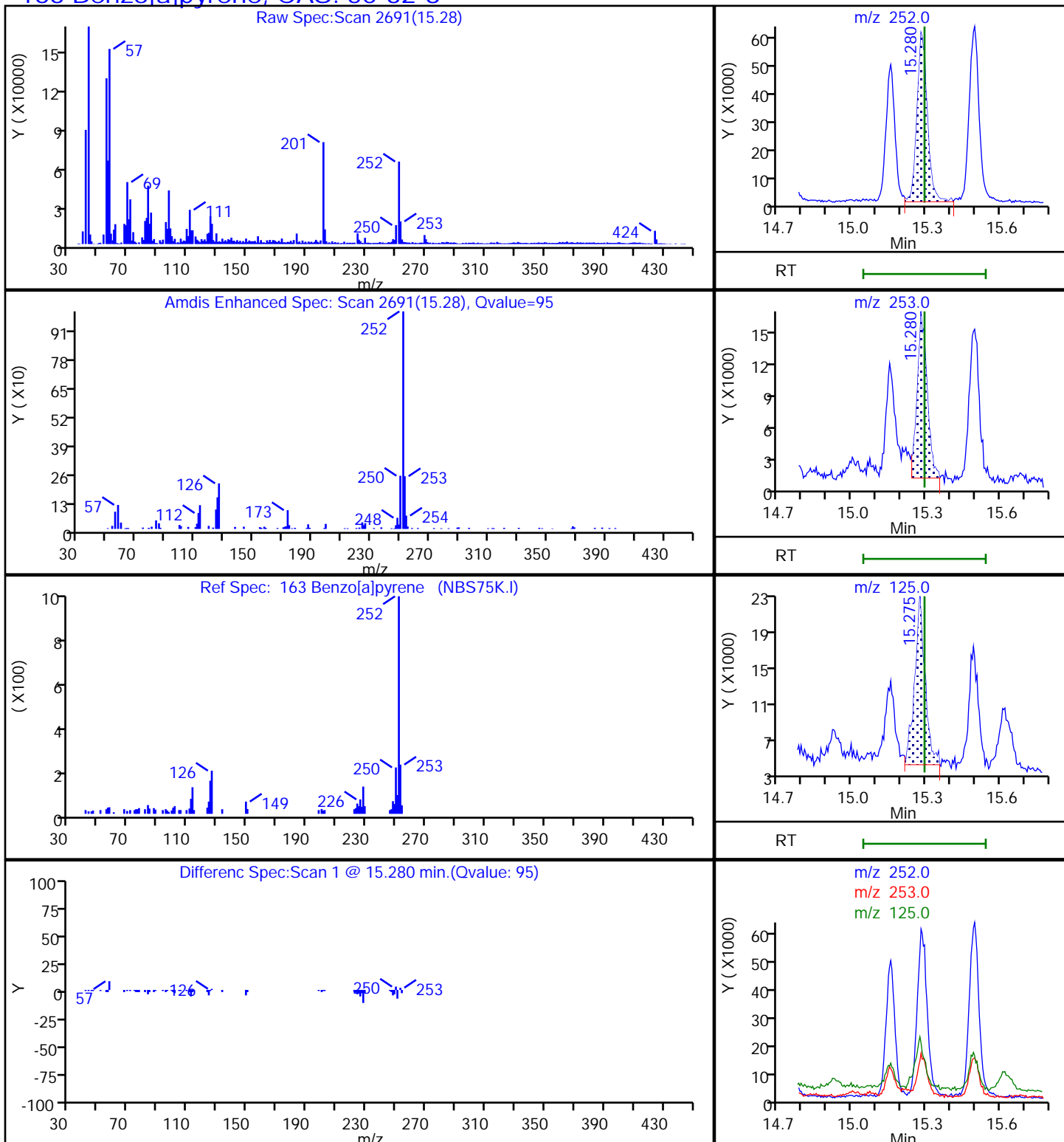
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

163 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

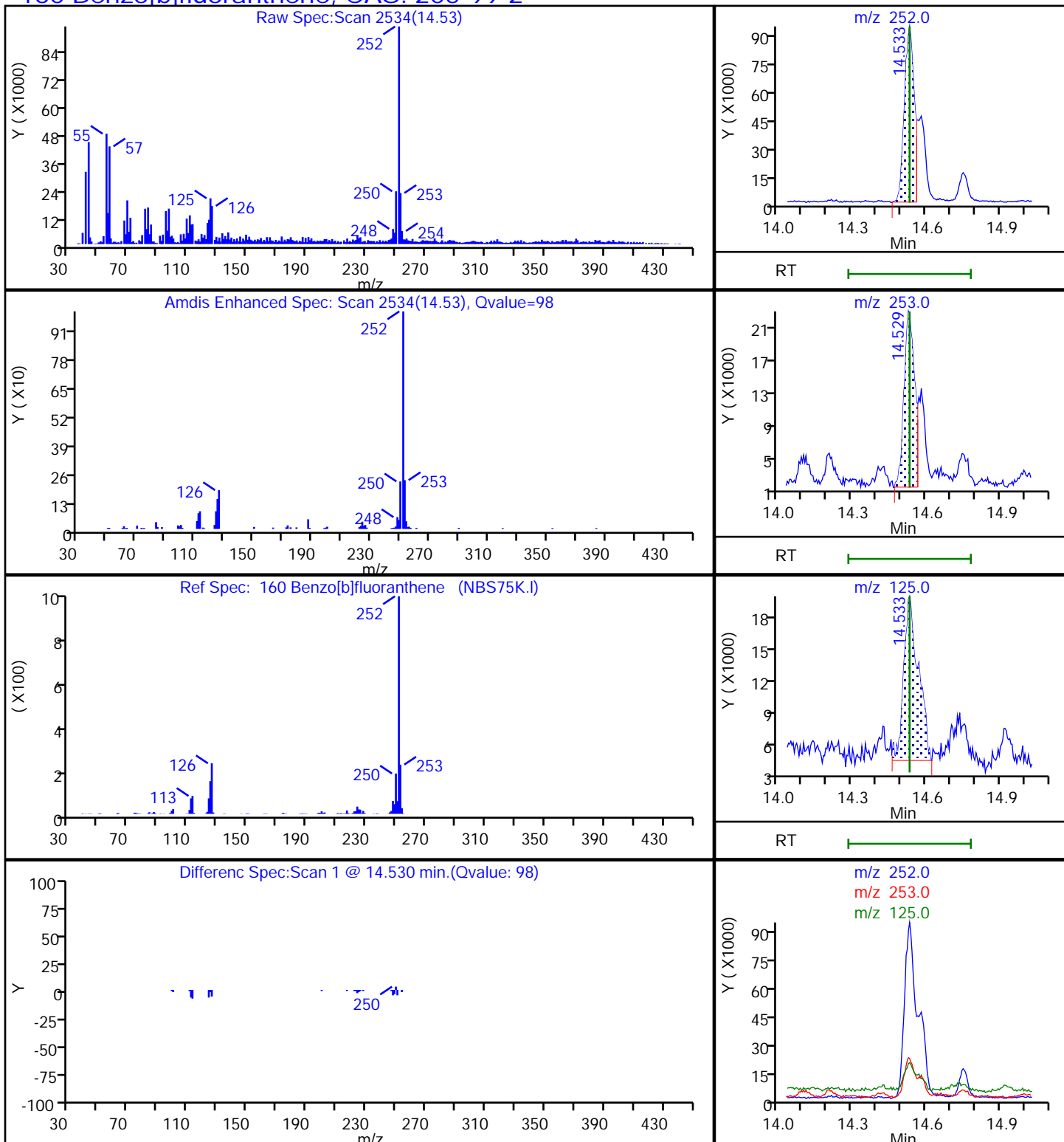
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

160 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

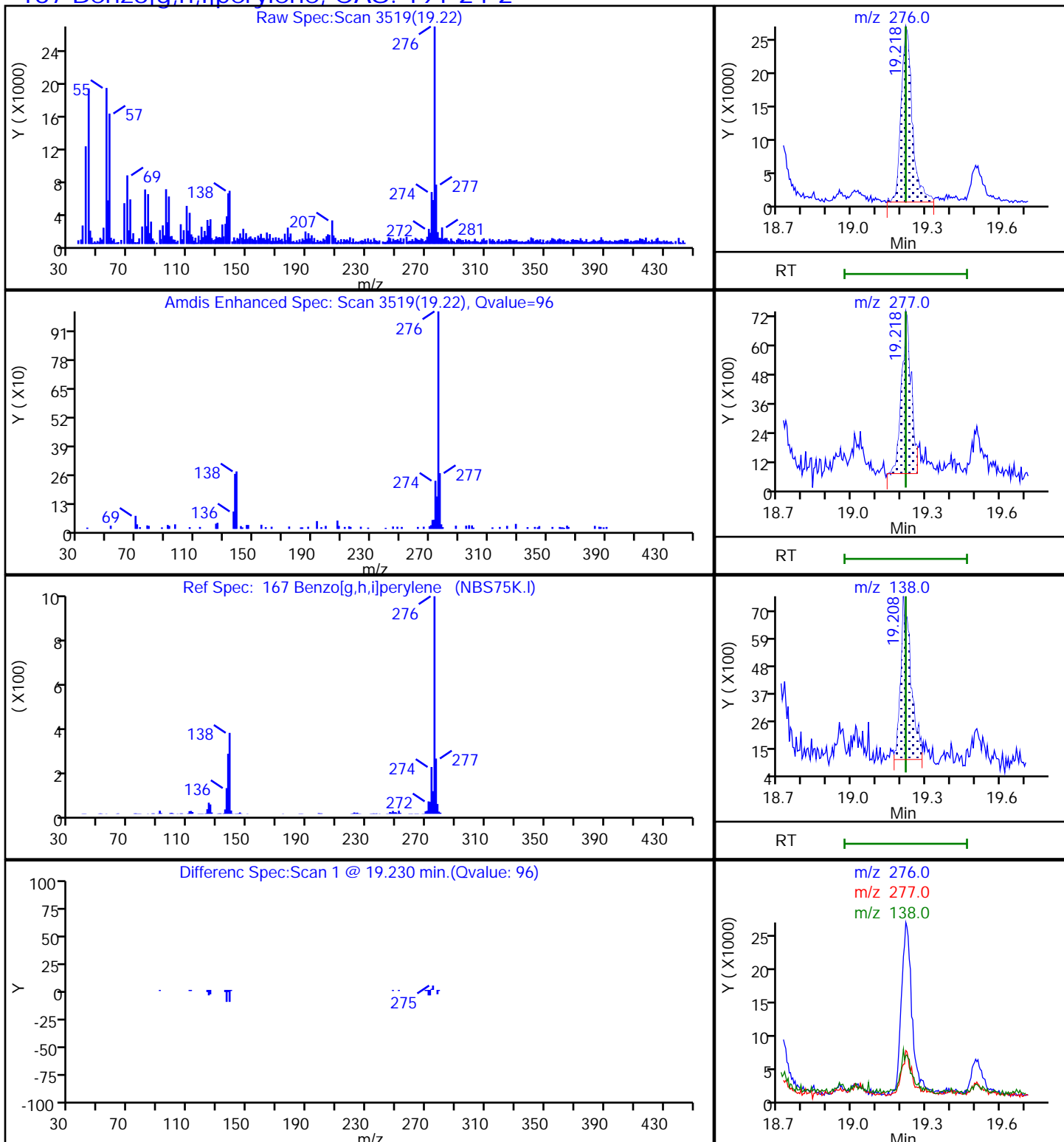
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

167 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

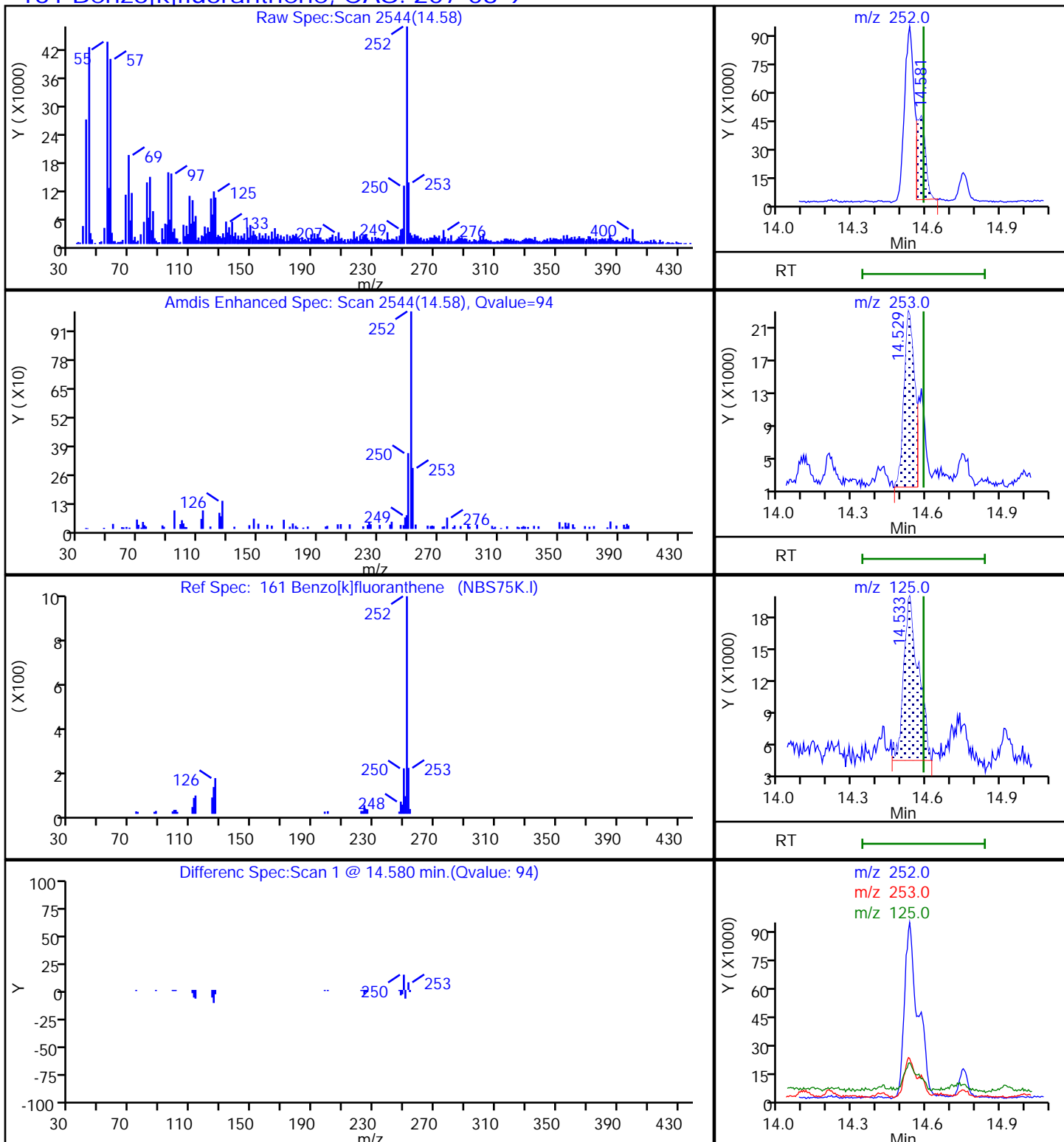
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

161 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

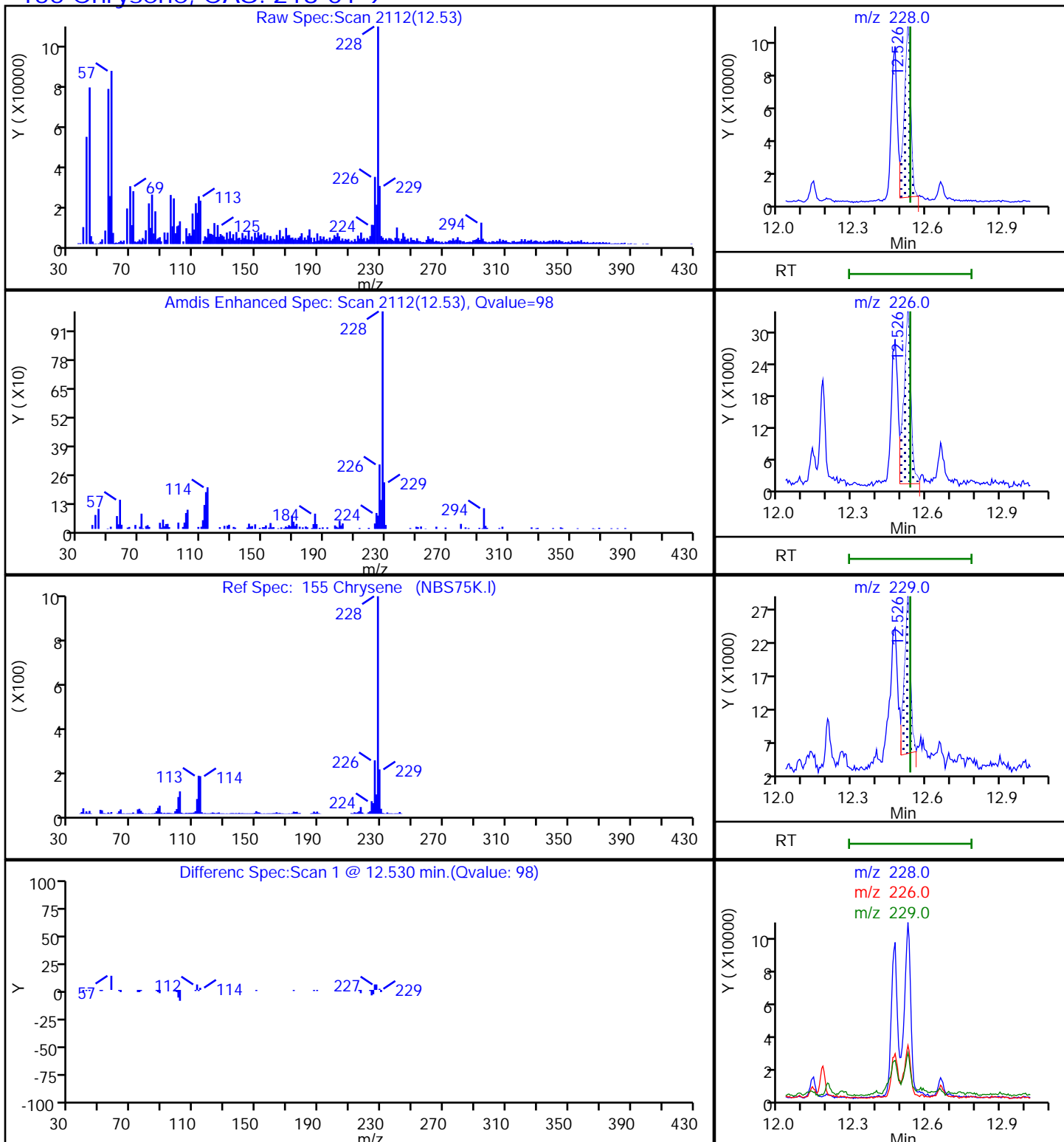
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

155 Chrysene, CAS: 218-01-9



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

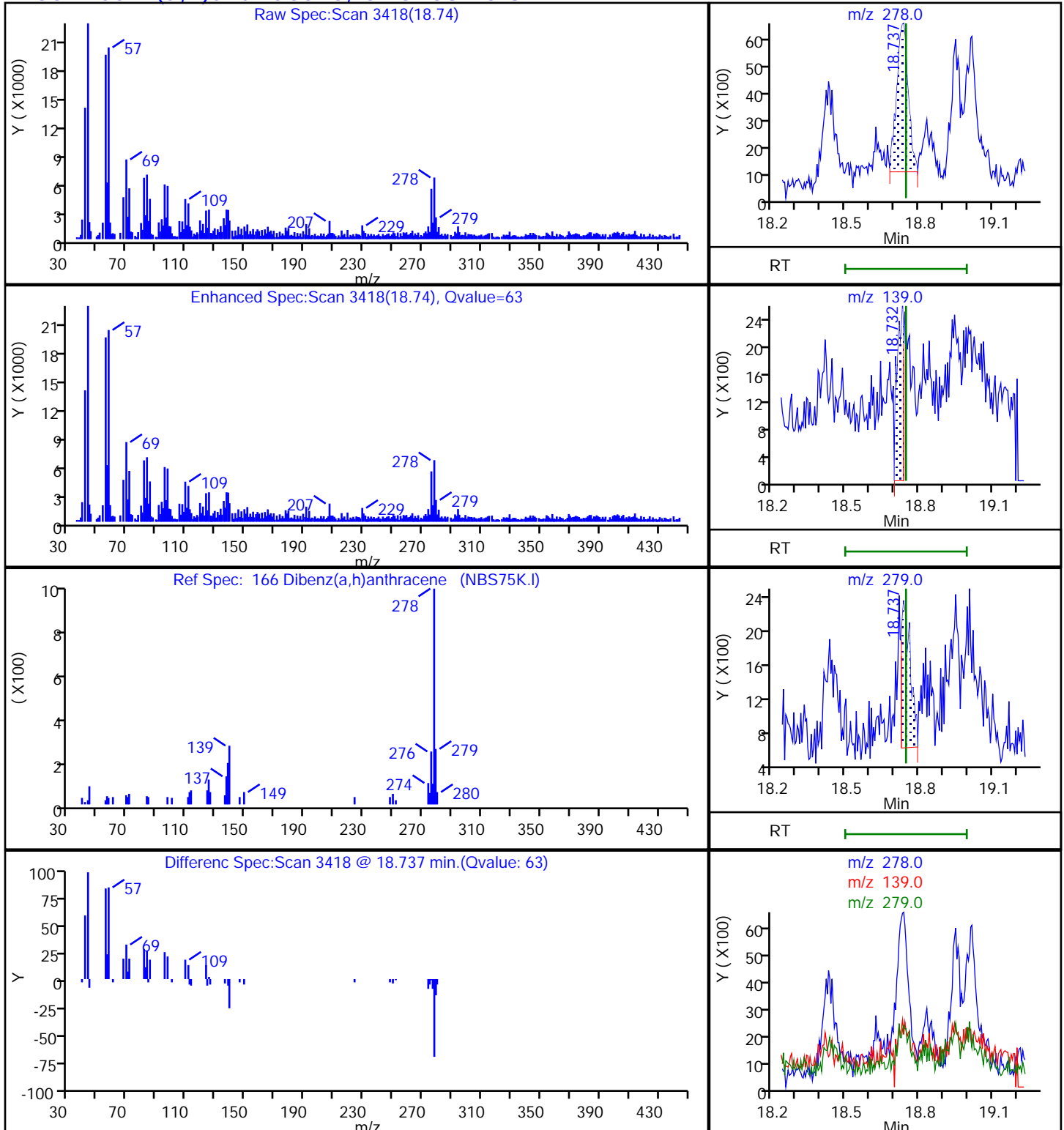
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

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



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

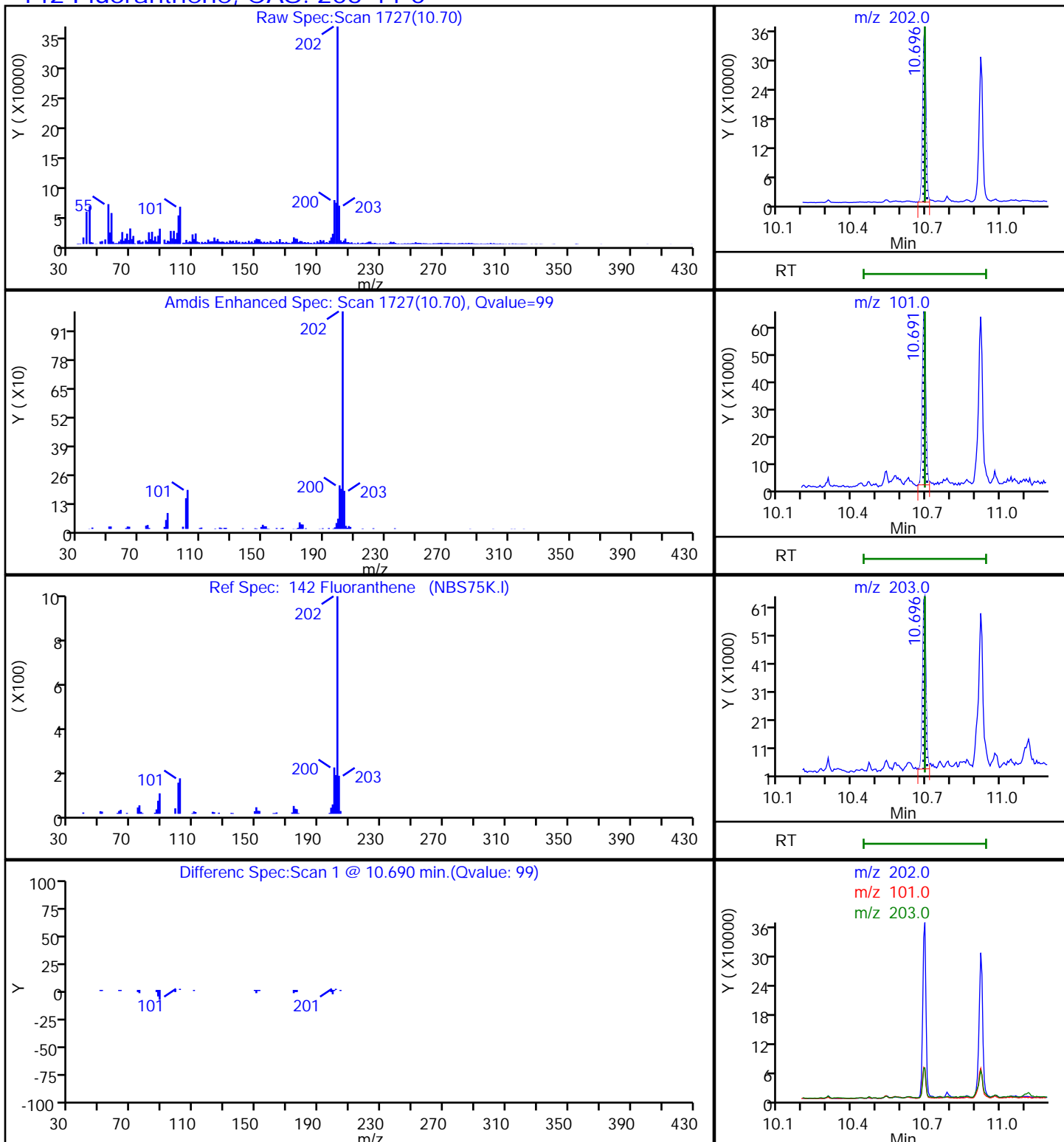
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

142 Fluoranthene, CAS: 206-44-0



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

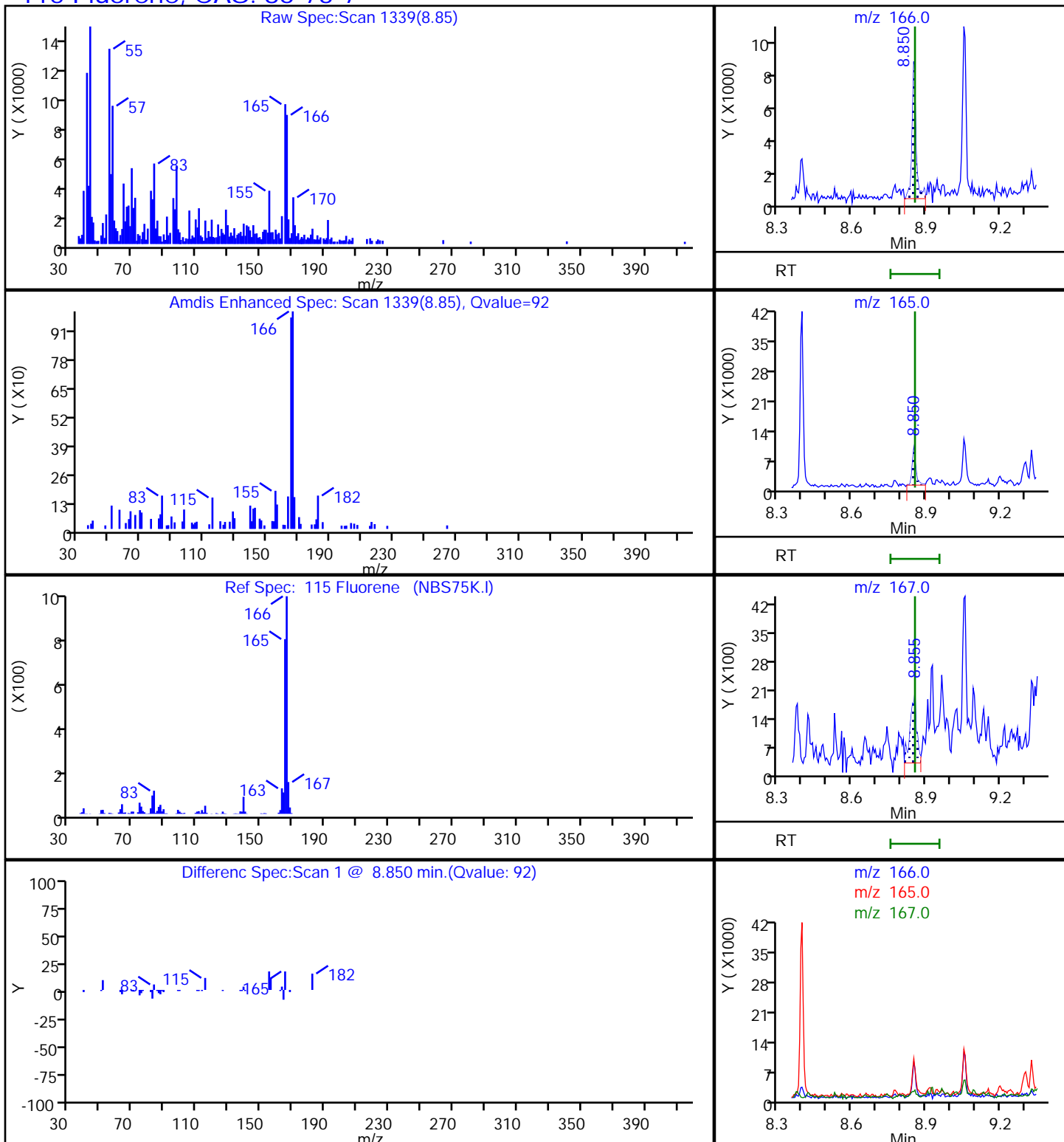
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

115 Fluorene, CAS: 86-73-7



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

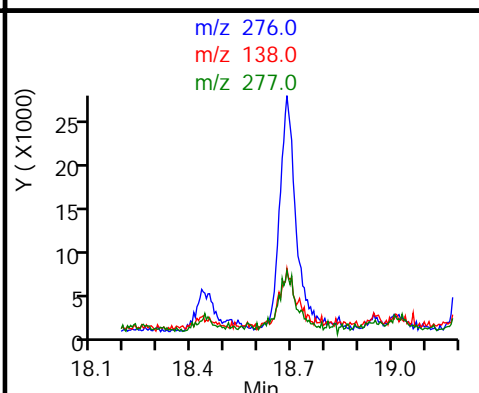
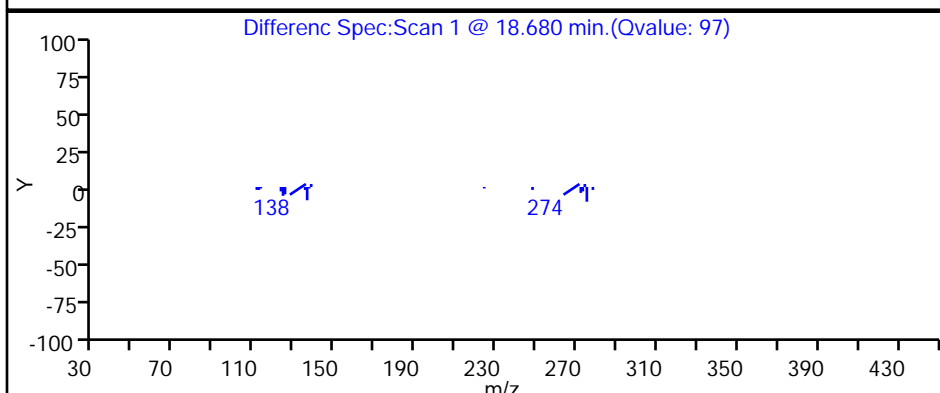
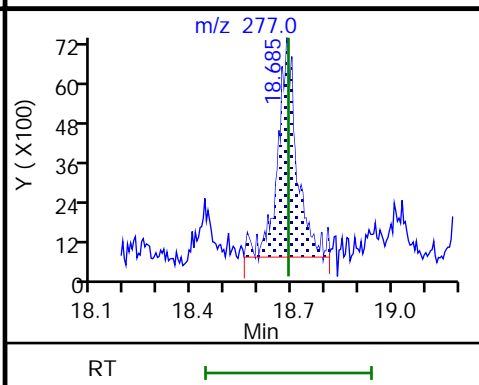
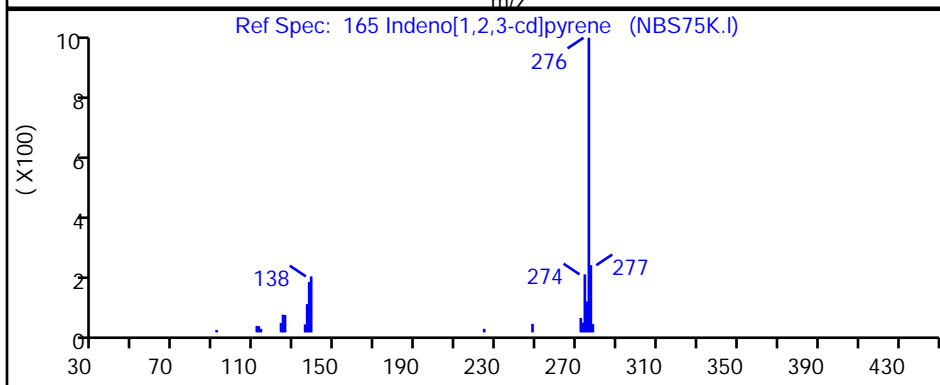
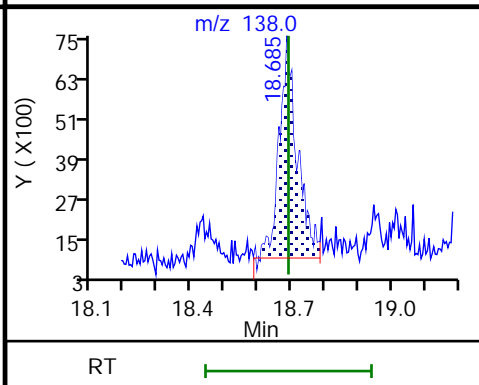
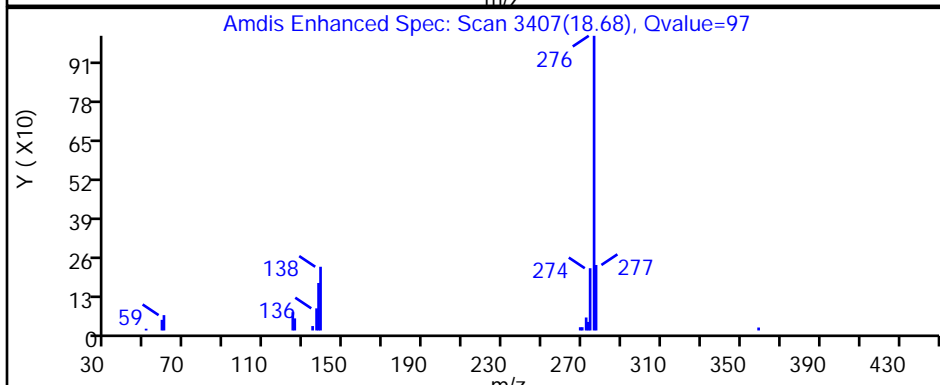
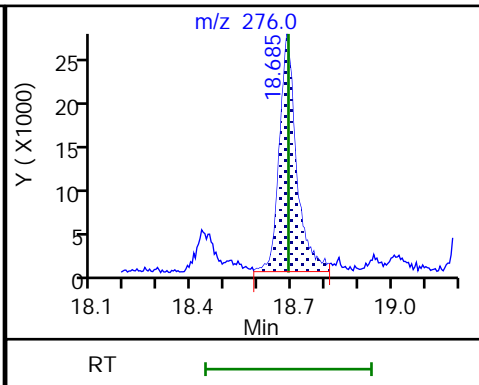
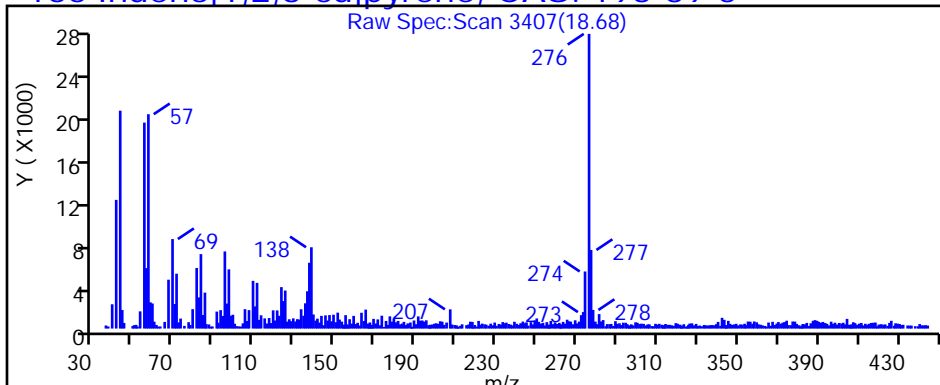
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

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



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

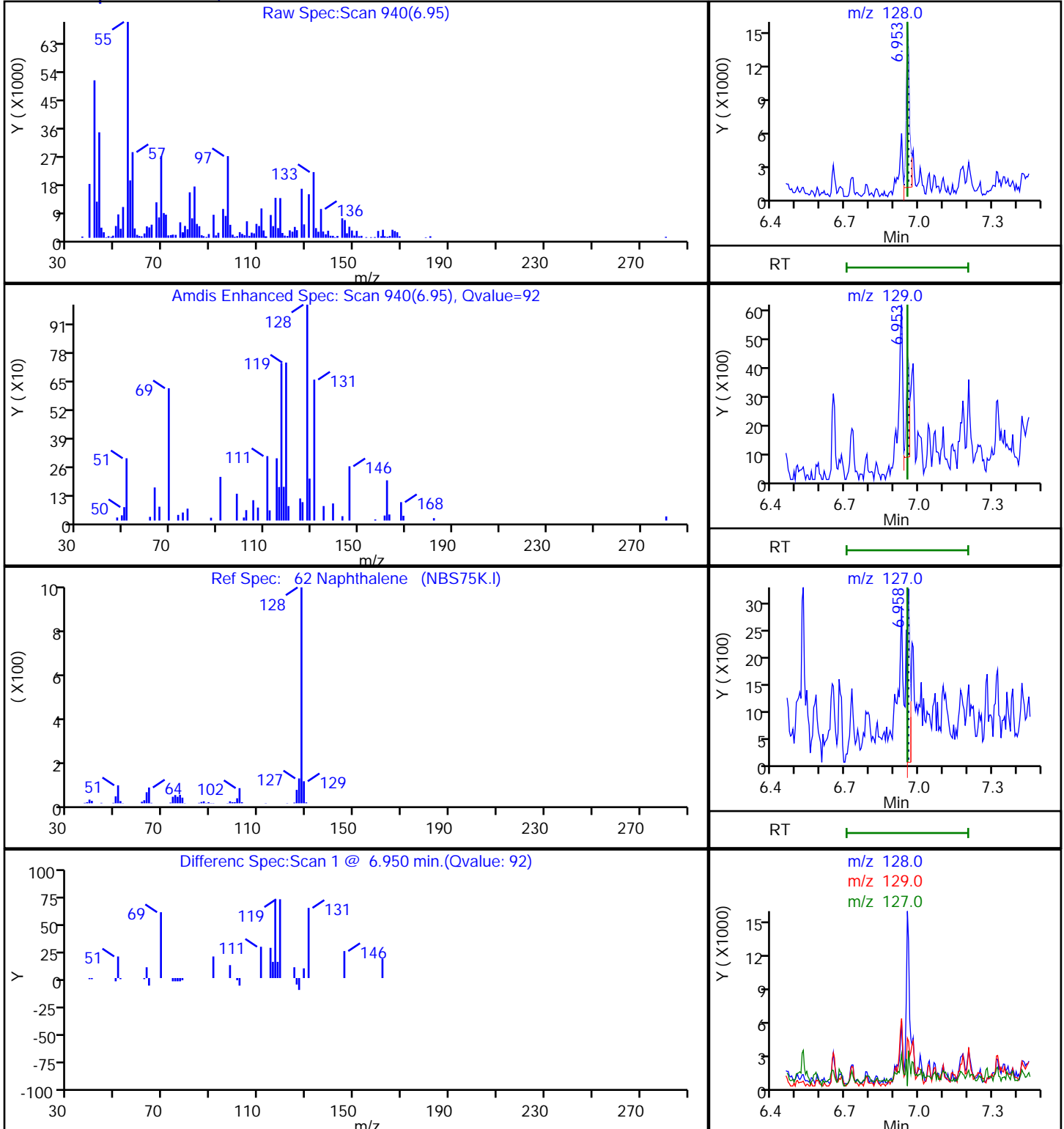
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

62 Naphthalene, CAS: 91-20-3



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

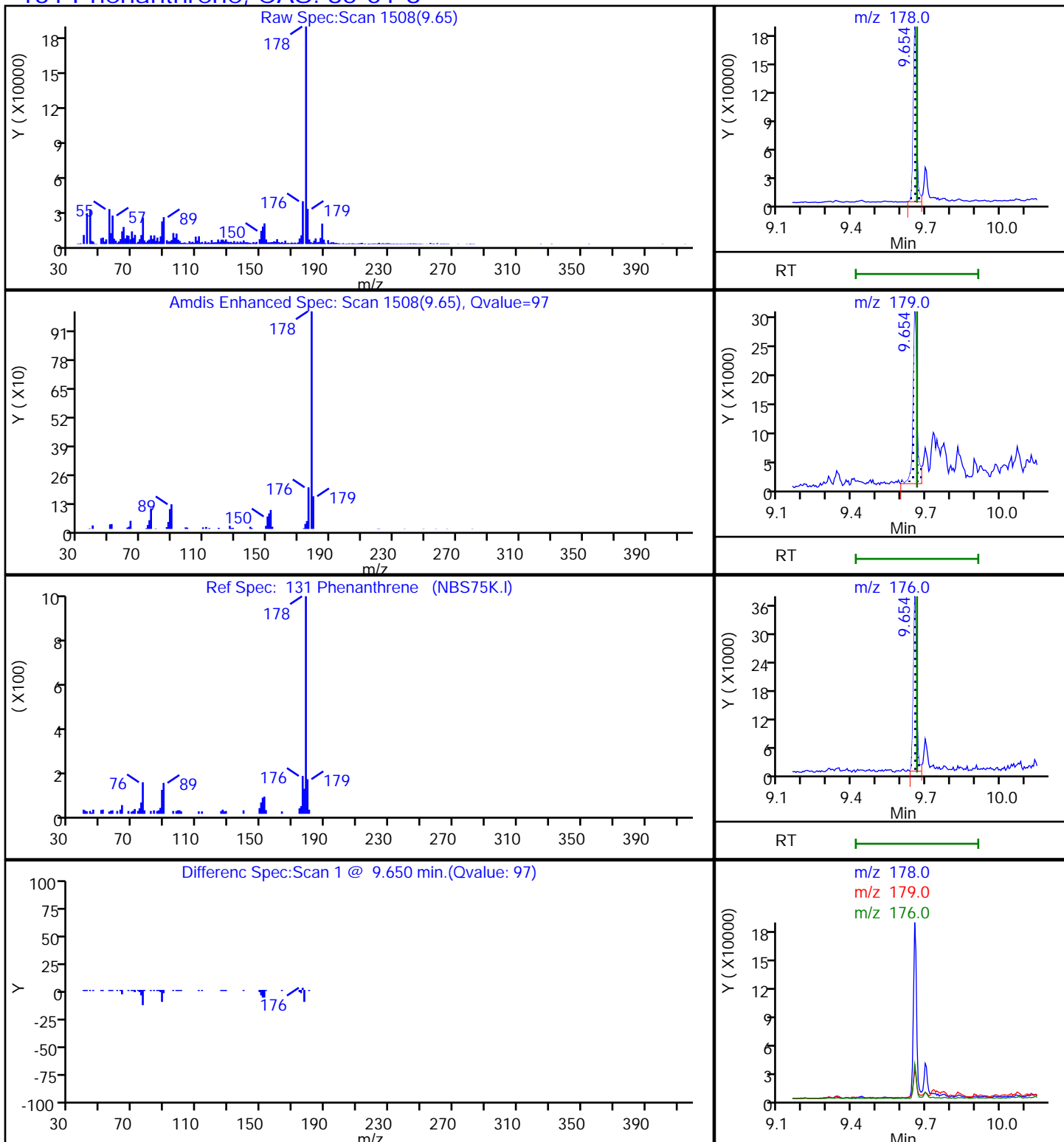
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

131 Phenanthrene, CAS: 85-01-8



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

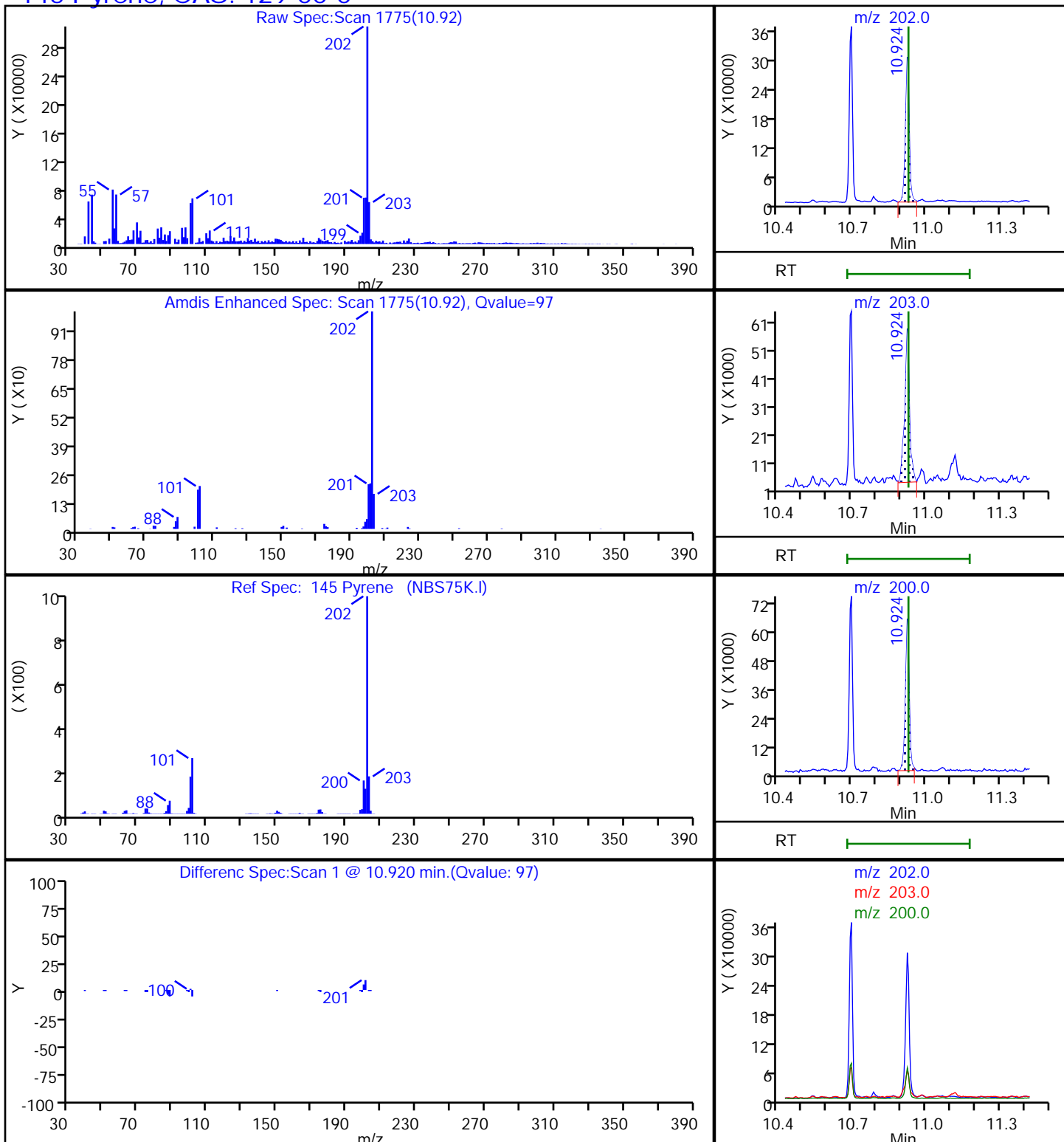
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

145 Pyrene, CAS: 129-00-0



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

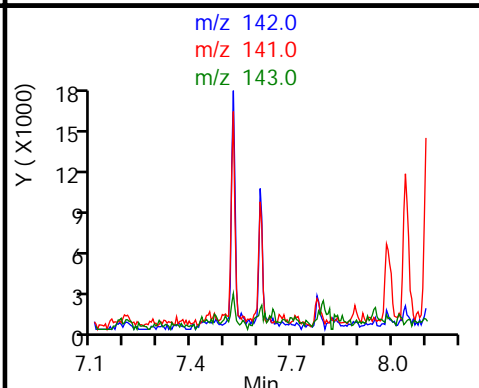
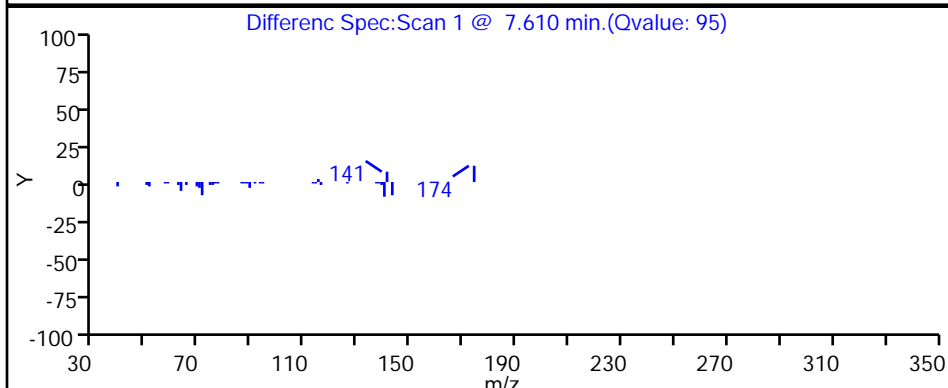
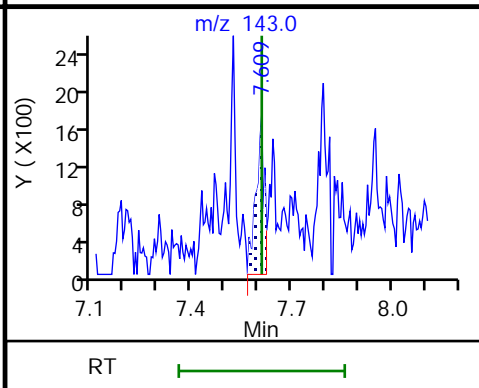
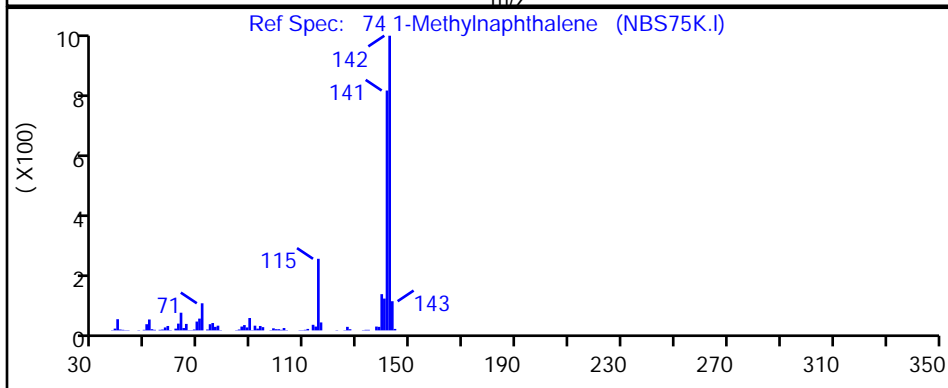
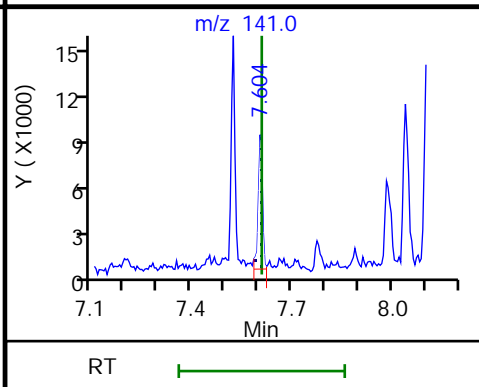
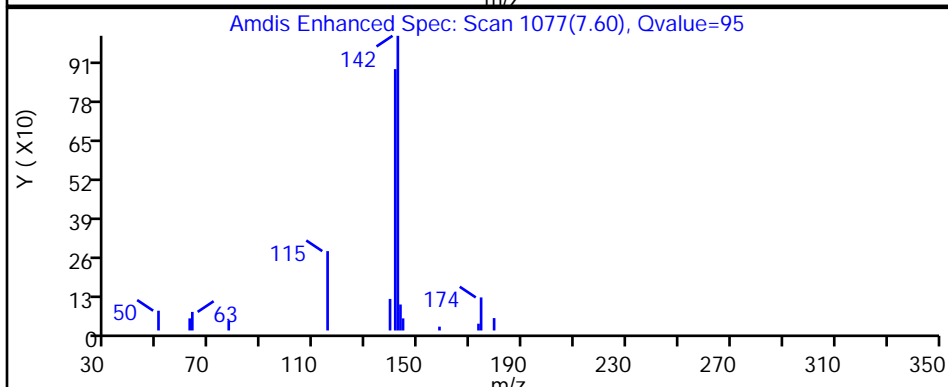
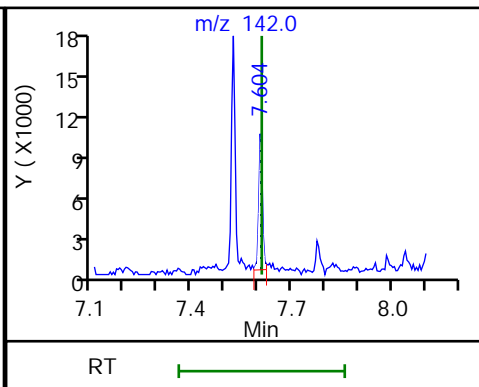
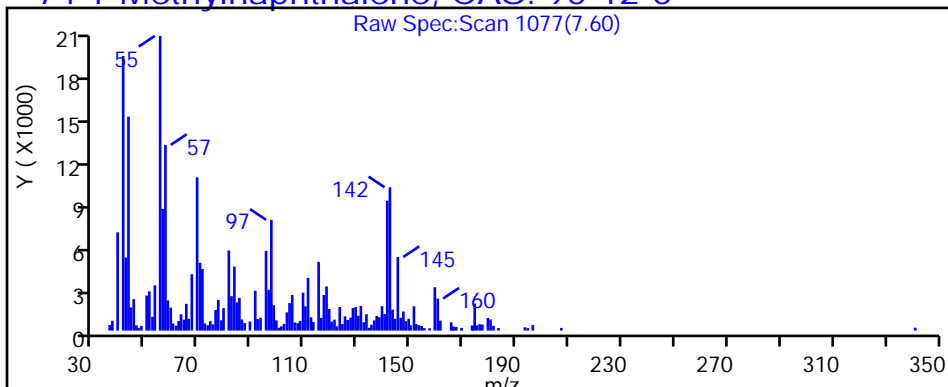
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

74 1-Methylnaphthalene, CAS: 90-12-0



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D

Injection Date: 05-Sep-2018 10:43:30

Instrument ID: CMS11

Lims ID: 500-150867-A-4-A

Lab Sample ID: 500-150867-4

Client ID: Total Solids

Operator ID: AD

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

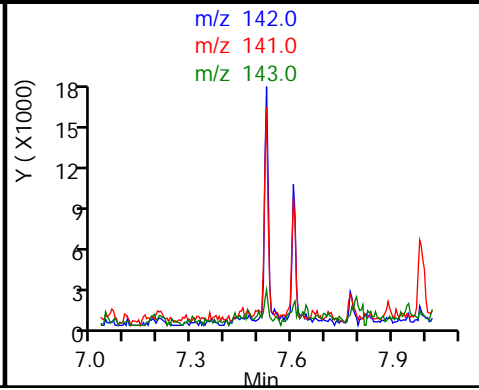
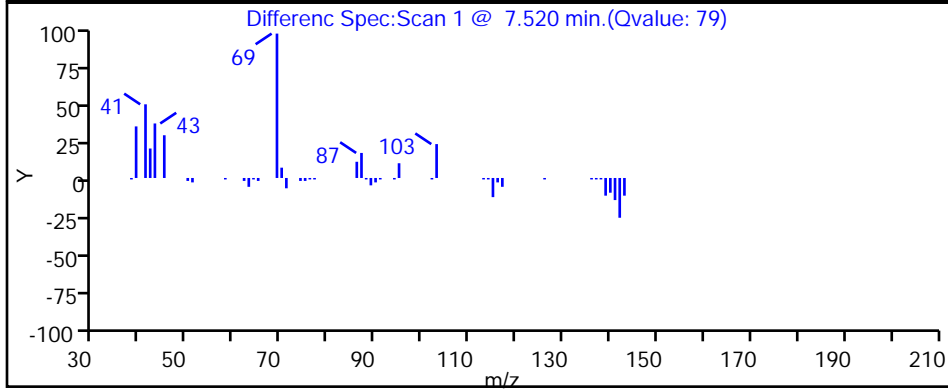
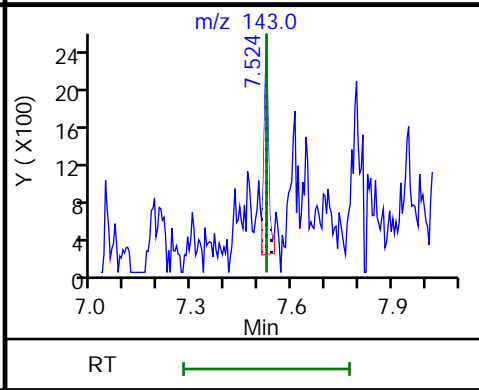
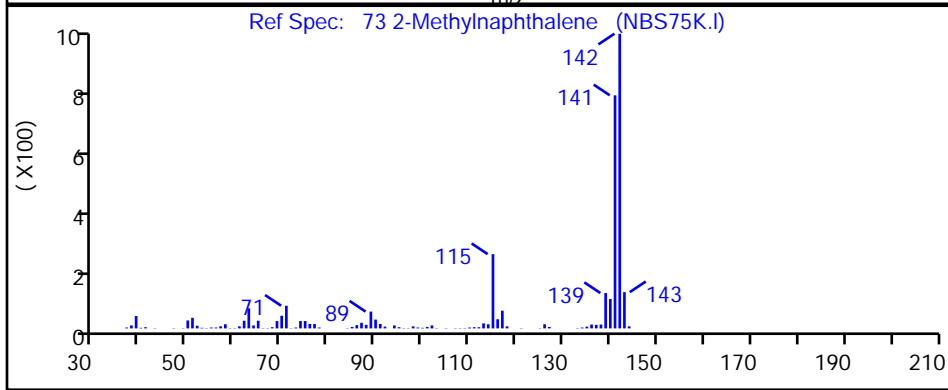
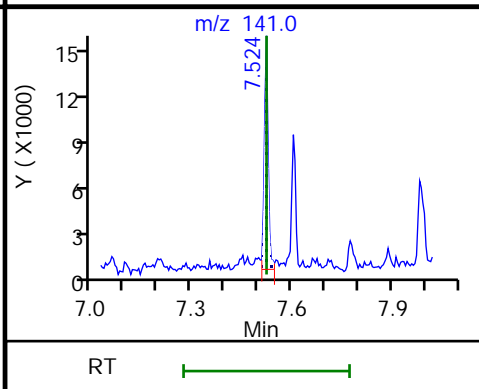
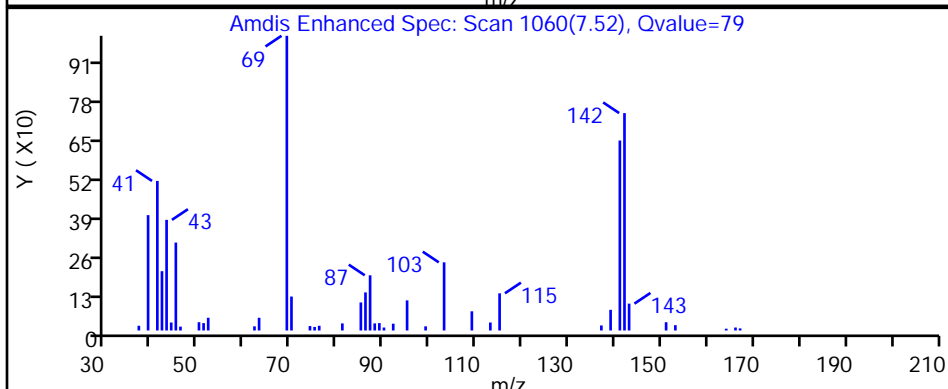
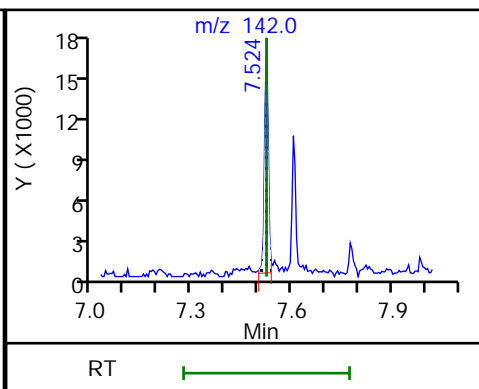
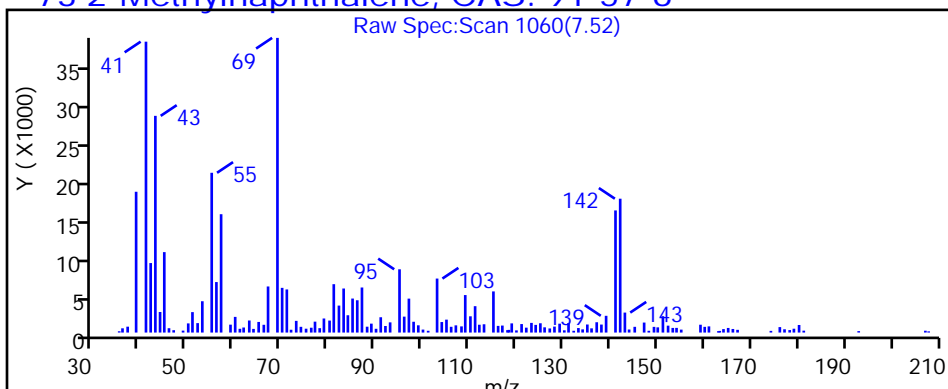
Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

73 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Chicago

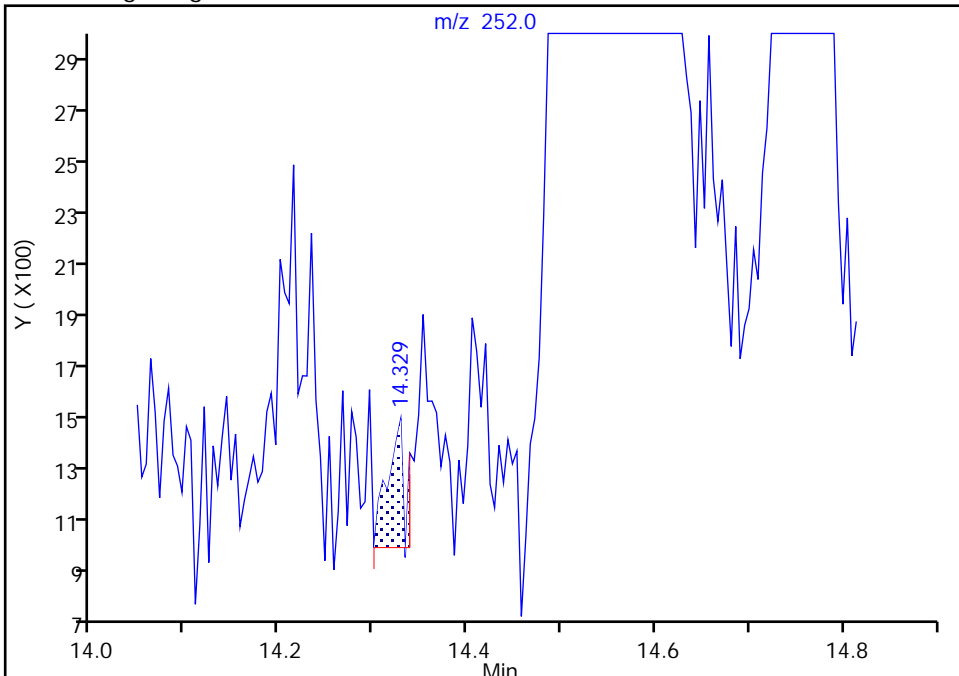
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D
Injection Date: 05-Sep-2018 10:43:30 Instrument ID: CMS11
Lims ID: 500-150867-A-4-A Lab Sample ID: 500-150867-4
Client ID: Total Solids
Operator ID: AD ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

160 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

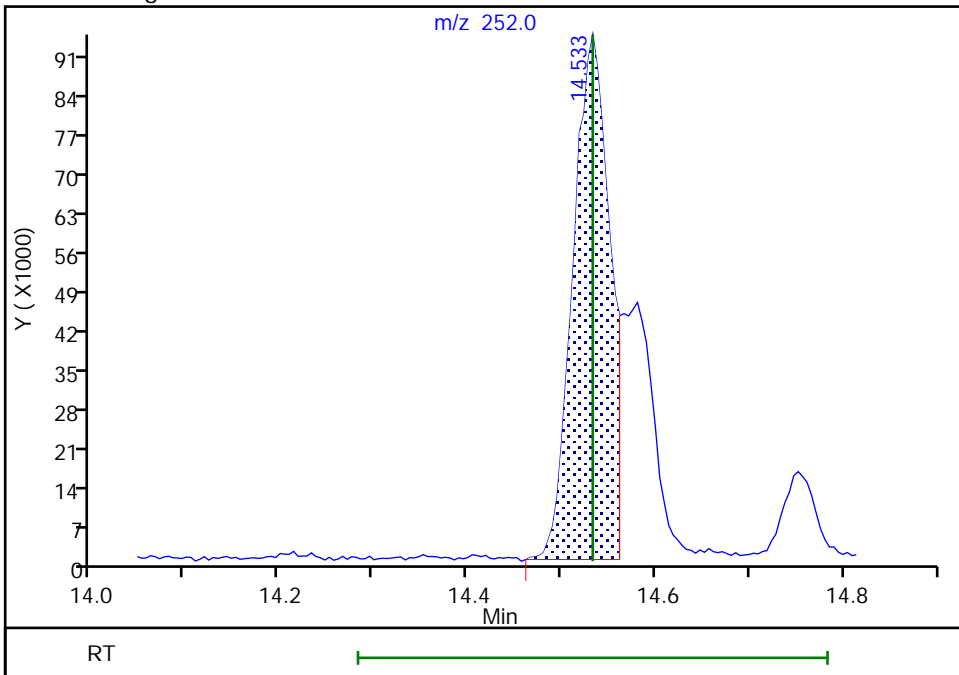
RT: 14.33
Area: 633
Amount: 0.003255
Amount Units: ug/ml

Processing Integration Results



RT: 14.53
Area: 254728
Amount: 1.309665
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 05-Sep-2018 13:29:04
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Chicago

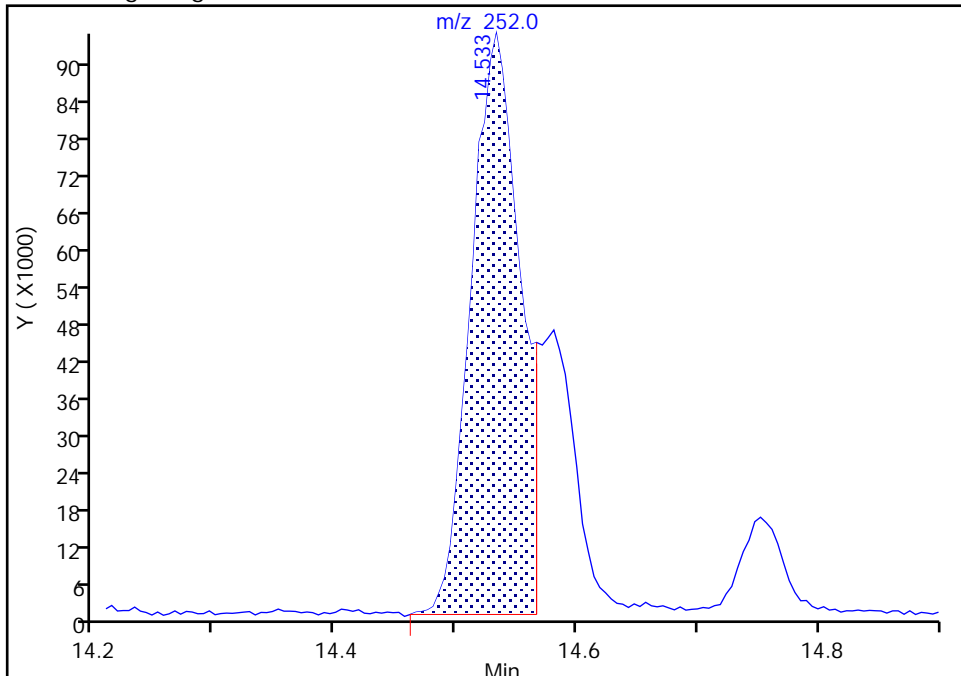
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D
Injection Date: 05-Sep-2018 10:43:30 Instrument ID: CMS11
Lims ID: 500-150867-A-4-A Lab Sample ID: 500-150867-4
Client ID: Total Solids
Operator ID: AD ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

161 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

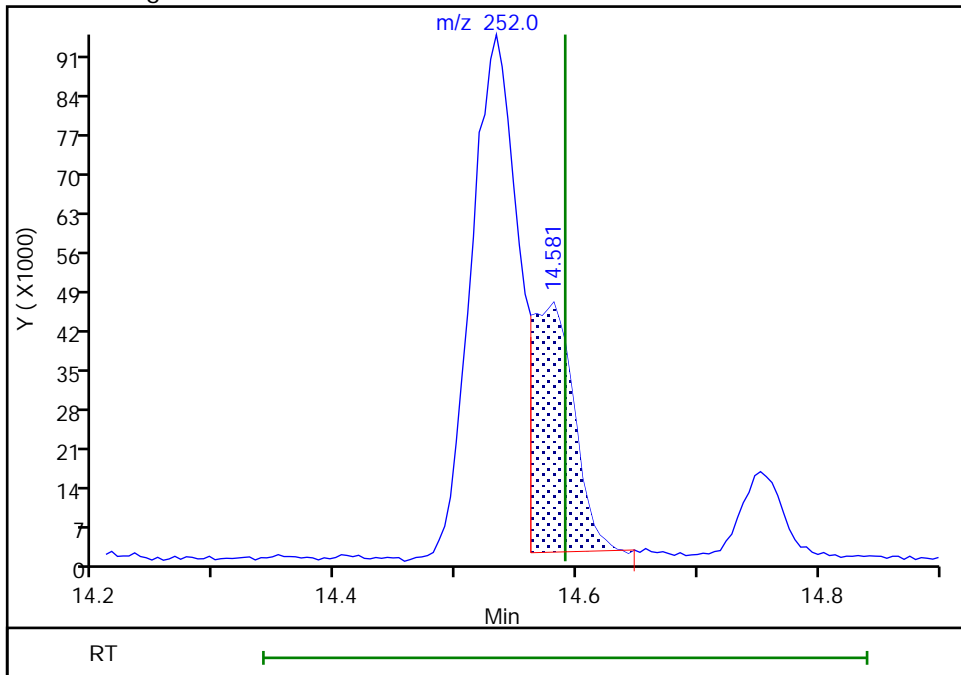
RT: 14.53
Area: 267212
Amount: 1.366819
Amount Units: ug/ml

Processing Integration Results



RT: 14.58
Area: 107271
Amount: 0.548703
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 05-Sep-2018 13:28:58
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

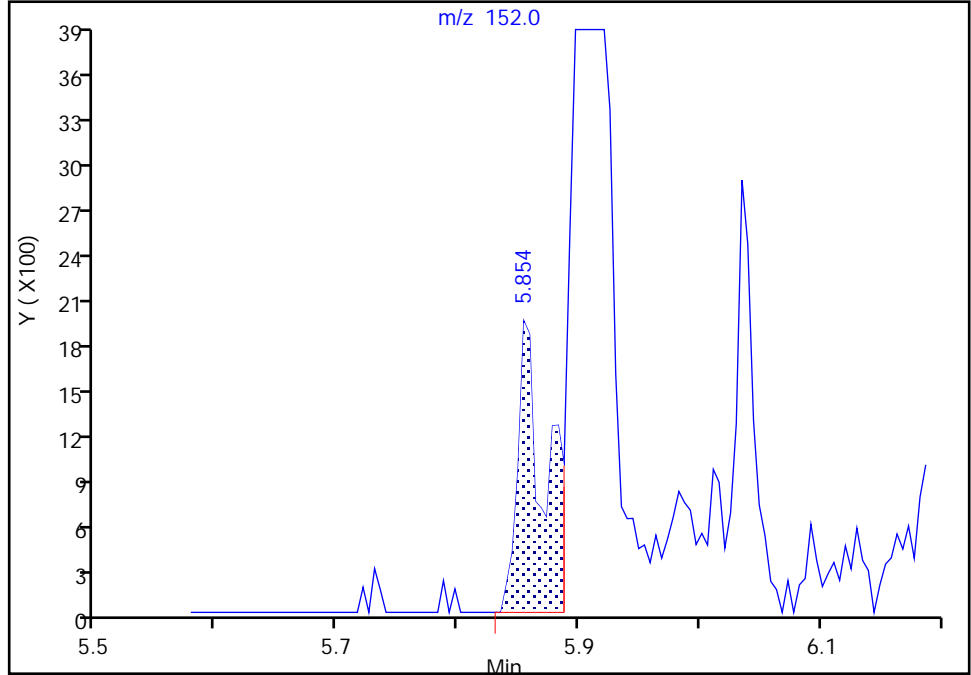
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\500-150867-A-4-A.D
Injection Date: 05-Sep-2018 10:43:30 Instrument ID: CMS11
Lims ID: 500-150867-A-4-A Lab Sample ID: 500-150867-4
Client ID: Total Solids
Operator ID: AD ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

* 1,4-Dichlorobenzene-d₄, CAS: 3855-82-1
Signal: 1

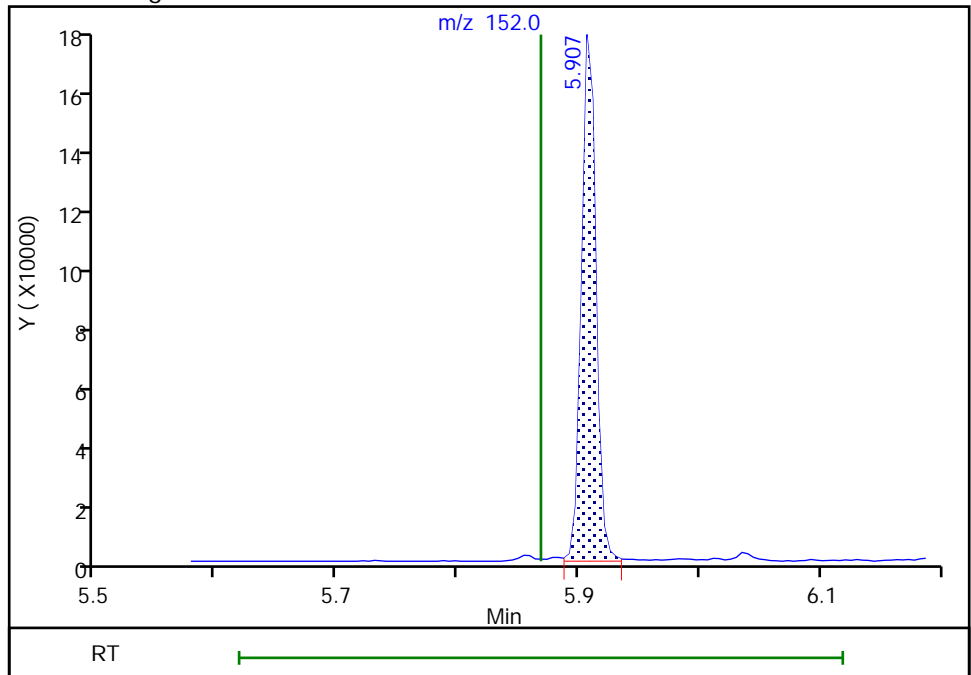
RT: 5.85
Area: 3073
Amount: 3.200000
Amount Units: ug/ml

Processing Integration Results



RT: 5.91
Area: 140693
Amount: 3.200000
Amount Units: ug/ml

Manual Integration Results



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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-446389/3	ic ppm02.D
Level 2	IC 500-446389/4	ic ppm05.D
Level 3	IC 500-446389/5	ic ppm1.D
Level 4	IC 500-446389/2	ic ppm2.D
Level 5	IC 500-446389/6	ic ppm5.D
Level 6	IC 500-446389/7	ic ppm10.D
Level 7	IC 500-446389/8	ic ppm20.D
Level 8	ICIS 500-446389/9	ic ppm40.D
Level 9	IC 500-446389/11	ic ppm60.D
Level 10	IC 500-446389/12	ic ppm70.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 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	0.3264	0.2653	0.3500	0.4251	0.2522 0.4201	Qua2	-0.001	0.2551	0.0124674		0.0100			0.9900		0.9900	
N-Nitrosodimethylamine	0.8205	0.7614	0.8603	0.9070	0.6633 0.8555 0.7908	Ave		0.8084			0.0100	9.9	20.0				
Pyridine	0.8141	0.9561	1.0711	1.1044	0.7899 1.0906	Ave		0.9710			0.0100	14.5	20.0				
Phenol	0.9845	1.1158	1.4146	1.5554	0.8111 1.5778	Lin1	-1.060	1.6018			0.8000			0.9940		0.9900	
Aniline	1.6463	1.5331	1.7396	1.9602	1.5786 1.8763	Ave		1.7223			0.0100	9.8	20.0				
Bis(2-chloroethyl)ether	1.0116	0.9413	1.0224	1.1205	1.0089 1.0817	Ave		1.0338			0.7000	5.6	20.0				
2-Chlorophenol	1.0389	1.1046	1.2615	1.3814	1.0654 1.3926	Ave		1.2074			0.8000	13.2	20.0				
n-Decane	1.5843	1.2514	1.3609	1.6640	1.7159 1.7283 1.7758	Ave		1.5994			0.0100	12.0	20.0				
1,3-Dichlorobenzene	1.4696	1.3771	1.5720	1.4142	1.4063 1.6988 1.6422	Ave		1.5114			0.0100	8.4	20.0				
1,4-Dichlorobenzene	1.4619	1.3844	1.5781	1.4392	1.4542 1.7297	Ave		1.5431			0.0100	9.6	20.0				
Benzyl alcohol	0.1385	0.2533	0.4021	0.5648	++++ 0.5133	Qua2	-0.373	0.2751	0.0220086		0.0100			0.9910		0.9900	
1,2-Dichlorobenzene	1.3659	1.3606	1.4947	1.3157	1.3821 1.6534 1.6125	Ave		1.4550			0.0100	9.2	20.0				
2-Methylphenol	0.8512	0.8332	1.0084	0.6096	0.7780 1.1206	Lin1	-0.286	1.0837			0.7000			0.9930		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
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

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	LVL 9	LVL 10												
2,2'-oxybis[1-chloropropane]	2.2174	1.9884	2.4971	2.2470 2.3702	2.4662 2.4723	Ave		2.3227		0.0100	7.9		20.0				
Indene	1.8722	1.7634	2.0245	2.0522	1.8608 2.0198	Ave		1.9322		0.0100	6.0		20.0				
N-Nitrosodi-n-propylamine	0.6558	0.5508 0.6087	0.5699 0.7287	0.6332 0.7093	0.6976 0.7175	Ave		0.6524		0.5000	10.1		20.0				
Acetophenone	1.5550	1.4215	1.3431 1.7273	1.4498 1.6916	1.4993 1.7016	Ave		1.5487		0.0100	9.3		20.0				
3 & 4 Methylphenol	0.9952	0.8966	1.1533	0.4478 1.1617	0.9808 1.1834	Lin1	-0.310	1.1750		0.6000				0.9950		0.9900	
Hexachloroethane	0.5391	0.4989	0.5974	0.6131	0.5520 0.6309	Ave		0.5719		0.3000	8.8		20.0				
Nitrobenzene	0.2513	0.2445	0.2455 0.2803	0.2388 0.2740	0.2616 0.2728	Ave		0.2586		0.2000	6.1		20.0				
Isophorone	0.4345	0.4373	0.4808	0.4105 0.4873	0.4357 0.4680	Ave		0.4506		0.4000	6.3		20.0				
2-Nitrophenol	0.1647	0.1720	0.1944	0.2015	0.1554 0.1941	Ave		0.1804		0.1000	10.4		20.0				
2,4-Dimethylphenol	0.2013	0.2121	0.2557	0.2743	0.1964 0.2598	Ave		0.2332		0.2000	14.5		20.0				
Bis(2-chloroethoxy)methane	0.3037	0.2997	0.3430	0.2843 0.3366	0.3052 0.3326	Ave		0.3151		0.3000	7.0		20.0				
Benzoic acid	0.1301	0.1299	0.1771	0.1932	0.0546 0.1846	Lin1	-0.308	0.1970		0.0100				0.9950		0.9900	
2,4-Dichlorophenol	0.2370	0.2449	0.2746	0.3073	0.2207 0.2991	Ave		0.2639		0.2000	13.3		20.0				
1,2,4-Trichlorobenzene	0.2782	0.2849	0.3167	0.2508 0.3448	0.2844 0.3368	Ave		0.2995		0.0100	11.4		20.0				
Naphthalene	0.9327	0.9225	0.8943 1.0328	0.8763 1.0455	0.9198 1.0151	Ave		0.9549		0.7000	6.9		20.0				
4-Chloroaniline	0.3908	0.3940	0.4382	0.4467	0.3832 0.4335	Ave		0.4144		0.0100	6.8		20.0				
2,6-Dichlorophenol	0.2351	0.2287	0.2570	0.2838	0.2174 0.2776	Ave		0.2499		0.0100	10.9		20.0				
Hexachlorobutadiene	0.1460	0.1542	0.1667	0.1410 0.1891	0.1438 0.1801	Ave		0.1601		0.0100	11.8		20.0				
4-Chloro-3-methylphenol	0.1436	0.1899	0.2220	0.2495	++++ 0.2337	Lin1	-0.241	0.2573		0.2000				0.9970		0.9900	
2-Methylnaphthalene	0.6452	0.6825 0.6387	0.6374 0.7453	0.5853 0.7330	0.6839 0.6938	Ave		0.6717		0.4000	7.5		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

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	LVL 9	LVL 10												
1-Methylnaphthalene	0.6165	0.5912	0.5874 0.7034	0.5721 0.6572	0.6511 0.6468	Ave		0.6282		0.0100	7.0		20.0				
Hexachlorocyclopentadiene	0.1488	0.1966	0.2903	0.3322	0.0990 0.3559	Qua2	-0.088	0.1697	0.0142217	0.0500				0.9990		0.9900	
1,2,4,5-Tetrachlorobenzene	0.5168	0.5172	0.6026	0.5931	0.5499 0.6386	Ave		0.5697		0.0100	8.7		20.0				
2,4,6-Trichlorophenol	0.2846	0.3019	0.3483	0.3702	0.2866 0.3833	Ave		0.3291		0.2000	13.3		20.0				
2,4,5-Trichlorophenol	0.2239	0.3080	0.3125	0.4250	0.1715 0.4221	Qua2	-0.098	0.2563	0.0128065	0.2000				0.9950		0.9900	
1,1'-Biphenyl	1.4806	1.4569	1.7384	1.5515	1.4785 1.4447	Ave		1.5251		0.0100	7.3		20.0				
2-Chloronaphthalene	1.1642	1.1686	1.3839	1.2819	1.0931 1.1817	Ave		1.2101		0.8000	7.8		20.0				
2-Nitroaniline	0.2974	0.3184	0.3453	0.2842	0.2620 0.2664	Ave		0.2956		0.0100	10.8		20.0				
Dimethyl phthalate	1.1900	1.1592	1.4731	1.3602	1.1598 1.2920	Ave		1.2671		0.0100	9.2		20.0				
m-Dinitrobenzene	0.1849	0.1727	0.2204	0.2284	0.1815 0.2161	Ave		0.2007		0.0100	11.8		20.0				
2,6-Dinitrotoluene	0.3002	0.1954 0.2803	0.2761 0.3095	0.2611 0.3353	0.2871 0.3120	Ave		0.2841		0.2000	14.1		20.0				
Acenaphthylene	1.6425	1.6436	1.5499 1.7721	1.5968 1.7960	1.7079 1.6896	Ave		1.6748		0.9000	5.0		20.0				
3-Nitroaniline	0.3074	0.3103	0.3338	0.3635	0.3069 0.3361	Ave		0.3263		0.0100	6.9		20.0				
Acenaphthene	1.1918	1.1896	1.2013 1.2417	1.1801 1.2916	1.2432 1.1794	Ave		1.2148		0.9000	3.3		20.0				
2,4-Dinitrophenol	0.1148	0.1364	0.1907	0.2135	++++ 0.2112	Lin1	-0.548	0.2298		0.0100				0.9950		0.9900	
4-Nitrophenol	0.1096	0.0956	0.1208	0.1283	++++ 0.1108	Ave		0.1130		0.0100	10.9		20.0				
2,4-Dinitrotoluene	0.3743	0.3585	0.2985 0.4170	0.3296 0.4426	0.3627 0.4103	Ave		0.3742		0.2000	12.7		20.0				
Dibenzofuran	1.5894	1.5419	1.5228 1.6946	1.6969 1.7767	1.6424 1.6424	Ave		1.6378		0.8000	5.6		20.0				
2,3,4,6-Tetrachlorophenol	0.2497	0.2271	0.2965	0.2761	0.2229 0.2780	Ave		0.2584		0.0100	11.6		20.0				
Diethyl phthalate	1.2055	1.2569	1.2057	1.2512	1.1668 1.1879 1.1581	Ave		1.2046		0.0100	3.2		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

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	LVL 9	LVL 10												
Hexadecane	0.7874	0.9932	0.6441	0.6475	0.6912 0.5996	Ave	0.7272			0.0100	20.0		20.0				
4-Chlorophenyl phenyl ether	0.5494	0.5237	0.6044	0.6474	0.5712 0.6033	Ave	0.5833			0.4000	7.6		20.0				
Fluorene	1.2112	1.2936	1.3451 1.3622	1.2049 1.4199	1.3242 1.3313	Ave	1.3116			0.9000	5.6		20.0				
4-Nitroaniline	0.3106	0.3465	0.3598	0.3763	0.3187 0.3529	Ave	0.3441			0.0100	7.3		20.0				
4,6-Dinitro-2-methylphenol	0.1099	0.1064	0.1203	0.1298	0.1015 0.1274	Ave	0.1159			0.0100	10.1		20.0				
N-Nitrosodiphenylamine	0.5211	0.5255	0.5644 0.5240	0.5051 0.5453	0.5445 0.5261	Ave	0.5320			0.0100	3.5		20.0				
Diphenylamine	0.6130	0.6182	0.6164	0.6416	0.6406 0.6189	Ave	0.6248			0.0100	2.0		20.0				
1,2-Diphenylhydrazine	0.8374	1.0447	0.9123	0.9815	0.9266 0.9035	Ave	0.9343			0.0100	7.6		20.0				
4-Bromophenyl phenyl ether	0.2597	0.2491	0.2673	0.2858	0.2663 0.2773	Ave	0.2676			0.1000	4.8		20.0				
Hexachlorobenzene	0.4367	0.4111 0.4274	0.4212 0.4466	0.4512 0.4851	0.4535 0.4574	Ave	0.4434			0.1000	5.0		20.0				
Pentachlorophenol	0.1269	0.1459	0.1822	0.2148	++++ 0.1723	Ave	0.1684			0.0500	20.1	*	20.0				
n-Octadecane	0.2662	0.4259	0.2617	0.2795	0.2673 0.2670	Ave	0.2913			0.0100	20.5	*	20.0				
Phenanthrene	1.0478	1.0476	1.0296 1.0476	1.0531 1.1017	1.0304 1.0376	Ave	1.0494			0.7000	2.2		20.0				
Anthracene	1.0727	1.0816	1.0202 1.0918	1.0880 1.1526	1.0832 1.0838	Ave	1.0843			0.7000	3.3		20.0				
Carbazole	1.0121	1.0107	0.9805	0.9625 1.0177	1.0182 0.9677	Ave	0.9956			0.0100	2.5		20.0				
Di-n-butyl phthalate	1.1506	1.2255	1.1216	1.1985	1.0598 1.1173	Ave	1.1479			0.0100	4.8		20.0				
Fluoranthene	1.1042	1.0545	1.0537 1.0709	1.0199 1.1373	1.1225 1.0849	Ave	1.0810			0.6000	3.6		20.0				
Benzidine	0.4634	0.5183	0.5443	0.5794	0.4541 0.5512	Ave	0.5184			0.0100	9.7		20.0				
Pyrene	0.9140	0.8949	0.8871 0.9132	0.9104 0.9461	0.9549 0.9166	Ave	0.9172			0.6000	2.5		20.0				
Butyl benzyl phthalate	0.4266	0.4077	0.4324	0.4505	0.3860 0.4210	Ave	0.4218			0.0100	4.8		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

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	LVL 9	LVL 10												
3,3'-Dichlorobenzidine	0.4516	0.4473	0.4782	0.5029	0.4461	Ave		0.4676			0.0100	4.9	20.0				
Benzo[a]anthracene	1.2004	0.9663	0.9431	0.8908	0.9475	Ave		0.9636			0.8000	9.2	20.0				
	0.9292	0.8906	0.9476	0.9843	0.9358												
Bis(2-ethylhexyl) phthalate	0.6012	0.5941	0.6177	0.5538	0.6246	Ave		0.6048			0.0100	4.5	20.0				
	0.6012	0.5941	0.6177	0.6391	0.6028												
Chrysene	1.0471	0.9840	0.9493	0.9186	0.9409	Ave		0.9363			0.7000	5.4	20.0				
	0.8958	0.8672	0.9078	0.9433	0.9089												
Di-n-octyl phthalate	1.2093	1.2199	1.2427	1.3355	1.1558	Ave		1.2364			0.0100	4.8	20.0				
	0.9173	0.7647	0.9141	0.9138	0.9564												
Benzo[b]fluoranthene	0.9479	0.9320	0.9877	1.0865	1.0877	Ave		0.9508			0.7000	9.8	20.0				
	0.9575	0.8316	0.9271	0.9176	0.9871												
Benzo[k]fluoranthene	0.9572	0.9434	0.9980	1.0673	0.9699	Ave		0.9557			0.7000	6.4	20.0				
	0.8710	0.8074	0.8360	0.8623	0.9183												
Benzo[a]pyrene	0.9081	0.8804	0.9494	1.0186	0.9732	Ave		0.9025			0.7000	7.2	20.0				
	1.3508	1.2439	1.3089	1.3055	1.3645												
Indeno[1,2,3-cd]pyrene	1.3086	1.1676	1.2664	1.4274	1.4043	Ave		1.3148			0.5000	5.9	20.0				
	1.0835	0.9931	1.0288	1.0499	1.1073												
Dibenz(a,h)anthracene	1.0892	1.0094	1.0713	1.2134	1.1976	Ave		1.0843			0.4000	6.8	20.0				
	1.0633	0.8956	1.1888	1.1184	1.1302												
Benzo[g,h,i]perylene	1.0633	0.8956	1.0469	1.1489	1.1583	Ave		1.0938			0.5000	8.5	20.0				
	0.6882	0.7085	0.8802	1.0742	1.0558												
2-Fluorophenol (Surr)	0.6882	0.7085	++++	0.5889	0.6945	Qua2	-0.016	0.6298	0.0326715		0.0100			0.9980		0.9900	
Phenol-d5 (Surr)	0.9747	1.1127	0.6894	0.6778	0.8127	Lin1		1.2945			0.0100			0.9930		0.9900	
	0.9747	1.1127	1.2050	1.3425	1.3302												
Nitrobenzene-d5 (Surr)	0.2305	0.2330	0.2083	0.2180	0.2345	Ave		0.2383			0.0100	8.6	20.0				
	0.2305	0.2330	0.2563	0.2633	0.2623												
2-Fluorobiphenyl (Surr)	1.1635	1.3256	1.0582	1.1378	1.2534	Ave		1.2603			0.0100	10.3	20.0				
	1.1635	1.3256	1.3671	1.3442	1.4329												
2,4,6-Tribromophenol (Surr)	0.3975	0.4501	0.4289	0.4224	0.4663	Ave		0.4666			0.0100	11.9	20.0				
	0.3975	0.4501	0.4713	0.5513	0.5450												
Terphenyl-d14 (Surr)	0.7658	0.7724	0.7360	0.7585	0.7862	Ave		0.7772			0.0100	3.6	20.0				
	0.7658	0.7724	0.7745	0.8311	0.7936												

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-446389/3	ic ppm02.D
Level 2	IC 500-446389/4	ic ppm05.D
Level 3	IC 500-446389/5	ic ppm1.D
Level 4	IC 500-446389/2	ic ppm2.D
Level 5	IC 500-446389/6	ic ppm5.D
Level 6	IC 500-446389/7	ic ppm10.D
Level 7	IC 500-446389/8	ic ppm20.D
Level 8	ICIS 500-446389/9	ic ppm40.D
Level 9	IC 500-446389/11	ic ppm60.D
Level 10	IC 500-446389/12	ic ppm70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DCBd 4	Qua2	26374	44377	107734	189864	9221 245558	2.00	4.00	8.00	12.0	1.00 14.0
N-Nitrosodimethylamine	DCBd 4	Ave	66306	127352	264812	405140	10285 31275 462179	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Pyridine	DCBd 4	Ave	131582	319814	659420	986546	57749 1274865	4.00	8.00	16.0	24.0	2.00 28.0
Phenol	DCBd 4	Lin1	79559	186620	435428	694738	29652 922147	2.00	4.00	8.00	12.0	1.00 14.0
Aniline	DCBd 4	Ave	133042	256421	535457	875524	57709 1096621	2.00	4.00	8.00	12.0	1.00 14.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	81752	157447	314714	500461	16289 36881 632201	2.00	4.00	8.00	0.400 12.0	1.00 14.0
2-Chlorophenol	DCBd 4	Ave	83956	184752	388308	617019	38949 813906	2.00	4.00	8.00	12.0	1.00 14.0
n-Decane	DCBd 4	Ave	128033	209298	527773	771938	10806 25802 62728 1037856	2.00	4.00	8.00	0.200 0.400 12.0	1.00 14.0
1,3-Dichlorobenzene	DCBd 4	Ave	118763	230326	483885	758780	21929 51408 959779	2.00	4.00	8.00	0.400 12.0	1.00 14.0
1,4-Dichlorobenzene	DCBd 4	Ave	118138	231544	485765	783424	22316 53160 1010918	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Benzyl alcohol	DCBd 4	Qua2	11189	42360	123777	252292	+++++ 300026	2.00	4.00	8.00	12.0	+++++ 14.0
1,2-Dichlorobenzene	DCBd 4	Ave	110383	227572	460086	738486	20401 50526 942446	2.00	4.00	8.00	0.400 12.0	1.00 14.0
2-Methylphenol	DCBd 4	Lin1	68784	139356	310399	485630	9453 28441 654933	2.00	4.00	8.00	0.400 12.0	1.00 14.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	179187	332571	768637	1058677	34843 90157 1444933	2.00	4.00	8.00	0.400 12.0	1.00 14.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Indene	DCBd 4	Ave	302595	589884	1246353	1833256	136052 2361004	4.00	8.00	16.0	24.0	2.00 28.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	52998	101813	224313	316833	25502 419357	2.00	0.100 4.00	0.200 8.00	0.400 12.0	1.00 14.0
Acetophenone	DCBd 4	Ave	125658	237756	10665 531691	22481 755576	54810 994497	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
3 & 4 Methylphenol	DCBd 4	Lin1	80422	149968	354991	518904	6943 35853 691665	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Hexachloroethane	DCBd 4	Ave	43569	83440	183874	273859	20181 368749	2.00	4.00	8.00	12.0	1.00 14.0
Nitrobenzene	NPT	Ave	84675	156467	7637 336846	15295 497017	39552 666964	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Isophorone	NPT	Ave	146418	279851	577760	884096	26291 65883 1144214	2.00	4.00	8.00	0.400 12.0	1.00 14.0
2-Nitrophenol	NPT	Ave	55505	110102	233662	365551	23489 474457	2.00	4.00	8.00	12.0	1.00 14.0
2,4-Dimethylphenol	NPT	Ave	67827	135766	307239	497571	29692 635053	2.00	4.00	8.00	12.0	1.00 14.0
Bis(2-chloroethoxy)methane	NPT	Ave	102366	191813	412209	610742	18210 46152 813181	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Benzoic acid	NPT	Lin1	87679	166238	425573	701050	16511 902588	4.00	8.00	16.0	24.0	2.00 28.0
2,4-Dichlorophenol	NPT	Ave	79878	156749	329925	557443	33367 731218	2.00	4.00	8.00	12.0	1.00 14.0
1,2,4-Trichlorobenzene	NPT	Ave	93753	182302	380598	625611	16059 42993 823344	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Naphthalene	NPT	Ave	314328	590371	27816 1241025	56117 1896731	139063 2481732	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
4-Chloroaniline	NPT	Ave	131704	252156	526540	810382	57938 1059712	2.00	4.00	8.00	12.0	1.00 14.0
2,6-Dichlorophenol	NPT	Ave	79246	146359	308773	514931	32870 678663	2.00	4.00	8.00	12.0	1.00 14.0
Hexachlorobutadiene	NPT	Ave	49206	98680	200315	343111	9028 21746 440302	2.00	4.00	8.00	0.400 12.0	1.00 14.0
4-Chloro-3-methylphenol	NPT	Lin1	48391	121556	266745	452576	571431	2.00	4.00	8.00	12.0	1.00 14.0
2-Methylnaphthalene	NPT	Ave	217456	408734	11264 895626	19828 1329819	37481 1696083	2.00	0.100 4.00	0.200 8.00	0.400 12.0	1.00 14.0
1-Methylnaphthalene	NPT	Ave	207774	378339	18271 845214	36640 1192321	98446 1581325	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Hexachlorocyclopentadiene	ANT	Qua2	25087	60535	173466	282860	7286 411376	2.00	4.00	8.00	12.0	1.00 14.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2,4,5-Tetrachlorobenzene	ANT	Ave	87123	159245	360084	504982	40472 738233	2.00	4.00	8.00	12.0	14.0
2,4,6-Trichlorophenol	ANT	Ave	47974	92942	208113	315205	21094 443051	2.00	4.00	8.00	12.0	14.0
2,4,5-Trichlorophenol	ANT	Qua2	37751	94839	186746	361813	12624 488002	2.00	4.00	8.00	12.0	14.0
1,1'-Biphenyl	ANT	Ave	249609	448557	1038837	1320968	108817 1670077	2.00	4.00	8.00	12.0	14.0
2-Chloronaphthalene	ANT	Ave	196266	359792	826983	1091392	34706 88107 1366093	2.00	4.00	8.00	0.400 12.0	1.00 14.0
2-Nitroaniline	ANT	Ave	50134	98025	206361	241937	19284 307955	2.00	4.00	8.00	12.0	14.0
Dimethyl phthalate	ANT	Ave	200616	356904	880274	1158124	36823 90913 1493568	2.00	4.00	8.00	0.400 12.0	1.00 14.0
m-Dinitrobenzene	ANT	Ave	31167	53180	131720	194467	13357 249866	2.00	4.00	8.00	12.0	14.0
2,6-Dinitrotoluene	ANT	Ave	50607	86308	184942	285500	21132 360711	2.00	0.100 4.00	0.200 8.00	0.400 12.0	1.00 14.0
Acenaphthylene	ANT	Ave	276889	506030	1058969	1529134	24478 50698 125704 1953190	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
3-Nitroaniline	ANT	Ave	51816	95535	199448	309461	22587 388491	2.00	4.00	8.00	12.0	14.0
Acenaphthene	ANT	Ave	200916	366245	742027	1099702	18973 37468 91496 1363389	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
2,4-Dinitrophenol	ANT	Lin1	38690	83970	227913	363626	488318	4.00	8.00	16.0	24.0	28.0
4-Nitrophenol	ANT	Ave	36940	58889	144361	218420	256097	4.00	8.00	16.0	24.0	28.0
2,4-Dinitrotoluene	ANT	Ave	63098	110365	249210	376837	4715 10465 26698 474275	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Dibenzofuran	ANT	Ave	267941	474715	1012635	1512735	48348 124894 1898640	2.00	4.00	8.00	0.400 12.0	1.00 14.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	42096	69912	177172	235116	16406 321332	2.00	4.00	8.00	12.0	14.0
Diethyl phthalate	ANT	Ave	203233	386978	720481	1065240	37046 87427 1338744	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Hexadecane	ANT	Ave	132740	305787	384876	551279	50875 693137	2.00	4.00	8.00	12.0	14.0
4-Chlorophenyl phenyl ether	ANT	Ave	92626	161239	361197	551190	42038 697481	2.00	4.00	8.00	12.0	14.0
Fluorene	ANT	Ave	204192	398282	814017	1208879	21244 38255 97458 1539059	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
4-Nitroaniline	ANT	Ave	52366	106679	214987	320421	23457 407932	2.00	4.00	8.00	12.0	1.00 14.0
4,6-Dinitro-2-methylphenol	PHN	Ave	61355	114789	271486	411361	25968 537548	4.00	8.00	16.0	24.0	2.00 28.0
N-Nitrosodiphenylamine	PHN	Ave	145423	283601	15051 591337	27536 863934	69641 1109515	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Diphenylamine	PHN	Ave	145423	283601	591337	863934	69641 1109515	1.70	3.40	6.80	10.2	0.850 11.9
1,2-Diphenylhydrazine	ANT	Ave	141171	321653	545181	835635	68194 1044499	2.00	4.00	8.00	12.0	1.00 14.0
4-Bromophenyl phenyl ether	PHN	Ave	72476	134443	301616	452757	34064 584747	2.00	4.00	8.00	12.0	1.00 14.0
Hexachlorobenzene	PHN	Ave	121885	6188 230652	11232 504010	24600 768517	58000 964560	2.00	0.100 4.00	0.200 8.00	0.400 12.0	1.00 14.0
Pentachlorophenol	PHN	Ave	70822	157527	411187	680551	+++++ 726807	4.00	8.00	16.0	24.0	+++++ 28.0
n-Octadecane	PHN	Ave	74299	229853	295386	442793	14573 34700 563163	2.00	4.00	8.00	0.400 12.0	1.00 14.0
Phenanthrene	PHN	Ave	292434	565331	27457 1182281	57414 1745336	131782 2188277	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Anthracene	PHN	Ave	299398	583725	27207 1232196	59317 1826051	138540 2285745	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Carbazole	PHN	Ave	282480	545465	1106570	52476 1612282	130227 2040882	2.00	4.00	8.00	12.0	0.400 14.0
Di-n-butyl phthalate	PHN	Ave	321125	661387	1265815	1898691	57779 148583 2356381	2.00	4.00	8.00	12.0	0.400 14.0
Fluoranthene	PHN	Ave	308180	569101	28098 1208549	55605 1801692	143567 2287969	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Benzidine	CRY	Ave	158775	345902	730880	1131748	70246 1423173	2.00	4.00	8.00	12.0	1.00 14.0
Pyrene	CRY	Ave	313167	597227	28433 1226236	59321 1848116	147718 2366852	2.00	4.00	0.200 8.00	0.400 12.0	1.00 14.0
Butyl benzyl phthalate	CRY	Ave	146164	272093	580588	880091	25153 66297 1087031	2.00	4.00	8.00	12.0	0.400 14.0
3,3'-Dichlorobenzidine	CRY	Ave	154737	298484	642058	982393	69014 1238413	2.00	4.00	8.00	12.0	1.00 14.0
Benzo[a]anthracene	CRY	Ave	7445 318389	15947 594332	30227 1272366	58043 1922663	146571 2416280	0.0400 2.00	0.100 4.00	0.200 8.00	0.400 12.0	1.00 14.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	206003	396495	829452	1248325	36081 96615 1556508	2.00	4.00	8.00	12.0	0.400 14.0
Chrysene	CRY	Ave	6494 306913	16239 578716	30425 1218981	59852 1842617	145545 2346969	0.0400 2.00	0.100 4.00	0.200 8.00	0.400 12.0	1.00 14.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Di-n-octyl phthalate	PHN	Ave	337509	658351	1402509	2115726	147825 2646900	2.00	4.00	8.00	12.0	14.0
Benzo[b]fluoranthene	PRY	Ave	7615	16625	38340	77854	193258	0.0400	0.100	0.200	0.400	1.00
			421691	795039	1647827	2485150	3230689	2.00	4.00	8.00	12.0	14.0
Benzo[k]fluoranthene	PRY	Ave	7949	18080	38889	78178	199464	0.0400	0.100	0.200	0.400	1.00
			425851	804777	1665028	2441434	2880768	2.00	4.00	8.00	12.0	14.0
Benzo[a]pyrene	PRY	Ave	7231	17553	35064	73468	185559	0.0400	0.100	0.200	0.400	1.00
			403993	751040	1583935	2329988	2890519	2.00	4.00	8.00	12.0	14.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	11214	27043	54900	111229	275729	0.0400	0.100	0.200	0.400	1.00
			582155	995961	2112863	3264977	4171010	2.00	4.00	8.00	12.0	14.0
Dibenz(a,h)anthracene	PRY	Ave	8995	21590	43154	89449	223759	0.0400	0.100	0.200	0.400	1.00
			484543	861033	1787317	2775482	3557030	2.00	4.00	8.00	12.0	14.0
Benzo[g,h,i]perylene	PRY	Ave			49863	95289	228388			0.200	0.400	1.00
			473050	764009	1746650	2628077	3440398	2.00	4.00	8.00	12.0	14.0
2-Fluorophenol (Surr)	DCBd 4	Qua2			+++++	9132	25389			+++++	0.400	1.00
			55615	118497	270946	479823	617074	2.00	4.00	8.00	12.0	14.0
Phenol-d5 (Surr)	DCBd 4	Lin1			5474	10510	29709			0.200	0.400	1.00
			78770	186111	370911	599626	777441	2.00	4.00	8.00	12.0	14.0
Nitrobenzene-d5 (Surr)	NPT	Ave			6479	13964	35457			0.200	0.400	1.00
			77676	149084	307955	477620	641370	2.00	4.00	8.00	12.0	14.0
2-Fluorobiphenyl (Surr)	ANT	Ave			16713	36124	92253			0.200	0.400	1.00
			196141	408125	816910	1144481	1656481	2.00	4.00	8.00	12.0	14.0
2,4,6-Tribromophenol (Surr)	ANT	Ave			6773	13412	34322			0.200	0.400	1.00
			67017	138571	281609	469351	630082	2.00	4.00	8.00	12.0	14.0
Terphenyl-d14 (Surr)	CRY	Ave			23588	49421	121624			0.200	0.400	1.00
			262383	515456	1039926	1623492	2049064	2.00	4.00	8.00	12.0	14.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-446389/3	ic ppm02.D
Level 2	IC 500-446389/4	ic ppm05.D
Level 3	IC 500-446389/5	ic ppm1.D
Level 4	IC 500-446389/2	ic ppm2.D
Level 5	IC 500-446389/6	ic ppm5.D
Level 6	IC 500-446389/7	ic ppm10.D
Level 7	IC 500-446389/8	ic ppm20.D
Level 8	ICIS 500-446389/9	ic ppm40.D
Level 9	IC 500-446389/11	ic ppm60.D
Level 10	IC 500-446389/12	ic ppm70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
1,4-Dioxane	-11.3	-1.0	3.7	-1.6	-5.0	15.2	30	30	30	30	50	30
N-Nitrosodimethylamine	-5.8	6.4	12.2	-18.0 -2.2	5.8	1.5	30	30	30	50 30	30	30
Pyridine	-1.5	10.3	13.7	12.3	-18.7	-16.2	30	30	30	30	50	30
Phenol	-13.8	-3.4	2.6	3.2	16.8	-5.4	30	30	30	30	50	30
Aniline	-11.0	1.0	13.8	8.9	-8.3	-4.4	30	30	30	30	50	30
Bis(2-chloroethyl)ether	-8.9	-1.1	8.4	1.6 4.6	-2.4	-2.1	30	30	30	50 30	30	30
2-Chlorophenol	-8.5	4.5	14.4	15.3	-11.8	-14.0	30	30	30	30	50	30
n-Decane	-21.8	7.2	-14.9 8.1	4.0 11.0	7.3	-0.9	30	30	50 30	30	30	30
1,3-Dichlorobenzene	-8.9	4.0	12.4	-6.4 8.6	-7.0	-2.8	30	30	30	50 30	30	30
1,4-Dichlorobenzene	-10.3	2.3	13.7	-6.7 12.1	-5.8	-5.3	30	30	30	50 30	30	30
Benzyl alcohol	-3.7	-0.4	6.9	-4.9	+++++	1.6	30	30	30	30		50
1,2-Dichlorobenzene	-6.5	2.7	13.6	-9.6 10.8	-5.0	-6.1	30	30	30	50 30	30	30
2-Methylphenol	-16.5	-3.6	2.5	22.3 5.3	-1.8	-8.2	30	30	30	50 30	30	30
2,2'-oxybis[1-chloropropane]	-14.4	7.5	2.0	-3.3 6.4	6.2	-4.5	30	30	30	50 30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389
 SDG No.: _____
 Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Indene	-8.7	4.8	6.2	4.5	-3.7	-3.1	30	30	30	30	50	30
N-Nitrosodi-n-propylamine	-6.7	-15.6	-12.7	-2.9	6.9	0.5	30	50	30	30	30	30
Acetophenone	-8.2	11.7	8.7	10.0	-13.3	-6.4	30	30	50	30	30	30
3 & 4 Methylphenol	-8.2	11.5	9.2	9.9	-3.2	0.4	30	30	30	30	30	30
Hexachloroethane	-17.1	4.2	9.9	-2.1	4.2	9.9	30	30	30	50	30	30
Nitrobenzene	-12.8	1.5	1.1	2.6	-3.5	-5.7	30	30	30	30	50	30
Isophorone	-5.5	8.4	5.9	5.5	1.2	-2.8	30	30	50	30	30	30
2-Nitrophenol	-3.0	6.7	8.1	3.9	-8.9	-3.3	30	30	30	50	30	30
2,4-Dimethylphenol	-4.6	7.8	11.7	7.6	-13.9	-8.7	30	30	30	30	50	30
Bis(2-chloroethoxy)methane	-9.0	9.6	17.6	11.4	-15.8	-13.7	30	30	30	30	50	30
Benzoic acid	-4.9	8.9	6.9	5.6	-3.1	-3.6	30	30	30	30	30	30
2,4-Dichlorophenol	-14.5	-0.4	4.6	-0.7	5.9	5.1	30	30	30	30	50	30
1,2,4-Trichlorobenzene	-7.2	4.0	16.4	13.3	-16.4	-10.2	30	30	30	30	50	30
Naphthalene	-4.9	5.8	15.1	12.4	-5.1	-7.1	30	30	30	30	30	30
4-Chloroaniline	-3.4	8.2	-6.3	-8.2	-3.7	-2.3	30	30	50	30	30	30
2,6-Dichlorophenol	-4.9	5.7	7.8	4.6	-7.5	-5.7	30	30	30	30	50	30
Hexachlorobutadiene	-4.9	5.7	7.8	4.6	-13.0	-5.9	30	30	30	30	50	30
4-Chloro-3-methylphenol	-8.5	2.8	13.6	11.1	-10.2	-8.8	30	30	30	30	30	30
2-Methylnaphthalene	-3.7	4.1	18.1	12.5	-12.0	-10.2	30	30	30	30	50	30
1-Methylnaphthalene	-2.8	-2.0	4.7	-2.5	+++++	2.6	30	30	30	30		50
Hexachlorocyclopentadiene	-2.8	-2.0	4.7	-2.5	1.8	-3.9	30	50	30	30	30	30
	-4.9	11.0	9.1	3.3	3.6	-1.9	30	30	30	30	30	30
	-5.9	12.0	-6.5	-8.9	3.6	-1.9	30	30	50	30	30	30
	-2.8	4.4	4.6	3.0	1.5	-2.4	30	30	30	30	50	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
1,2,4,5-Tetrachlorobenzene	-9.2	5.8	4.1	12.1	-3.5	-9.3	30	30	30	30	50	30
2,4,6-Trichlorophenol	-8.3	5.8	12.5	16.4	-12.9	-13.5	30	30	30	30	50	30
2,4,5-Trichlorophenol	6.9	-7.5	4.1	-1.1	0.3	-2.9	30	30	30	30	50	30
1,1'-Biphenyl	-4.5	14.0	1.7	-5.3	-3.1	-2.9	30	30	30	30	50	30
2-Chloronaphthalene	-3.4	14.4	5.9	-9.7	-1.1	-3.8	30	30	30	50	30	30
2-Nitroaniline	7.7	16.8	-3.9	-9.9	-11.4	0.6	30	30	30	30	50	30
Dimethyl phthalate	-8.5	16.3	7.4	-8.5	-2.5	-6.1	30	30	30	50	30	30
m-Dinitrobenzene	-13.9	9.8	13.8	7.7	-9.6	-7.9	30	30	30	30	50	30
2,6-Dinitrotoluene	-1.3	-31.2	-2.8	-8.1	1.1	5.7	30	50	30	30	30	30
Acenaphthylene	-1.9	8.9	18.0	9.8	-7.5	-4.7	30	30	50	30	30	30
3-Nitroaniline	-1.9	5.8	7.2	0.9	2.0	-1.9	30	30	30	30	50	30
Acenaphthene	-4.9	2.3	11.4	3.0	-6.0	-5.8	30	30	30	30	50	30
2,4-Dinitrophenol	-2.1	2.2	-1.1	-2.9	2.3	-1.9	30	30	50	30	30	30
4-Nitrophenol	-2.1	2.2	6.3	-2.9	+++++	9.6	30	30	30	30		50
2,4-Dinitrotoluene	-10.8	-2.1	2.9	0.4	+++++	-3.0	30	30	30	30		50
Dibenzofuran	-15.4	6.9	13.5	-2.0	-3.1	0.0	30	30	50	30	30	30
2,3,4,6-Tetrachlorophenol	-4.2	11.4	-20.2	-11.9	-3.1	0.0	30	30	30	30	50	30
Diethyl phthalate	-5.9	3.5	8.5	0.3	3.6	-3.0	30	30	30	30	50	30
Hexadecane	-12.1	14.7	6.9	7.6	-13.7	-3.4	30	30	30	30	50	30
4-Chlorophenyl phenyl ether	4.3	0.1	3.9	-3.1	-1.4	0.1	30	30	30	50	30	30
Fluorene	36.6 *	-11.4	-11.0	-17.5	-4.9	8.3	30	30	30	30	50	30
	-10.2	3.6	11.0	3.4	-2.1	-5.8	30	30	30	30	50	30
	-1.4	3.9	2.6	-8.1	1.0	-7.6	30	30	50	30	30	30
			8.3	1.5					30	30		

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389

SDG No.: _____

Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
4-Nitroaniline	0.7	4.5	9.4	2.5	-7.4	-9.7	30	30	30	30	50	30
4,6-Dinitro-2-methylphenol	-8.2	3.8	12.0	10.0	-12.4	-5.2	30	30	30	30	50	30
N-Nitrosodiphenylamine	-1.2	-1.5	6.1	-5.1	2.4	-2.1	30	30	50	30	30	30
Diphenylamine	-1.0	-1.3	2.7	-0.9	2.5	-1.9	30	30	30	30	50	30
1,2-Diphenylhydrazine	11.8	-2.4	5.0	-3.3	-0.8	-10.4	30	30	30	30	50	30
4-Bromophenyl phenyl ether	-6.9	-0.1	6.8	3.6	-0.5	-3.0	30	30	30	30	50	30
Hexachlorobenzene	-3.6	-7.3	-5.0	1.8	2.3	-1.5	30	50	30	30	30	30
Pentachlorophenol	-13.3	8.2	27.5	2.3	+++++	-24.7	30	30	30	30		50
n-Octadecane	46.2 *	-10.1	-4.0	-8.2	-6.9	-8.6	30	30	30	30	50	30
Phenanthrene	-0.2	-0.2	-1.9	0.4	-1.8	-0.2	30	30	50	30	30	30
Anthracene	-0.2	0.7	-5.9	0.3	-0.1	-1.1	30	30	50	30	30	30
Carbazole	1.5	-1.5	2.2	-3.3	2.3	1.7	30	30	30	30	50	30
Di-n-butyl phthalate	6.8	-2.3	4.4	-7.7	1.2	0.2	30	30	30	30	50	30
Fluoranthene	-2.4	-0.9	-2.5	-2.7	3.8	2.1	30	30	50	30	30	30
Benzidine	0.0	5.0	5.2	0.4	-12.4	-10.6	30	30	30	30	50	30
Pyrene	-2.4	-0.4	-3.3	-0.7	4.1	-0.3	30	30	50	30	30	30
Butyl benzyl phthalate	-3.3	2.5	3.2	-0.1	1.6	1.1	30	30	30	30	50	30
3,3'-Dichlorobenzidine	-4.4	2.3	6.8	-0.2	-4.6	-3.4	30	30	30	30	50	30
Benzo[a]anthracene	24.6	0.3	-2.1	-7.5	-1.7	-3.6	50	30	30	30	30	30
Bis(2-ethylhexyl) phthalate	-7.6	-1.7	2.2	-2.9	3.3	-0.6	30	30	30	30	50	30
Chrysene	-1.8	2.1	5.7	-0.3	0.5	-4.3	30	30	30	30	30	30
	-7.4	-3.0	0.7	-2.9			30	30	30	30		

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446389
 SDG No.: _____
 Instrument ID: CMS11 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/21/2018 15:07 Calibration End Date: 08/21/2018 20:00 Calibration ID: 29840

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Di-n-octyl phthalate					-6.5	-2.2					50	30
	-1.3	0.5	8.0	1.5			30	30	30	30		
Benzo[b]fluoranthene	-3.5	-19.6	-3.9	-3.9	0.6	-0.3	50	30	30	30	30	30
	-2.0	3.9	14.3	14.4			30	30	30	30		
Benzo[k]fluoranthene	0.2	-13.0	-3.0	-4.0	3.3	0.2	50	30	30	30	30	30
	-1.3	4.4	11.7	1.5			30	30	30	30		
Benzo[a]pyrene	-3.5	-10.5	-7.4	-4.5	1.8	0.6	50	30	30	30	30	30
	-2.4	5.2	12.9	7.8			30	30	30	30		
Indeno[1,2,3-cd]pyrene	2.7	-5.4	-0.5	-0.7	3.8	-0.5	50	30	30	30	30	30
	-11.2	-3.7	8.6	6.8			30	30	30	30		
Dibenz(a,h)anthracene	-0.1	-8.4	-5.1	-3.2	2.1	0.4	50	30	30	30	30	30
	-6.9	-1.2	11.9	10.4			30	30	30	30		
Benzo[g,h,i]perylene			8.7	2.2	3.3	-2.8			50	30	30	30
	-18.1	-4.3	5.0	5.9			30	30	30	30		
2-Fluorophenol (Surr)			+++++	-2.3	6.8	0.1					50	30
	-5.4	-0.8	3.8	-2.0			30	30	30	30		
Phenol-d5 (Surr)			42.9	-2.8	-19.3	-15.7			50	30	30	30
	-9.6	-4.7	5.2	4.0			30	30	30	30		
Nitrobenzene-d5 (Surr)			-12.6	-8.5	-1.6	-3.3			50	30	30	30
	-2.2	7.6	10.5	10.1			30	30	30	30		
2-Fluorobiphenyl (Surr)			-16.0	-9.7	-0.5	-7.7			50	30	30	30
	5.2	8.5	6.7	13.7			30	30	30	30		
2,4,6-Tribromophenol (Surr)			-8.1	-9.5	-0.1	-14.8			50	30	30	30
	-3.5	1.0	18.1	16.8			30	30	30	30		
Terphenyl-d14 (Surr)			-5.3	-2.4	1.2	-1.5			50	30	30	30
	-0.6	-0.4	6.9	2.1			30	30	30	30		

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm2.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 21-Aug-2018 15:07:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-002
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59

Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:30:39 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg Date: 21-Aug-2018 18:32:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	94	124050	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	512334	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	96	253999	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	97	436156	3.20	3.20	
* 5 Chrysene-d12	240	12.846	12.846	0.000	99	521252	3.20	3.20	
* 6 Perylene-d12	264	16.046	16.046	0.000	98	681609	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.999	4.999	0.000	93	9132	0.4000	0.3909	
\$ 8 Phenol-d5	99	5.755	5.755	0.000	88	10510	0.4000	0.3887	
\$ 9 Nitrobenzene-d5	82	6.516	6.516	0.000	91	13964	0.4000	0.3660	
\$ 10 2-Fluorobiphenyl	172	8.004	8.004	0.000	98	36124	0.4000	0.3611	
\$ 11 2,4,6-Tribromophenol	330	9.255	9.255	0.000	59	13412	0.4000	0.3621	
\$ 12 Terphenyl-d14	244	11.324	11.324	0.000	96	49421	0.4000	0.3903	
16 N-Nitrosodimethylamine	42	3.677	3.677	0.000	71	10285	0.4000	0.3282	
30 Bis(2-chloroethyl)ether	93	5.826	5.826	0.000	86	16289	0.4000	0.4064	
33 n-Decane	43	5.922	5.922	0.000	89	25802	0.4000	0.4162	
34 1,3-Dichlorobenzene	146	6.021	6.021	0.000	97	21929	0.4000	0.3743	
35 1,4-Dichlorobenzene	146	6.078	6.078	0.000	91	22316	0.4000	0.3731	
39 1,2-Dichlorobenzene	146	6.207	6.207	0.000	95	20401	0.4000	0.3617	
40 2-Methylphenol	107	6.259	6.259	0.000	80	9453	0.4000	0.4894	a
41 2,2'-oxybis[1-chloropropan	45	6.273	6.273	0.000	91	34843	0.4000	0.3870	a
44 N-Nitrosodi-n-propylamine	70	6.378	6.378	0.000	77	9818	0.4000	0.3882	
43 3 & 4 Methylphenol	108	6.388	6.388	0.000	49	6943	0.4000	0.4166	
45 Acetophenone	105	6.383	6.383	0.000	91	22481	0.4000	0.3745	
49 Nitrobenzene	77	6.530	6.530	0.000	89	15295	0.4000	0.3694	
52 Isophorone	82	6.725	6.725	0.000	98	26291	0.4000	0.3644	
57 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	86	18210	0.4000	0.3610	
61 1,2,4-Trichlorobenzene	180	7.072	7.072	0.000	95	16059	0.4000	0.3349	
62 Naphthalene	128	7.134	7.134	0.000	98	56117	0.4000	0.3671	
65 Hexachlorobutadiene	225	7.239	7.239	0.000	92	9028	0.4000	0.3521	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
73 2-Methylnaphthalene	142	7.710	7.710	0.000	95	37481	0.4000	0.3485	
74 1-Methylnaphthalene	142	7.795	7.795	0.000	95	36640	0.4000	0.3643	
83 2-Chloronaphthalene	162	8.123	8.123	0.000	95	34706	0.4000	0.3613	
88 Dimethyl phthalate	163	8.333	8.333	0.000	97	36823	0.4000	0.3661	
90 2,6-Dinitrotoluene	165	8.390	8.390	0.000	90	8289	0.4000	0.3675	
92 Acenaphthylene	152	8.471	8.471	0.000	98	50698	0.4000	0.3814	
98 Acenaphthene	153	8.618	8.618	0.000	91	37468	0.4000	0.3886	
103 2,4-Dinitrotoluene	165	8.737	8.737	0.000	91	10465	0.4000	0.3523	
105 Dibenzofuran	168	8.761	8.761	0.000	97	48348	0.4000	0.3719	
110 Diethyl phthalate	149	8.918	8.918	0.000	97	37046	0.4000	0.3875	
115 Fluorene	166	9.046	9.046	0.000	92	38255	0.4000	0.3675	
119 N-Nitrosodiphenylamine	169	9.127	9.127	0.000	64	27536	0.4000	0.3798	
123 Hexachlorobenzene	284	9.526	9.526	0.000	91	24600	0.4000	0.4071	
128 n-Octadecane	43	9.693	9.693	0.000	91	14573	0.4000	0.3671	
131 Phenanthrene	178	9.859	9.859	0.000	96	57414	0.4000	0.4014	
132 Anthracene	178	9.902	9.902	0.000	98	59317	0.4000	0.4014	
133 Carbazole	167	10.030	10.030	0.000	96	52476	0.4000	0.3867	
134 Di-n-butyl phthalate	149	10.282	10.282	0.000	98	57779	0.4000	0.3693	
142 Fluoranthene	202	10.934	10.934	0.000	98	55605	0.4000	0.3774	
145 Pyrene	202	11.181	11.181	0.000	95	59321	0.4000	0.3971	
148 Butyl benzyl phthalate	149	11.928	11.928	0.000	93	25153	0.4000	0.3661	
154 Benzo[a]anthracene	228	12.827	12.827	0.000	98	58043	0.4000	0.3698	
153 Bis(2-ethylhexyl) phthalat	149	12.841	12.841	0.000	54	36081	0.4000	0.3663	
155 Chrysene	228	12.893	12.893	0.000	96	59852	0.4000	0.3924	
160 Benzo[b]fluoranthene	252	15.028	15.028	0.000	84	77854	0.4000	0.3844	
161 Benzo[k]fluoranthene	252	15.090	15.090	0.000	97	78178	0.4000	0.3840	
163 Benzo[a]pyrene	252	15.875	15.875	0.000	94	73468	0.4000	0.3822	
165 Indeno[1,2,3-cd]pyrene	276	19.185	19.185	0.000	98	111229	0.4000	0.3972	
166 Dibenz(a,h)anthracene	278	19.242	19.242	0.000	90	89449	0.4000	0.3873	
167 Benzo[g,h,i]perylene	276	19.746	19.746	0.000	93	95289	0.4000	0.4090	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL4_00044

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm2.D

Injection Date: 21-Aug-2018 15:07:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

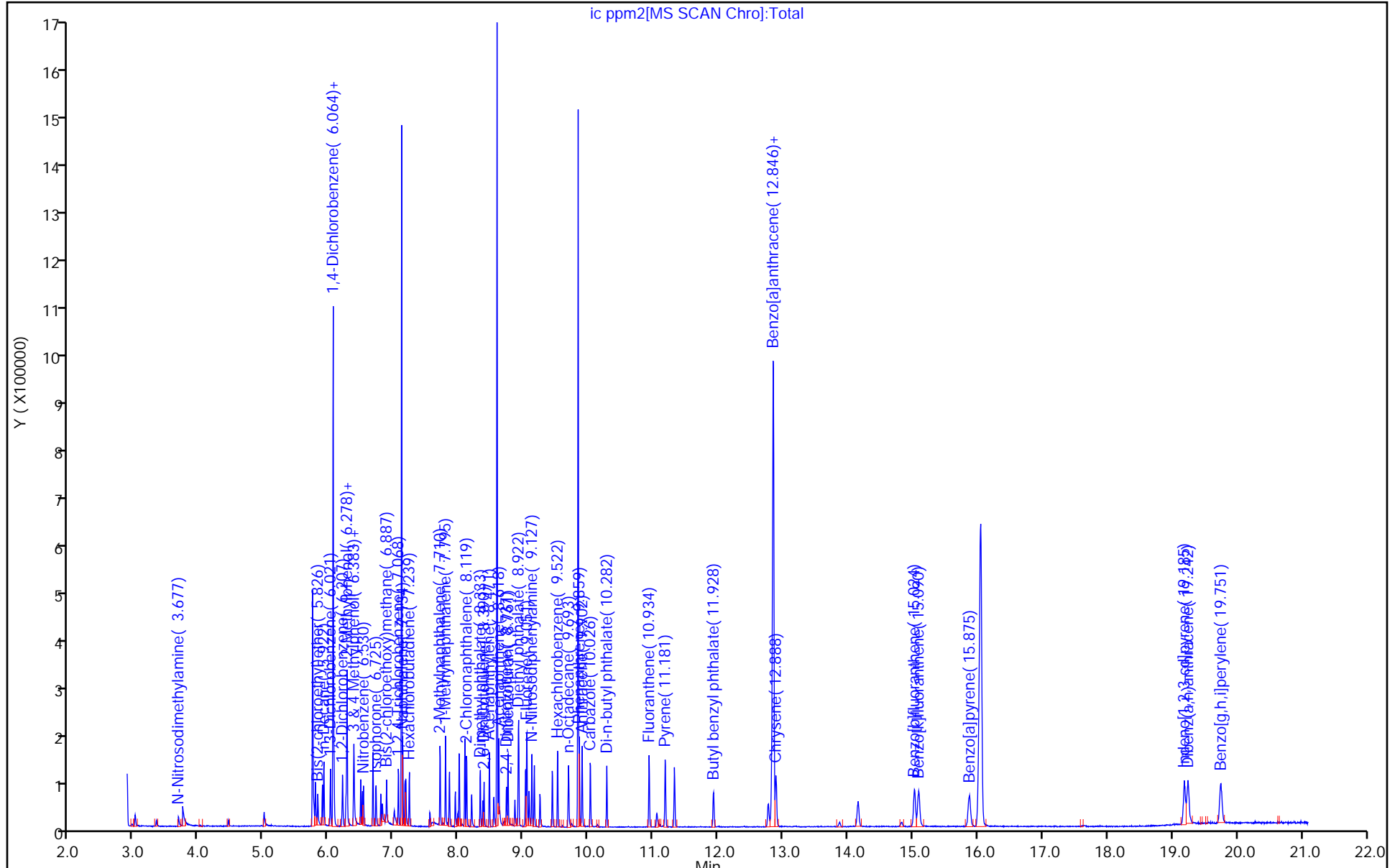
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

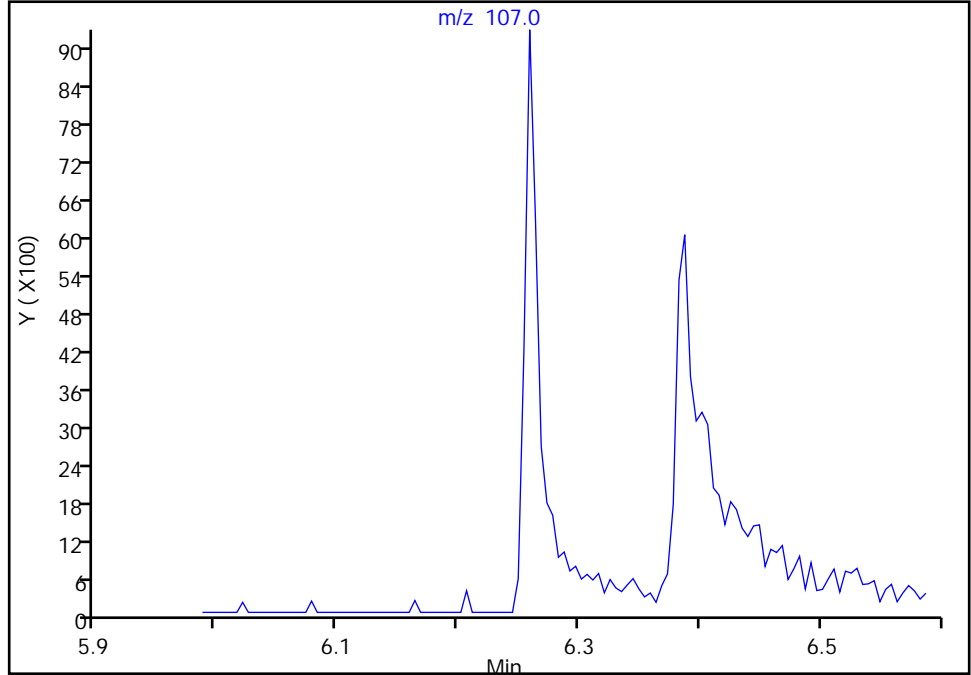
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Injection Date: 21-Aug-2018 15:07:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

40 2-Methylphenol, CAS: 95-48-7

Signal: 1

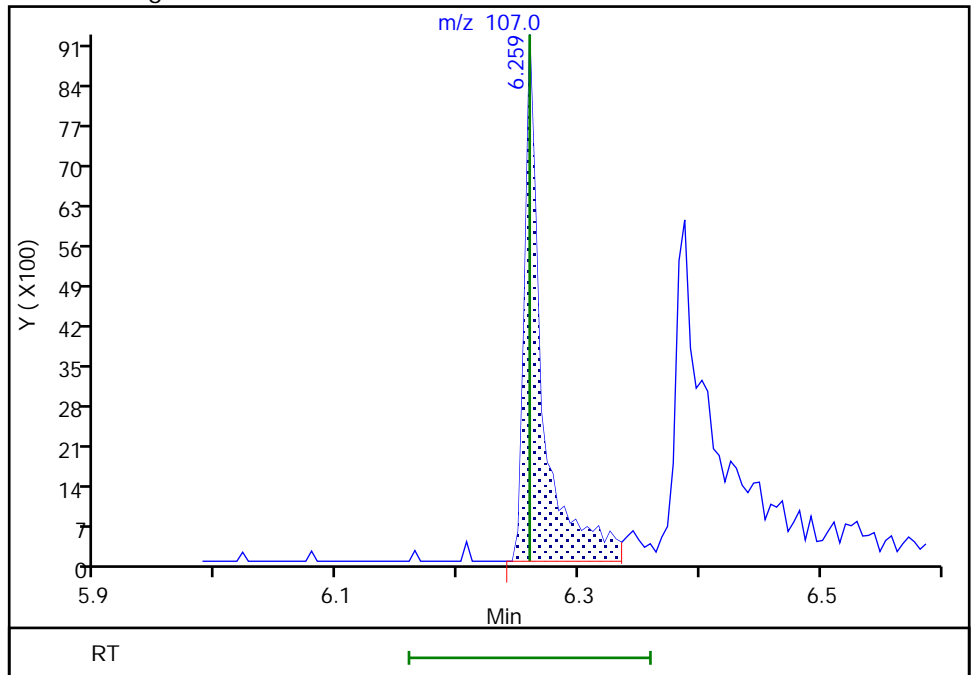
Not Detected
Expected RT: 6.26

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 9453
Amount: 0.489354
Amount Units: ug/ml



TestAmerica Chicago

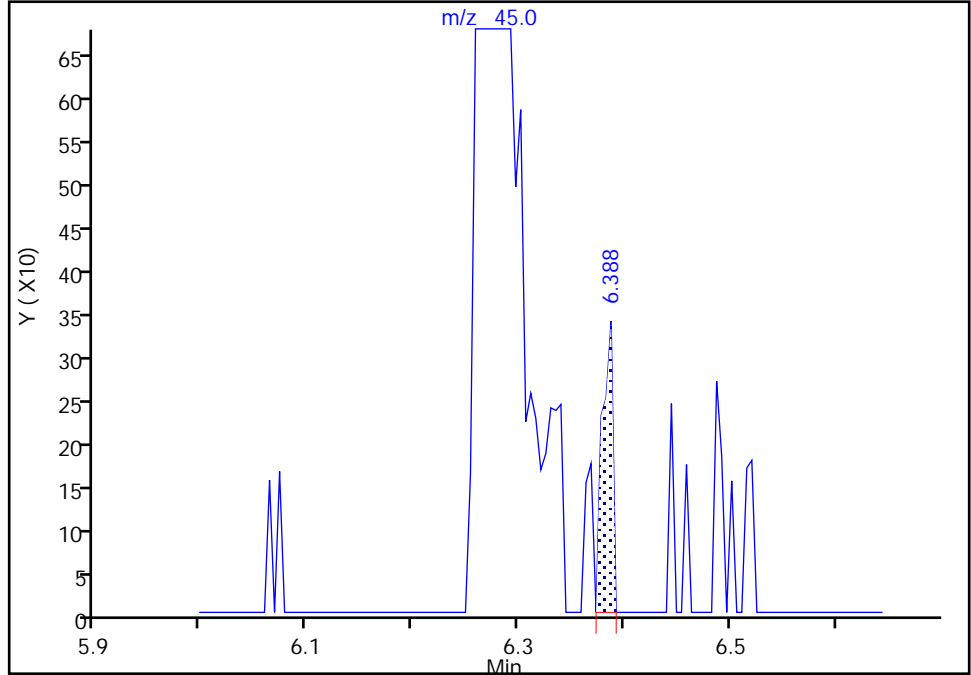
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Injection Date: 21-Aug-2018 15:07:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

41 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Signal: 1

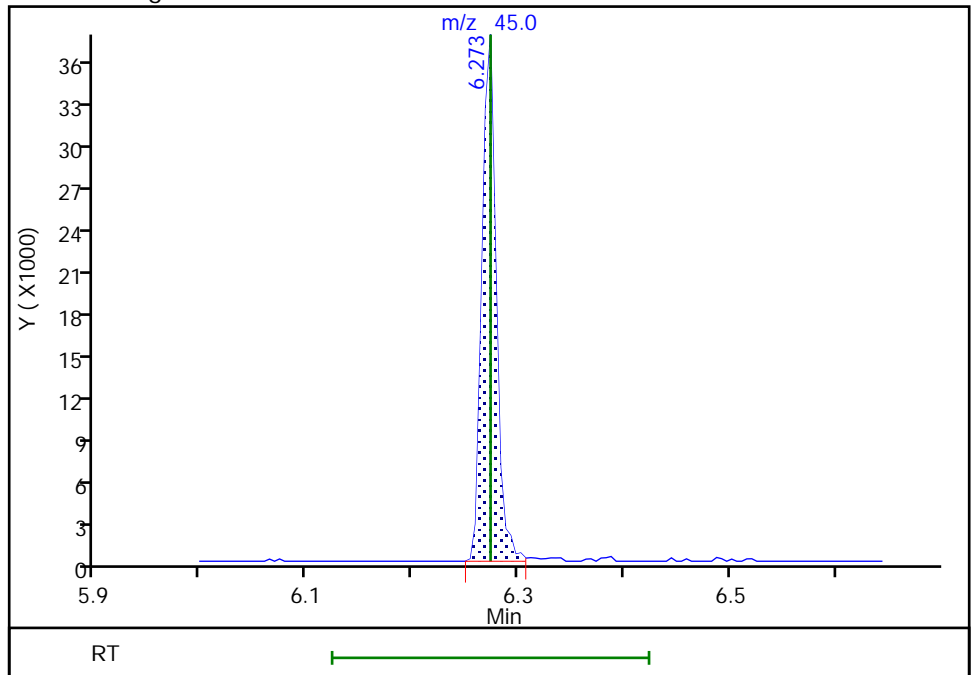
RT: 6.39
Area: 234
Amount: 0.002968
Amount Units: ug/ml

Processing Integration Results



RT: 6.27
Area: 34843
Amount: 0.386976
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm02.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 21-Aug-2018 15:36:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-003
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59

Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:30:46 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg Date: 21-Aug-2018 18:32:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	95	106791	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	463270	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	94	250767	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	96	423698	3.20	3.20	
* 5 Chrysene-d12	240	12.846	12.846	0.000	99	496164	3.20	3.20	
* 6 Perylene-d12	264	16.041	16.046	-0.005	97	664120	3.20	3.20	
154 Benzo[a]anthracene	228	12.827	12.827	0.000	95	7445	0.0400	0.0498	
155 Chrysene	228	12.884	12.893	-0.009	97	6494	0.0400	0.0447	
160 Benzo[b]fluoranthene	252	15.024	15.028	-0.004	97	7615	0.0400	0.0386	
161 Benzo[k]fluoranthene	252	15.085	15.090	-0.005	96	7949	0.0400	0.0401	a
163 Benzo[a]pyrene	252	15.865	15.875	-0.010	92	7231	0.0400	0.0386	
165 Indeno[1,2,3-cd]pyrene	276	19.185	19.185	0.000	72	11214	0.0400	0.0411	a
166 Dibenz(a,h)anthracene	278	19.232	19.242	-0.010	12	8995	0.0400	0.0400	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL1_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm02.D

Injection Date: 21-Aug-2018 15:36:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

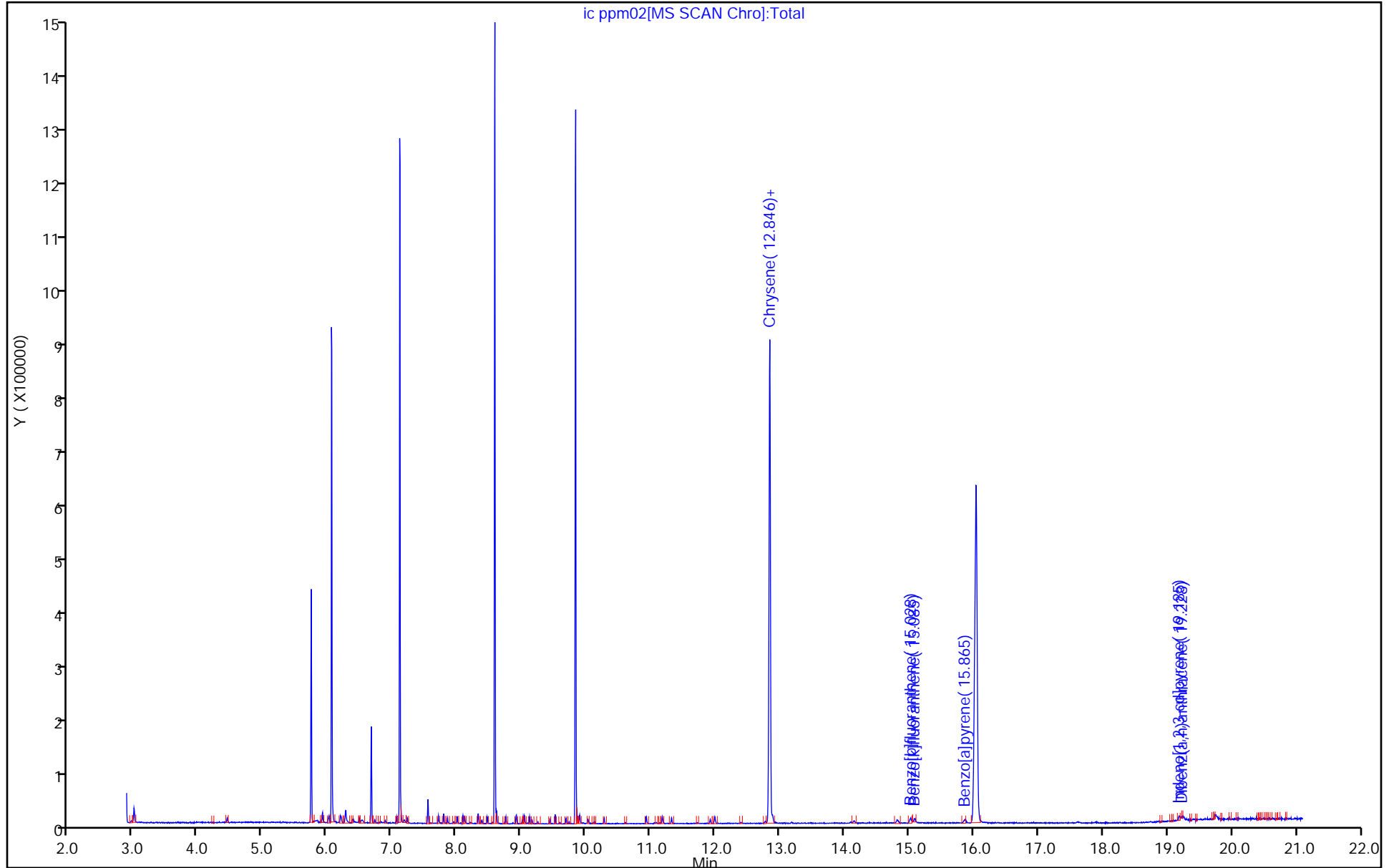
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

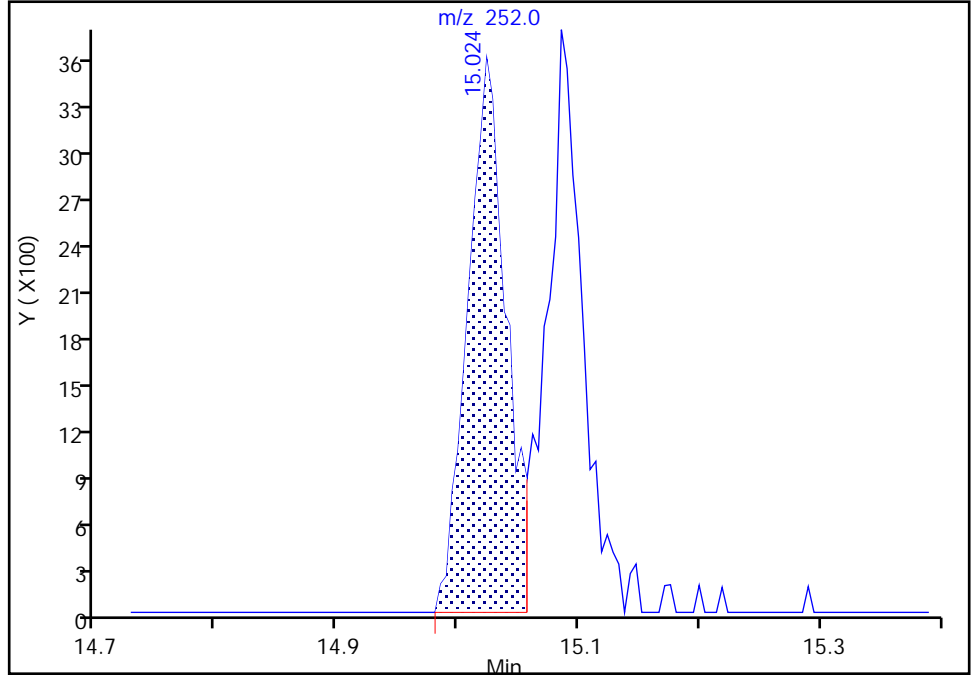
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm02.D
Injection Date: 21-Aug-2018 15:36:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

161 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

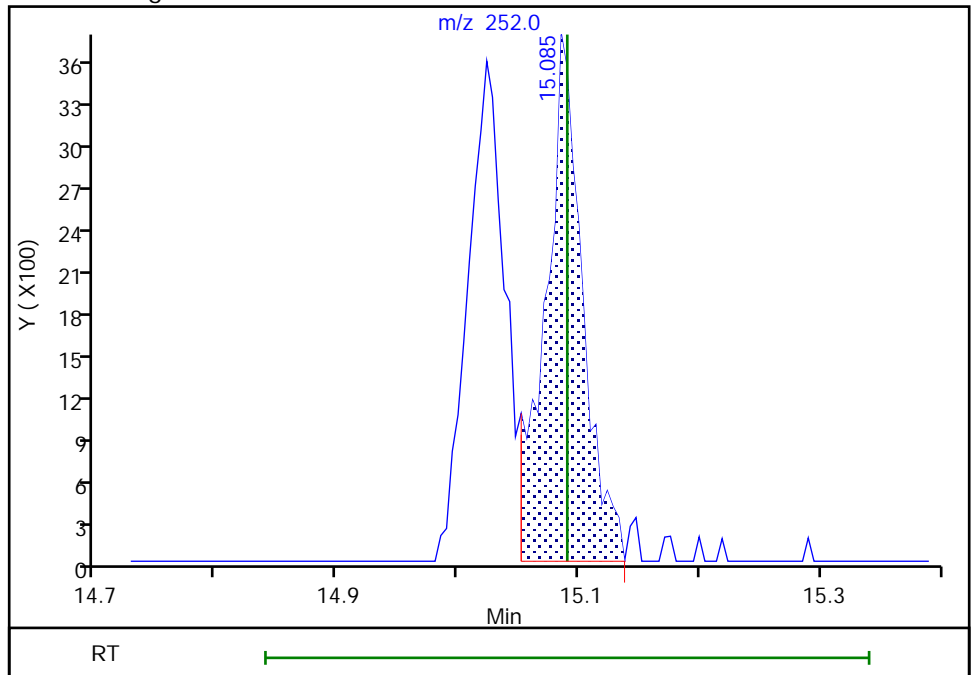
RT: 15.02
Area: 7856
Amount: 0.039763
Amount Units: ug/ml

Processing Integration Results



RT: 15.09
Area: 7949
Amount: 0.040077
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago

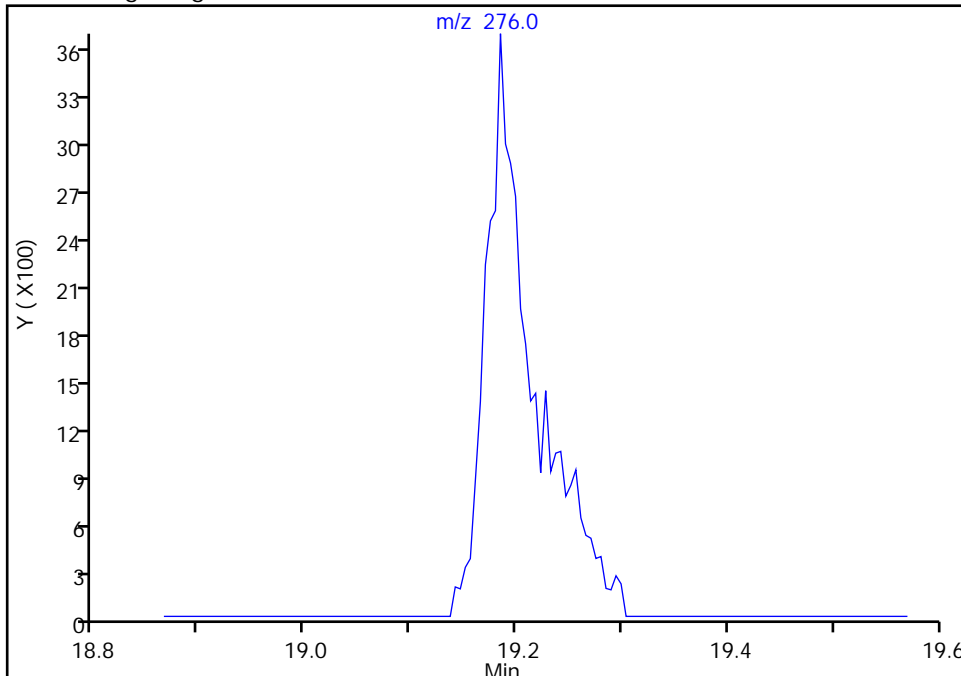
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Injection Date: 21-Aug-2018 15:36:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector MS SCAN

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

Signal: 1

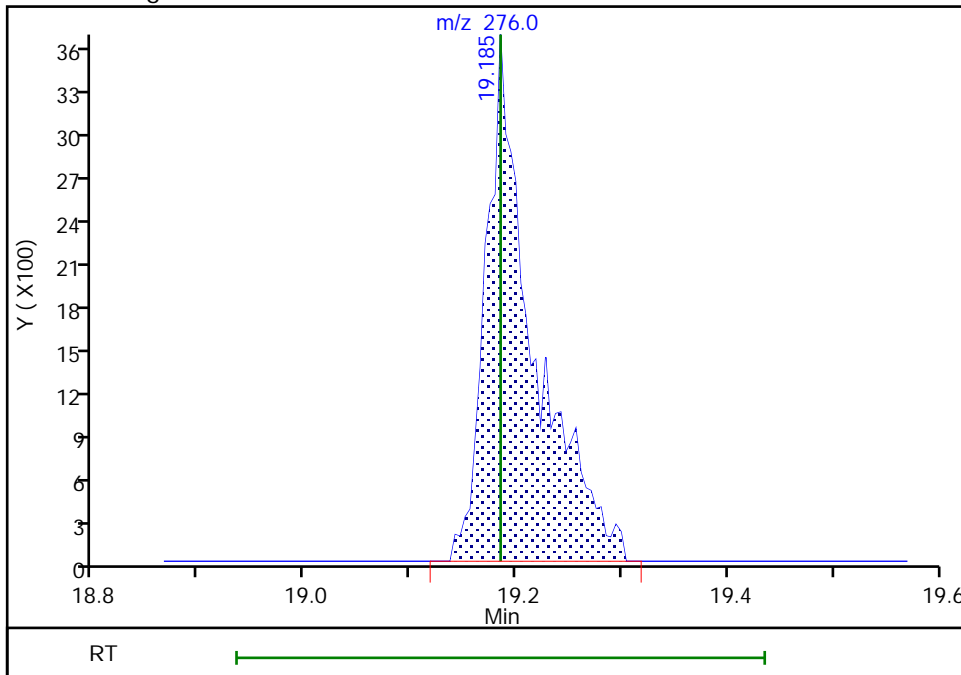
Not Detected
Expected RT: 19.18

Processing Integration Results



Manual Integration Results

RT: 19.18
Area: 11214
Amount: 0.041097
Amount Units: ug/ml



Reviewer: rynkarg, 22-Aug-2018 16:21:30
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm05.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 21-Aug-2018 16:06:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-004
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:30:54 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg Date: 21-Aug-2018 18:33:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	94	132918	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	528098	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	95	272294	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	99	481670	3.20	3.20	
* 5 Chrysene-d12	240	12.846	12.846	0.000	99	528115	3.20	3.20	
* 6 Perylene-d12	264	16.041	16.046	-0.005	98	695693	3.20	3.20	
44 N-Nitrosodi-n-propylamine	70	6.378	6.378	0.000	58	2288	0.1000	0.0844	
73 2-Methylnaphthalene	142	7.709	7.710	-0.001	97	11264	0.1000	0.1016	
90 2,6-Dinitrotoluene	165	8.390	8.390	0.000	89	1663	0.1000	0.0688	
123 Hexachlorobenzene	284	9.521	9.526	-0.005	93	6188	0.1000	0.0927	
154 Benzo[a]anthracene	228	12.822	12.827	-0.005	66	15947	0.1000	0.1003	
155 Chrysene	228	12.888	12.893	-0.005	96	16239	0.1000	0.1051	
160 Benzo[b]fluoranthene	252	15.028	15.028	0.000	97	16625	0.1000	0.0804	a
161 Benzo[k]fluoranthene	252	15.085	15.090	-0.005	97	18080	0.1000	0.0870	
163 Benzo[a]pyrene	252	15.856	15.875	-0.019	95	17553	0.1000	0.0895	
165 Indeno[1,2,3-cd]pyrene	276	19.180	19.185	-0.005	97	27043	0.1000	0.0946	
166 Dibenz(a,h)anthracene	278	19.237	19.242	-0.005	87	21590	0.1000	0.0916	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL2_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm05.D

Injection Date: 21-Aug-2018 16:06:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

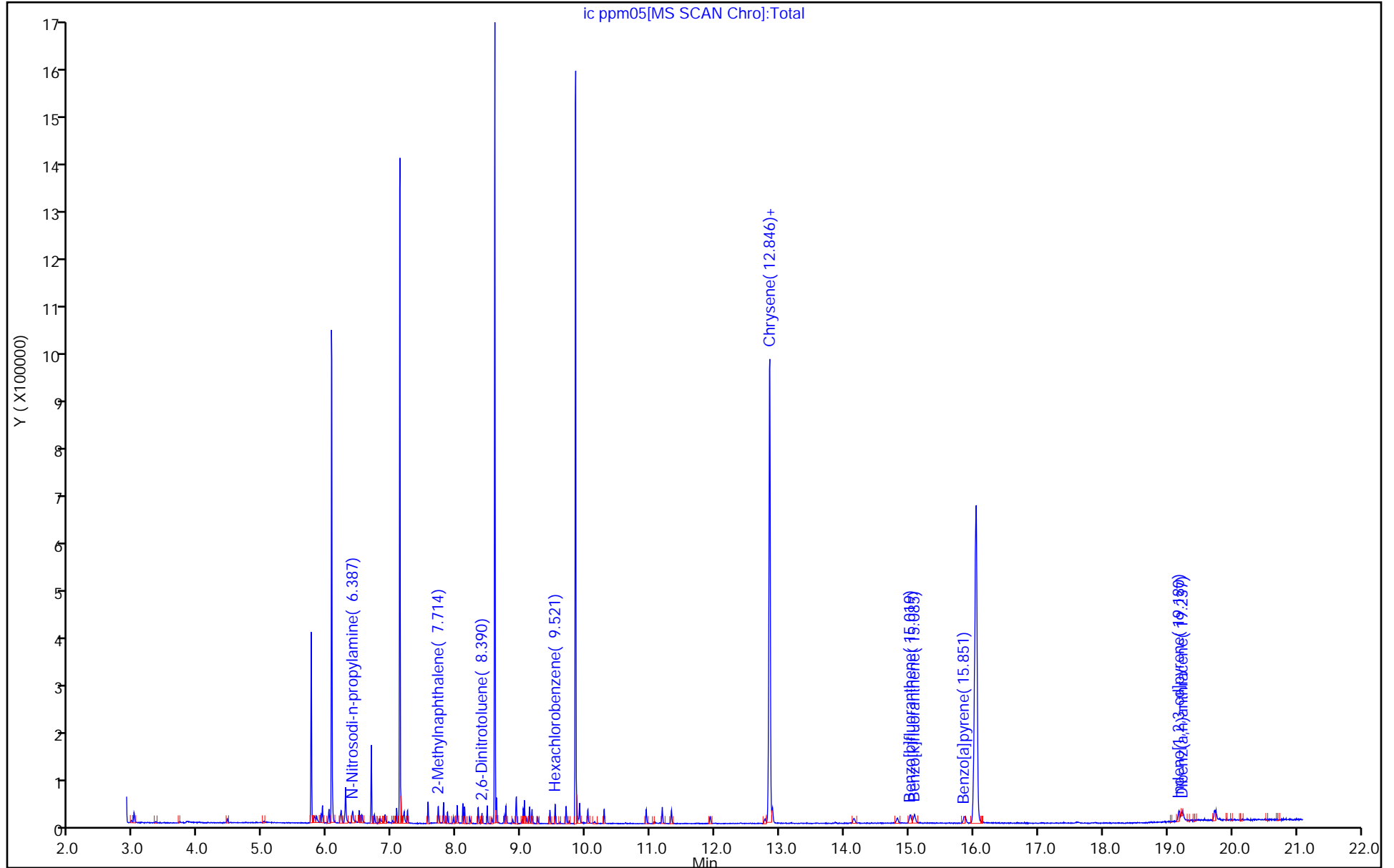
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

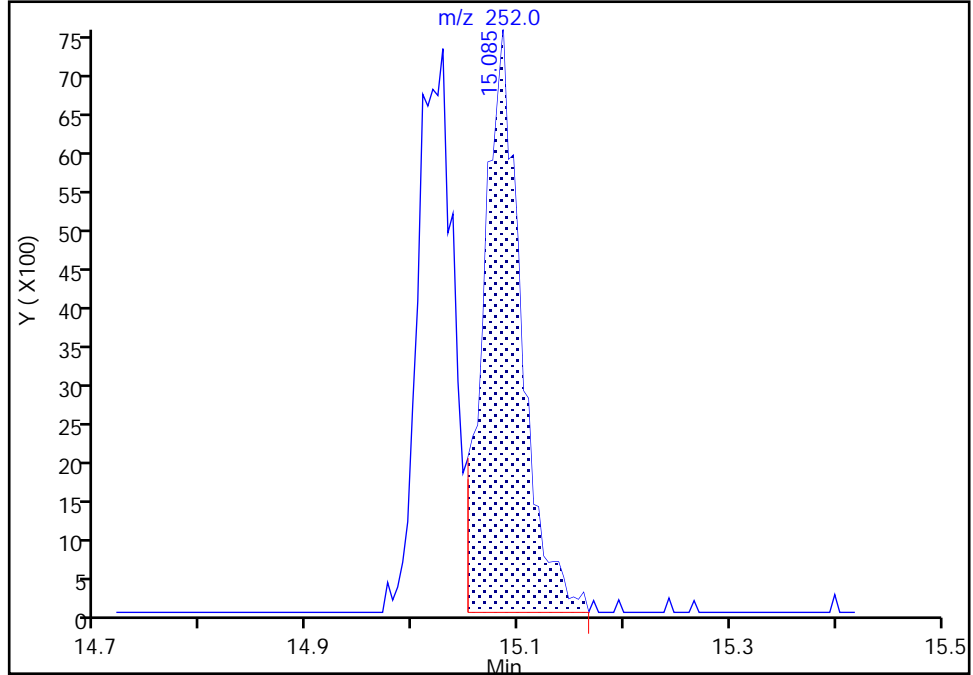
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm05.D
Injection Date: 21-Aug-2018 16:06:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

160 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

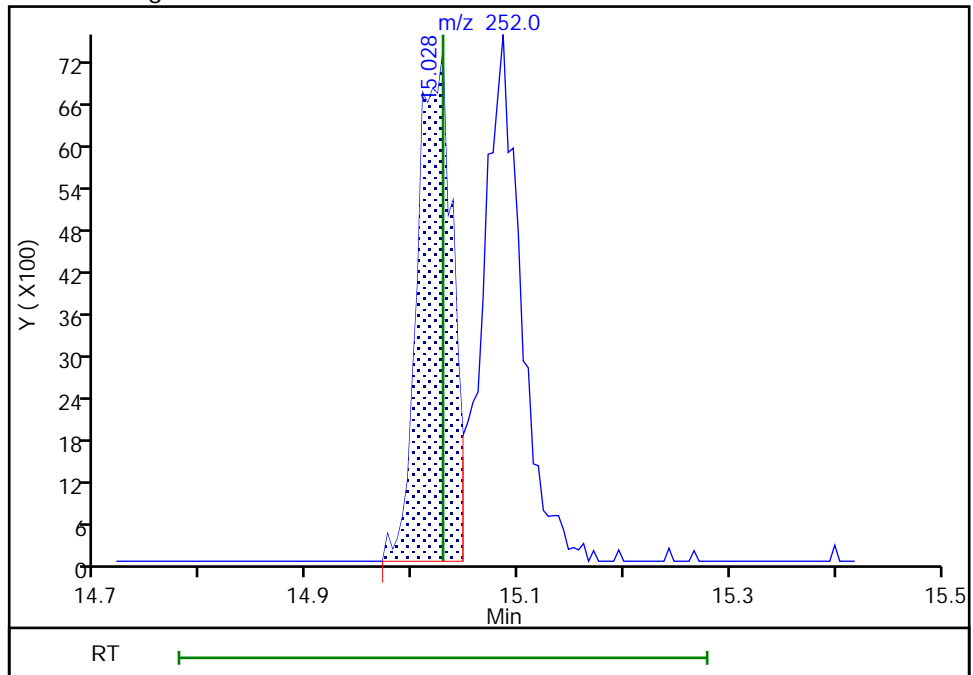
RT: 15.09
Area: 18595
Amount: 0.088629
Amount Units: ug/ml

Processing Integration Results



RT: 15.03
Area: 16625
Amount: 0.080428
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 22-Aug-2018 16:35:16
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm1.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 21-Aug-2018 16:35:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-005
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:00 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg

Date: 21-Aug-2018 18:33:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.059	6.064	-0.005	94	127046	3.20	3.20	
* 2 Naphthalene-d8	136	7.115	7.120	-0.005	99	497684	3.20	3.20	
* 3 Acenaphthene-d10	164	8.585	8.589	-0.004	97	252692	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	98	426674	3.20	3.20	
* 5 Chrysene-d12	240	12.846	12.846	0.000	97	512812	3.20	3.20	
* 6 Perylene-d12	264	16.041	16.046	-0.005	98	671117	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.999	4.999	0.000	90	3136	0.2000	0.1491	
\$ 8 Phenol-d5	99	5.760	5.755	0.005	86	5474	0.2000	0.2857	
\$ 9 Nitrobenzene-d5	82	6.516	6.516	0.000	93	6479	0.2000	0.1748	
\$ 10 2-Fluorobiphenyl	172	8.004	8.004	0.000	99	16713	0.2000	0.1679	
\$ 11 2,4,6-Tribromophenol	330	9.250	9.255	-0.005	58	6773	0.2000	0.1838	
\$ 12 Terphenyl-d14	244	11.319	11.324	-0.005	96	23588	0.2000	0.1894	
33 n-Decane	43	5.917	5.922	-0.005	87	10806	0.2000	0.1702	
44 N-Nitrosodi-n-propylamine	70	6.378	6.378	0.000	77	4525	0.2000	0.1747	
45 Acetophenone	105	6.388	6.383	0.005	93	10665	0.2000	0.1735	
49 Nitrobenzene	77	6.530	6.530	0.000	89	7637	0.2000	0.1899	
62 Naphthalene	128	7.134	7.134	0.000	98	27816	0.2000	0.1873	
73 2-Methylnaphthalene	142	7.710	7.710	0.000	97	19828	0.2000	0.1898	
74 1-Methylnaphthalene	142	7.795	7.795	0.000	95	18271	0.2000	0.1870	
90 2,6-Dinitrotoluene	165	8.390	8.390	0.000	89	4361	0.2000	0.1944	
92 Acenaphthylene	152	8.471	8.471	-0.001	97	24478	0.2000	0.1851	
98 Acenaphthene	153	8.613	8.618	-0.005	93	18973	0.2000	0.1978	
103 2,4-Dinitrotoluene	165	8.737	8.737	0.000	92	4715	0.2000	0.1596	
115 Fluorene	166	9.046	9.046	0.000	94	21244	0.2000	0.2051	
119 N-Nitrosodiphenylamine	169	9.127	9.127	0.000	64	15051	0.2000	0.2122	
123 Hexachlorobenzene	284	9.521	9.526	-0.005	92	11232	0.2000	0.1900	
131 Phenanthrene	178	9.854	9.859	-0.005	94	27457	0.2000	0.1962	
132 Anthracene	178	9.902	9.902	0.000	98	27207	0.2000	0.1882	
142 Fluoranthene	202	10.929	10.934	-0.005	97	28098	0.2000	0.1949	

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm1.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
145 Pyrene	202	11.181	11.181	0.000	95	28433	0.2000	0.1934	
154 Benzo[a]anthracene	228	12.827	12.827	0.000	98	30227	0.2000	0.1958	
155 Chrysene	228	12.884	12.893	-0.009	97	30425	0.2000	0.2028	
160 Benzo[b]fluoranthene	252	15.019	15.028	-0.009	96	38340	0.2000	0.1923	Ma
161 Benzo[k]fluoranthene	252	15.081	15.090	-0.009	98	38889	0.2000	0.1940	a
163 Benzo[a]pyrene	252	15.870	15.875	-0.005	91	35064	0.2000	0.1853	
165 Indeno[1,2,3-cd]pyrene	276	19.175	19.185	-0.010	97	54900	0.2000	0.1991	
166 Dibenz(a,h)anthracene	278	19.237	19.242	-0.005	90	43154	0.2000	0.1898	
167 Benzo[g,h,i]perylene	276	19.736	19.746	-0.010	92	49863	0.2000	0.2174	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SMIst1_5uLL3_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm1.D

Injection Date: 21-Aug-2018 16:35:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul

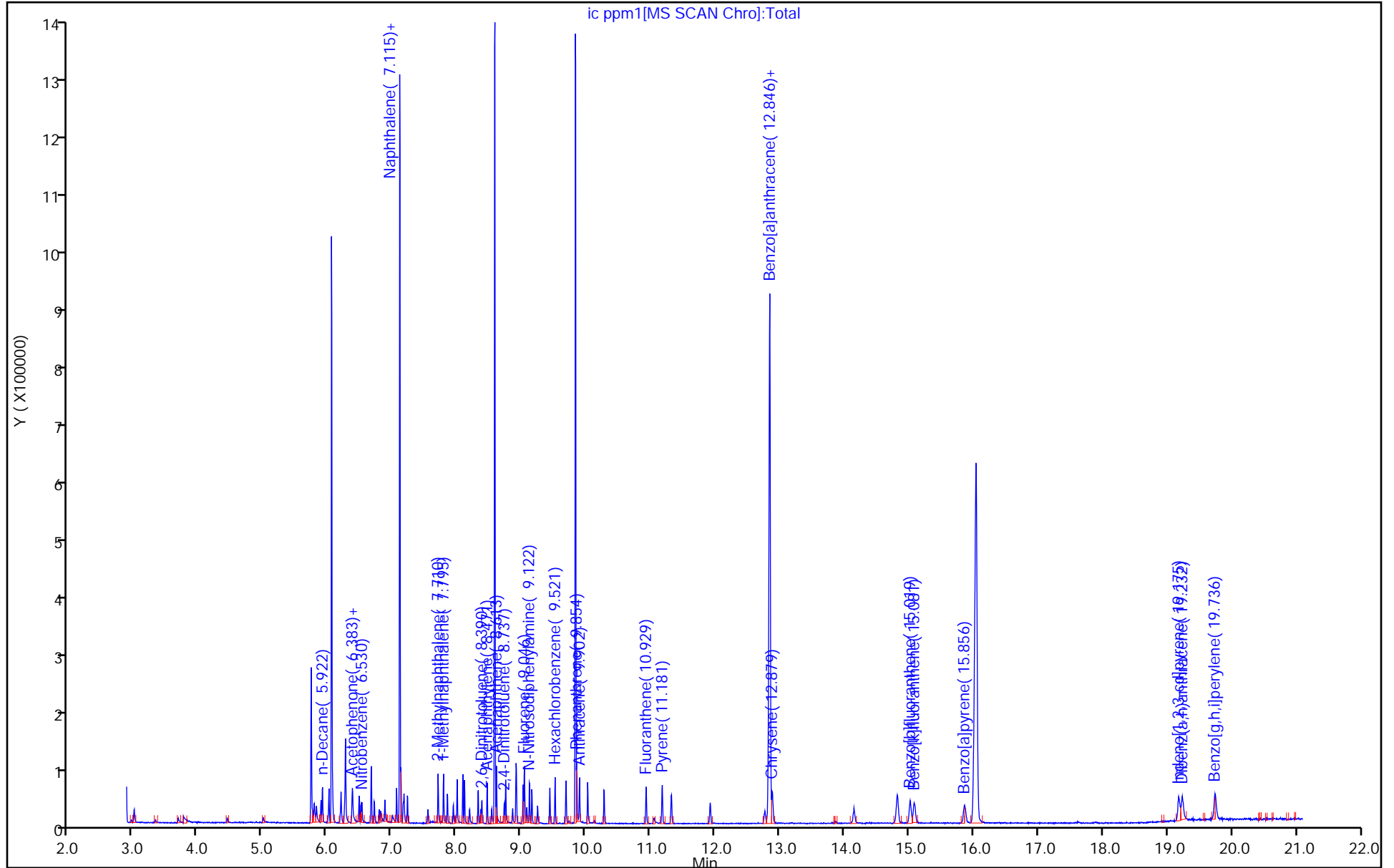
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

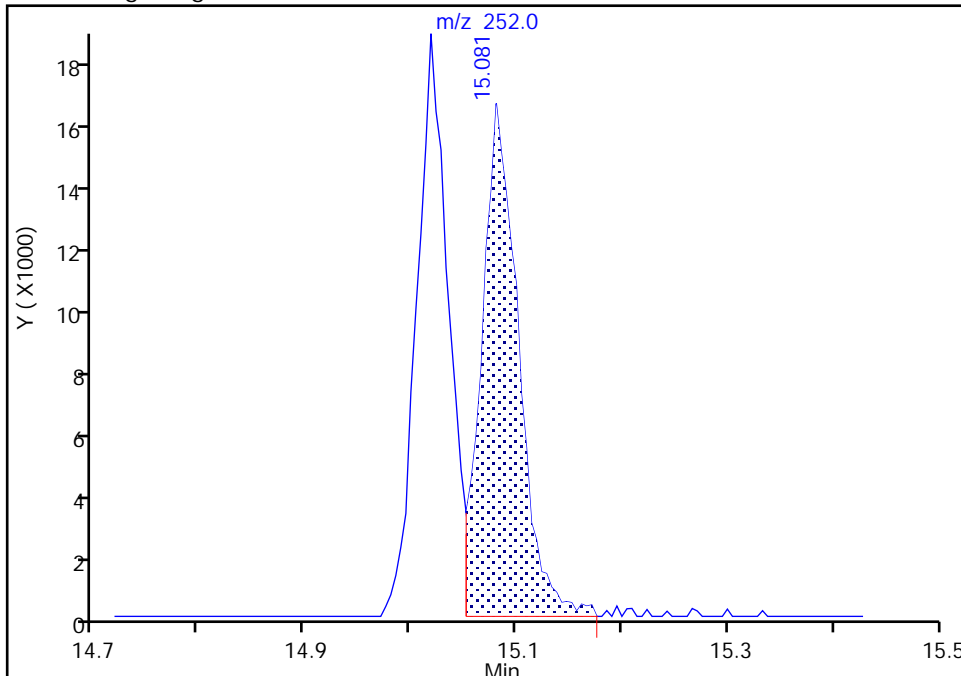
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Injection Date: 21-Aug-2018 16:35:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

160 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

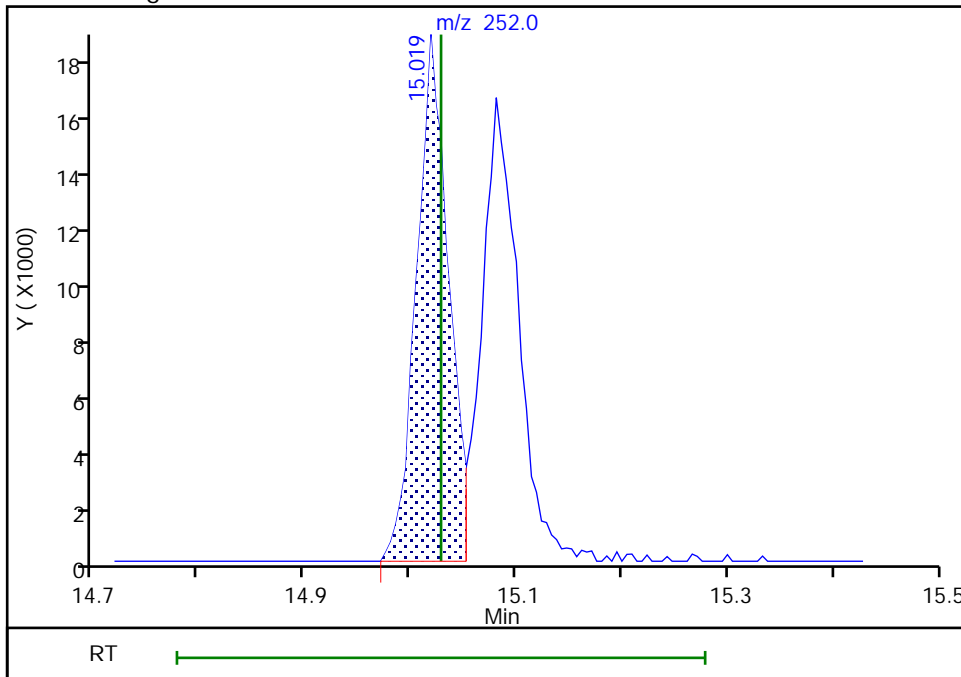
RT: 15.08
Area: 38889
Amount: 0.193798
Amount Units: ug/ml

Processing Integration Results



RT: 15.02
Area: 38340
Amount: 0.192271
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 22-Aug-2018 16:36:03
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Chicago

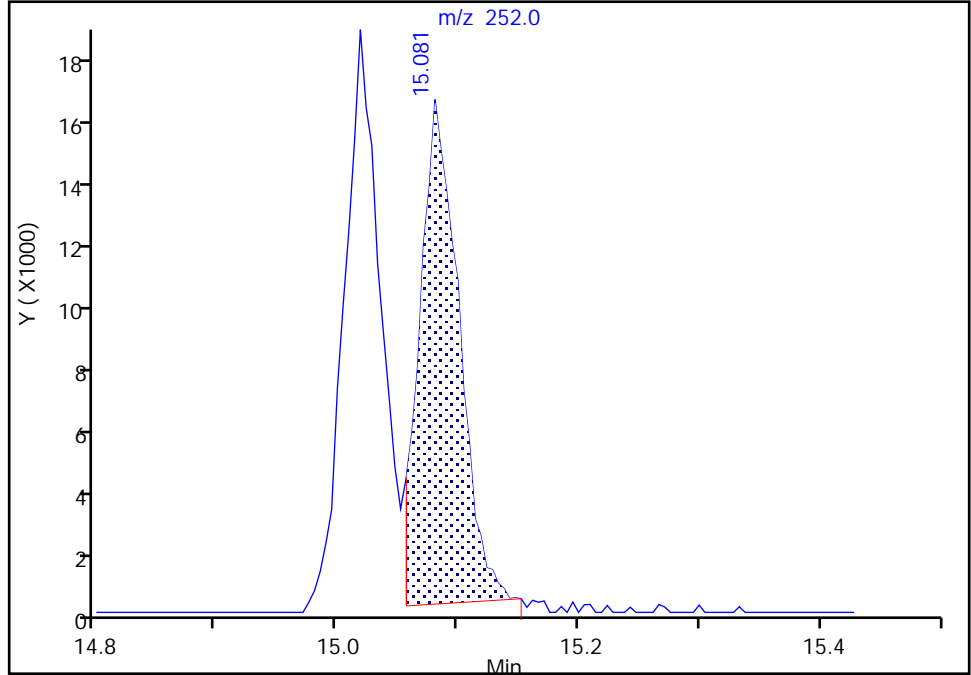
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm1.D
Injection Date: 21-Aug-2018 16:35:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

161 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

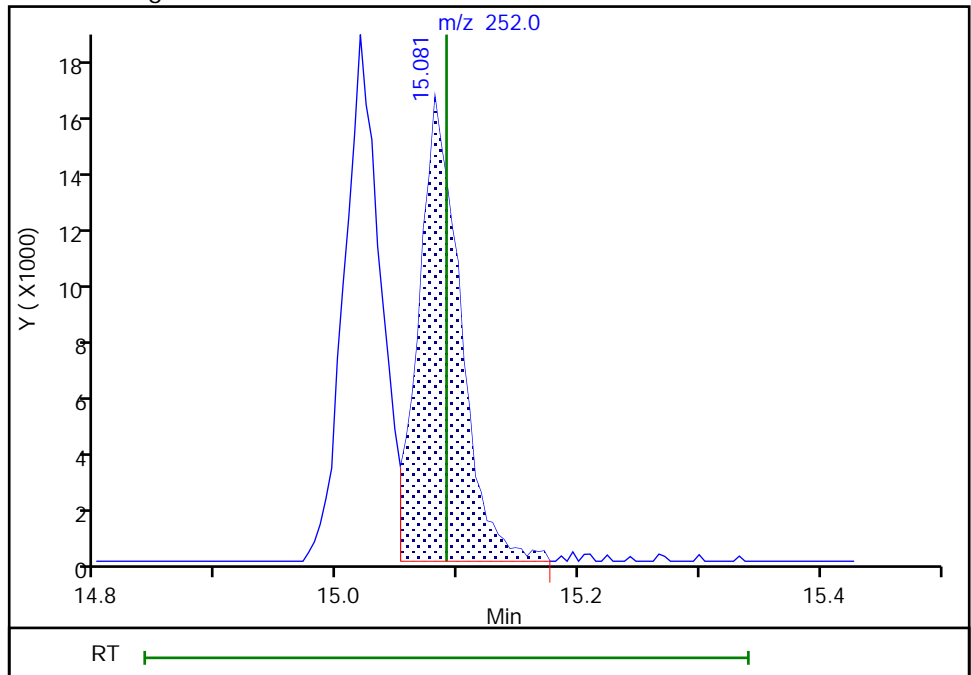
RT: 15.08
Area: 35727
Amount: 0.178757
Amount Units: ug/ml

Processing Integration Results



RT: 15.08
Area: 38889
Amount: 0.194026
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 22-Aug-2018 16:36:08
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm5.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 21-Aug-2018 17:04:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-006
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:06 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: rynkarg

Date: 22-Aug-2018 16:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.059	6.064	-0.005	94	116981	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	483825	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	94	235518	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	98	409272	3.20	3.20	
* 5 Chrysene-d12	240	12.846	12.846	0.000	99	495016	3.20	3.20	
* 6 Perylene-d12	264	16.037	16.046	-0.009	98	646638	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.994	4.999	-0.005	92	25389	1.00	1.07	
\$ 8 Phenol-d5	99	5.755	5.755	0.000	90	29709	1.00	0.8070	
\$ 9 Nitrobenzene-d5	82	6.511	6.516	-0.005	91	35457	1.00	0.9842	
\$ 10 2-Fluorobiphenyl	172	8.004	8.004	0.000	98	92253	1.00	0.99	
\$ 11 2,4,6-Tribromophenol	330	9.250	9.255	-0.005	57	34322	1.00	1.00	
\$ 12 Terphenyl-d14	244	11.324	11.324	0.000	96	121624	1.00	1.01	
13 1,4-Dioxane	88	3.330	3.334	-0.004	81	9221	1.00	0.9495	
16 N-Nitrosodimethylamine	42	3.667	3.677	-0.010	71	31275	1.00	1.06	
17 Pyridine	79	3.724	3.720	0.004	68	57749	2.00	1.63	
28 Phenol	94	5.765	5.774	-0.009	93	29652	1.00	1.17	
29 Aniline	93	5.788	5.793	-0.005	94	57709	1.00	0.9166	
30 Bis(2-chloroethyl)ether	93	5.826	5.826	0.000	86	36881	1.00	0.9758	
32 2-Chlorophenol	128	5.893	5.898	-0.005	97	38949	1.00	0.8824	
33 n-Decane	43	5.917	5.922	-0.005	88	62728	1.00	1.07	
34 1,3-Dichlorobenzene	146	6.021	6.021	0.000	97	51408	1.00	0.9304	
35 1,4-Dichlorobenzene	146	6.074	6.078	-0.004	95	53160	1.00	0.9424	
39 1,2-Dichlorobenzene	146	6.207	6.207	0.000	96	50526	1.00	0.9499	
40 2-Methylphenol	107	6.259	6.259	0.000	95	28441	1.00	0.9823	
41 2,2'-oxybis[1-chloropropan	45	6.269	6.273	-0.004	89	90157	1.00	1.06	a
42 Indene	116	6.278	6.283	-0.005	90	136052	2.00	1.93	
44 N-Nitrosodi-n-propylamine	70	6.378	6.378	0.000	74	25502	1.00	1.07	
45 Acetophenone	105	6.383	6.383	0.000	89	54810	1.00	0.9681	
43 3 & 4 Methylphenol	108	6.383	6.388	-0.005	56	35853	1.00	1.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
48 Hexachloroethane	117	6.487	6.487	0.000	95	20181	1.00	0.9653	
49 Nitrobenzene	77	6.530	6.530	0.000	92	39552	1.00	1.01	
52 Isophorone	82	6.720	6.725	-0.005	98	65883	1.00	0.9670	
54 2-Nitrophenol	139	6.797	6.801	-0.005	91	23489	1.00	0.8614	
55 2,4-Dimethylphenol	122	6.820	6.825	-0.005	91	29692	1.00	0.8419	
57 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	90	46152	1.00	0.9689	
58 Benzoic acid	122	6.882	6.963	-0.081	78	16511	2.00	2.12	
59 2,4-Dichlorophenol	162	7.006	7.010	-0.004	94	33367	1.00	0.8362	
61 1,2,4-Trichlorobenzene	180	7.068	7.072	-0.004	94	42993	1.00	0.9494	
62 Naphthalene	128	7.134	7.134	0.000	97	139063	1.00	0.9632	
63 4-Chloroaniline	127	7.167	7.172	-0.005	97	57938	1.00	0.9247	
64 2,6-Dichlorophenol	162	7.182	7.186	-0.004	96	32870	1.00	0.8698	
65 Hexachlorobutadiene	225	7.234	7.239	-0.005	93	21746	1.00	0.8982	
73 2-Methylnaphthalene	142	7.710	7.710	0.000	95	103403	1.00	1.02	
74 1-Methylnaphthalene	142	7.795	7.795	0.000	95	98446	1.00	1.04	
75 Hexachlorocyclopentadiene	237	7.847	7.852	-0.005	91	7286	1.00	1.02	
76 1,2,4,5-Tetrachlorobenzene	216	7.852	7.857	-0.005	96	40472	1.00	0.9652	
78 2,4,6-Trichlorophenol	196	7.943	7.947	-0.004	89	21094	1.00	0.8708	
79 2,4,5-Trichlorophenol	196	7.981	7.985	-0.004	94	12624	1.00	1.00	
82 1,1'-Biphenyl	154	8.095	8.099	-0.004	94	108817	1.00	0.9694	
83 2-Chloronaphthalene	162	8.119	8.123	-0.004	94	88107	1.00	0.9893	
86 2-Nitroaniline	65	8.195	8.204	-0.009	91	19284	1.00	0.8863	
88 Dimethyl phthalate	163	8.333	8.333	0.000	96	90913	1.00	0.9749	
89 1,3-Dinitrobenzene	168	8.371	8.385	-0.014	93	13357	1.00	0.9043	
90 2,6-Dinitrotoluene	165	8.390	8.390	0.000	92	21132	1.00	1.01	
92 Acenaphthylene	152	8.470	8.471	-0.001	96	125704	1.00	1.02	
93 3-Nitroaniline	138	8.537	8.551	-0.014	93	22587	1.00	0.9405	
98 Acenaphthene	153	8.613	8.618	-0.005	89	91496	1.00	1.02	
100 4-Nitrophenol	109	8.680	8.694	-0.014	78	4587	2.00	0.5515	
103 2,4-Dinitrotoluene	165	8.737	8.737	0.000	92	26698	1.00	0.9694	
105 Dibenzofuran	168	8.756	8.761	-0.005	98	124894	1.00	1.04	
107 2,3,4,6-Tetrachlorophenol	232	8.860	8.870	-0.010	69	16406	1.00	0.8627	
110 Diethyl phthalate	149	8.917	8.918	-0.001	96	87427	1.00	0.9861	
111 Hexadecane	57	8.922	8.927	-0.005	84	50875	1.00	0.9506	
114 4-Chlorophenyl phenyl ether	204	9.027	9.032	-0.005	89	42038	1.00	0.9793	
115 Fluorene	166	9.046	9.046	0.000	94	97458	1.00	1.01	
116 4-Nitroaniline	138	9.051	9.074	-0.023	84	23457	1.00	0.9261	
117 4,6-Dinitro-2-methylphenol	198	9.084	9.098	-0.014	84	25968	2.00	1.75	
119 N-Nitrosodiphenylamine	169	9.127	9.127	0.000	63	69641	1.00	1.02	
118 Diphenylamine	169	9.127	9.136	-0.009	93	69641	0.8500	0.8715	
120 1,2-Diphenylhydrazine	77	9.160	9.170	-0.010	99	68194	1.00	0.99	
122 4-Bromophenyl phenyl ether	248	9.441	9.445	-0.004	60	34064	1.00	1.00	
123 Hexachlorobenzene	284	9.521	9.526	-0.005	92	58000	1.00	1.02	
127 Pentachlorophenol	266	9.683	9.683	0.000	80	22633	2.00	1.05	
128 n-Octadecane	43	9.693	9.693	0.000	90	34700	1.00	0.9314	
131 Phenanthrene	178	9.859	9.859	0.000	96	131782	1.00	0.9819	
132 Anthracene	178	9.902	9.902	0.000	98	138540	1.00	1.00	
133 Carbazole	167	10.026	10.030	-0.004	96	130227	1.00	1.02	
134 Di-n-butyl phthalate	149	10.282	10.282	0.000	98	148583	1.00	1.01	
142 Fluoranthene	202	10.934	10.934	0.000	98	143567	1.00	1.04	
143 Benzidine	184	11.048	11.057	-0.009	96	70246	1.00	0.8759	
145 Pyrene	202	11.181	11.181	0.000	95	147718	1.00	1.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Butyl benzyl phthalate	149	11.923	11.928	-0.005	93	66297	1.00	1.02	
152 3,3'-Dichlorobenzidine	252	12.765	12.784	-0.019	97	69014	1.00	0.9541	
154 Benzo[a]anthracene	228	12.822	12.827	-0.005	98	146571	1.00	0.9833	
153 Bis(2-ethylhexyl) phthalat	149	12.841	12.841	0.000	93	96615	1.00	1.03	
155 Chrysene	228	12.888	12.893	-0.005	97	145545	1.00	1.00	
158 Di-n-octyl phthalate	149	14.153	14.163	-0.010	73	147825	1.00	0.9348	
160 Benzo[b]fluoranthene	252	15.024	15.028	-0.004	96	193258	1.00	1.01	
161 Benzo[k]fluoranthene	252	15.090	15.090	0.000	98	199464	1.00	1.03	
163 Benzo[a]pyrene	252	15.865	15.875	-0.010	95	185559	1.00	1.02	
165 Indeno[1,2,3-cd]pyrene	276	19.185	19.185	0.000	97	275729	1.00	1.04	
166 Dibenz(a,h)anthracene	278	19.237	19.242	-0.005	89	223759	1.00	1.02	
167 Benzo[g,h,i]perylene	276	19.741	19.746	-0.005	93	228388	1.00	1.03	
S 174 Total Cresols, TCEQ Defini	1				0			2.08	
S 172 Methyl Phenols, Total	1				0			2.08	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL5_00044

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm5.D

Injection Date: 21-Aug-2018 17:04:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

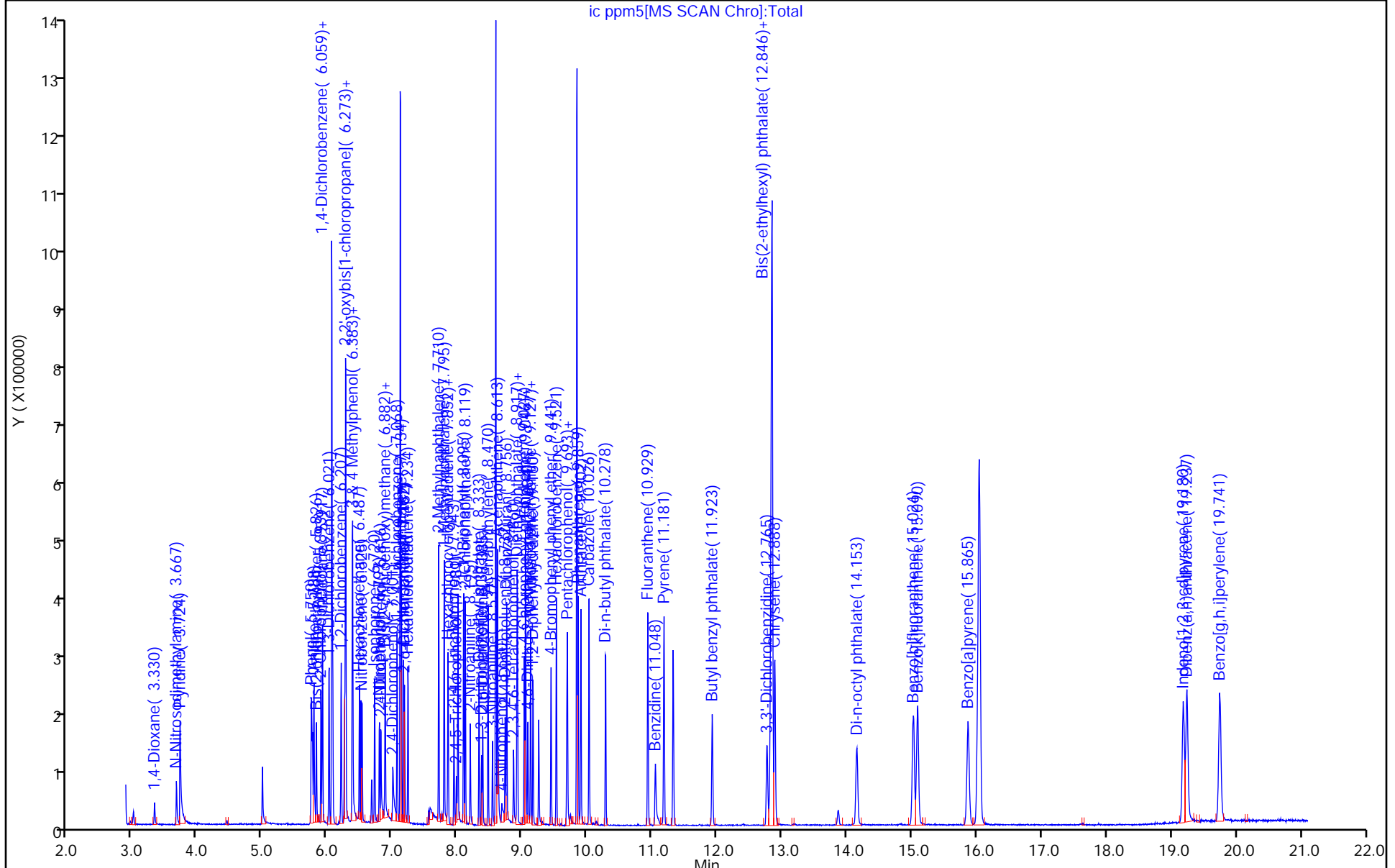
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

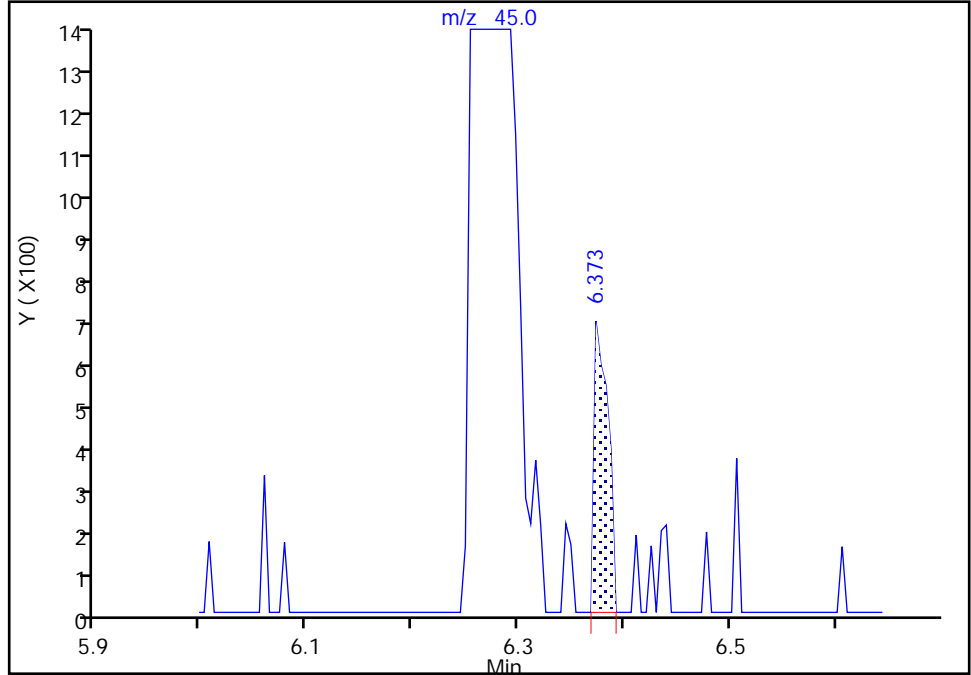
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm5.D
Injection Date: 21-Aug-2018 17:04:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

41 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Signal: 1

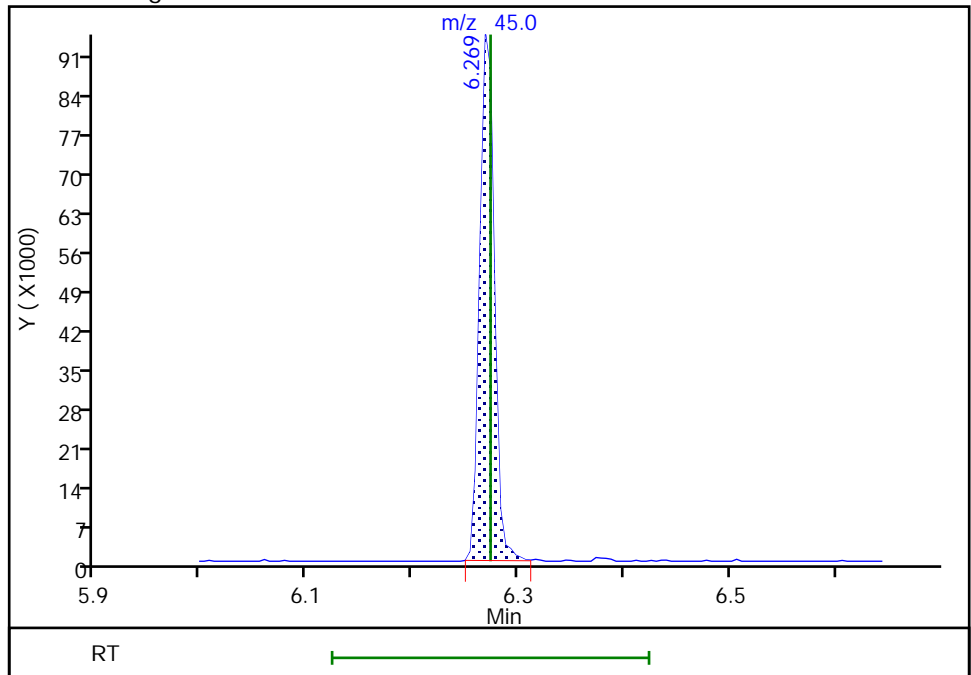
RT: 6.37
Area: 609
Amount: 0.009644
Amount Units: ug/ml

Processing Integration Results



RT: 6.27
Area: 90157
Amount: 1.061817
Amount Units: ug/ml

Manual Integration Results

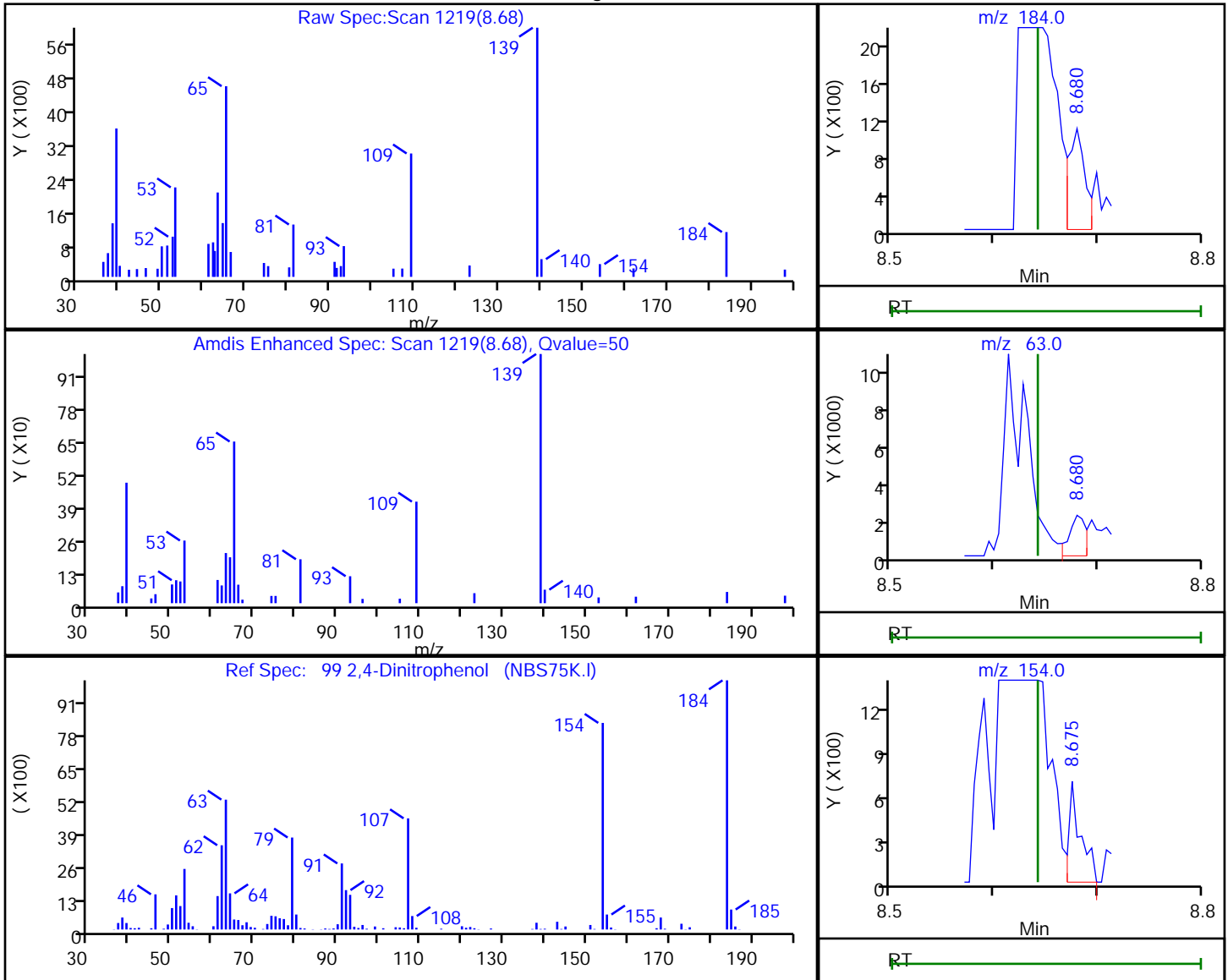


TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm5.D
 Injection Date: 21-Aug-2018 17:04:30 Instrument ID: CMS11
 Lims ID: ic
 Client ID:
 Operator ID: AD ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Column: ZB5MS (0.25 mm) Detector: MS SCAN

99 2,4-Dinitrophenol, CAS: 51-28-5

Processing Results



RT	Mass	Response	Amount
8.68	184.00	1216	0.121890
8.68	63.00	2267	
8.67	154.00	544	

Reviewer: rynkarg, 22-Aug-2018 16:27:47

Audit Action: Marked Compound Undetected

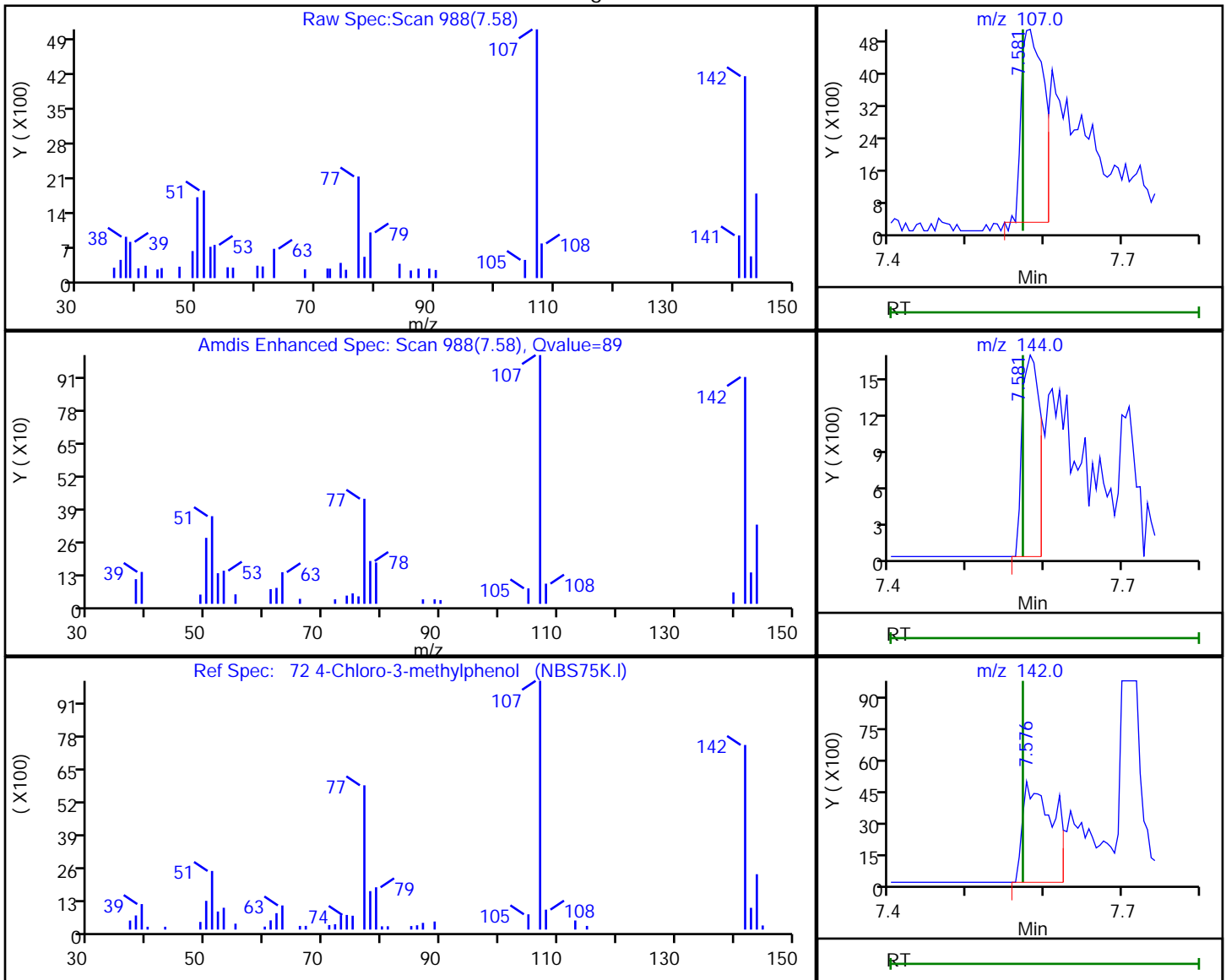
Audit Reason: Invalid Compound ID

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm5.D
 Injection Date: 21-Aug-2018 17:04:30 Instrument ID: CMS11
 Lims ID: ic
 Client ID:
 Operator ID: AD ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Column: ZB5MS (0.25 mm) Detector: MS SCAN

72 4-Chloro-3-methylphenol, CAS: 59-50-7

Processing Results



RT	Mass	Response	Amount
7.58	107.00	9726	0.349093
7.58	144.00	2657	
7.58	142.00	12960	

Reviewer: rynkarg, 22-Aug-2018 16:26:08

Audit Action: Marked Compound Undetected

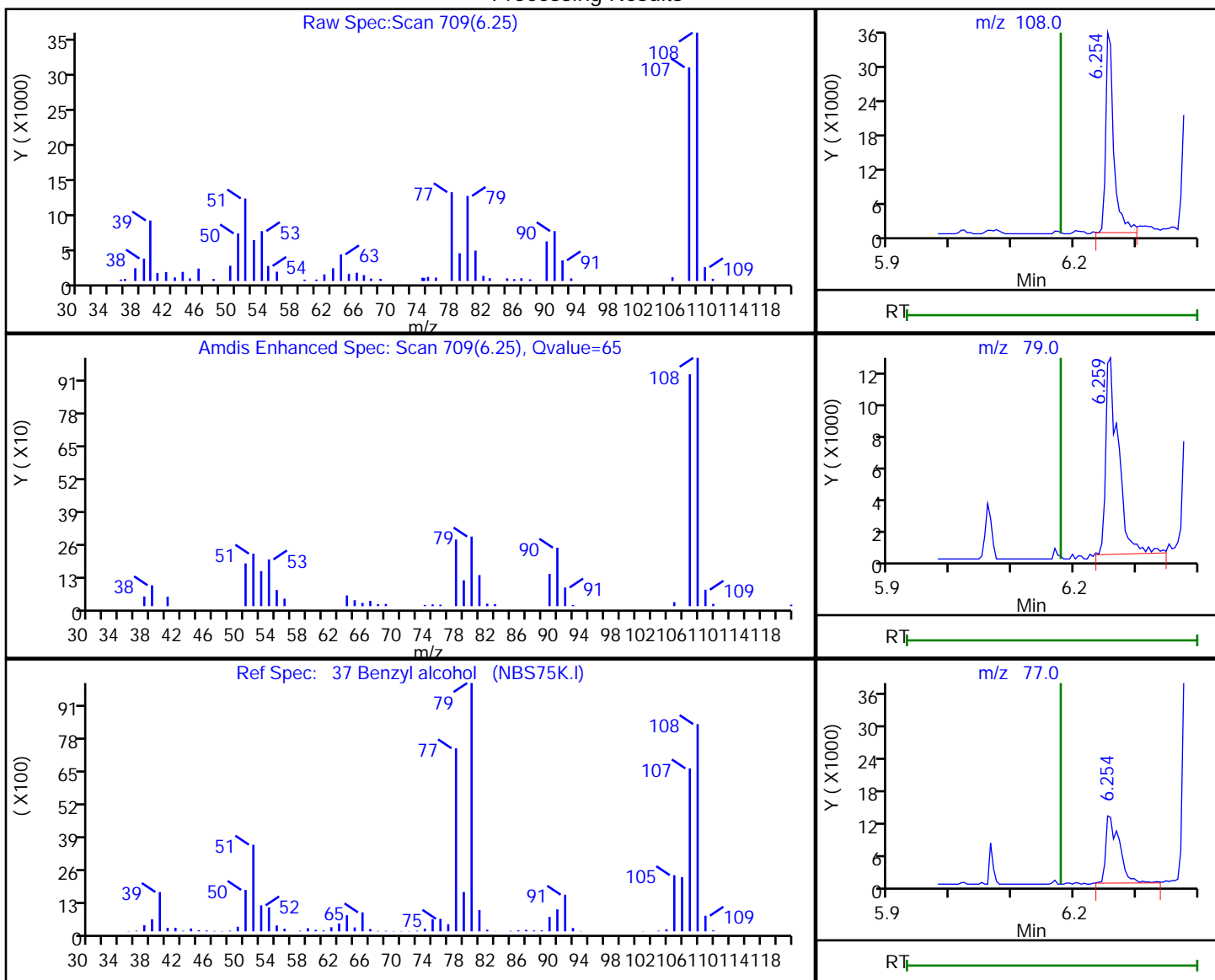
Audit Reason: Invalid Compound ID

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm5.D
 Injection Date: 21-Aug-2018 17:04:30 Instrument ID: CMS11
 Lims ID: ic
 Client ID:
 Operator ID: AD ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Column: ZB5MS (0.25 mm) Detector: MS SCAN

37 Benzyl alcohol, CAS: 100-51-6

Processing Results



RT	Mass	Response	Amount
6.25	108.00	32344	1.942006
6.26	79.00	17569	
6.25	77.00	19128	

Reviewer: rynkarg, 22-Aug-2018 16:24:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm10.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 21-Aug-2018 17:34:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-007
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:15 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: rynkarg

Date: 22-Aug-2018 16:24:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	93	129298	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	539217	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	96	269730	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	94	446553	3.20	3.20	
* 5 Chrysene-d12	240	12.850	12.846	0.004	99	548211	3.20	3.20	
* 6 Perylene-d12	264	16.041	16.046	-0.005	98	711804	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.989	4.999	-0.010	93	55615	2.00	2.00	
\$ 8 Phenol-d5	99	5.755	5.755	0.000	89	78770	2.00	1.69	
\$ 9 Nitrobenzene-d5	82	6.511	6.516	-0.005	93	77676	2.00	1.93	
\$ 10 2-Fluorobiphenyl	172	8.004	8.004	0.000	99	196141	2.00	1.85	
\$ 11 2,4,6-Tribromophenol	330	9.250	9.255	-0.005	57	67017	2.00	1.70	
\$ 12 Terphenyl-d14	244	11.324	11.324	0.000	96	262383	2.00	1.97	
13 1,4-Dioxane	88	3.330	3.334	-0.004	88	26374	2.00	2.30	
16 N-Nitrosodimethylamine	42	3.667	3.677	-0.010	74	66306	2.00	2.03	
17 Pyridine	79	3.715	3.720	-0.005	70	131582	4.00	3.35	
28 Phenol	94	5.764	5.774	-0.010	94	79559	2.00	1.89	
29 Aniline	93	5.788	5.793	-0.005	95	133042	2.00	1.91	
30 Bis(2-chloroethyl)ether	93	5.826	5.826	0.000	88	81752	2.00	1.96	
32 2-Chlorophenol	128	5.893	5.898	-0.005	97	83956	2.00	1.72	
33 n-Decane	43	5.921	5.922	-0.001	88	128033	2.00	1.98	
34 1,3-Dichlorobenzene	146	6.021	6.021	0.000	97	118763	2.00	1.94	
35 1,4-Dichlorobenzene	146	6.078	6.078	0.000	96	118138	2.00	1.89	
37 Benzyl alcohol	108	6.169	6.178	-0.009	88	11189	2.00	2.03	
39 1,2-Dichlorobenzene	146	6.207	6.207	0.000	97	110383	2.00	1.88	
40 2-Methylphenol	107	6.259	6.259	0.000	94	68784	2.00	1.84	
41 2,2'-oxybis[1-chloropropan	45	6.269	6.273	-0.004	89	179187	2.00	1.91	
42 Indene	116	6.278	6.283	-0.005	88	302595	4.00	3.88	
44 N-Nitrosodi-n-propylamine	70	6.378	6.378	0.000	75	52998	2.00	2.01	
45 Acetophenone	105	6.383	6.383	0.000	93	125658	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
43 3 & 4 Methylphenol	108	6.383	6.388	-0.005	93	80422	2.00	1.96	
48 Hexachloroethane	117	6.487	6.487	0.000	95	43569	2.00	1.89	
49 Nitrobenzene	77	6.530	6.530	0.000	94	84675	2.00	1.94	
52 Isophorone	82	6.725	6.725	0.000	97	146418	2.00	1.93	
54 2-Nitrophenol	139	6.796	6.801	-0.005	91	55505	2.00	1.83	
55 2,4-Dimethylphenol	122	6.820	6.825	-0.005	90	67827	2.00	1.73	
57 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	92	102366	2.00	1.93	
58 Benzoic acid	122	6.906	6.963	-0.057	92	87679	4.00	4.20	
59 2,4-Dichlorophenol	162	7.006	7.010	-0.004	94	79878	2.00	1.80	
61 1,2,4-Trichlorobenzene	180	7.067	7.072	-0.005	94	93753	2.00	1.86	
62 Naphthalene	128	7.134	7.134	0.000	98	314328	2.00	1.95	
63 4-Chloroaniline	127	7.167	7.172	-0.005	97	131704	2.00	1.89	
64 2,6-Dichlorophenol	162	7.182	7.186	-0.004	96	79246	2.00	1.88	
65 Hexachlorobutadiene	225	7.239	7.239	0.000	92	49206	2.00	1.82	
72 4-Chloro-3-methylphenol	107	7.572	7.572	0.000	88	48391	2.00	2.05	
73 2-Methylnaphthalene	142	7.709	7.710	-0.001	95	217456	2.00	1.92	
74 1-Methylnaphthalene	142	7.795	7.795	0.000	95	207774	2.00	1.96	
75 Hexachlorocyclopentadiene	237	7.847	7.852	-0.005	90	25087	2.00	1.95	
76 1,2,4,5-Tetrachlorobenzene	216	7.857	7.857	0.000	96	87123	2.00	1.81	
78 2,4,6-Trichlorophenol	196	7.942	7.947	-0.005	92	47974	2.00	1.73	
79 2,4,5-Trichlorophenol	196	7.981	7.985	-0.004	97	37751	2.00	1.94	
82 1,1'-Biphenyl	154	8.095	8.099	-0.004	94	249609	2.00	1.94	
83 2-Chloronaphthalene	162	8.118	8.123	-0.005	95	196266	2.00	1.92	
86 2-Nitroaniline	65	8.195	8.204	-0.009	88	50134	2.00	2.01	
88 Dimethyl phthalate	163	8.332	8.333	-0.001	97	200616	2.00	1.88	
89 1,3-Dinitrobenzene	168	8.370	8.385	-0.015	87	31167	2.00	1.84	
90 2,6-Dinitrotoluene	165	8.390	8.390	0.000	91	50607	2.00	2.11	
92 Acenaphthylene	152	8.470	8.471	-0.001	98	276889	2.00	1.96	
93 3-Nitroaniline	138	8.542	8.551	-0.009	93	51816	2.00	1.88	
98 Acenaphthene	153	8.613	8.618	-0.005	92	200916	2.00	1.96	
99 2,4-Dinitrophenol	184	8.632	8.642	-0.010	79	38690	4.00	4.38	a
100 4-Nitrophenol	109	8.680	8.694	-0.014	91	36940	4.00	3.88	
103 2,4-Dinitrotoluene	165	8.737	8.737	0.000	92	63098	2.00	2.00	
105 Dibenzofuran	168	8.756	8.761	-0.005	97	267941	2.00	1.94	
107 2,3,4,6-Tetrachlorophenol	232	8.865	8.870	-0.005	70	42096	2.00	1.93	
110 Diethyl phthalate	149	8.917	8.918	-0.001	97	203233	2.00	2.00	
111 Hexadecane	57	8.922	8.927	-0.005	83	132740	2.00	2.17	
114 4-Chlorophenyl phenyl ethe	204	9.027	9.032	-0.005	88	92626	2.00	1.88	
115 Fluorene	166	9.046	9.046	0.000	93	204192	2.00	1.85	
116 4-Nitroaniline	138	9.055	9.074	-0.019	90	52366	2.00	1.81	
117 4,6-Dinitro-2-methylphenol	198	9.084	9.098	-0.014	85	61355	4.00	3.79	
119 N-Nitrosodiphenylamine	169	9.127	9.127	0.000	63	145423	2.00	1.96	
118 Diphenylamine	169	9.127	9.136	-0.009	94	145423	1.70	1.67	
120 1,2-Diphenylhydrazine	77	9.165	9.170	-0.005	98	141171	2.00	1.79	
122 4-Bromophenyl phenyl ether	248	9.440	9.445	-0.005	60	72476	2.00	1.94	
123 Hexachlorobenzene	284	9.521	9.526	-0.005	92	121885	2.00	1.97	
127 Pentachlorophenol	266	9.683	9.683	0.000	81	70822	4.00	3.01	
128 n-Octadecane	43	9.693	9.693	0.000	90	74299	2.00	1.83	
131 Phenanthrene	178	9.859	9.859	0.000	96	292434	2.00	2.00	
132 Anthracene	178	9.902	9.902	0.000	98	299398	2.00	1.98	
133 Carbazole	167	10.025	10.030	-0.005	96	282480	2.00	2.03	
134 Di-n-butyl phthalate	149	10.282	10.282	0.000	98	321125	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
142 Fluoranthene	202	10.934	10.934	0.000	98	308180	2.00	2.04	
143 Benzidine	184	11.048	11.057	-0.009	96	158775	2.00	1.79	
145 Pyrene	202	11.181	11.181	0.000	95	313167	2.00	1.99	
148 Butyl benzyl phthalate	149	11.928	11.928	0.000	95	146164	2.00	2.02	
152 3,3'-Dichlorobenzidine	252	12.769	12.784	-0.015	97	154737	2.00	1.93	
154 Benzo[a]anthracene	228	12.826	12.827	-0.001	98	318389	2.00	1.93	
153 Bis(2-ethylhexyl) phthalat	149	12.836	12.841	-0.005	93	206003	2.00	1.99	
155 Chrysene	228	12.888	12.893	-0.005	97	306913	2.00	1.91	
158 Di-n-octyl phthalate	149	14.149	14.163	-0.015	73	337509	2.00	1.96	
160 Benzo[b]fluoranthene	252	15.028	15.028	0.000	96	421691	2.00	1.99	
161 Benzo[k]fluoranthene	252	15.090	15.090	0.000	98	425851	2.00	2.00	
163 Benzo[a]pyrene	252	15.870	15.875	-0.005	95	403993	2.00	2.01	
165 Indeno[1,2,3-cd]pyrene	276	19.189	19.185	0.004	96	582155	2.00	1.99	
166 Dibenz(a,h)anthracene	278	19.242	19.242	0.000	90	484543	2.00	2.01	
167 Benzo[g,h,i]perylene	276	19.751	19.746	0.005	92	473050	2.00	1.94	
S 172 Methyl Phenols, Total	1				0			3.79	
S 174 Total Cresols, TCEQ Defini	1				0			3.79	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL6_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm10.D

Injection Date: 21-Aug-2018 17:34:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul

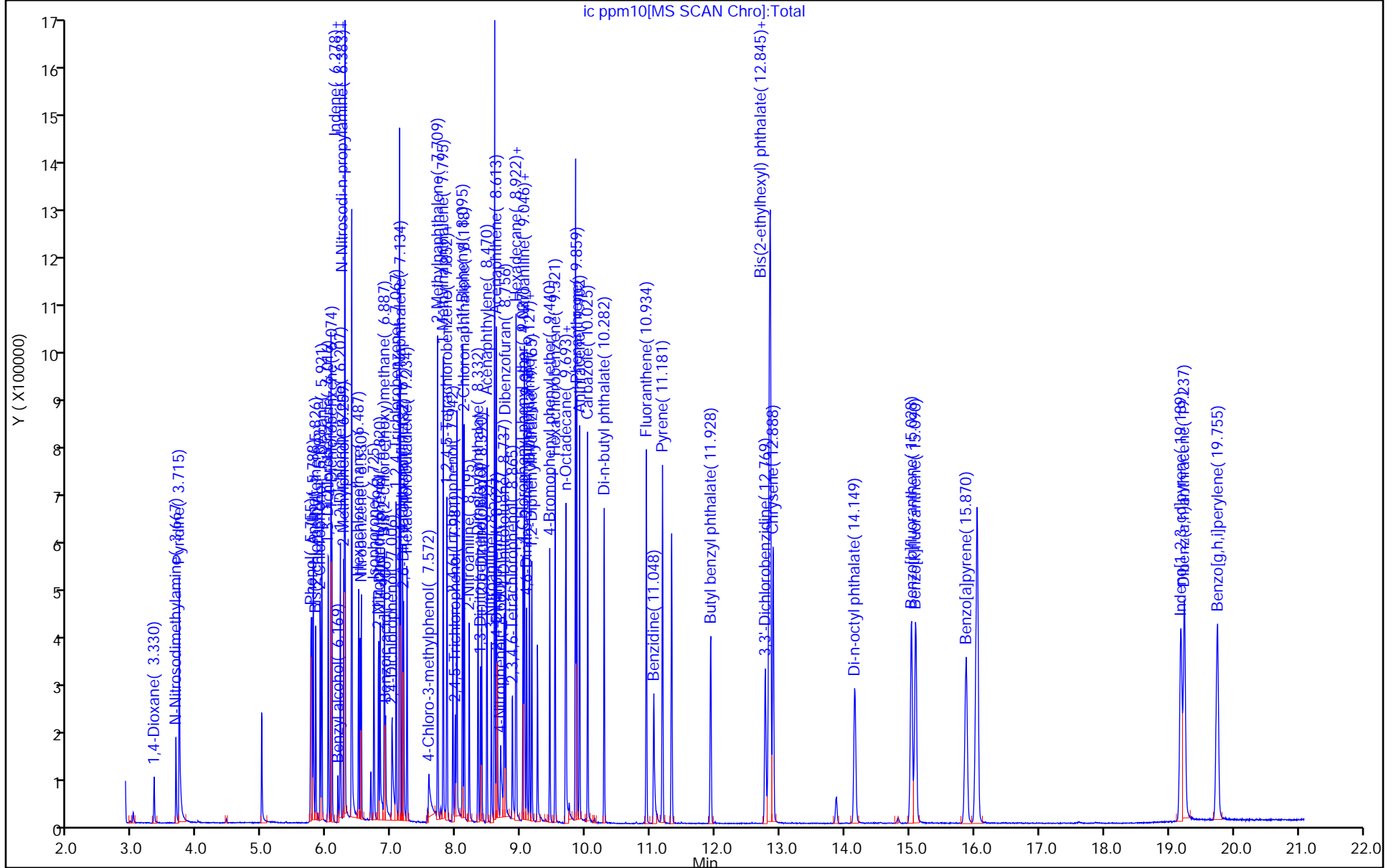
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

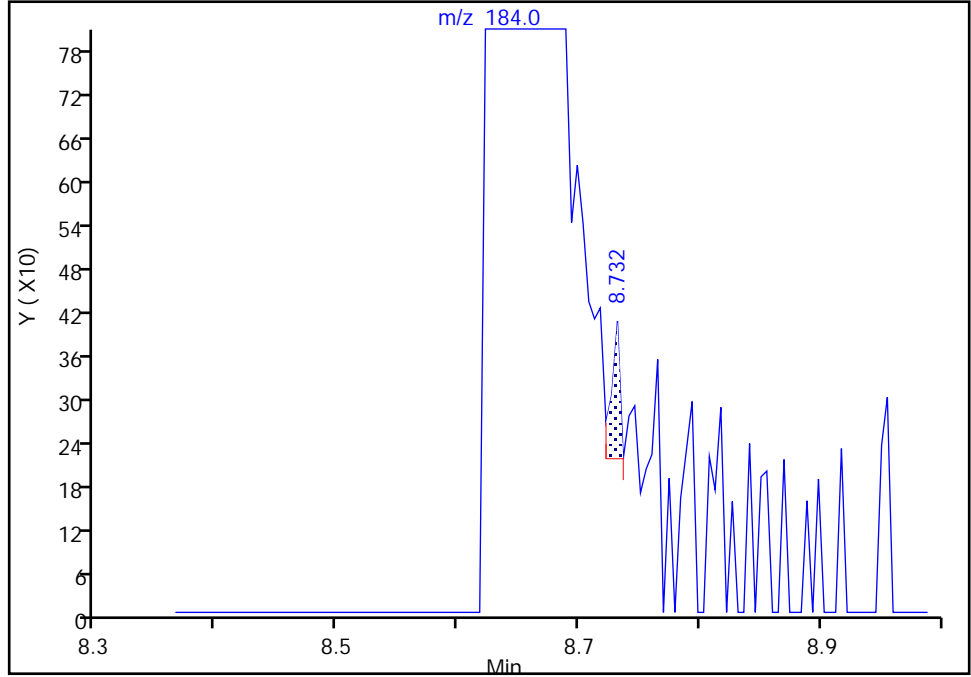
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm10.D
Injection Date: 21-Aug-2018 17:34:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

99 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

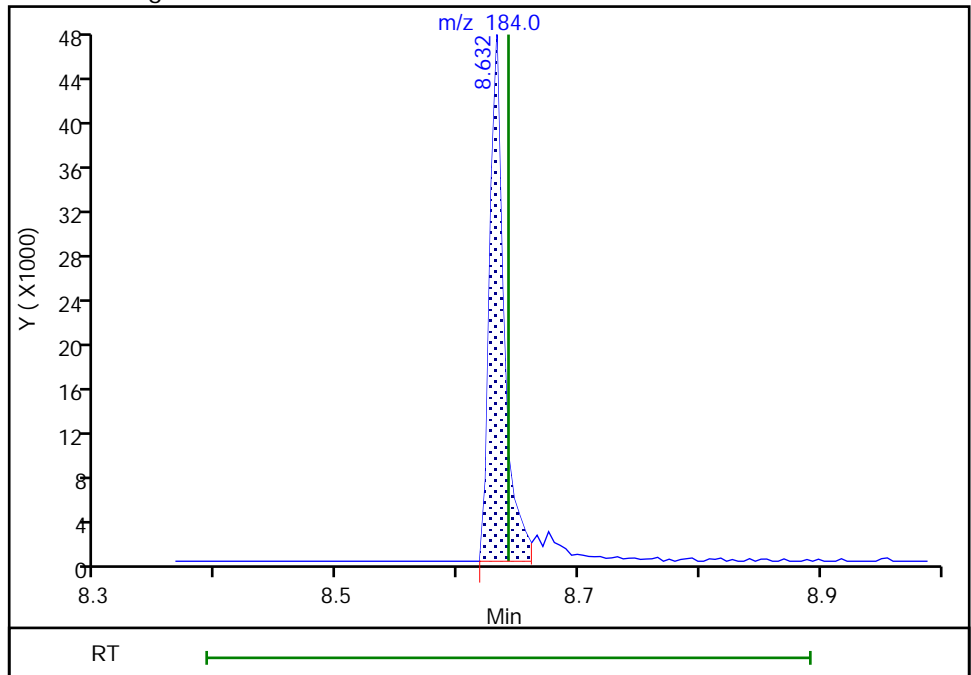
RT: 8.73
Area: 94
Amount: 3.886859
Amount Units: ug/ml

Processing Integration Results



RT: 8.63
Area: 38690
Amount: 4.383424
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm20.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 21-Aug-2018 18:03:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-008
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:21 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg Date: 21-Aug-2018 18:35:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.059	6.064	-0.005	93	133806	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	511967	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	96	246302	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	98	431734	3.20	3.20	
* 5 Chrysene-d12	240	12.850	12.846	0.004	99	533896	3.20	3.20	
* 6 Perylene-d12	264	16.046	16.046	0.000	98	682427	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.975	4.999	-0.024	93	118497	4.00	3.78	
\$ 8 Phenol-d5	99	5.750	5.755	-0.005	88	186111	4.00	3.62	
\$ 9 Nitrobenzene-d5	82	6.511	6.516	-0.005	94	149084	4.00	3.91	
\$ 10 2-Fluorobiphenyl	172	8.009	8.004	0.005	99	408125	4.00	4.21	
\$ 11 2,4,6-Tribromophenol	330	9.255	9.255	0.000	58	138571	4.00	3.86	
\$ 12 Terphenyl-d14	244	11.324	11.324	0.000	96	515456	4.00	3.97	
13 1,4-Dioxane	88	3.258	3.334	-0.076	86	44377	4.00	3.55	
16 N-Nitrosodimethylamine	42	3.615	3.677	-0.062	73	127352	4.00	3.77	
17 Pyridine	79	3.663	3.720	-0.057	69	319814	8.00	7.88	
28 Phenol	94	5.765	5.774	-0.009	96	186620	4.00	3.45	
29 Aniline	93	5.784	5.793	-0.009	96	256421	4.00	3.56	
30 Bis(2-chloroethyl)ether	93	5.822	5.826	-0.004	94	157447	4.00	3.64	
32 2-Chlorophenol	128	5.888	5.898	-0.010	97	184752	4.00	3.66	
33 n-Decane	43	5.917	5.922	-0.005	87	209298	4.00	3.13	
34 1,3-Dichlorobenzene	146	6.017	6.021	-0.004	97	230326	4.00	3.64	
35 1,4-Dichlorobenzene	146	6.074	6.078	-0.004	96	231544	4.00	3.59	
37 Benzyl alcohol	108	6.169	6.178	-0.009	89	42360	4.00	3.85	
39 1,2-Dichlorobenzene	146	6.202	6.207	-0.005	97	227572	4.00	3.74	
40 2-Methylphenol	107	6.254	6.259	-0.005	95	139356	4.00	3.34	
41 2,2'-oxybis[1-chloropropan	45	6.269	6.273	-0.004	90	332571	4.00	3.42	a
42 Indene	116	6.273	6.283	-0.010	88	589884	8.00	7.30	
44 N-Nitrosodi-n-propylamine	70	6.378	6.378	0.000	76	101813	4.00	3.73	
45 Acetophenone	105	6.383	6.383	0.000	91	237756	4.00	3.67	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
43 3 & 4 Methylphenol	108	6.383	6.388	-0.005	70	149968	4.00	3.32	
48 Hexachloroethane	117	6.483	6.487	-0.004	95	83440	4.00	3.49	
49 Nitrobenzene	77	6.530	6.530	0.000	94	156467	4.00	3.78	
52 Isophorone	82	6.725	6.725	0.000	97	279851	4.00	3.88	
54 2-Nitrophenol	139	6.797	6.801	-0.005	91	110102	4.00	3.82	
55 2,4-Dimethylphenol	122	6.820	6.825	-0.005	90	135766	4.00	3.64	
57 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	92	191813	4.00	3.81	
58 Benzoic acid	122	6.930	6.963	-0.033	90	166238	8.00	6.84	a
59 2,4-Dichlorophenol	162	7.006	7.010	-0.004	95	156749	4.00	3.71	
61 1,2,4-Trichlorobenzene	180	7.068	7.072	-0.004	94	182302	4.00	3.80	
62 Naphthalene	128	7.134	7.134	0.000	98	590371	4.00	3.86	
63 4-Chloroaniline	127	7.167	7.172	-0.005	97	252156	4.00	3.80	
64 2,6-Dichlorophenol	162	7.182	7.186	-0.004	96	146359	4.00	3.66	
65 Hexachlorobutadiene	225	7.239	7.239	0.000	92	98680	4.00	3.85	
72 4-Chloro-3-methylphenol	107	7.572	7.572	0.000	87	121556	4.00	3.89	
73 2-Methylnaphthalene	142	7.710	7.710	0.000	96	408734	4.00	3.80	
74 1-Methylnaphthalene	142	7.795	7.795	0.000	95	378339	4.00	3.76	
75 Hexachlorocyclopentadiene	237	7.847	7.852	-0.005	93	60535	4.00	3.89	
76 1,2,4,5-Tetrachlorobenzene	216	7.857	7.857	0.000	97	159245	4.00	3.63	
78 2,4,6-Trichlorophenol	196	7.943	7.947	-0.004	92	92942	4.00	3.67	
79 2,4,5-Trichlorophenol	196	7.981	7.985	-0.004	97	94839	4.00	4.28	
82 1,1'-Biphenyl	154	8.095	8.099	-0.004	95	448557	4.00	3.82	
83 2-Chloronaphthalene	162	8.119	8.123	-0.004	95	359792	4.00	3.86	
86 2-Nitroaniline	65	8.199	8.204	-0.005	87	98025	4.00	4.31	
88 Dimethyl phthalate	163	8.337	8.333	0.004	97	356904	4.00	3.66	
89 1,3-Dinitrobenzene	168	8.375	8.385	-0.010	81	53180	4.00	3.44	
90 2,6-Dinitrotoluene	165	8.394	8.390	0.004	90	86308	4.00	3.95	
92 Acenaphthylene	152	8.470	8.471	-0.001	97	506030	4.00	3.93	
93 3-Nitroaniline	138	8.542	8.551	-0.009	93	95535	4.00	3.80	
98 Acenaphthene	153	8.618	8.618	0.000	90	366245	4.00	3.92	
99 2,4-Dinitrophenol	184	8.632	8.642	-0.010	78	83970	8.00	7.13	
100 4-Nitrophenol	109	8.684	8.694	-0.010	90	58889	8.00	6.77	
103 2,4-Dinitrotoluene	165	8.737	8.737	0.000	92	110365	4.00	3.83	
105 Dibenzofuran	168	8.761	8.761	0.000	97	474715	4.00	3.77	
107 2,3,4,6-Tetrachlorophenol	232	8.865	8.870	-0.005	71	69912	4.00	3.52	
110 Diethyl phthalate	149	8.922	8.918	0.004	97	386978	4.00	4.17	
111 Hexadecane	57	8.922	8.927	-0.005	83	305787	4.00	5.46	
114 4-Chlorophenyl phenyl ethe	204	9.032	9.032	0.000	92	161239	4.00	3.59	
115 Fluorene	166	9.046	9.046	0.000	93	398282	4.00	3.95	
116 4-Nitroaniline	138	9.060	9.074	-0.014	80	106679	4.00	4.03	
117 4,6-Dinitro-2-methylphenol	198	9.089	9.098	-0.009	90	114789	8.00	7.34	
119 N-Nitrosodiphenylamine	169	9.127	9.127	0.000	65	283601	4.00	3.95	
118 Diphenylamine	169	9.127	9.136	-0.009	92	283601	3.40	3.36	
120 1,2-Diphenylhydrazine	77	9.165	9.170	-0.005	97	321653	4.00	4.47	
122 4-Bromophenyl phenyl ether	248	9.441	9.445	-0.004	64	134443	4.00	3.72	
123 Hexachlorobenzene	284	9.526	9.526	0.000	93	230652	4.00	3.86	
127 Pentachlorophenol	266	9.683	9.683	0.000	82	157527	8.00	6.93	
128 n-Octadecane	43	9.693	9.693	0.000	90	229853	4.00	5.85	
131 Phenanthrene	178	9.859	9.859	0.000	97	565331	4.00	3.99	
132 Anthracene	178	9.902	9.902	0.000	98	583725	4.00	3.99	
133 Carbazole	167	10.030	10.030	0.000	96	545465	4.00	4.06	
134 Di-n-butyl phthalate	149	10.282	10.282	0.000	99	661387	4.00	4.27	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
142 Fluoranthene	202	10.934	10.934	0.000	99	569101	4.00	3.90	
143 Benzidine	184	11.048	11.057	-0.009	96	345902	4.00	4.00	
145 Pyrene	202	11.186	11.181	0.005	95	597227	4.00	3.90	
148 Butyl benzyl phthalate	149	11.928	11.928	0.000	92	272093	4.00	3.87	
152 3,3'-Dichlorobenzidine	252	12.774	12.784	-0.010	97	298484	4.00	3.83	
154 Benzo[a]anthracene	228	12.831	12.827	0.004	98	594332	4.00	3.70	
153 Bis(2-ethylhexyl) phthalat	149	12.841	12.841	0.000	93	396495	4.00	3.93	
155 Chrysene	228	12.898	12.893	0.005	97	578716	4.00	3.70	
158 Di-n-octyl phthalate	149	14.158	14.163	-0.005	73	658351	4.00	3.95	
160 Benzo[b]fluoranthene	252	15.038	15.028	0.010	96	795039	4.00	3.92	
161 Benzo[k]fluoranthene	252	15.105	15.090	0.014	98	804777	4.00	3.95	
163 Benzo[a]pyrene	252	15.884	15.875	0.009	95	751040	4.00	3.90	
165 Indeno[1,2,3-cd]pyrene	276	19.199	19.185	0.014	96	995961	4.00	3.55	
166 Dibenz(a,h)anthracene	278	19.251	19.242	0.009	92	861033	4.00	3.72	
167 Benzo[g,h,i]perylene	276	19.760	19.746	0.014	93	764009	4.00	3.28	
S 174 Total Cresols, TCEQ Defini	1				0			6.66	
S 172 Methyl Phenols, Total	1				0			6.66	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL7_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm20.D

Injection Date: 21-Aug-2018 18:03:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul

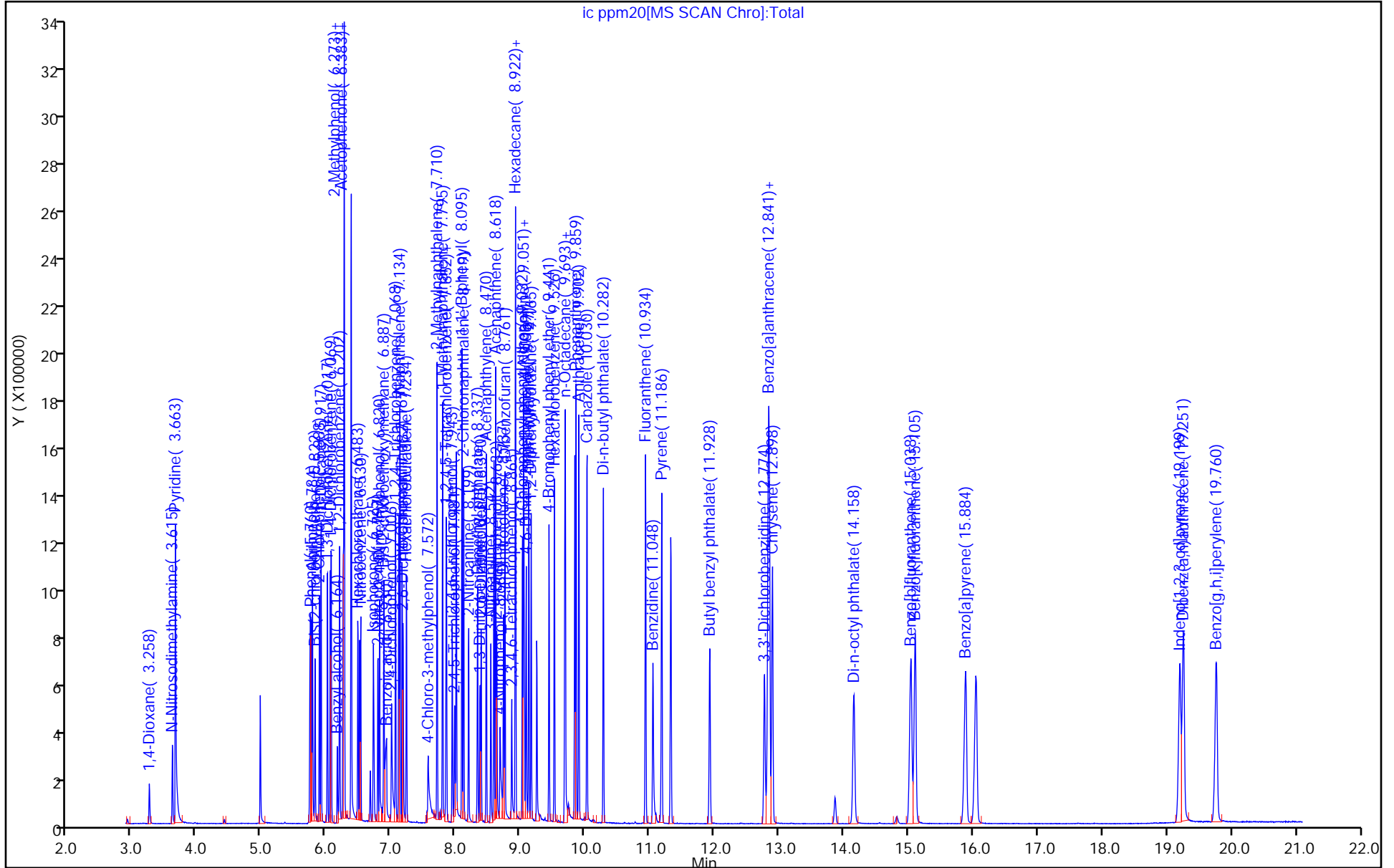
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

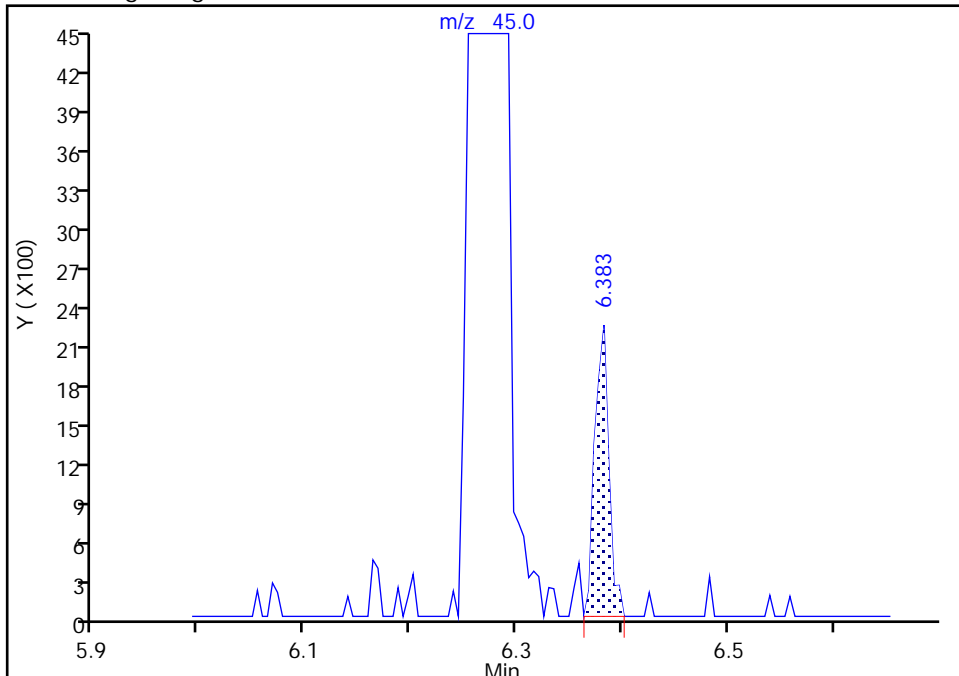
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Injection Date: 21-Aug-2018 18:03:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

41 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Signal: 1

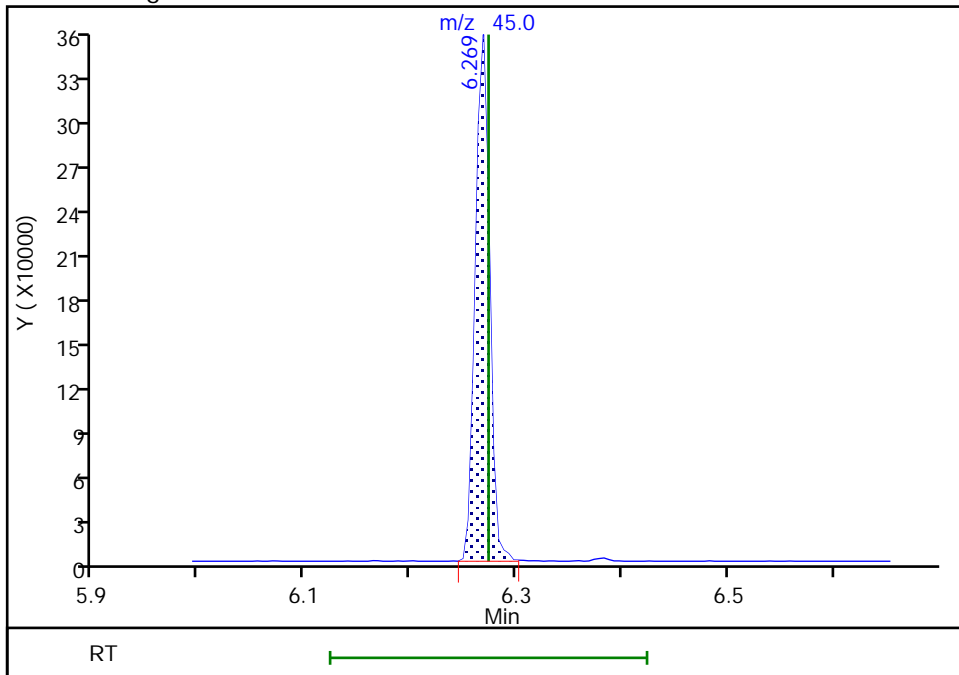
RT: 6.38
Area: 2040
Amount: 0.032954
Amount Units: ug/ml

Processing Integration Results



RT: 6.27
Area: 332571
Amount: 3.424321
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago

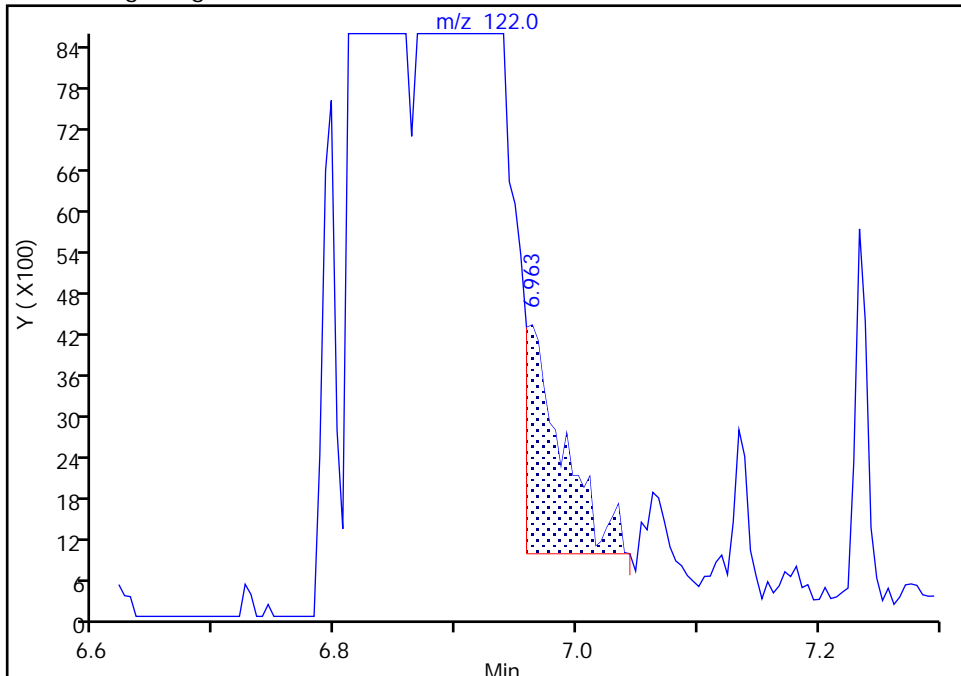
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Injection Date: 21-Aug-2018 18:03:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

58 Benzoic acid, CAS: 65-85-0

Signal: 1

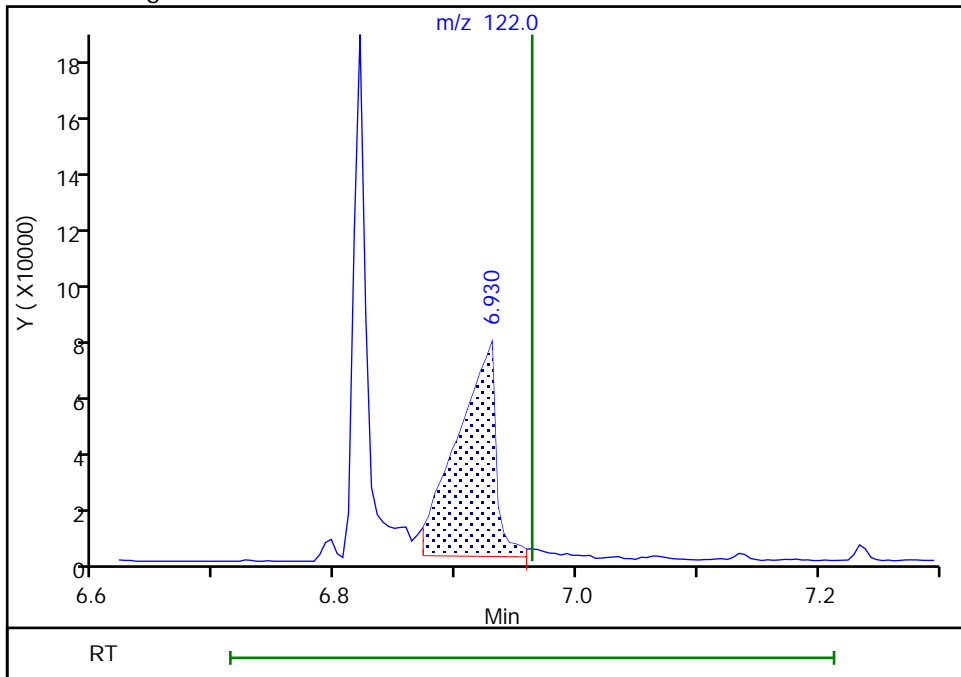
RT: 6.96
Area: 7203
Amount: 0.340260
Amount Units: ug/ml

Processing Integration Results



RT: 6.93
Area: 166238
Amount: 6.837529
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm40.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 8
 Inject. Date: 21-Aug-2018 18:32:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-009
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:48:47 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: rynkarg Date: 22-Aug-2018 17:48:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	94	123125	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	99	480665	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	96	239028	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	97	451429	3.20	3.20	
* 5 Chrysene-d12	240	12.860	12.860	0.000	99	537104	3.20	3.20	
* 6 Perylene-d12	264	16.051	16.051	0.000	98	667335	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.989	4.989	0.000	93	270946	8.00	7.94	
\$ 8 Phenol-d5	99	5.765	5.765	0.000	88	370911	8.00	7.63	
\$ 9 Nitrobenzene-d5	82	6.521	6.521	0.000	91	307955	8.00	8.60	
\$ 10 2-Fluorobiphenyl	172	8.009	8.009	0.000	99	816910	8.00	8.68	
\$ 11 2,4,6-Tribromophenol	330	9.255	9.255	0.000	57	281609	8.00	8.08	
\$ 12 Terphenyl-d14	244	11.329	11.329	0.000	96	1039926	8.00	7.97	
13 1,4-Dioxane	88	3.334	3.334	0.000	86	107734	8.00	7.92	
16 N-Nitrosodimethylamine	42	3.682	3.682	0.000	74	264812	8.00	8.51	
17 Pyridine	79	3.720	3.720	0.000	71	659420	16.0	17.6	
28 Phenol	94	5.774	5.774	0.000	94	435428	8.00	7.73	
29 Aniline	93	5.793	5.793	0.000	95	535457	8.00	8.08	
30 Bis(2-chloroethyl)ether	93	5.831	5.831	0.000	89	314714	8.00	7.91	
32 2-Chlorophenol	128	5.898	5.898	0.000	97	388308	8.00	8.36	
33 n-Decane	43	5.921	5.921	0.000	88	527773	8.00	8.58	
34 1,3-Dichlorobenzene	146	6.021	6.021	0.000	97	483885	8.00	8.32	
35 1,4-Dichlorobenzene	146	6.078	6.078	0.000	95	485765	8.00	8.18	
37 Benzyl alcohol	108	6.178	6.178	0.000	91	123777	8.00	7.97	
39 1,2-Dichlorobenzene	146	6.207	6.207	0.000	97	460086	8.00	8.22	
40 2-Methylphenol	107	6.259	6.259	0.000	94	310399	8.00	7.71	
41 2,2'-oxybis[1-chloropropan	45	6.273	6.273	0.000	90	768637	8.00	8.60	
42 Indene	116	6.283	6.283	0.000	89	1246353	16.0	16.8	
44 N-Nitrosodi-n-propylamine	70	6.387	6.387	0.000	76	224313	8.00	8.94	
43 3 & 4 Methylphenol	108	6.387	6.387	0.000	79	354991	8.00	8.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
45 Acetophenone	105	6.392	6.392	0.000	92	531691	8.00	8.92	
48 Hexachloroethane	117	6.487	6.487	0.000	96	183874	8.00	8.36	
49 Nitrobenzene	77	6.535	6.535	0.000	91	336846	8.00	8.67	
52 Isophorone	82	6.730	6.730	0.000	98	577760	8.00	8.54	
54 2-Nitrophenol	139	6.801	6.801	0.000	91	233662	8.00	8.63	
55 2,4-Dimethylphenol	122	6.825	6.825	0.000	91	307239	8.00	8.77	
57 Bis(2-chloroethoxy)methane	93	6.892	6.892	0.000	91	412209	8.00	8.71	
58 Benzoic acid	122	6.963	6.963	0.000	88	425573	16.0	15.9	
59 2,4-Dichlorophenol	162	7.010	7.010	0.000	95	329925	8.00	8.32	
61 1,2,4-Trichlorobenzene	180	7.072	7.072	0.000	94	380598	8.00	8.46	
62 Naphthalene	128	7.139	7.139	0.000	98	1241025	8.00	8.65	
63 4-Chloroaniline	127	7.172	7.172	0.000	97	526540	8.00	8.46	
64 2,6-Dichlorophenol	162	7.186	7.186	0.000	95	308773	8.00	8.22	
65 Hexachlorobutadiene	225	7.239	7.239	0.000	91	200315	8.00	8.33	
72 4-Chloro-3-methylphenol	107	7.572	7.572	0.000	88	266745	8.00	7.84	
73 2-Methylnaphthalene	142	7.714	7.714	0.000	95	895626	8.00	8.88	
74 1-Methylnaphthalene	142	7.800	7.800	0.000	94	845214	8.00	8.96	
75 Hexachlorocyclopentadiene	237	7.852	7.852	0.000	92	173466	8.00	8.35	
76 1,2,4,5-Tetrachlorobenzene	216	7.857	7.857	0.000	96	360084	8.00	8.46	
78 2,4,6-Trichlorophenol	196	7.947	7.947	0.000	92	208113	8.00	8.47	
79 2,4,5-Trichlorophenol	196	7.985	7.985	0.000	95	186746	8.00	7.40	
82 1,1'-Biphenyl	154	8.099	8.099	0.000	94	1038837	8.00	9.12	
83 2-Chloronaphthalene	162	8.123	8.123	0.000	94	826983	8.00	9.15	
86 2-Nitroaniline	65	8.204	8.204	0.000	88	206361	8.00	9.35	
88 Dimethyl phthalate	163	8.347	8.347	0.000	96	880274	8.00	9.30	
89 1,3-Dinitrobenzene	168	8.385	8.385	0.000	94	131720	8.00	8.79	
90 2,6-Dinitrotoluene	165	8.399	8.399	0.000	90	184942	8.00	8.71	
92 Acenaphthylene	152	8.475	8.475	0.000	97	1058969	8.00	8.46	
93 3-Nitroaniline	138	8.551	8.551	0.000	91	199448	8.00	8.18	
98 Acenaphthene	153	8.618	8.618	0.000	90	742027	8.00	8.18	
99 2,4-Dinitrophenol	184	8.642	8.642	0.000	83	227913	16.0	15.7	
100 4-Nitrophenol	109	8.694	8.694	0.000	82	144361	16.0	17.1	
103 2,4-Dinitrotoluene	165	8.746	8.746	0.000	92	249210	8.00	8.92	
105 Dibenzofuran	168	8.761	8.761	0.000	97	1012635	8.00	8.28	
107 2,3,4,6-Tetrachlorophenol	232	8.870	8.870	0.000	69	177172	8.00	9.18	
110 Diethyl phthalate	149	8.927	8.927	0.000	96	720481	8.00	8.01	
111 Hexadecane	57	8.927	8.927	0.000	67	384876	8.00	7.09	
114 4-Chlorophenyl phenyl ethe	204	9.032	9.032	0.000	87	361197	8.00	8.29	
115 Fluorene	166	9.051	9.051	0.000	92	814017	8.00	8.31	
116 4-Nitroaniline	138	9.074	9.074	0.000	85	214987	8.00	8.36	
117 4,6-Dinitro-2-methylphenol	198	9.098	9.098	0.000	83	271486	16.0	16.6	
119 N-Nitrosodiphenylamine	169	9.136	9.136	0.000	63	591337	8.00	7.88	
118 Diphenylamine	169	9.136	9.136	0.000	93	591337	6.80	6.71	
120 1,2-Diphenylhydrazine	77	9.170	9.170	0.000	98	545181	8.00	7.81	
122 4-Bromophenyl phenyl ether	248	9.445	9.445	0.000	59	301616	8.00	7.99	
123 Hexachlorobenzene	284	9.526	9.526	0.000	91	504010	8.00	8.06	
127 Pentachlorophenol	266	9.688	9.688	0.000	80	411187	16.0	17.3	
128 n-Octadecane	43	9.693	9.693	0.000	91	295386	8.00	7.19	
131 Phenanthrene	178	9.864	9.864	0.000	96	1182281	8.00	7.99	
132 Anthracene	178	9.907	9.907	0.000	98	1232196	8.00	8.06	
133 Carbazole	167	10.030	10.030	0.000	96	1106570	8.00	7.88	
134 Di-n-butyl phthalate	149	10.282	10.282	0.000	98	1265815	8.00	7.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
142 Fluoranthene	202	10.939	10.939	0.000	98	1208549	8.00	7.93	
143 Benzidine	184	11.053	11.053	0.000	96	730880	8.00	8.40	
145 Pyrene	202	11.191	11.191	0.000	95	1226236	8.00	7.97	
148 Butyl benzyl phthalate	149	11.932	11.932	0.000	92	580588	8.00	8.20	
152 3,3'-Dichlorobenzidine	252	12.784	12.784	0.000	97	642058	8.00	8.18	
154 Benzo[a]anthracene	228	12.841	12.841	0.000	98	1272366	8.00	7.87	
153 Bis(2-ethylhexyl) phthalat	149	12.846	12.846	0.000	93	829452	8.00	8.17	
155 Chrysene	228	12.907	12.907	0.000	97	1218981	8.00	7.76	
158 Di-n-octyl phthalate	149	14.163	14.163	0.000	73	1402509	8.00	8.04	
160 Benzo[b]fluoranthene	252	15.062	15.062	0.000	91	1647827	8.00	8.31	
161 Benzo[k]fluoranthene	252	15.128	15.128	0.000	98	1665028	8.00	8.35	
163 Benzo[a]pyrene	252	15.908	15.908	0.000	95	1583935	8.00	8.42	
165 Indeno[1,2,3-cd]pyrene	276	19.218	19.218	0.000	95	2112863	8.00	7.71	
166 Dibenz(a,h)anthracene	278	19.280	19.280	0.000	91	1787317	8.00	7.90	
167 Benzo[g,h,i]perylene	276	19.793	19.793	0.000	93	1746650	8.00	7.66	

Reagents:

SMLst1_5uLL8_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm40.D

Injection Date: 21-Aug-2018 18:32:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: icis

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

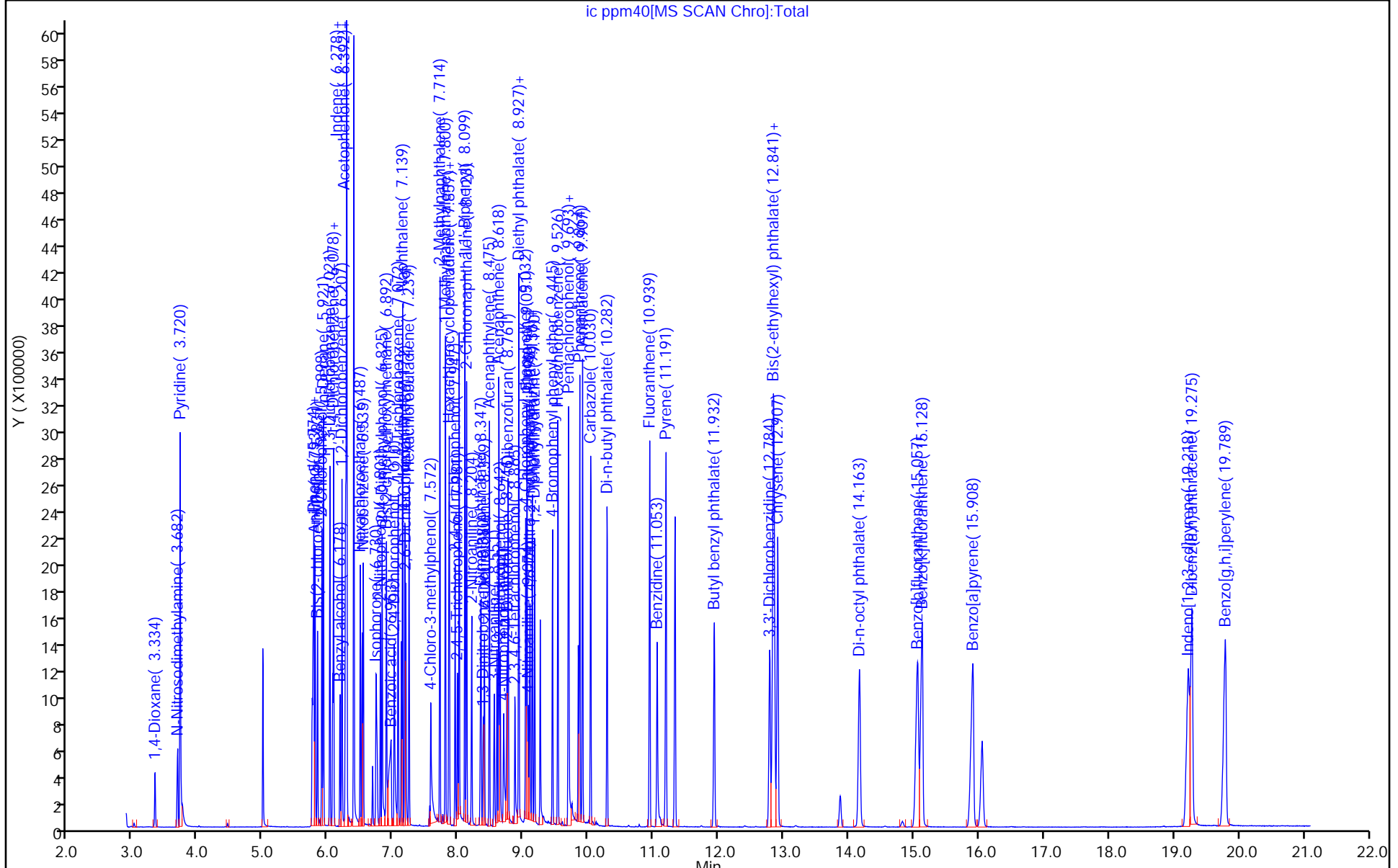
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm60.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 21-Aug-2018 19:31:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-011
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:39 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: rynkarg

Date: 22-Aug-2018 16:22:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	94	119109	3.20	3.20	
* 2 Naphthalene-d8	136	7.125	7.120	0.004	99	483791	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	93	227042	3.20	3.20	
* 4 Phenanthrene-d10	188	9.845	9.840	0.005	98	422459	3.20	3.20	
* 5 Chrysene-d12	240	12.864	12.860	0.004	98	520904	3.20	3.20	
* 6 Perylene-d12	264	16.055	16.051	0.004	98	609971	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.994	4.989	0.005	92	479823	12.0	12.5	
\$ 8 Phenol-d5	99	5.769	5.765	0.005	87	599626	12.0	12.6	
\$ 9 Nitrobenzene-d5	82	6.521	6.521	0.000	93	477620	12.0	13.3	
\$ 10 2-Fluorobiphenyl	172	8.014	8.009	0.005	99	1144481	12.0	12.8	
\$ 11 2,4,6-Tribromophenol	330	9.260	9.255	0.005	56	469351	12.0	14.2	
\$ 12 Terphenyl-d14	244	11.333	11.329	0.004	96	1623492	12.0	12.8	
13 1,4-Dioxane	88	3.334	3.334	0.000	89	189864	12.0	12.4	
16 N-Nitrosodimethylamine	42	3.691	3.682	0.009	75	405140	12.0	13.5	
17 Pyridine	79	3.724	3.720	0.004	74	986546	24.0	27.3	
28 Phenol	94	5.783	5.774	0.009	97	694738	12.0	12.3	
29 Aniline	93	5.798	5.793	0.005	96	875524	12.0	13.7	
30 Bis(2-chloroethyl)ether	93	5.836	5.831	0.005	92	500461	12.0	13.0	
32 2-Chlorophenol	128	5.902	5.898	0.004	96	617019	12.0	13.7	
33 n-Decane	43	5.926	5.921	0.005	89	771938	12.0	13.0	
34 1,3-Dichlorobenzene	146	6.026	6.021	0.005	97	758780	12.0	13.5	
35 1,4-Dichlorobenzene	146	6.078	6.078	0.000	96	783424	12.0	13.6	
37 Benzyl alcohol	108	6.183	6.178	0.005	89	252292	12.0	12.8	
39 1,2-Dichlorobenzene	146	6.211	6.207	0.004	97	738486	12.0	13.6	
40 2-Methylphenol	107	6.264	6.259	0.005	94	485630	12.0	12.3	
41 2,2'-oxybis[1-chloropropan	45	6.278	6.273	0.005	90	1058677	12.0	12.2	a
42 Indene	116	6.283	6.283	0.000	89	1833256	24.0	25.5	
44 N-Nitrosodi-n-propylamine	70	6.397	6.387	0.010	71	316833	12.0	13.0	
45 Acetophenone	105	6.397	6.392	0.005	84	755576	12.0	13.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
43 3 & 4 Methylphenol	108	6.397	6.387	0.010	69	518904	12.0	12.1	
48 Hexachloroethane	117	6.492	6.487	0.005	94	273859	12.0	12.9	
49 Nitrobenzene	77	6.540	6.535	0.005	93	497017	12.0	12.7	
52 Isophorone	82	6.739	6.730	0.009	98	884096	12.0	13.0	
54 2-Nitrophenol	139	6.801	6.801	0.000	91	365551	12.0	13.4	
55 2,4-Dimethylphenol	122	6.830	6.825	0.005	89	497571	12.0	14.1	
57 Bis(2-chloroethoxy)methane	93	6.896	6.892	0.004	93	610742	12.0	12.8	
58 Benzoic acid	122	6.991	6.963	0.028	88	701050	24.0	25.1	
59 2,4-Dichlorophenol	162	7.015	7.010	0.005	96	557443	12.0	14.0	
61 1,2,4-Trichlorobenzene	180	7.072	7.072	0.000	94	625611	12.0	13.8	
62 Naphthalene	128	7.144	7.139	0.005	99	1896731	12.0	13.1	
63 4-Chloroaniline	127	7.182	7.172	0.010	97	810382	12.0	12.9	
64 2,6-Dichlorophenol	162	7.191	7.186	0.005	96	514931	12.0	13.6	
65 Hexachlorobutadiene	225	7.239	7.239	0.000	91	343111	12.0	14.2	
72 4-Chloro-3-methylphenol	107	7.576	7.572	0.004	89	452576	12.0	12.6	
73 2-Methylnaphthalene	142	7.714	7.714	0.000	95	1329819	12.0	13.1	
74 1-Methylnaphthalene	142	7.800	7.800	0.000	95	1192321	12.0	12.6	
75 Hexachlorocyclopentadiene	237	7.852	7.852	0.000	90	282860	12.0	12.0	
76 1,2,4,5-Tetrachlorobenzene	216	7.862	7.857	0.005	95	504982	12.0	12.5	
78 2,4,6-Trichlorophenol	196	7.952	7.947	0.005	89	315205	12.0	13.5	
79 2,4,5-Trichlorophenol	196	7.985	7.985	0.000	94	361813	12.0	12.5	
82 1,1'-Biphenyl	154	8.099	8.099	0.000	93	1320968	12.0	12.2	
83 2-Chloronaphthalene	162	8.128	8.123	0.005	93	1091392	12.0	12.7	
86 2-Nitroaniline	65	8.209	8.204	0.005	91	241937	12.0	11.5	
88 Dimethyl phthalate	163	8.351	8.347	0.004	96	1158124	12.0	12.9	
89 1,3-Dinitrobenzene	168	8.389	8.385	0.004	94	194467	12.0	13.7	
90 2,6-Dinitrotoluene	165	8.404	8.399	0.005	90	285500	12.0	14.2	
92 Acenaphthylene	152	8.475	8.475	0.000	97	1529134	12.0	12.9	
93 3-Nitroaniline	138	8.556	8.551	0.005	90	309461	12.0	13.4	
98 Acenaphthene	153	8.623	8.618	0.005	90	1099702	12.0	12.8	
99 2,4-Dinitrophenol	184	8.646	8.642	0.004	84	363626	24.0	24.7	
100 4-Nitrophenol	109	8.703	8.694	0.009	85	218420	24.0	27.2	
103 2,4-Dinitrotoluene	165	8.751	8.746	0.005	93	376837	12.0	14.2	
105 Dibenzofuran	168	8.765	8.761	0.004	97	1512735	12.0	13.0	
107 2,3,4,6-Tetrachlorophenol	232	8.870	8.870	0.000	68	235116	12.0	12.8	
110 Diethyl phthalate	149	8.932	8.927	0.005	97	1065240	12.0	12.5	
111 Hexadecane	57	8.927	8.927	0.000	86	551279	12.0	10.7	
114 4-Chlorophenyl phenyl ethe	204	9.036	9.032	0.004	87	551190	12.0	13.3	
115 Fluorene	166	9.055	9.051	0.004	92	1208879	12.0	13.0	
116 4-Nitroaniline	138	9.084	9.074	0.010	84	320421	12.0	13.1	
117 4,6-Dinitro-2-methylphenol	198	9.108	9.098	0.010	82	411361	24.0	26.9	
119 N-Nitrosodiphenylamine	169	9.141	9.136	0.005	63	863934	12.0	12.3	
118 Diphenylamine	169	9.141	9.136	0.005	93	863934	10.2	10.5	
120 1,2-Diphenylhydrazine	77	9.174	9.170	0.004	97	835635	12.0	12.6	
122 4-Bromophenyl phenyl ether	248	9.450	9.445	0.005	59	452757	12.0	12.8	
123 Hexachlorobenzene	284	9.531	9.526	0.005	91	768517	12.0	13.1	
127 Pentachlorophenol	266	9.693	9.688	0.005	80	680551	24.0	30.6	
128 n-Octadecane	43	9.697	9.693	0.004	92	442793	12.0	11.5	
131 Phenanthrene	178	9.868	9.864	0.004	96	1745336	12.0	12.6	
132 Anthracene	178	9.911	9.907	0.004	98	1826051	12.0	12.8	
133 Carbazole	167	10.035	10.030	0.005	96	1612282	12.0	12.3	
134 Di-n-butyl phthalate	149	10.287	10.282	0.005	98	1898691	12.0	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
142 Fluoranthene	202	10.943	10.939	0.004	98	1801692	12.0	12.6	
143 Benzidine	184	11.057	11.053	0.004	96	1131748	12.0	13.4	
145 Pyrene	202	11.195	11.191	0.004	95	1848116	12.0	12.4	
148 Butyl benzyl phthalate	149	11.937	11.932	0.005	92	880091	12.0	12.8	
152 3,3'-Dichlorobenzidine	252	12.793	12.784	0.009	97	982393	12.0	12.9	
154 Benzo[a]anthracene	228	12.850	12.841	0.009	97	1922663	12.0	12.3	
153 Bis(2-ethylhexyl) phthalat	149	12.850	12.846	0.004	84	1248325	12.0	12.7	
155 Chrysene	228	12.922	12.907	0.015	97	1842617	12.0	12.1	
158 Di-n-octyl phthalate	149	14.172	14.163	0.009	73	2115726	12.0	13.0	
160 Benzo[b]fluoranthene	252	15.076	15.062	0.014	96	2485150	12.0	13.7	
161 Benzo[k]fluoranthene	252	15.147	15.128	0.019	98	2441434	12.0	13.4	
163 Benzo[a]pyrene	252	15.927	15.908	0.019	95	2329988	12.0	13.5	
165 Indeno[1,2,3-cd]pyrene	276	19.242	19.218	0.024	94	3264977	12.0	13.0	
166 Dibenz(a,h)anthracene	278	19.299	19.280	0.019	91	2775482	12.0	13.4	
167 Benzo[g,h,i]perylene	276	19.812	19.793	0.019	94	2628077	12.0	12.6	
S 174 Total Cresols, TCEQ Defini	1				0			24.4	
S 172 Methyl Phenols, Total	1				0			24.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL10_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm60.D

Injection Date: 21-Aug-2018 19:31:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 11

Client ID:

Injection Vol: 5.0 ul

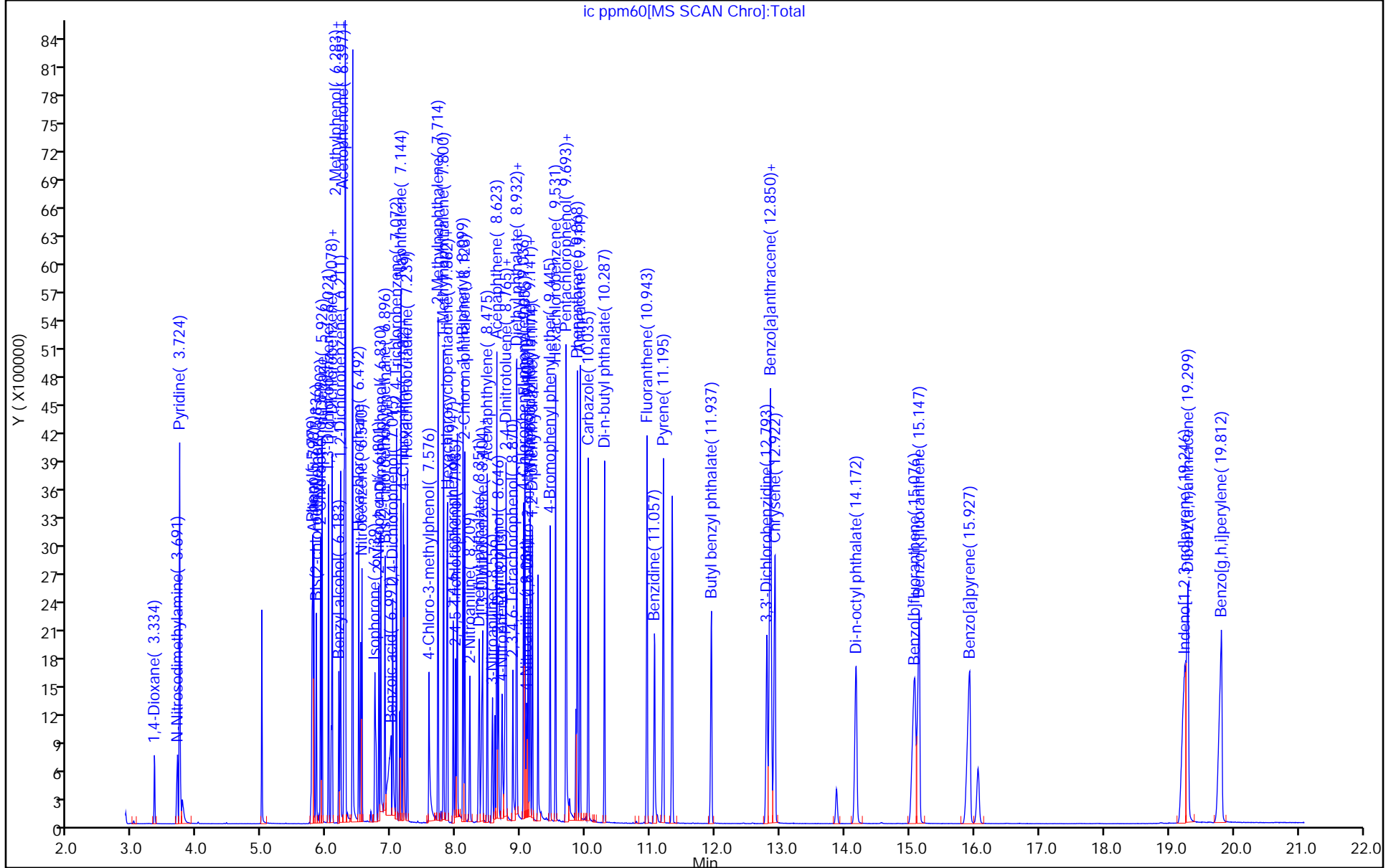
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

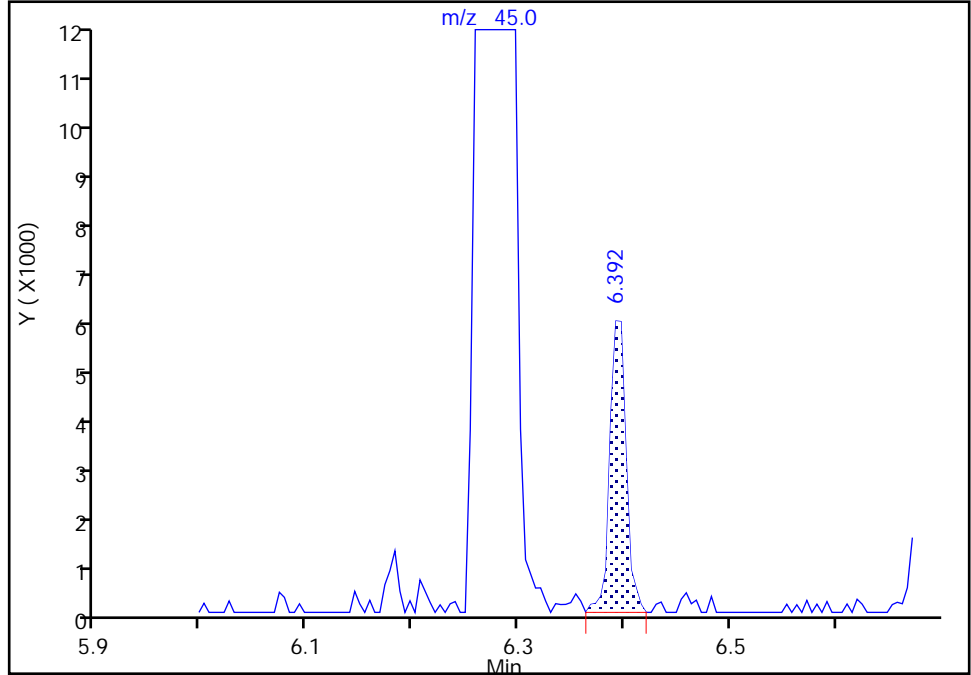
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Injection Date: 21-Aug-2018 19:31:30 Instrument ID: CMS11
Lims ID: ic
Client ID:
Operator ID: AD ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

41 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Signal: 1

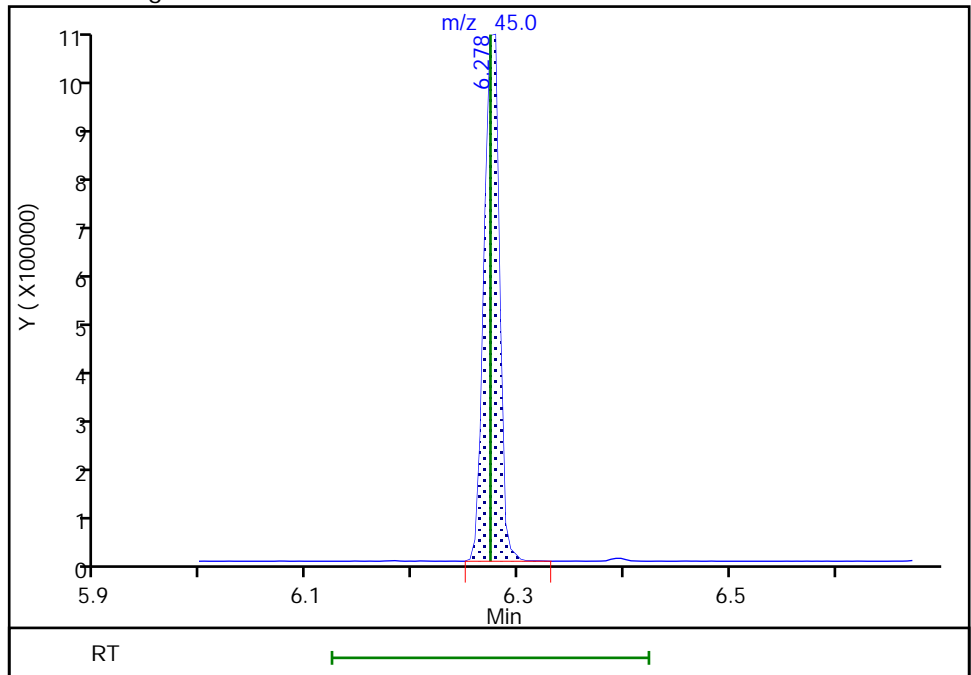
RT: 6.39
Area: 6194
Amount: 0.140323
Amount Units: ug/ml

Processing Integration Results



RT: 6.28
Area: 1058677
Amount: 12.245727
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 21-Aug-2018 20:00:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054540-012
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:47 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: rynkarg

Date: 22-Aug-2018 16:22:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.069	6.064	0.005	94	133590	3.20	3.20	
* 2 Naphthalene-d8	136	7.125	7.120	0.005	98	558800	3.20	3.20	
* 3 Acenaphthene-d10	164	8.594	8.589	0.005	95	264234	3.20	3.20	
* 4 Phenanthrene-d10	188	9.845	9.840	0.005	98	482044	3.20	3.20	
* 5 Chrysene-d12	240	12.869	12.860	0.009	99	590197	3.20	3.20	
* 6 Perylene-d12	264	16.060	16.051	0.009	99	678882	3.20	3.20	
\$ 7 2-Fluorophenol	112	4.994	4.989	0.005	93	617074	14.0	13.7	
\$ 8 Phenol-d5	99	5.774	5.765	0.010	88	777441	14.0	14.6	
\$ 9 Nitrobenzene-d5	82	6.525	6.521	0.004	92	641370	14.0	15.4	
\$ 10 2-Fluorobiphenyl	172	8.014	8.009	0.005	99	1656481	14.0	15.9	
\$ 11 2,4,6-Tribromophenol	330	9.260	9.255	0.005	56	630082	14.0	16.4	
\$ 12 Terphenyl-d14	244	11.338	11.329	0.009	96	2049064	14.0	14.3	
13 1,4-Dioxane	88	3.339	3.334	0.005	92	245558	14.0	13.8	
16 N-Nitrosodimethylamine	42	3.705	3.682	0.023	78	462179	14.0	13.7	
17 Pyridine	79	3.729	3.720	0.009	76	1274865	28.0	31.4	
28 Phenol	94	5.784	5.774	0.010	97	922147	14.0	14.5	
29 Aniline	93	5.803	5.793	0.010	96	1096621	14.0	15.3	
30 Bis(2-chloroethyl)ether	93	5.841	5.831	0.010	90	632201	14.0	14.6	
32 2-Chlorophenol	128	5.902	5.898	0.004	96	813906	14.0	16.1	
33 n-Decane	43	5.926	5.921	0.005	90	1037856	14.0	15.5	
34 1,3-Dichlorobenzene	146	6.026	6.021	0.005	97	959779	14.0	15.2	
35 1,4-Dichlorobenzene	146	6.083	6.078	0.005	96	1010918	14.0	15.7	
37 Benzyl alcohol	108	6.188	6.178	0.010	88	300026	14.0	13.3	
39 1,2-Dichlorobenzene	146	6.212	6.207	0.005	97	942446	14.0	15.5	
40 2-Methylphenol	107	6.264	6.259	0.005	94	654933	14.0	14.7	
41 2,2'-oxybis[1-chloropropan	45	6.278	6.273	0.005	90	1444933	14.0	14.9	
42 Indene	116	6.288	6.283	0.005	89	2361004	28.0	29.3	
43 3 & 4 Methylphenol	108	6.402	6.387	0.015	83	691665	14.0	14.4	
44 N-Nitrosodi-n-propylamine	70	6.402	6.387	0.015	76	419357	14.0	15.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
45 Acetophenone	105	6.397	6.392	0.005	89	994497	14.0	15.4	
48 Hexachloroethane	117	6.492	6.487	0.005	94	368749	14.0	15.4	
49 Nitrobenzene	77	6.544	6.535	0.009	92	666964	14.0	14.8	
52 Isophorone	82	6.744	6.730	0.014	98	1144214	14.0	14.5	
54 2-Nitrophenol	139	6.806	6.801	0.005	90	474457	14.0	15.1	
55 2,4-Dimethylphenol	122	6.835	6.825	0.010	89	635053	14.0	15.6	
57 Bis(2-chloroethoxy)methane	93	6.896	6.892	0.004	92	813181	14.0	14.8	
58 Benzoic acid	122	7.010	6.963	0.047	89	902588	28.0	27.8	
59 2,4-Dichlorophenol	162	7.015	7.010	0.005	95	731218	14.0	15.9	
61 1,2,4-Trichlorobenzene	180	7.072	7.072	0.000	93	823344	14.0	15.7	
62 Naphthalene	128	7.144	7.139	0.005	97	2481732	14.0	14.9	
63 4-Chloroaniline	127	7.182	7.172	0.010	97	1059712	14.0	14.6	
64 2,6-Dichlorophenol	162	7.196	7.186	0.010	97	678663	14.0	15.5	
65 Hexachlorobutadiene	225	7.244	7.239	0.005	90	440302	14.0	15.7	
72 4-Chloro-3-methylphenol	107	7.576	7.572	0.004	88	571431	14.0	13.7	
73 2-Methylnaphthalene	142	7.719	7.714	0.005	95	1696083	14.0	14.5	
74 1-Methylnaphthalene	142	7.805	7.800	0.005	95	1581325	14.0	14.4	
75 Hexachlorocyclopentadiene	237	7.852	7.852	0.000	93	411376	14.0	13.8	
76 1,2,4,5-Tetrachlorobenzene	216	7.862	7.857	0.005	95	738233	14.0	15.7	
78 2,4,6-Trichlorophenol	196	7.952	7.947	0.005	90	443051	14.0	16.3	
79 2,4,5-Trichlorophenol	196	7.990	7.985	0.005	95	488002	14.0	13.9	
82 1,1'-Biphenyl	154	8.104	8.099	0.005	93	1670077	14.0	13.3	
83 2-Chloronaphthalene	162	8.128	8.123	0.005	93	1366093	14.0	13.7	
86 2-Nitroaniline	65	8.209	8.204	0.005	90	307955	14.0	12.6	
88 Dimethyl phthalate	163	8.356	8.347	0.009	95	1493568	14.0	14.3	
89 1,3-Dinitrobenzene	168	8.394	8.385	0.009	91	249866	14.0	15.1	
90 2,6-Dinitrotoluene	165	8.409	8.399	0.010	90	360711	14.0	15.4	
92 Acenaphthylene	152	8.480	8.475	0.005	97	1953190	14.0	14.1	
93 3-Nitroaniline	138	8.561	8.551	0.010	92	388491	14.0	14.4	
98 Acenaphthene	153	8.627	8.618	0.009	90	1363389	14.0	13.6	
99 2,4-Dinitrophenol	184	8.656	8.642	0.014	83	488318	28.0	28.1	
100 4-Nitrophenol	109	8.713	8.694	0.019	79	256097	28.0	27.4	
103 2,4-Dinitrotoluene	165	8.761	8.746	0.015	93	474275	14.0	15.3	
105 Dibenzofuran	168	8.770	8.761	0.009	97	1898640	14.0	14.0	
107 2,3,4,6-Tetrachlorophenol	232	8.875	8.870	0.005	68	321332	14.0	15.1	
111 Hexadecane	57	8.932	8.927	0.005	85	693137	14.0	11.5	
110 Diethyl phthalate	149	8.936	8.927	0.009	97	1338744	14.0	13.5	
114 4-Chlorophenyl phenyl ethe	204	9.041	9.032	0.009	87	697481	14.0	14.5	
115 Fluorene	166	9.060	9.051	0.009	92	1539059	14.0	14.2	
116 4-Nitroaniline	138	9.093	9.074	0.019	84	407932	14.0	14.4	
117 4,6-Dinitro-2-methylphenol	198	9.112	9.098	0.014	82	537548	28.0	30.8	
118 Diphenylamine	169	9.141	9.136	0.005	93	1109515	11.9	11.8	
119 N-Nitrosodiphenylamine	169	9.141	9.136	0.005	63	1109515	14.0	13.8	
120 1,2-Diphenylhydrazine	77	9.174	9.170	0.004	97	1044499	14.0	13.5	
122 4-Bromophenyl phenyl ether	248	9.450	9.445	0.005	58	584747	14.0	14.5	
123 Hexachlorobenzene	284	9.536	9.526	0.010	91	964560	14.0	14.4	
127 Pentachlorophenol	266	9.693	9.688	0.005	80	726807	28.0	28.6	
128 n-Octadecane	43	9.697	9.693	0.004	91	563163	14.0	12.8	
131 Phenanthrene	178	9.873	9.864	0.009	96	2188277	14.0	13.8	
132 Anthracene	178	9.916	9.907	0.009	98	2285745	14.0	14.0	
133 Carbazole	167	10.040	10.030	0.010	96	2040882	14.0	13.6	
134 Di-n-butyl phthalate	149	10.287	10.282	0.005	98	2356381	14.0	13.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
142 Fluoranthene	202	10.948	10.939	0.009	98	2287969	14.0	14.1	
143 Benzidine	184	11.062	11.053	0.009	96	1423173	14.0	14.9	
145 Pyrene	202	11.200	11.191	0.009	95	2366852	14.0	14.0	
148 Butyl benzyl phthalate	149	11.942	11.932	0.010	92	1087031	14.0	14.0	
152 3,3'-Dichlorobenzidine	252	12.803	12.784	0.019	97	1238413	14.0	14.4	
154 Benzo[a]anthracene	228	12.850	12.841	0.009	98	2416280	14.0	13.6	
153 Bis(2-ethylhexyl) phthalat	149	12.850	12.846	0.004	90	1556508	14.0	14.0	
155 Chrysene	228	12.926	12.907	0.019	97	2346969	14.0	13.6	
158 Di-n-octyl phthalate	149	14.177	14.163	0.014	73	2646900	14.0	14.2	
160 Benzo[b]fluoranthene	252	15.095	15.062	0.033	97	3230689	14.0	16.0	
161 Benzo[k]fluoranthene	252	15.162	15.128	0.034	98	2880768	14.0	14.2	
163 Benzo[a]pyrene	252	15.941	15.908	0.033	95	2890519	14.0	15.1	
165 Indeno[1,2,3-cd]pyrene	276	19.266	19.218	0.048	96	4171010	14.0	15.0	
166 Dibenz(a,h)anthracene	278	19.308	19.280	0.028	88	3557030	14.0	15.5	
167 Benzo[g,h,i]perylene	276	19.822	19.793	0.029	93	3440398	14.0	14.8	
S 172 Methyl Phenols, Total	1				0			29.1	
S 174 Total Cresols, TCEQ Defini	1				0			29.1	

Reagents:

SMLst1_5uLL11_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D

Injection Date: 21-Aug-2018 20:00:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: ic

Worklist Smp#: 12

Client ID:

Injection Vol: 5.0 ul

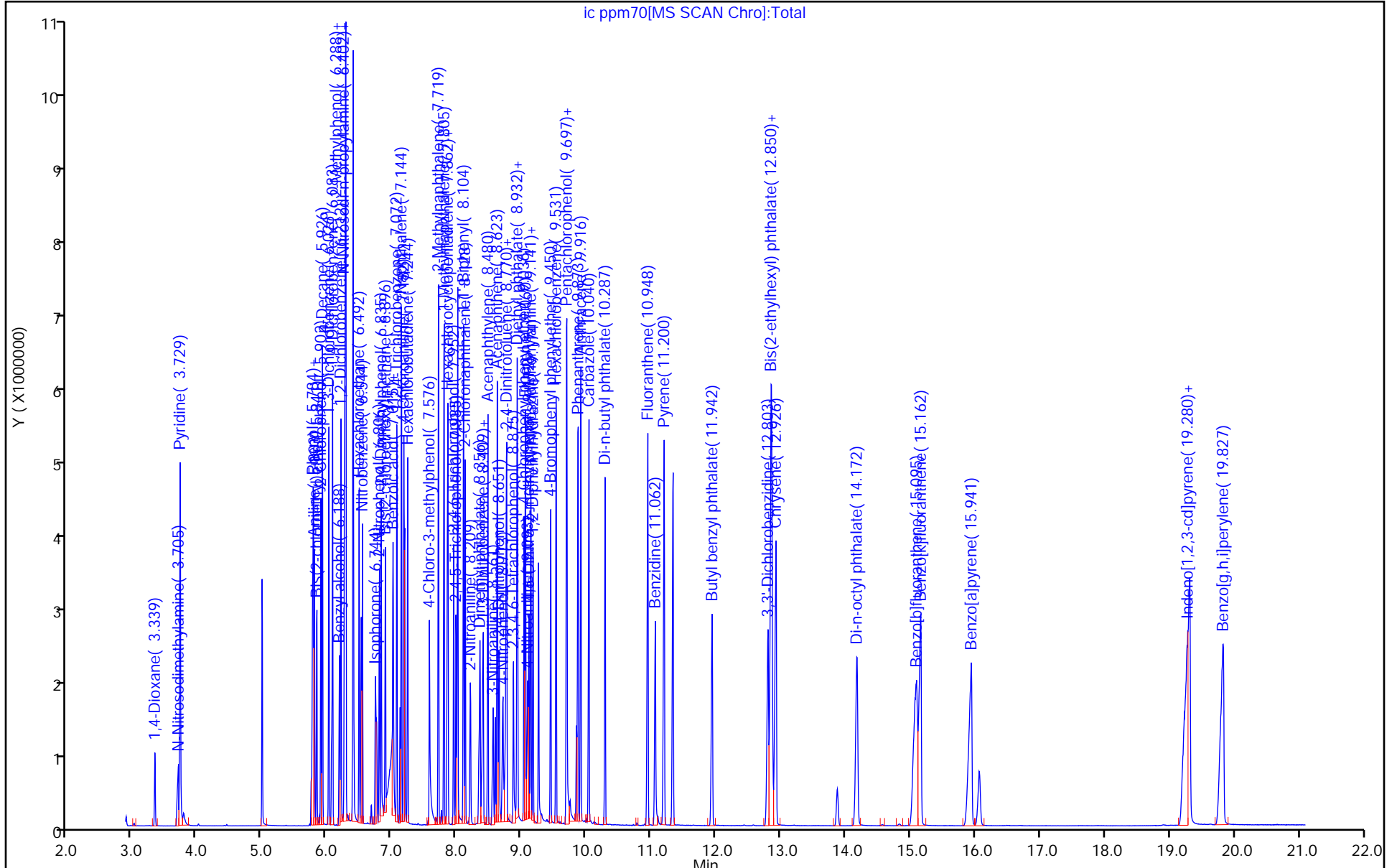
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-446627/3	24c0822d.d
Level 2	IC 500-446627/4	IC ppm05.d
Level 3	IC 500-446627/5	IC ppm1.d
Level 4	IC 500-446627/2	IC ppm2.d
Level 5	IC 500-446627/6	IC ppm5.d
Level 6	IC 500-446627/7	IC ppm10.d
Level 7	IC 500-446627/8	IC ppm20.d
Level 8	ICIS 500-446627/9	ICIS.d
Level 9	IC 500-446627/10	IC ppm50.d
Level 10	IC 500-446627/11	IC ppm60.d
Level 11	IC 500-446627/12	IC ppm70.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	LVL 9	LVL 10												
1,4-Dioxane	0.3899 0.4794	0.4071	0.4023	0.4284	0.3857 0.4698	Ave	0.4232			0.0100	8.9		20.0				
N-Nitrosodimethylamine	0.7624 0.8870	0.7631	0.8335	0.7249 0.8238	0.7854 0.9082	Ave	0.8110			0.0100	7.9		20.0				
Pyridine	1.0535 1.1533	1.1003	1.1963	1.1624	1.0000 1.2244	Ave	1.1272			0.0100	7.1		20.0				
Phenol	1.3485 1.4982	1.3225	1.4291	1.4048	1.3311 1.5370	Ave	1.4102			0.8000	5.9		20.0				
Aniline	1.6391 1.7623	1.5951	1.7198	1.6719	1.6647 1.8413	Ave	1.6992			0.0100	4.9		20.0				
Bis(2-chloroethyl)ether	1.0925 1.1527	1.0644	1.1303	1.1146 1.1062	1.1243 1.2041	Ave	1.1236			0.7000	3.7		20.0				
2-Chlorophenol	1.2950 1.4250	1.2867	1.3906	1.3514	1.2972 1.4686	Ave	1.3592			0.8000	5.3		20.0				
n-Decane	1.6059 1.4672	1.5315	1.6231 1.5629	1.6376 1.4855	1.6788 1.5803	Ave	1.5748			0.0100	4.5		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

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	LVL 9	LVL 10												
1,3-Dichlorobenzene	1.4533 1.5357	1.4197	1.5228	1.4536 1.4690	1.4942 1.5993	Ave		1.4935		0.0100	3.8		20.0				
1,4-Dichlorobenzene	1.4609 1.5123	1.4357	1.4949	1.4657 1.4499	1.5169 1.5862	Ave		1.4903		0.0100	3.3		20.0				
Benzyl alcohol	0.6426 0.7429	0.6599	0.7190	0.6956	0.6203 0.7601	Ave		0.6915		0.0100	7.6		20.0				
1,2-Dichlorobenzene	1.3943 1.4084	1.3385	1.4062	1.4082 1.3513	1.4325 1.4755	Ave		1.4019		0.0100	3.1		20.0				
2-Methylphenol	0.9127 0.9340	0.9006	0.9211	0.8736 0.9034	0.9269 0.9806	Ave		0.9191		0.7000	3.4		20.0				
2,2'-oxybis[1-chloropropane]	2.2537 1.9457	2.1264	2.1833	2.3618 2.0186	2.3636 2.1502	Ave		2.1754		0.0100	6.9		20.0				
Indene	1.7264 1.5782	1.6460	1.6640	1.5828	1.8154 1.6963	Ave		1.6727		0.0100	5.0		20.0				
3 & 4 Methylphenol	1.0732 1.0431	1.0325	1.0732	1.0204 1.0253	1.0902 1.1116	Ave		1.0587		0.6000	3.1		20.0				
N-Nitrosodi-n-propylamine	0.6786 0.6420	0.7436 0.6378	0.6846 0.6644	0.7003 0.6290	0.7120 0.6770	Ave		0.6769		0.5000	5.3		20.0				
Acetophenone	1.5497 1.4489	1.4834	1.6191 1.5048	1.5932 1.4325	1.6223 1.5514	Ave		1.5339		0.0100	4.6		20.0				
Hexachloroethane	0.5390 0.5443	0.5260	0.5454	0.5227	0.5639 0.5712	Ave		0.5446		0.3000	3.3		20.0				
Nitrobenzene	0.2766 0.2983	0.2735	0.2758 0.2920	0.2749 0.2822	0.2797 0.3170	Ave		0.2856		0.2000	5.1		20.0				
Isophorone	0.4728 0.5332	0.4749	0.5125	0.4678 0.5000	0.4907 0.5524	Ave		0.5005		0.4000	6.1		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

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	LVL 9	LVL 10												
2-Nitrophenol	0.1812 0.2075	0.1821	0.1970	0.1934	0.1835 0.2165	Ave		0.1945		0.1000	7.0		20.0				
2,4-Dimethylphenol	0.2702 0.3093	0.2528	0.2940	0.2854	0.2744 0.3205	Ave		0.2867		0.2000	8.2		20.0				
Bis(2-chloroethoxy)methane	0.3224 0.3551	0.3195	0.3422	0.3235 0.3337	0.3309 0.3686	Ave		0.3370		0.3000	5.1		20.0				
Benzoic acid	0.1468 0.2025	0.1602	0.1830	0.1856	0.1145 0.2112	Ave		0.1720		0.0100	19.7		20.0				
2,4-Dichlorophenol	0.2498 0.2809	0.2524	0.2684	0.2643	0.2520 0.2920	Ave		0.2657		0.2000	6.1		20.0				
1,2,4-Trichlorobenzene	0.2891 0.3128	0.2863	0.3051	0.2907 0.2964	0.2967 0.3291	Ave		0.3008		0.0100	4.8		20.0				
Naphthalene	0.9027 0.9244	0.8771	0.9273 0.9218	0.9128 0.8870	0.9434 0.9820	Ave		0.9198		0.7000	3.4		20.0				
4-Chloroaniline	0.3836 0.3992	0.3728	0.3977	0.3839	0.3431 0.4195	Ave		0.3857		0.0100	6.2		20.0				
2,6-Dichlorophenol	0.2467 0.2590	0.2388	0.2496	0.2430	0.2540 0.2720	Ave		0.2519		0.0100	4.4		20.0				
Hexachlorobutadiene	0.1479 0.1541	0.1432	0.1491	0.1466 0.1446	0.1538 0.1608	Ave		0.1500		0.0100	3.9		20.0				
4-Chloro-3-methylphenol	0.2396 0.2652	0.2397	0.2620	0.2506	0.2444 0.2801	Ave		0.2545		0.2000	6.0		20.0				
2-Methylnaphthalene	0.6291 0.7116	0.6386 0.6163	0.6310 0.6761	0.6252 0.6646	0.6532 0.7345	Ave		0.6580		0.4000	6.0		20.0				
1-Methylnaphthalene	0.5926 0.6538	0.5836	0.5974 0.6277	0.5966 0.6090	0.6141 0.6763	Ave		0.6168		0.0100	5.0		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

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	LVL 9	LVL 10												
Hexachlorocyclopentadiene	0.2418 0.3596	0.2675	0.3219	0.3262	+++++ 0.3695	Ave		0.3144		0.0500	16.1		20.0				
1,2,4,5-Tetrachlorobenzene	0.5531 0.6476	0.5590	0.6204	0.6132	0.5527 0.6924	Ave		0.6055		0.0100	8.9		20.0				
2,4,6-Trichlorophenol	0.3726 0.4130	0.3701	0.4027	0.3952	0.3698 0.4402	Ave		0.3948		0.2000	6.7		20.0				
2,4,5-Trichlorophenol	0.3835 0.4180	0.3796	0.4118	0.4088	0.4043 0.4510	Ave		0.4081		0.2000	5.8		20.0				
1,1'-Biphenyl	1.4997 1.6326	1.4740	1.6069	1.5671	1.5244 1.7303	Ave		1.5764		0.0100	5.6		20.0				
2-Chloronaphthalene	1.1499 1.1739	1.1167	1.1754	1.1517 1.1370	1.1761 1.2473	Ave		1.1660		0.8000	3.3		20.0				
2-Nitroaniline	0.3781 0.4608	0.3823	0.4262	0.4223	0.3754 0.4754	Ave		0.4172		0.0100	9.7		20.0				
Dimethyl phthalate	1.2831 1.4163	1.2572	1.3647	1.2994 1.3321	1.3388 1.4783	Ave		1.3462		0.0100	5.4		20.0				
m-Dinitrobenzene	0.2297 0.2579	0.2250	0.2472	0.2412	0.2275 0.2704	Ave		0.2427		0.0100	7.0		20.0				
2,6-Dinitrotoluene	0.3140 0.3416	0.2830 0.3032	0.3023 0.3317	0.3103 0.3222	0.3245 0.3582	Ave		0.3191		0.2000	6.7		20.0				
Acenaphthylene	1.7117 1.8983	1.6901	1.7287 1.8421	1.7112 1.8127	1.7367 2.0107	Ave		1.7936		0.9000	6.0		20.0				
3-Nitroaniline	0.3305 0.4003	0.3403	0.3807	0.3739	0.3096 0.4167	Ave		0.3646		0.0100	10.7		20.0				
Acenaphthene	1.1793 1.3646	1.2007	1.2245 1.3291	1.2030 1.3017	1.2221 1.4520	Ave		1.2752		0.9000	7.2		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

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	LVL 9	LVL 10												
2,4-Dinitrophenol	0.1802 0.2447	0.1932	0.2254	0.2258	0.1517 0.2548	Ave		0.2108		0.0100	17.6		20.0				
4-Nitrophenol	0.1577 0.1910	0.1513	0.1746	0.1779	0.1531 0.1982	Ave		0.1720		0.0100	10.8		20.0				
2,4-Dinitrotoluene	0.3992 0.4362	0.3914	0.3905 0.4257	0.3989 0.4130	0.4113 0.4585	Ave		0.4139		0.2000	5.5		20.0				
Dibenzofuran	1.5629 1.6861	1.5092	1.6207	1.6114 1.5894	1.6489 1.7775	Ave		1.6258		0.8000	5.0		20.0				
2,3,4,6-Tetrachlorophenol	0.3038 0.3688	0.3025	0.3403	0.3383	0.3059 0.3750	Ave		0.3335		0.0100	9.2		20.0				
Hexadecane	1.1298 1.0917	1.0907	1.1387	1.0724	1.1689 1.1667	Ave		1.1227		0.0100	3.4		20.0				
Diethyl phthalate	1.3045 1.3815	1.2748	1.3665	1.3259 1.3373	1.3365 1.4684	Ave		1.3494		0.0100	4.3		20.0				
4-Chlorophenyl phenyl ether	0.5931 0.6879	0.5734	0.6316	0.6204	0.6234 0.7042	Ave		0.6334		0.4000	7.5		20.0				
Fluorene	1.2585 1.3786	1.2221	1.3254 1.3326	1.2963 1.3065	1.3205 1.4581	Ave		1.3221		0.9000	5.1		20.0				
4-Nitroaniline	0.3475 0.3880	0.3428	0.3778	0.3689	0.3126 0.4115	Ave		0.3642		0.0100	9.0		20.0				
4,6-Dinitro-2-methylphenol	0.1242 0.1290	0.1200	0.1286	0.1248	0.1202 0.1363	Ave		0.1262		0.0100	4.5		20.0				
N-Nitrosodiphenylamine	0.4818 0.5102	0.4795	0.5169 0.5140	0.5038 0.4982	0.5035 0.5434	Ave		0.5057		0.0100	3.8		20.0				
Diphenylamine	0.5668 0.6002	0.5642	0.6047	0.5861	0.5923 0.6393	Ave		0.5934		0.0100	4.3		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Diphenylhydrazine	1.1272 1.2509	1.0798	1.1886	1.1809	1.1691 1.3112	Ave		1.1868		0.0100	6.4		20.0				
4-Bromophenyl phenyl ether	0.1911 0.2267	0.1890	0.2080	0.2070	0.1996 0.2293	Ave		0.2072		0.1000	7.7		20.0				
Hexachlorobenzene	0.2022 0.2402	0.2042 0.1999	0.2090 0.2194	0.2038 0.2176	0.2119 0.2459	Ave		0.2154		0.1000	7.4		20.0				
Pentachlorophenol	0.1172 0.1797	0.1255	0.1585	0.1624	++++ 0.1861	Ave		0.1549		0.0500	18.1		20.0				
n-Octadecane	0.4505 0.3706	0.4462	0.4444	0.4344 0.4075	0.4559 0.4271	Ave		0.4296		0.0100	6.6		20.0				
Phenanthrene	0.9898 1.1406	0.9942	1.0667 1.1011	1.0181 1.0754	1.0360 1.1861	Ave		1.0676		0.7000	6.2		20.0				
Anthracene	1.0351 1.1246	1.0088	1.0587 1.1095	1.0238 1.0758	1.0648 1.1856	Ave		1.0763		0.7000	5.2		20.0				
Carbazole	0.7250 0.9827	0.8047	0.9226	0.6800 0.8961	0.6555 1.0152	Ave		0.8352		0.0100	16.6		20.0				
Di-n-butyl phthalate	1.2264 1.3874	1.2156	1.3444	1.2040 1.3101	1.2718 1.4517	Ave		1.3014		0.0100	6.8		20.0				
Fluoranthene	1.1080 1.3987	1.1337	1.0338 1.3056	1.0409 1.2795	1.1155 1.4391	Ave		1.2061		0.6000	12.7		20.0				
Benzidine	++++ 0.7796	0.4950	0.6436	0.6644	++++ 0.7796	Ave		0.6724		0.0100	17.5		20.0				
Pyrene	1.2445 1.4601	1.2519	1.2335 1.3717	1.2393 1.3496	1.2899 1.5067	Ave		1.3275		0.6000	7.7		20.0				
Butyl benzyl phthalate	0.6382 0.8125	0.6535	0.7296	0.6155 0.7290	0.6463 0.8244	Ave		0.7061		0.0100	11.4		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

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	LVL 9	LVL 10												
3,3'-Dichlorobenzidine	0.3762 0.5701	0.4120	0.4943	0.5028	0.3643 0.5742	Ave		0.4706		0.0100	18.6		20.0				
Benzo[a]anthracene	1.3801 1.1751 1.3908	1.1849 1.1757	1.1969 1.3035	1.1672 1.2887	1.1957 1.4353	Ave		1.2631		0.8000	8.0		20.0				
Bis(2-ethylhexyl) phthalate	0.8656 1.0207	0.8768	0.9689	0.8503 0.9543	0.8817 1.0628	Ave		0.9351		0.0100	8.4		20.0				
Chrysene	1.1943 1.0404 1.0975	1.0762 1.0098	1.0963 1.0638	1.0844 1.0385	1.0920 1.1594	Ave		1.0866		0.7000	4.9		20.0				
Di-n-octyl phthalate	1.2891 1.7764	1.3732	1.6273	1.6299	1.2477 1.8280	Ave		1.5388		0.0100	15.3		20.0				
Benzo[b]fluoranthene	1.0727 1.1026 1.4511	1.0301 1.1134	1.0209 1.2157	1.0637 1.2462	1.1025 1.4522	Ave		1.1701		0.7000	13.3		20.0				
Benzo[k]fluoranthene	1.1405 1.1078 1.0056	1.0288 1.0650	1.0911 1.1497	1.0919 1.0724	1.1383 1.1195	Ave		1.0919		0.7000	4.2		20.0				
Benzo[a]pyrene	1.0062 1.0611 1.2181	0.9458 1.0597	0.9935 1.1606	1.0082 1.1439	1.0740 1.2751	Ave		1.0860		0.7000	9.4		20.0				
Indeno[1,2,3-cd]pyrene	1.1917 1.1957 1.3813	1.0632 1.2131	1.1048 1.3281	1.1289 1.3131	1.1890 1.4464	Ave		1.2323		0.5000	9.8		20.0				
Dibenz(a,h)anthracene	0.9531 0.9393 1.0491	0.8575 0.9505	0.9134 1.0273	0.9202 1.0049	0.9652 1.1026	Ave		0.9712		0.4000	7.2		20.0				
Benzo[g,h,i]perylene	0.9896 1.0275	0.9775	0.9513 1.0337	0.9610 1.0055	0.9964 1.0872	Ave		1.0033		0.5000	4.2		20.0				
2-Fluorophenol (Surr)	0.9355 1.2193	0.9214	0.8034 1.1173	0.8553 1.1408	0.9133 1.2469	Ave		1.0170		0.0100	16.2		20.0				
Phenol-d5 (Surr)	1.2154 1.3922	1.2430	0.9435 1.2948	1.0091 1.3045	1.1828 1.4312	Ave		1.2241		0.0100	13.2		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

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 11	LVL 7	LVL 8	LVL 9 LVL 10													
Nitrobenzene-d5 (Surr)	0.2553 0.2818	0.2550	0.2418 0.2658	0.2420 0.2694	0.2587 0.2900	Ave		0.2622		0.0100	6.3		20.0				
2-Fluorobiphenyl (Surr)	1.1870 1.2904	1.2052	1.1930 1.2546	1.1795 1.2362	1.2210 1.3624	Ave		1.2366		0.0100	4.8		20.0				
2,4,6-Tribromophenol (Surr)	0.1470 0.1877	0.1485	0.1378 0.1630	0.1443 0.1663	0.1560 0.1911	Ave		0.1602		0.0100	11.8		20.0				
Terphenyl-d14 (Surr)	0.8166 0.9562	0.8254	0.7764 0.8743	0.8140 0.8798	0.8439 0.9871	Ave		0.8638		0.0100	8.0		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-446627/3	24c0822d.d
Level 2	IC 500-446627/4	IC ppm05.d
Level 3	IC 500-446627/5	IC ppm1.d
Level 4	IC 500-446627/2	IC ppm2.d
Level 5	IC 500-446627/6	IC ppm5.d
Level 6	IC 500-446627/7	IC ppm10.d
Level 7	IC 500-446627/8	IC ppm20.d
Level 8	ICIS 500-446627/9	ICIS.d
Level 9	IC 500-446627/10	IC ppm50.d
Level 10	IC 500-446627/11	IC ppm60.d
Level 11	IC 500-446627/12	IC ppm70.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,4-Dioxane	DCBd 4	Ave	60437 445334	128519	217026	297378	27965 343732	2.00 14.0	4.00	8.00	10.0	1.00 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	118166 823986	240902	449695	22192 571795	56947 664466	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Pyridine	DCBd 4	Ave	326575 2142763	694696	1290830	1613737	145017 1791571	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Phenol	DCBd 4	Ave	209017 1391691	417485	771026	975111	96515 1124491	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Aniline	DCBd 4	Ave	254060 1637071	503541	927845	1160496	120703 1347134	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	169332 1070803	336005	609817	34123 767863	81523 880900	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	200732 1323683	406191	750235	938038	94055 1074458	2.00 14.0	4.00	8.00	10.0	1.00 12.0
n-Decane	DCBd 4	Ave	248918 1362931	483452	24590 843226	50134 1031139	121727 1156153	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,3-Dichlorobenzene	DCBd 4	Ave	225266 1426533	448169	821566	44502 1019650	108343 1170061	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
1,4-Dichlorobenzene	DCBd 4	Ave	226447 1404807	453211	806533	44871 1006418	109988 1160462	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	99601 690072	208309	387942	482818	44979 556058	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	216116 1308276	422522	758663	43111 937991	103867 1079511	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	141464 867666	284288	496932	26744 627072	67210 717428	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	349326 1807453	671242	1177921	72305 1401156	171381 1573074	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Indene	DCBd 4	Ave	535189 2932084	1039183	1795519	2197295	263263 2482056	4.00 28.0	8.00	16.0	20.0	2.00 24.0
3 & 4 Methylphenol	DCBd 4	Ave	166339 968941	325925	579014	31239 711687	79048 813220	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	105185 596343	5427 201350	10371 358485	21438 436616	51623 495295	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acetophenone	DCBd 4	Ave	240202 1345918	468265	24530 811897	48773 994340	117626 1135010	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	83547 505592	166035	294237	362781	40885 417922	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Nitrobenzene	NPT	Ave	170091 961844	328484	17215 575891	34556 702348	81550 815368	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Isophorone	NPT	Ave	290737 1719040	570410	1010763	58809 1244532	143067 1420772	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Nitrophenol	NPT	Ave	111411 669084	218709	388566	481437	53493 556697	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dimethylphenol	NPT	Ave	166121 997351	303691	579871	710477	80001 824306	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	198265 1144914	383715	674876	40666 830722	96484 948102	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Ave	180553 1305511	384920	721713	923999	66743 1086478	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dichlorophenol	NPT	Ave	153593 905626	303122	529449	657877	73473 751001	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4-Trichlorobenzene	NPT	Ave	177753 1008643	343876	601705	36546 737770	86497 846490	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	555059 2980462	1053517	57884 1818092	114744 2207877	275055 2525427	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	235878 1287207	447758	784423	955447	100048 1078986	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	151679 835135	286810	492375	604788	74047 699590	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Ave	90954 496774	171983	294123	18434 360023	44856 413426	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	147321 855046	287922	516815	623685	71259 720358	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Methylnaphthalene	NPT	Ave	386790 2294380	20322 740171	39391 1333538	78597 1654285	190467 1888896	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	364364 2107874	700946	37292 1238035	75001 1515817	179046 1739262	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Hexachlorocyclopentadiene	ANT	Ave	71094 511107	148351	281651	355438	++++ 413188	2.00 14.0	4.00	8.00	10.0	++++ 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	162623 920456	310040	542836	668310	78669 774264	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,6-Trichlorophenol	ANT	Ave	109550 587077	205253	352347	430679	52633 492240	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Ave	112764 594106	210548	360265	445455	57548 504341	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,1'-Biphenyl	ANT	Ave	440926 2320605	817478	1405867	1707838	216973 1934868	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	338087 1668576	619351	1028357	70759 1239117	167394 1394744	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	111175 654969	212048	372889	460189	53426 531634	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	377238 2013170	697253	1194015	79829 1451731	190555 1653061	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
m-Dinitrobenzene	ANT	Ave	67524 366596	124801	216300	262806	32377 302372	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Ave	92324 485598	4407 168140	9158 290176	19065 351080	46181 400548	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	503247 2698305	937335	52377 1611716	105133 1975483	247184 2248458	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
3-Nitroaniline	ANT	Ave	97181 568930	188744	333084	407468	44066 465973	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Acenaphthene	ANT	Ave	346720 1939697	665902	37100 1162806	73907 1418588	173946 1623686	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2,4-Dinitrophenol	ANT	Ave	105948 695703	214292	394336	492230	43173 569902	4.00 28.0	8.00	16.0	20.0	2.00 24.0
4-Nitrophenol	ANT	Ave	92734 543010	167827	305582	387751	43569 443168	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dinitrotoluene	ANT	Ave	117375 620074	217048	11832 372439	24505 450062	58547 512702	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	459509 2396620	837007	1417956	98997 1732131	234693 1987654	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	89320 524169	167759	297714	368638	43545 419386	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexadecane	ANT	Ave	332160 1551717	604930	996221	1168716	166367 1304674	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	383530 1963645	707005	1195556	81462 1457429	190223 1641958	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Ave	174366 977713	317994	552608	676152	88731 787430	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Fluorene	ANT	Ave	369995 1959588	677780	40158 1165927	79640 1423848	187951 1630477	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Nitroaniline	ANT	Ave	102175 551525	190147	330571	402065	44498 460193	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4,6-Dinitro-2-methylphenol	PHN	Ave	130771 677846	236483	405826	497329	61511 564030	4.00 28.0	8.00	16.0	20.0	2.00 24.0
N-Nitrosodiphenylamine	PHN	Ave	253620 1340044	472604	28966 810817	57119 992861	128829 1124312	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Diphenylamine	PHN	Ave	253620 1340044	472604	810817	992861	128829 1124312	1.70 11.9	3.40	6.80	8.50	0.850 10.2

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Diphenylhydrazine	ANT	Ave	331414 1777967	598885	1039901	1286956	166397 1466206	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Ave	100623 595462	186249	328022	412491	51062 474506	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Ave	106463 631006	5878 197041	11711 346049	23107 433668	54222 508805	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Pentachlorophenol	PHN	Ave	123389 944301	247285	500030	647109	+++++ 770063	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
n-Octadecane	PHN	Ave	237153 973581	439795	701031	49244 812129	116669 883671	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Phenanthrene	PHN	Ave	521050 2996124	979790	59773 1736911	115420 2143155	265104 2453943	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Anthracene	PHN	Ave	544884 2954040	994223	59323 1750155	116063 2143883	272473 2452941	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	381625 2581340	793108	1455314	77094 1785800	167739 2100344	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	645568 3644433	1197997	2120641	136498 2610946	325445 3003450	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Ave	583267 3674002	1117333	57928 2059396	117998 2549872	285441 2977493	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzidine	CRY	Ave	+++++ 1840116	438878	935589	1213179	+++++ 1465509	+++++ 14.0	4.00	8.00	10.0	+++++ 12.0
Pyrene	CRY	Ave	588409 3446454	1110071	59624 1993853	120519 2464456	292963 2832249	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	301751 1917726	579409	1060502	59859 1331233	146792 1549660	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 7	LVL 8	LVL 9	LVL 10	
3,3'-Dichlorobenzidine	CRY	Ave	177891 1345588	365342	718451	918056	82739 1079275	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	13325 555609 3282826	29413 1042503	57854 1894781	113508 2353149	271568 2697921	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	409245 2409211	777396	1408319	1742645	82689 200243 1997847	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	11531 491920 2590416	26714 895393	52990 1546368	105454 1896294	248002 2179363	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	678574 4666249	1353376	2566859	3248199	319272 3782105	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	9796 500572 3690719	24462 988249	46877 1835059	96999 2385245	237017 2888199	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[k]fluoranthene	PRY	Ave	10415 502893 2557482	24431 945254	50102 1735400	99566 2052660	244724 2226490	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	9189 481707 3098095	22461 940590	45622 1751925	91932 2189463	230893 2535899	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	10883 542810 3513156	25250 1076754	50730 2004714	102941 2513252	255616 2876648	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Ave	8704 426415 2668230	20364 843685	41941 1550711	83915 1923356	207512 2192809	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[g,h,i]perylene	PRY	Ave	449260 2613213	867635	43684 1560319	87630 1924536	214218 2162224	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol (Surr)	DCBd 4	Ave	144998 1132629	290860	12172 602813	26185 791873	66219 912217	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5 (Surr)	DCBd 4	Ave	188380 1293293	392373	14294 698580	30894 905494	85761 1047060	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Nitrobenzene-d5 (Surr)	NPT	Ave	156998 908732	306310	15097 524230	30423 670668	75425 745816	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl (Surr)	ANT	Ave	348988 1834182	668389	36146 1097677	72466 1347191	173783 1523504	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	43224 266805	82336	4174 142648	8865 181199	22203 213712	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14 (Surr)	CRY	Ave	386113 2256948	731867	37529 1270919	79163 1606491	191666 1855416	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-446627/3	24c0822d.d
Level 2	IC 500-446627/4	IC ppm05.d
Level 3	IC 500-446627/5	IC ppm1.d
Level 4	IC 500-446627/2	IC ppm2.d
Level 5	IC 500-446627/6	IC ppm5.d
Level 6	IC 500-446627/7	IC ppm10.d
Level 7	IC 500-446627/8	IC ppm20.d
Level 8	ICIS 500-446627/9	ICIS.d
Level 9	IC 500-446627/10	IC ppm50.d
Level 10	IC 500-446627/11	IC ppm60.d
Level 11	IC 500-446627/12	IC ppm70.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
1,4-Dioxane	-3.8	-5.0	1.2	11.0	-8.9	-7.9					50	30
N-Nitrosodimethylamine					13.3		30	30	30	30	30	30
Pyridine	-5.9	2.8	1.6	-10.6	-3.2	-6.0	30	30	30	50	30	30
Phenol				12.0	9.4					30	30	
Aniline	-2.4	6.1	3.1	8.6	-11.3	-6.5	30	30	30	30	50	30
Bis(2-chloroethyl)ether					2.3					30	30	
2-Chlorophenol	-6.2	1.3	-0.4	9.0	-5.6	-4.4	30	30	30	30	50	30
n-Decane					6.2					30	30	
1,3-Dichlorobenzene	-6.1	1.2	-1.6	8.4	-2.0	-3.5	30	30	30	30	50	30
1,4-Dichlorobenzene					3.7					30	30	
Benzyl alcohol	-5.3	0.6	-1.5	-0.8	0.1	-2.8	30	30	30	50	30	30
1,2-Dichlorobenzene					2.6					30	30	
2-Methylphenol	-4.9	2.0	-1.6	-2.7	-4.6	-4.7	30	30	30	30	50	30
					4.8					30	30	
	-2.7	-0.8	-5.7	4.0	6.6	2.0	30	30	30	30	50	30
				0.4	-6.8					30	30	
	-4.6	4.0	0.6	9.9	-10.3	-7.1	30	30	30	30	50	30
					7.4					30	30	
	-4.5	0.3	-3.6	0.5	2.2	-0.5	30	30	30	30	50	30
				5.3	0.5					30	30	
	-2.0	0.2	-1.7	-5.0	0.9	-0.7	30	30	30	30	50	30
				6.7	1.6					30	30	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627
 SDG No.: _____
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
2,2'-oxybis[1-chloropropane]	-2.3	0.4	-7.2	8.6	8.7	3.6	30	30	30	50	30	30
Indene	-1.6	-0.5	-5.4	1.4	8.5	3.2	30	30	30	30	50	30
3 & 4 Methylphenol	-2.5	1.4	-3.2	-3.6	3.0	1.4	30	30	30	50	30	30
N-Nitrosodi-n-propylamine	9.8	1.1	3.4	5.2	0.2		30	50	30	30	30	30
Acetophenone	-5.8	-1.8	-7.1	0.0	-5.2		30	30	30	30	30	30
Hexachloroethane	5.6	3.9	5.8	1.0			30	30	50	30	30	30
Nitrobenzene	-3.3	-1.9	-6.6	1.1	-5.5	-1.0	30	30	30	30	50	30
Isophorone	-3.4	0.1	-4.0	4.9	-0.1		30	30	30	30	30	30
2-Nitrophenol	-4.2	2.2	-1.2	11.0	4.5	-3.1	30	30	30	30	30	30
2,4-Dimethylphenol	-4.2	2.2	-1.2	11.0	4.5	-3.1	30	30	30	30	30	30
Bis(2-chloroethoxy)methane	-5.1	2.4	-0.1	10.4	6.5	-5.5	30	30	30	30	50	30
Benzoic acid	-6.4	1.3	-0.5	11.3	6.7	-6.8	30	30	30	30	50	30
2,4-Dichlorophenol	-11.8	2.6	-0.4	11.8	7.9	-5.8	30	30	30	30	50	30
1,2,4-Trichlorobenzene	-5.2	1.5	-1.0	9.4	5.4	-4.3	30	30	30	30	50	30
Naphthalene	-6.8	6.4	7.9	22.8	-33.4	-14.6	30	30	30	30	50	30
4-Chloroaniline	-5.0	1.0	-0.5	9.9	5.7	-6.0	30	30	30	30	50	30
2,6-Dichlorophenol	-4.8	1.4	-1.5	9.4	4.0	-3.9	30	30	30	30	50	30
Hexachlorobutadiene	-4.6	0.2	-3.6	6.8	0.5	-1.9	30	30	30	30	50	30
1-Methylnaphthalene	-3.3	3.1	-0.5	8.8	-11.0	-0.5	30	30	30	30	50	30
4-Chloro-3-methylphenol	-3.3	3.1	-0.5	8.8	3.5	-0.5	30	30	30	30	50	30
2-Methylnaphthalene	-5.2	-0.9	-3.5	8.0	0.8	-2.1	30	30	30	30	50	30
1-Methylnaphthalene	-5.2	-0.9	-3.5	8.0	2.8	-2.1	30	30	30	30	50	30
	-4.6	-0.6	-3.6	7.2	2.5	-1.4	30	30	30	30	50	30
	-4.6	-0.6	-3.6	7.2	2.7	-1.4	30	30	30	30	50	30
	-5.8	3.0	-1.5	10.1	-4.0	-5.9	30	30	30	30	50	30
	-5.8	3.0	-1.5	10.1	4.2	-5.9	30	30	30	30	50	30
	-2.9	-4.1	-5.0	-0.7	-4.4		30	50	30	30	30	30
	-6.3	2.7	1.0	11.6	8.1		30	30	30	30	30	30
	-3.1	-3.3	-0.4	-3.9			30	30	50	30	30	30
	-5.4	1.8	-1.3	9.6	6.0		30	30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627
 SDG No.: _____
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Hexachlorocyclopentadiene	-14.9	2.4	3.7	17.5	++++ 14.4	-23.1	30	30	30	30	30	50
1,2,4,5-Tetrachlorobenzene	-7.7	2.5	1.3	14.4	-8.7 6.9	-8.6	30	30	30	30	50	30
2,4,6-Trichlorophenol	-6.3	2.0	0.1	11.5	-6.3 4.6	-5.6	30	30	30	30	50	30
2,4,5-Trichlorophenol	-7.0	0.9	0.1	10.5	-0.9 2.4	-6.0	30	30	30	30	50	30
1,1'-Biphenyl	-6.5	1.9	-0.6	9.8	-3.3 3.6	-4.9	30	30	30	30	50	30
2-Chloronaphthalene	-4.2	0.8	-2.5	-1.2 7.0	0.9 0.7	-1.4	30	30	30	50	30	30
2-Nitroaniline	-8.4	2.2	1.2	14.0	-10.0 10.4	-9.4	30	30	30	30	50	30
Dimethyl phthalate	-6.6	1.4	-1.0	-3.5 9.8	-0.6 5.2	-4.7	30	30	30	50	30	30
m-Dinitrobenzene	-7.3	1.9	-0.6	11.4	-6.3 6.3	-5.4	30	30	30	30	50	30
2,6-Dinitrotoluene	-5.0	-11.3 3.9	-5.3 1.0	-2.7 12.3	1.7 7.1	-1.6	30	50 30	30	30	30	30
Acenaphthylene	-5.8	2.7	-3.6 1.1	-4.6 12.1	-3.2 5.8	-4.6	30	30	50	30	30	30
3-Nitroaniline	-6.7	4.4	2.6	14.3	-15.1 9.8	-9.3	30	30	30	30	50	30
Acenaphthene	-5.8	4.2	-4.0 2.1	-5.7 13.9	-4.2 7.0	-7.5	30	30	50	30	30	30
2,4-Dinitrophenol	-8.4	6.9	7.1	20.9	-28.1 16.1	-14.5	30	30	30	30	50	30
4-Nitrophenol	-12.0	1.6	3.5	15.2	-11.0 11.1	-8.3	30	30	30	30	50	30
2,4-Dinitrotoluene	-5.4	2.9	-5.6 -0.2	-3.6 10.8	-0.6 5.4	-3.5	30	30	50	30	30	30
Dibenzofuran	-7.2	-0.3	-2.2	-0.9 9.3	1.4 3.7	-3.9	30	30	30	50	30	30
2,3,4,6-Tetrachlorophenol	-9.3	2.0	1.4	12.5	-8.3 10.6	-8.9	30	30	30	30	50	30
Hexadecane	-2.8	1.4	-4.5	3.9	4.1 -2.8	0.6	30	30	30	30	50	30
Diethyl phthalate	-5.5	1.3	-0.9	-1.7 8.8	-1.0 2.4	-3.3	30	30	30	50	30	30
4-Chlorophenyl phenyl ether	-9.5	-0.3	-2.0	11.2	-1.6 8.6	-6.4	30	30	30	30	50	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627
 SDG No.: _____
 Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Fluorene	-7.6	0.8	0.3	-2.0	-0.1	-4.8	30	30	50	30	30	30
4-Nitroaniline	-5.9	3.7	-1.2	10.3	4.3	-4.6	30	30	30	30	50	30
4,6-Dinitro-2-methylphenol	-4.9	2.0	1.3	13.0	-14.2	-4.7	30	30	30	30	50	30
N-Nitrosodiphenylamine	-4.9	2.0	-1.1	8.0	2.3	-1.5	30	30	30	30	50	30
Diphenylamine	-5.2	1.6	2.2	-0.4	-0.4	-4.7	30	30	50	30	30	30
1,2-Diphenylhydrazine	-4.9	1.9	-1.5	7.5	0.9	-4.5	30	30	30	30	50	30
1,2-Diphenylhydrazine	-4.9	1.9	-1.2	7.7	1.1	-4.5	30	30	30	30	50	30
4-Bromophenyl phenyl ether	-9.0	0.1	-0.5	10.5	-1.5	-5.0	30	30	30	30	50	30
Hexachlorobenzene	-8.8	0.3	-0.1	10.7	9.4	-7.8	30	30	30	30	50	30
Hexachlorobenzene	-7.2	-5.2	-3.0	-5.4	-1.6	-6.1	30	50	30	30	30	30
Pentachlorophenol	-7.2	1.8	1.0	14.2	11.5	-24.3	30	30	30	30	50	30
Pentachlorophenol	-19.0	2.3	4.8	20.1	16.0	++++	30	30	30	30	50	30
n-Octadecane	3.9	3.5	-5.1	1.1	6.1	4.9	30	30	30	50	30	30
Phenanthrene	3.9	3.5	-5.1	-0.6	-13.7	4.9	30	30	30	30	50	30
Phenanthrene	-6.9	3.1	-0.1	-4.6	-3.0	-7.3	30	30	50	30	30	30
Anthracene	-6.9	3.1	0.7	11.1	6.8	-7.3	30	30	30	30	50	30
Anthracene	-6.3	3.1	-1.6	-4.9	-1.1	-3.8	30	30	50	30	30	30
Carbazole	-6.3	3.1	-0.1	10.2	4.5	-3.8	30	30	30	30	50	30
Carbazole	-3.7	10.5	7.3	-18.6	-21.5	-13.2	30	30	30	30	50	30
Di-n-butyl phthalate	-3.7	10.5	7.3	21.5	17.7	-13.2	30	30	30	30	50	30
Di-n-butyl phthalate	-6.6	3.3	0.7	-7.5	-2.3	-5.8	30	30	50	30	30	30
Fluoranthene	-6.6	3.3	0.7	11.5	6.6	-5.8	30	30	30	30	50	30
Fluoranthene	-6.0	8.3	-14.3	-13.7	-7.5	-8.1	30	30	50	30	30	30
Benzidine	-6.0	8.3	6.1	19.3	16.0	-8.1	30	30	30	30	50	30
Benzidine	-26.4	-4.3	-1.2	15.9	15.9	++++	50	30	30	30	30	30
Pyrene	-26.4	-4.3	-1.2	15.9	15.9	++++	50	30	30	30	30	30
Pyrene	-5.7	3.3	-7.1	-6.6	-2.8	-6.3	30	30	50	30	30	30
Butyl benzyl phthalate	-5.7	3.3	1.7	13.5	10.0	-6.3	30	30	30	30	50	30
Butyl benzyl phthalate	-7.5	3.3	-12.8	-8.5	-9.6	-9.6	30	30	50	30	30	30
3,3'-Dichlorobenzidine	-7.5	3.3	3.2	16.8	15.1	-9.6	30	30	30	30	50	30
3,3'-Dichlorobenzidine	-12.4	5.0	6.8	22.0	21.2	-20.0	30	30	30	30	50	30
Benzo[a]anthracene	-12.4	5.0	6.8	22.0	21.2	-20.0	30	30	30	30	50	30
Benzo[a]anthracene	9.3	-6.2	-5.2	-7.6	-5.3	-7.0	50	30	30	30	30	30
Benzo[a]anthracene	-6.9	3.2	2.0	13.6	10.1	-7.0	30	30	30	30	50	30
Bis(2-ethylhexyl) phthalate	-6.9	3.2	2.0	13.6	10.1	-7.0	30	30	30	30	50	30
Bis(2-ethylhexyl) phthalate	-6.2	3.6	2.1	-9.1	-5.7	-7.4	30	30	30	30	50	30
Bis(2-ethylhexyl) phthalate	-6.2	3.6	2.1	13.7	9.2	-7.4	30	30	30	30	50	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 446627

SDG No.: _____

Instrument ID: CMS24 GC Column: Rxi-5ms ID: 0.5 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2018 19:26 Calibration End Date: 08/22/2018 23:43 Calibration ID: 29843

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Chrysene	9.9	-1.0	0.9	-0.2	0.5	-4.3	50	30	30	30	30	30
	-7.1	-2.1	-4.4	6.7	1.0		30	30	30	30	30	
Di-n-octyl phthalate					-18.9	-16.2						50
	-10.8	5.8	5.9	18.8	15.4		30	30	30	30	30	30
Benzo[b]fluoranthene	-8.3	-12.0	-12.8	-9.1	-5.8	-5.8	50	30	30	30	30	30
	-4.8	3.9	6.5	24.1	24.0		30	30	30	30	30	
Benzo[k]fluoranthene	4.5	-5.8	-0.1	0.0	4.3	1.5	50	30	30	30	30	30
	-2.5	5.3	-1.8	2.5	-7.9		30	30	30	30	30	
Benzo[a]pyrene	-7.3	-12.9	-8.5	-7.2	-1.1	-2.3	50	30	30	30	30	30
	-2.4	6.9	5.3	17.4	12.2		30	30	30	30	30	
Indeno[1,2,3-cd]pyrene	-3.3	-13.7	-10.3	-8.4	-3.5	-3.0	50	30	30	30	30	30
	-1.6	7.8	6.6	17.4	12.1		30	30	30	30	30	
Dibenz(a,h)anthracene	-1.9	-11.7	-6.0	-5.2	-0.6	-3.3	50	30	30	30	30	30
	-2.1	5.8	3.5	13.5	8.0		30	30	30	30	30	
Benzo[g,h,i]perylene			-5.2	-4.2	-0.7	-1.4			50	30	30	30
	-2.6	3.0	0.2	8.4	2.4		30	30	30	30	30	
2-Fluorophenol (Surr)			-21.0	-15.9	-10.2	-8.0			50	30	30	30
	-9.4	9.9	12.2	22.6	19.9		30	30	30	30	30	
Phenol-d5 (Surr)			-22.9	-17.6	-3.4	-0.7			50	30	30	30
	1.5	5.8	6.6	16.9	13.7		30	30	30	30	30	
Nitrobenzene-d5 (Surr)			-7.8	-7.7	-1.3	-2.6			50	30	30	30
	-2.7	1.4	2.8	10.6	7.5		30	30	30	30	30	
2-Fluorobiphenyl (Surr)			-3.5	-4.6	-1.3	-4.0			50	30	30	30
	-2.5	1.5	0.0	10.2	4.4		30	30	30	30	30	
2,4,6-Tribromophenol (Surr)			-14.0	-9.9	-2.6	-8.2			50	30	30	30
	-7.3	1.8	3.8	19.3	17.2		30	30	30	30	30	
Terphenyl-d14 (Surr)			-10.1	-5.8	-2.3	-5.5			50	30	30	30
	-4.4	1.2	1.9	14.3	10.7		30	30	30	30	30	

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm2.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 22-Aug-2018 19:52:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ccvl ppm02
 Misc. Info.: 500-0054563-010
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:21 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: swaneyg

Date: 22-Aug-2018 20:33:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	244913	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	1005644	3.20	3.20	
* 4 Acenaphthene-d10	164	8.754	8.758	-0.004	97	491497	3.20	3.20	
* 5 Phenanthrene-d10	188	10.015	10.020	-0.005	98	906928	3.20	3.20	
* 6 Chrysene-d12	240	13.196	13.211	-0.015	99	777980	3.20	3.20	
* 2 Perylene-d12	264	16.673	16.682	-0.009	96	729507	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.163	5.168	-0.005	94	26185	0.4000	0.3364	
\$ 7 Phenol-d5	99	5.901	5.915	-0.014	98	30894	0.4000	0.3298	
\$ 9 Nitrobenzene-d5	82	6.668	6.677	-0.009	92	30423	0.4000	0.3692	
\$ 11 2-Fluorobiphenyl	172	8.163	8.168	-0.005	99	72466	0.4000	0.3815	
\$ 8 2,4,6-Tribromophenol	330	9.420	9.425	-0.005	79	8865	0.4000	0.3603	
\$ 10 Terphenyl-d14	244	11.573	11.577	-0.004	98	79163	0.4000	0.3770	
111 N-Nitrosodimethylamine	42	3.934	3.949	-0.015	78	22192	0.4000	0.3575	
121 Bis(2-chloroethyl)ether	93	5.982	5.992	-0.010	91	34123	0.4000	0.3968	
114 n-Decane	43	6.077	6.082	-0.005	91	50134	0.4000	0.4160	
109 1,3-Dichlorobenzene	146	6.182	6.187	-0.005	99	44502	0.4000	0.3893	
68 1,4-Dichlorobenzene	146	6.234	6.239	-0.005	96	44871	0.4000	0.3934	
115 1,2-Dichlorobenzene	146	6.368	6.368	0.000	98	43111	0.4000	0.4018	
143 2-Methylphenol	107	6.401	6.411	-0.010	97	26744	0.4000	0.3802	
133 2,2'-oxybis[1-chloropropan	45	6.425	6.430	-0.005	92	72305	0.4000	0.4343	
86 3 & 4 Methylphenol	108	6.525	6.539	-0.014	97	31239	0.4000	0.3855	
144 N-Nitrosodi-n-propylamine	70	6.530	6.544	-0.014	84	21438	0.4000	0.4138	
127 Acetophenone	105	6.539	6.549	-0.010	94	48773	0.4000	0.4154	
126 Nitrobenzene	77	6.682	6.692	-0.010	96	34556	0.4000	0.3851	
107 Isophorone	82	6.877	6.887	-0.010	96	58809	0.4000	0.3739	
67 Bis(2-chloroethoxy)methane	93	7.034	7.044	-0.010	92	40666	0.4000	0.3840	
92 1,2,4-Trichlorobenzene	180	7.225	7.230	-0.005	95	36546	0.4000	0.3866	
132 Naphthalene	128	7.296	7.301	-0.005	99	114744	0.4000	0.3969	
77 Hexachlorobutadiene	225	7.396	7.396	0.000	97	18434	0.4000	0.3910	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 2-Methylnaphthalene	142	7.868	7.873	-0.005	96	78597	0.4000	0.3801	
36 1-Methylnaphthalene	142	7.954	7.958	-0.004	95	75001	0.4000	0.3869	
122 2-Chloronaphthalene	162	8.282	8.287	-0.005	96	70759	0.4000	0.3951	
118 Dimethyl phthalate	163	8.487	8.506	-0.019	98	79829	0.4000	0.3861	
91 2,6-Dinitrotoluene	165	8.544	8.558	-0.014	93	19065	0.4000	0.3890	
75 Acenaphthylene	152	8.634	8.644	-0.010	98	105133	0.4000	0.3816	
134 Acenaphthene	153	8.782	8.787	-0.005	93	73907	0.4000	0.3773	
51 2,4-Dinitrotoluene	165	8.892	8.906	-0.014	93	24505	0.4000	0.3855	
13 Dibenzofuran	168	8.925	8.935	-0.010	97	98997	0.4000	0.3965	
90 Diethyl phthalate	149	9.077	9.092	-0.015	98	81462	0.4000	0.3930	
61 Fluorene	166	9.215	9.225	-0.010	93	79640	0.4000	0.3922	
74 N-Nitrosodiphenylamine	169	9.292	9.301	-0.009	98	57119	0.4000	0.3985	
149 Hexachlorobenzene	284	9.696	9.701	-0.005	94	23107	0.4000	0.3785	
137 n-Octadecane	43	9.858	9.863	-0.005	89	49244	0.4000	0.4045	
37 Phenanthrene	178	10.034	10.044	-0.010	97	115420	0.4000	0.3815	
125 Anthracene	178	10.077	10.087	-0.010	99	116063	0.4000	0.3805	
80 Carbazole	167	10.201	10.211	-0.010	96	77094	0.4000	0.3257	
162 Di-n-butyl phthalate	149	10.463	10.468	-0.005	99	136498	0.4000	0.3701	
87 Fluoranthene	202	11.158	11.168	-0.010	98	117998	0.4000	0.3452	
148 Pyrene	202	11.425	11.435	-0.010	95	120519	0.4000	0.3734	
163 Butyl benzyl phthalate	149	12.206	12.211	-0.005	96	59859	0.4000	0.3487	
101 Bis(2-ethylhexyl) phthalat	149	13.182	13.192	-0.010	96	82689	0.4000	0.3637	
14 Benzo[a]anthracene	228	13.173	13.192	-0.019	99	113508	0.4000	0.3696	
23 Chrysene	228	13.239	13.263	-0.024	97	105454	0.4000	0.3992	
145 Benzo[b]fluoranthene	252	15.539	15.582	-0.043	98	96999	0.4000	0.3636	
55 Benzo[k]fluoranthene	252	15.611	15.658	-0.047	98	99566	0.4000	0.4000	
84 Benzo[a]pyrene	252	16.468	16.520	-0.052	96	91932	0.4000	0.3713	
96 Indeno[1,2,3-cd]pyrene	276	19.697	19.744	-0.047	96	102941	0.4000	0.3664	
59 Dibenz(a,h)anthracene	278	19.758	19.811	-0.053	96	83915	0.4000	0.3790	
53 Benzo[g,h,i]perylene	276	20.306	20.373	-0.067	98	87630	0.4000	0.3831	
S 178 Total Cresols, TCEQ Defini	1				0			0.7657	
S 179 Methyl Phenols, Total	1				0			0.7657	

Reagents:

SMLst1_5uLL4_00044

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm2.d

Injection Date: 22-Aug-2018 19:52:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

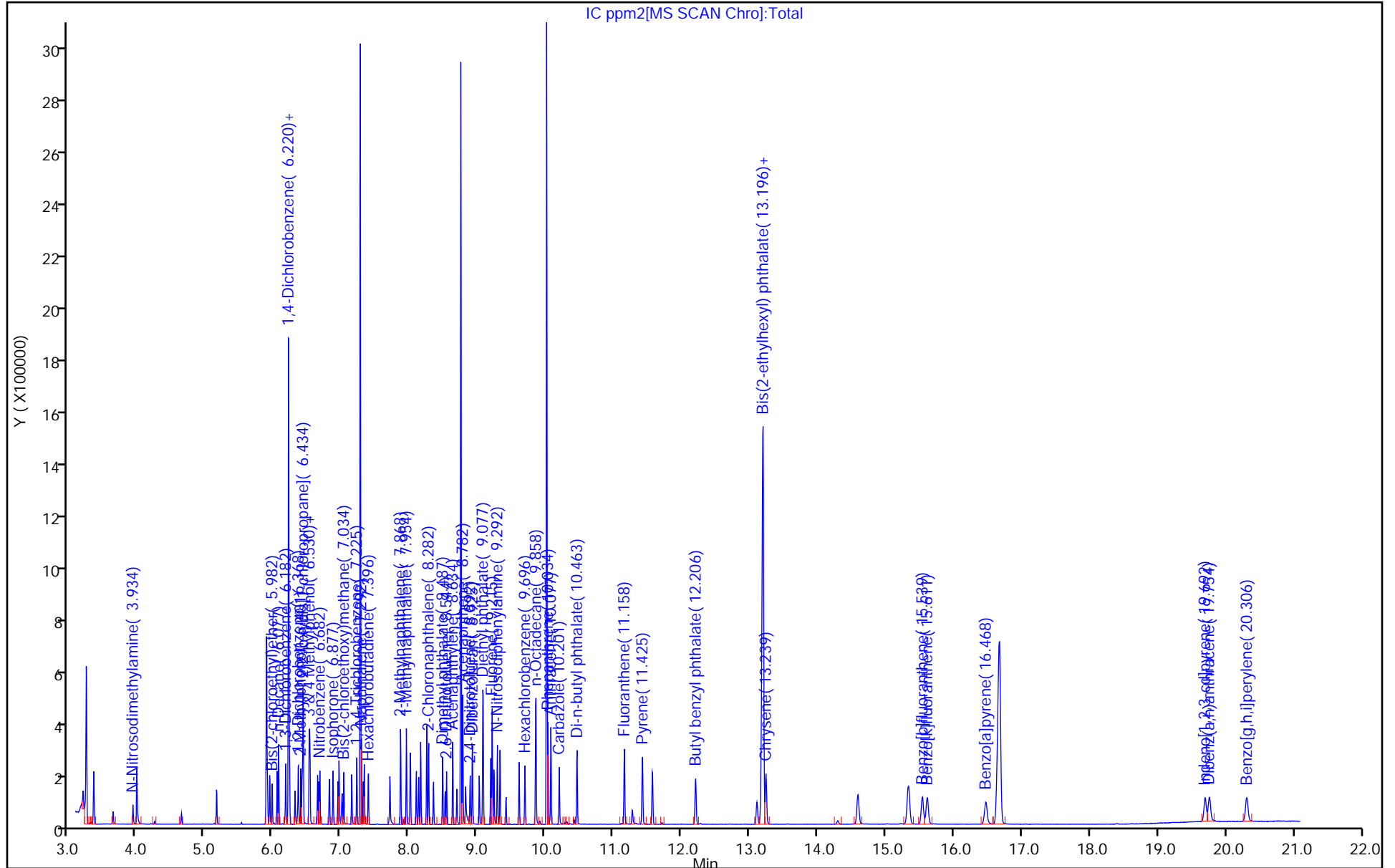
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24c0822d.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 22-Aug-2018 19:26:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ccvl ppm02
 Misc. Info.: 500-0054563-010
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:26 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: swaneyg

Date: 22-Aug-2018 20:21:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.220	6.225	-0.005	96	227253	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	992777	3.20	3.20	
* 4 Acenaphthene-d10	164	8.754	8.758	-0.004	97	482967	3.20	3.20	
* 5 Phenanthrene-d10	188	10.016	10.020	-0.004	98	908037	3.20	3.20	
* 6 Chrysene-d12	240	13.197	13.211	-0.014	99	772426	3.20	3.20	
* 2 Perylene-d12	264	16.668	16.682	-0.014	96	730577	3.20	3.20	
14 Benzo[a]anthracene	228	13.173	13.192	-0.019	99	13325	0.0400	0.0437	
23 Chrysene	228	13.239	13.263	-0.024	97	11531	0.0400	0.0440	
145 Benzo[b]fluoranthene	252	15.535	15.582	-0.047	98	9796	0.0400	0.0367	
55 Benzo[k]fluoranthene	252	15.601	15.658	-0.057	97	10415	0.0400	0.0418	a
84 Benzo[a]pyrene	252	16.473	16.520	-0.047	95	9189	0.0400	0.0371	
96 Indeno[1,2,3-cd]pyrene	276	19.687	19.744	-0.057	93	10883	0.0400	0.0387	
59 Dibenz(a,h)anthracene	278	19.754	19.811	-0.057	94	8704	0.0400	0.0393	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL1_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24c0822d.d

Injection Date: 22-Aug-2018 19:26:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

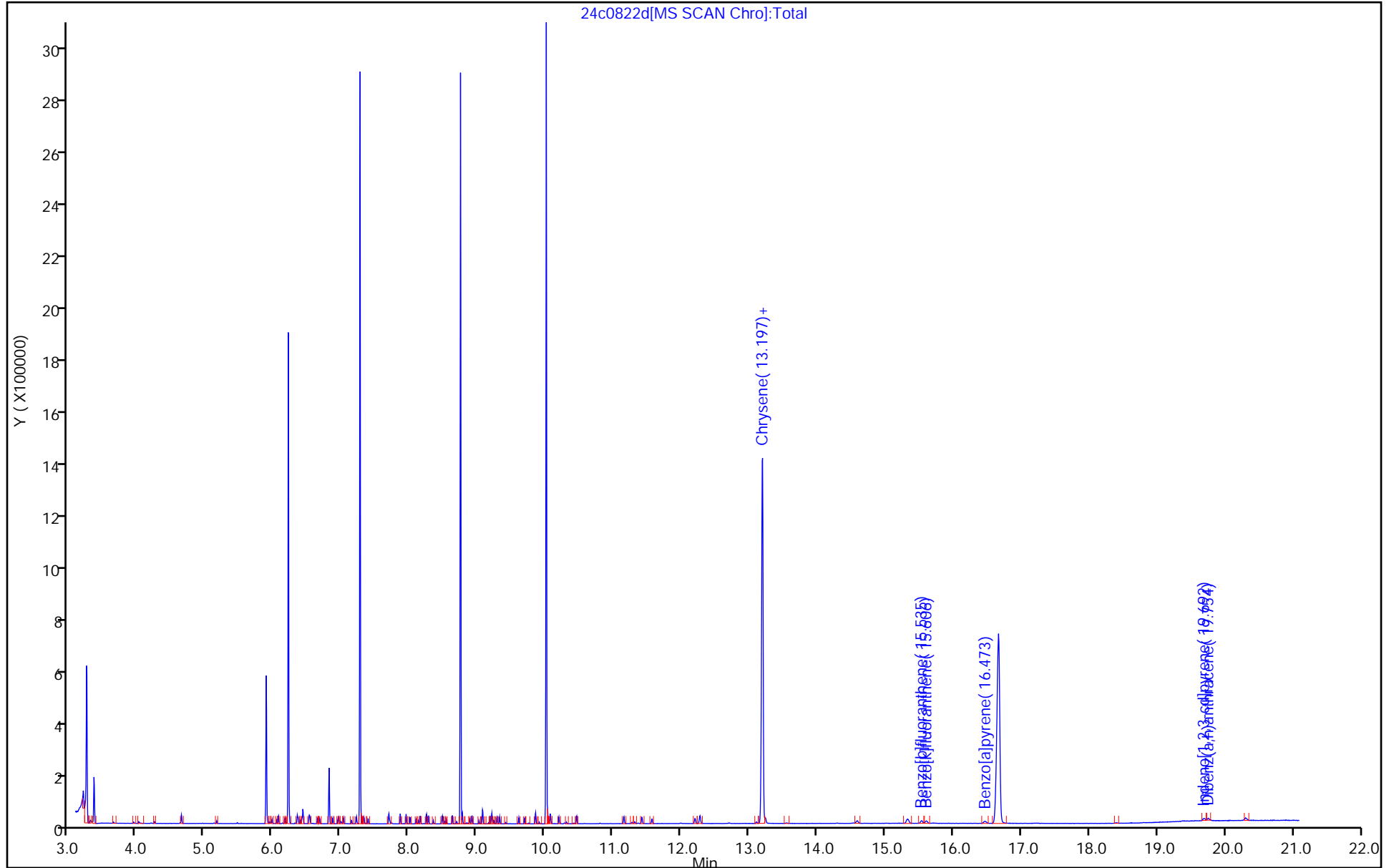
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago

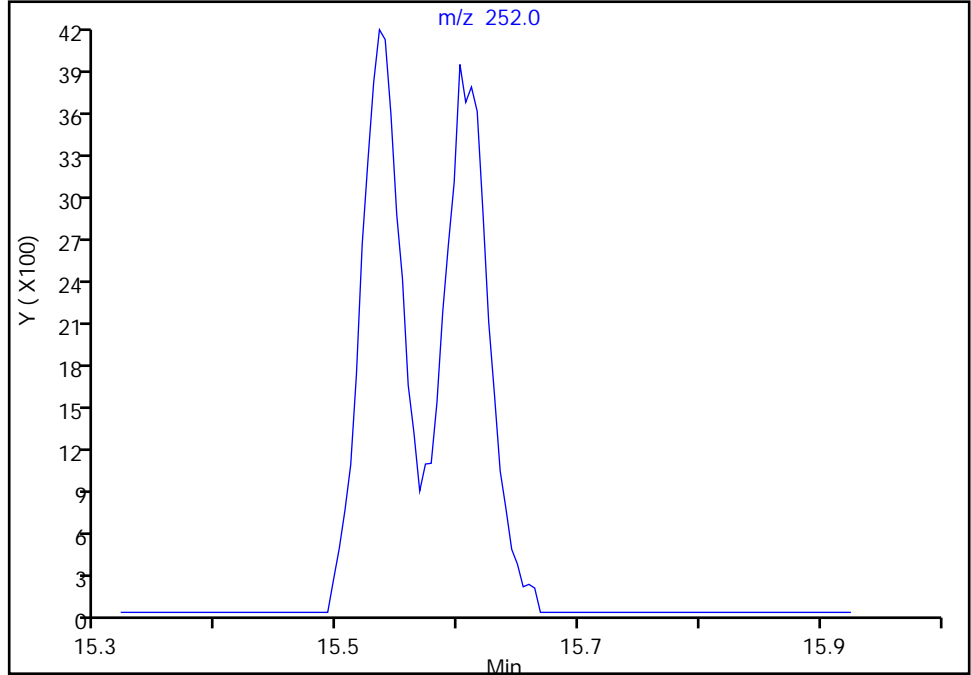
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Injection Date: 22-Aug-2018 19:26:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

55 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

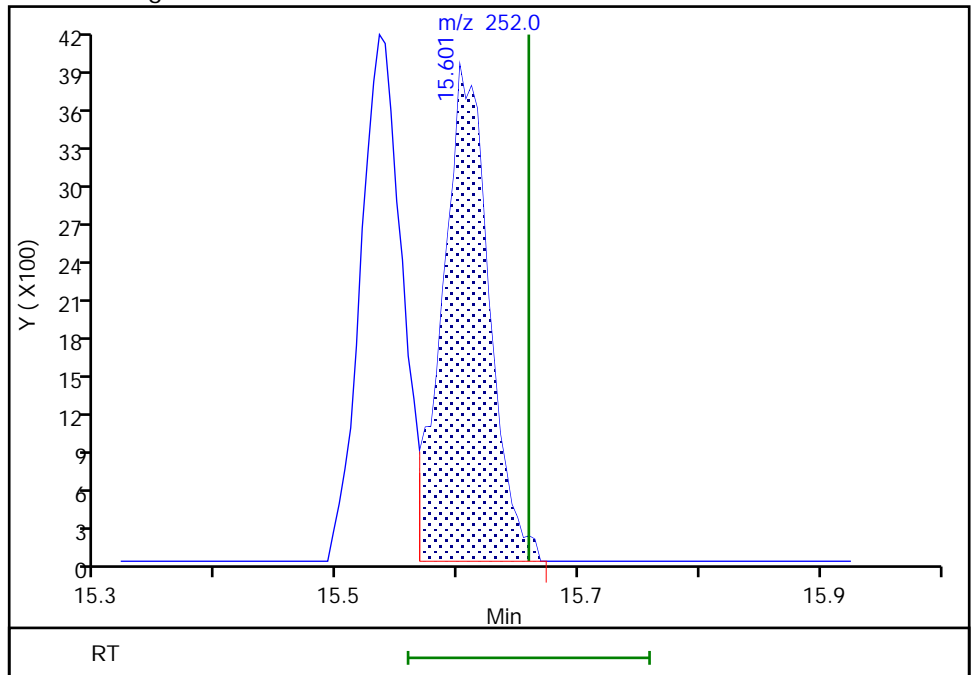
Not Detected
Expected RT: 15.66

Processing Integration Results



Manual Integration Results

RT: 15.60
Area: 10415
Amount: 0.041781
Amount Units: ug/ml



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm05.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 22-Aug-2018 20:17:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-004
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:30 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: swaneyg

Date: 22-Aug-2018 23:30:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	233554	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	1018277	3.20	3.20	
* 4 Acenaphthene-d10	164	8.754	8.758	-0.004	96	498251	3.20	3.20	
* 5 Phenanthrene-d10	188	10.016	10.020	-0.004	97	921073	3.20	3.20	
* 6 Chrysene-d12	240	13.197	13.211	-0.014	99	794355	3.20	3.20	
* 2 Perylene-d12	264	16.668	16.682	-0.014	96	759943	3.20	3.20	
144 N-Nitrosodi-n-propylamine	70	6.530	6.544	-0.014	81	5427	0.1000	0.1098	
135 2-Methylnaphthalene	142	7.868	7.873	-0.005	96	20322	0.1000	0.0971	
91 2,6-Dinitrotoluene	165	8.544	8.558	-0.014	93	4407	0.1000	0.0887	
149 Hexachlorobenzene	284	9.697	9.701	-0.004	93	5878	0.1000	0.0948	
14 Benzo[a]anthracene	228	13.173	13.192	-0.019	99	29413	0.1000	0.0938	
23 Chrysene	228	13.239	13.263	-0.024	97	26714	0.1000	0.0990	
145 Benzo[b]fluoranthene	252	15.539	15.582	-0.043	98	24462	0.1000	0.0880	
55 Benzo[k]fluoranthene	252	15.611	15.658	-0.047	98	24431	0.1000	0.0942	
84 Benzo[a]pyrene	252	16.463	16.520	-0.057	96	22461	0.1000	0.0871	
96 Indeno[1,2,3-cd]pyrene	276	19.697	19.744	-0.047	95	25250	0.1000	0.0863	
59 Dibenz(a,h)anthracene	278	19.759	19.811	-0.052	95	20364	0.1000	0.0883	

Reagents:

SMIst1_5uLL2_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm05.d

Injection Date: 22-Aug-2018 20:17:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

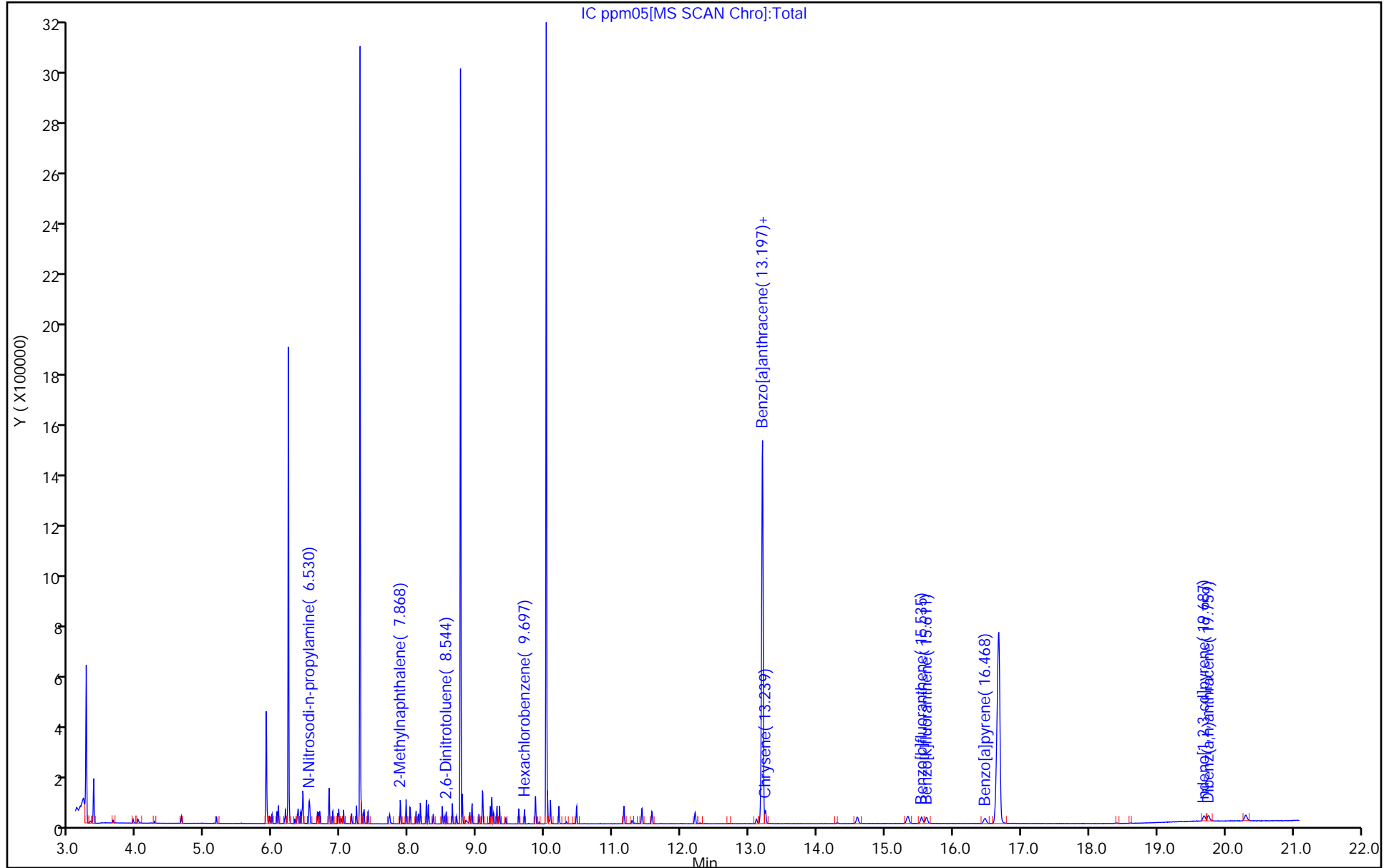
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm1.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 22-Aug-2018 20:43:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-005
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:33 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: swaneyg Date: 22-Aug-2018 23:31:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	242401	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	998774	3.20	3.20	
* 4 Acenaphthene-d10	164	8.754	8.758	-0.004	96	484769	3.20	3.20	
* 5 Phenanthrene-d10	188	10.016	10.020	-0.004	98	896527	3.20	3.20	
* 6 Chrysene-d12	240	13.197	13.211	-0.015	99	773372	3.20	3.20	
* 2 Perylene-d12	264	16.673	16.682	-0.009	96	734697	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.168	5.168	0.000	95	12172	0.2000	0.1580	
\$ 7 Phenol-d5	99	5.901	5.915	-0.014	98	14294	0.2000	0.1542	
\$ 9 Nitrobenzene-d5	82	6.668	6.677	-0.009	92	15097	0.2000	0.1845	
\$ 11 2-Fluorobiphenyl	172	8.163	8.168	-0.005	100	36146	0.2000	0.1930	
\$ 8 2,4,6-Tribromophenol	330	9.420	9.425	-0.005	79	4174	0.2000	0.1720	
\$ 10 Terphenyl-d14	244	11.573	11.577	-0.004	98	37529	0.2000	0.1798	
114 n-Decane	43	6.077	6.082	-0.005	90	24590	0.2000	0.2061	
144 N-Nitrosodi-n-propylamine	70	6.530	6.544	-0.014	80	10371	0.2000	0.2023	
127 Acetophenone	105	6.539	6.549	-0.010	93	24530	0.2000	0.2111	
126 Nitrobenzene	77	6.682	6.692	-0.010	96	17215	0.2000	0.1932	
132 Naphthalene	128	7.296	7.301	-0.005	99	57884	0.2000	0.2016	
135 2-Methylnaphthalene	142	7.868	7.873	-0.005	96	39391	0.2000	0.1918	
36 1-Methylnaphthalene	142	7.954	7.958	-0.004	94	37292	0.2000	0.1937	
91 2,6-Dinitrotoluene	165	8.544	8.558	-0.014	92	9158	0.2000	0.1895	
75 Acenaphthylene	152	8.635	8.644	-0.009	98	52377	0.2000	0.1928	
134 Acenaphthene	153	8.782	8.787	-0.005	92	37100	0.2000	0.1920	
51 2,4-Dinitrotoluene	165	8.892	8.906	-0.014	93	11832	0.2000	0.1887	
61 Fluorene	166	9.216	9.225	-0.009	93	40158	0.2000	0.2005	
74 N-Nitrosodiphenylamine	169	9.292	9.301	-0.009	98	28966	0.2000	0.2044	
149 Hexachlorobenzene	284	9.696	9.701	-0.005	94	11711	0.2000	0.1940	
37 Phenanthrene	178	10.035	10.044	-0.009	96	59773	0.2000	0.1998	
125 Anthracene	178	10.077	10.087	-0.010	98	59323	0.2000	0.1967	
87 Fluoranthene	202	11.158	11.168	-0.010	98	57928	0.2000	0.1714	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Pyrene	202	11.425	11.435	-0.010	95	59624	0.2000	0.1858	
14 Benzo[a]anthracene	228	13.173	13.192	-0.019	99	57854	0.2000	0.1895	
23 Chrysene	228	13.239	13.263	-0.024	97	52990	0.2000	0.2018	
145 Benzo[b]fluoranthene	252	15.535	15.582	-0.047	98	46877	0.2000	0.1745	
55 Benzo[k]fluoranthene	252	15.611	15.658	-0.047	98	50102	0.2000	0.1999	
84 Benzo[a]pyrene	252	16.468	16.520	-0.052	96	45622	0.2000	0.1830	
96 Indeno[1,2,3-cd]pyrene	276	19.692	19.744	-0.052	95	50730	0.2000	0.1793	
59 Dibenz(a,h)anthracene	278	19.759	19.811	-0.053	94	41941	0.2000	0.1881	
53 Benzo[g,h,i]perylene	276	20.306	20.373	-0.067	98	43684	0.2000	0.1896	

Reagents:

SMIst1_5uLL3_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm1.d

Injection Date: 22-Aug-2018 20:43:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul

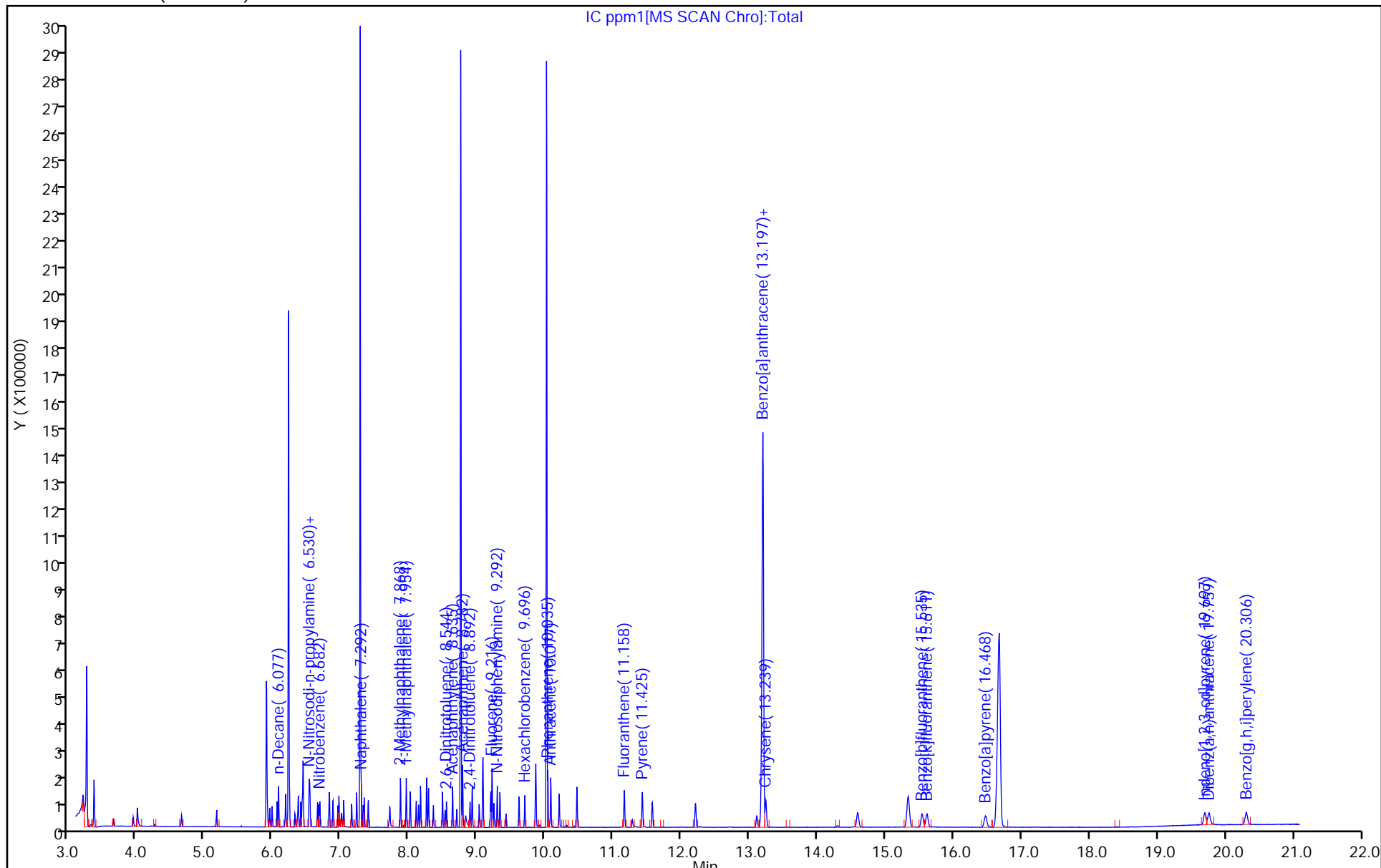
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm5.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 22-Aug-2018 21:09:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-006
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:38 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 08:19:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	232023	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	933024	3.20	3.20	
* 4 Acenaphthene-d10	164	8.754	8.758	-0.004	97	455461	3.20	3.20	
* 5 Phenanthrene-d10	188	10.016	10.020	-0.004	98	818831	3.20	3.20	
* 6 Chrysene-d12	240	13.197	13.211	-0.014	99	726764	3.20	3.20	
* 2 Perylene-d12	264	16.668	16.682	-0.014	96	687951	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.168	5.168	0.000	95	66219	1.00	0.8980	
\$ 7 Phenol-d5	99	5.901	5.915	-0.014	98	85761	1.00	0.9663	
\$ 9 Nitrobenzene-d5	82	6.668	6.677	-0.009	93	75425	1.00	0.9865	
\$ 11 2-Fluorobiphenyl	172	8.163	8.168	-0.005	99	173783	1.00	0.9874	
\$ 8 2,4,6-Tribromophenol	330	9.420	9.425	-0.005	79	22203	1.00	0.9738	
\$ 10 Terphenyl-d14	244	11.573	11.577	-0.004	98	191666	1.00	0.9770	
28 1,4-Dioxane	88	3.644	3.649	-0.005	86	27965	1.00	0.9113	
111 N-Nitrosodimethylamine	42	3.935	3.949	-0.014	78	56947	1.00	0.9684	
73 Pyridine	79	3.987	3.992	-0.005	74	145017	2.00	1.77	
105 Phenol	94	5.916	5.925	-0.009	93	96515	1.00	0.9439	
70 Aniline	93	5.949	5.958	-0.009	95	120703	1.00	0.9797	
121 Bis(2-chloroethyl)ether	93	5.982	5.992	-0.010	90	81523	1.00	1.00	
24 2-Chlorophenol	128	6.054	6.058	-0.004	98	94055	1.00	0.9544	
114 n-Decane	43	6.077	6.082	-0.005	90	121727	1.00	1.07	
109 1,3-Dichlorobenzene	146	6.182	6.187	-0.005	99	108343	1.00	1.00	
68 1,4-Dichlorobenzene	146	6.239	6.239	0.000	97	109988	1.00	1.02	
76 Benzyl alcohol	108	6.320	6.330	-0.010	93	44979	1.00	0.8971	a
115 1,2-Dichlorobenzene	146	6.368	6.368	0.000	98	103867	1.00	1.02	
143 2-Methylphenol	107	6.406	6.411	-0.005	96	67210	1.00	1.01	
133 2,2'-oxybis[1-chloropropan	45	6.425	6.430	-0.005	92	171381	1.00	1.09	
102 Indene	116	6.439	6.444	-0.005	89	263263	2.00	2.17	
86 3 & 4 Methylphenol	108	6.525	6.539	-0.014	98	79048	1.00	1.03	
144 N-Nitrosodi-n-propylamine	70	6.530	6.544	-0.014	82	51623	1.00	1.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.539	6.549	-0.010	94	117626	1.00	1.06	
120 Hexachloroethane	117	6.649	6.654	-0.005	94	40885	1.00	1.04	
126 Nitrobenzene	77	6.682	6.692	-0.010	95	81550	1.00	0.9795	
107 Isophorone	82	6.877	6.887	-0.010	96	143067	1.00	0.9803	
58 2-Nitrophenol	139	6.949	6.958	-0.009	93	53493	1.00	0.9435	
62 2,4-Dimethylphenol	122	6.963	6.973	-0.010	93	80001	1.00	0.9571	
67 Bis(2-chloroethoxy)methane	93	7.035	7.044	-0.009	92	96484	1.00	0.9819	
152 Benzoic acid	122	7.025	7.111	-0.086	92	66743	2.00	1.33	
39 2,4-Dichlorophenol	162	7.154	7.158	-0.004	96	73473	1.00	0.9485	
92 1,2,4-Trichlorobenzene	180	7.225	7.230	-0.005	95	86497	1.00	0.9863	
132 Naphthalene	128	7.296	7.301	-0.005	99	275055	1.00	1.03	
47 4-Chloroaniline	127	7.320	7.330	-0.010	96	100048	1.00	0.8896	
81 2,6-Dichlorophenol	162	7.335	7.344	-0.009	96	74047	1.00	1.01	
77 Hexachlorobutadiene	225	7.396	7.396	0.000	97	44856	1.00	1.03	
159 4-Chloro-3-methylphenol	107	7.711	7.720	-0.009	92	71259	1.00	0.9603	
135 2-Methylnaphthalene	142	7.868	7.873	-0.005	96	190467	1.00	0.99	
36 1-Methylnaphthalene	142	7.954	7.958	-0.004	94	179046	1.00	1.00	
19 Hexachlorocyclopentadiene	237	8.006	8.011	-0.005	95	29703	1.00	0.6637	
48 1,2,4,5-Tetrachlorobenzene	216	8.016	8.020	-0.004	98	78669	1.00	0.9128	
94 2,4,6-Trichlorophenol	196	8.101	8.106	-0.005	92	52633	1.00	0.9366	
95 2,4,5-Trichlorophenol	196	8.135	8.139	-0.004	95	57548	1.00	0.99	
146 1,1'-Biphenyl	154	8.254	8.258	-0.004	95	216973	1.00	0.9670	
122 2-Chloronaphthalene	162	8.282	8.287	-0.005	96	167394	1.00	1.01	
31 2-Nitroaniline	65	8.354	8.363	-0.009	87	53426	1.00	0.8997	
118 Dimethyl phthalate	163	8.487	8.506	-0.019	98	190555	1.00	0.99	
49 1,3-Dinitrobenzene	168	8.525	8.539	-0.014	90	32377	1.00	0.9373	
91 2,6-Dinitrotoluene	165	8.544	8.558	-0.014	93	46181	1.00	1.02	
75 Acenaphthylene	152	8.635	8.644	-0.009	98	247184	1.00	0.9683	
42 3-Nitroaniline	138	8.697	8.711	-0.014	93	44066	1.00	0.8492	
134 Acenaphthene	153	8.782	8.787	-0.005	93	173946	1.00	0.9584	
128 2,4-Dinitrophenol	184	8.787	8.801	-0.014	81	43173	2.00	1.44	
130 4-Nitrophenol	109	8.825	8.844	-0.019	91	43569	2.00	1.78	
51 2,4-Dinitrotoluene	165	8.892	8.906	-0.014	93	58547	1.00	0.99	
13 Dibenzofuran	168	8.925	8.935	-0.010	96	234693	1.00	1.01	
170 2,3,4,6-Tetrachlorophenol	232	9.025	9.035	-0.010	74	43545	1.00	0.9173	
186 Hexadecane	57	9.082	9.087	-0.005	84	166367	1.00	1.04	
90 Diethyl phthalate	149	9.077	9.092	-0.015	98	190223	1.00	0.99	
155 4-Chlorophenyl phenyl ethe	204	9.197	9.201	-0.004	92	88731	1.00	0.9842	
61 Fluorene	166	9.216	9.225	-0.009	93	187951	1.00	1.00	
69 4-Nitroaniline	138	9.216	9.235	-0.019	56	44498	1.00	0.8584	
46 4,6-Dinitro-2-methylphenol	198	9.244	9.258	-0.014	93	61511	2.00	1.91	
74 N-Nitrosodiphenylamine	169	9.292	9.301	-0.009	97	128829	1.00	1.00	
131 Diphenylamine	169	9.292	9.301	-0.009	99	128829	0.8500	0.8485	
124 1,2-Diphenylhydrazine	77	9.330	9.339	-0.009	95	166397	1.00	0.9851	
34 4-Bromophenyl phenyl ether	248	9.611	9.620	-0.009	70	51062	1.00	0.9629	
149 Hexachlorobenzene	284	9.697	9.701	-0.004	94	54222	1.00	0.9836	
137 n-Octadecane	43	9.858	9.863	-0.005	88	116669	1.00	1.06	
17 Pentachlorophenol	266	9.854	9.863	-0.009	92	55676	2.00	1.40	
37 Phenanthrene	178	10.035	10.044	-0.009	97	265104	1.00	0.9705	
125 Anthracene	178	10.077	10.087	-0.010	98	272473	1.00	0.9893	
80 Carbazole	167	10.201	10.211	-0.010	96	167739	1.00	0.7848	
162 Di-n-butyl phthalate	149	10.463	10.468	-0.005	99	325445	1.00	0.9773	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.158	11.168	-0.010	98	285441	1.00	0.9249	
177 Benzidine	184	11.278	11.287	-0.009	97	75919	1.00	0.4971	
148 Pyrene	202	11.425	11.435	-0.010	95	292963	1.00	0.9717	
163 Butyl benzyl phthalate	149	12.206	12.211	-0.005	96	146792	1.00	0.9153	
110 3,3'-Dichlorobenzidine	252	13.106	13.130	-0.024	99	82739	1.00	0.7742	
101 Bis(2-ethylhexyl) phthalat	149	13.182	13.192	-0.010	96	200243	1.00	0.9429	
14 Benzo[a]anthracene	228	13.173	13.192	-0.019	99	271568	1.00	0.9467	
23 Chrysene	228	13.239	13.263	-0.024	97	248002	1.00	1.00	
79 Di-n-octyl phthalate	149	14.592	14.601	-0.009	75	319272	1.00	0.8108	
145 Benzo[b]fluoranthene	252	15.544	15.582	-0.038	98	237017	1.00	0.9422	
55 Benzo[k]fluoranthene	252	15.616	15.658	-0.042	99	244724	1.00	1.04	
84 Benzo[a]pyrene	252	16.473	16.520	-0.047	96	230893	1.00	0.9889	
96 Indeno[1,2,3-cd]pyrene	276	19.697	19.744	-0.047	96	255616	1.00	0.9649	
59 Dibenz(a,h)anthracene	278	19.759	19.811	-0.052	94	207512	1.00	0.99	
53 Benzo[g,h,i]perylene	276	20.311	20.373	-0.062	98	214218	1.00	0.99	
S 178 Total Cresols, TCEQ Defini	1				0			2.04	
S 179 Methyl Phenols, Total	1				0			2.04	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM1st1_5uLL5_00044

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm5.d

Injection Date: 22-Aug-2018 21:09:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

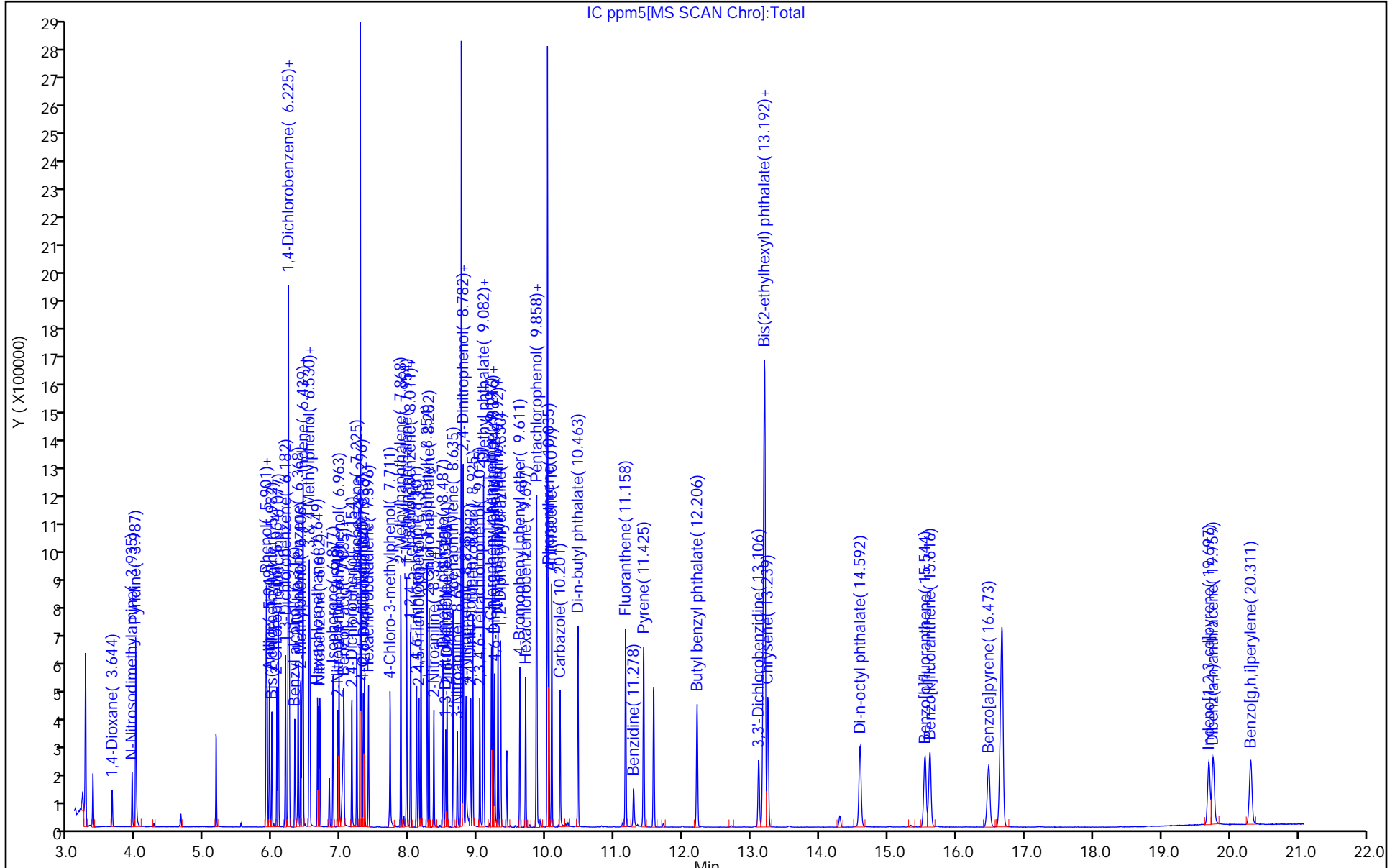
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago

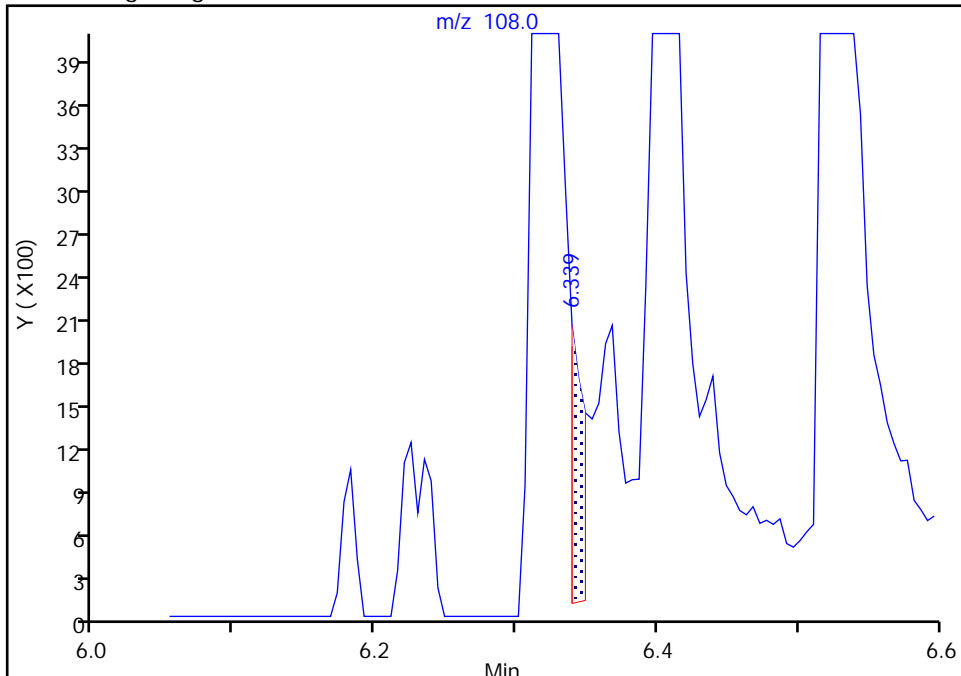
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Injection Date: 22-Aug-2018 21:09:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

76 Benzyl alcohol, CAS: 100-51-6

Signal: 1

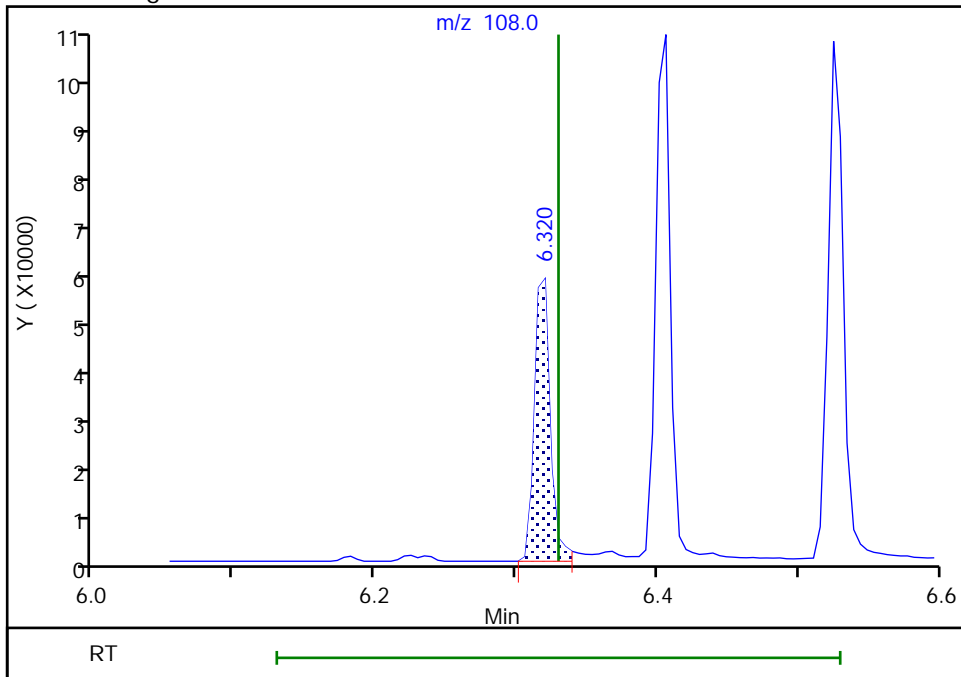
RT: 6.34
Area: 1362
Amount: 0.036020
Amount Units: ug/ml

Processing Integration Results



RT: 6.32
Area: 44979
Amount: 0.897117
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 23-Aug-2018 08:17:21
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm10.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 22-Aug-2018 21:35:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-007
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:44 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 08:19:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	248000	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	983799	3.20	3.20	
* 4 Acenaphthene-d10	164	8.758	8.758	0.000	97	470406	3.20	3.20	
* 5 Phenanthrene-d10	188	10.016	10.020	-0.004	97	842258	3.20	3.20	
* 6 Chrysene-d12	240	13.201	13.211	-0.010	99	756503	3.20	3.20	
* 2 Perylene-d12	264	16.673	16.682	-0.009	96	726359	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.163	5.168	-0.005	94	144998	2.00	1.84	
\$ 7 Phenol-d5	99	5.906	5.915	-0.009	98	188380	2.00	1.99	
\$ 9 Nitrobenzene-d5	82	6.668	6.677	-0.009	92	156998	2.00	1.95	
\$ 11 2-Fluorobiphenyl	172	8.168	8.168	0.000	100	348988	2.00	1.92	
\$ 8 2,4,6-Tribromophenol	330	9.420	9.425	-0.005	80	43224	2.00	1.84	
\$ 10 Terphenyl-d14	244	11.573	11.577	-0.004	98	386113	2.00	1.89	
28 1,4-Dioxane	88	3.644	3.649	-0.005	86	60437	2.00	1.84	
111 N-Nitrosodimethylamine	42	3.935	3.949	-0.015	78	118166	2.00	1.88	
73 Pyridine	79	3.987	3.992	-0.005	75	326575	4.00	3.74	
105 Phenol	94	5.915	5.925	-0.010	93	209017	2.00	1.91	
70 Aniline	93	5.949	5.958	-0.009	94	254060	2.00	1.93	
121 Bis(2-chloroethyl)ether	93	5.982	5.992	-0.010	91	169332	2.00	1.94	
24 2-Chlorophenol	128	6.058	6.058	0.000	97	200732	2.00	1.91	
114 n-Decane	43	6.077	6.082	-0.005	90	248918	2.00	2.04	
109 1,3-Dichlorobenzene	146	6.182	6.187	-0.005	99	225266	2.00	1.95	
68 1,4-Dichlorobenzene	146	6.239	6.239	0.000	95	226447	2.00	1.96	
76 Benzyl alcohol	108	6.320	6.330	-0.010	92	99601	2.00	1.86	a
115 1,2-Dichlorobenzene	146	6.368	6.368	0.000	99	216116	2.00	1.99	
143 2-Methylphenol	107	6.406	6.411	-0.005	96	141464	2.00	1.99	
133 2,2'-oxybis[1-chloropropan	45	6.425	6.430	-0.005	92	349326	2.00	2.07	
102 Indene	116	6.439	6.444	-0.005	89	535189	4.00	4.13	
86 3 & 4 Methylphenol	108	6.530	6.539	-0.009	95	166339	2.00	2.03	
144 N-Nitrosodi-n-propylamine	70	6.530	6.544	-0.014	81	105185	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.539	6.549	-0.010	93	240202	2.00	2.02	
120 Hexachloroethane	117	6.649	6.654	-0.005	93	83547	2.00	1.98	
126 Nitrobenzene	77	6.687	6.692	-0.005	96	170091	2.00	1.94	
107 Isophorone	82	6.877	6.887	-0.010	96	290737	2.00	1.89	
58 2-Nitrophenol	139	6.954	6.958	-0.004	92	111411	2.00	1.86	
62 2,4-Dimethylphenol	122	6.968	6.973	-0.005	93	166121	2.00	1.88	
67 Bis(2-chloroethoxy)methane	93	7.039	7.044	-0.005	92	198265	2.00	1.91	
152 Benzoic acid	122	7.049	7.111	-0.062	90	180553	4.00	3.42	a
39 2,4-Dichlorophenol	162	7.154	7.158	-0.004	95	153593	2.00	1.88	
92 1,2,4-Trichlorobenzene	180	7.225	7.230	-0.005	95	177753	2.00	1.92	
132 Naphthalene	128	7.296	7.301	-0.005	99	555059	2.00	1.96	
47 4-Chloroaniline	127	7.320	7.330	-0.010	97	235878	2.00	1.99	
81 2,6-Dichlorophenol	162	7.339	7.344	-0.005	96	151679	2.00	1.96	
77 Hexachlorobutadiene	225	7.396	7.396	0.000	97	90954	2.00	1.97	
159 4-Chloro-3-methylphenol	107	7.716	7.720	-0.004	90	147321	2.00	1.88	
135 2-Methylnaphthalene	142	7.873	7.873	0.000	96	386790	2.00	1.91	
36 1-Methylnaphthalene	142	7.954	7.958	-0.004	95	364364	2.00	1.92	
19 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	95	71094	2.00	1.54	
48 1,2,4,5-Tetrachlorobenzene	216	8.016	8.020	-0.004	97	162623	2.00	1.83	
94 2,4,6-Trichlorophenol	196	8.101	8.106	-0.005	93	109550	2.00	1.89	
95 2,4,5-Trichlorophenol	196	8.135	8.139	-0.004	95	112764	2.00	1.88	
146 1,1'-Biphenyl	154	8.254	8.258	-0.004	95	440926	2.00	1.90	
122 2-Chloronaphthalene	162	8.282	8.287	-0.005	96	338087	2.00	1.97	
31 2-Nitroaniline	65	8.354	8.363	-0.009	86	111175	2.00	1.81	
118 Dimethyl phthalate	163	8.492	8.506	-0.014	98	377238	2.00	1.91	
49 1,3-Dinitrobenzene	168	8.530	8.539	-0.009	93	67524	2.00	1.89	
91 2,6-Dinitrotoluene	165	8.549	8.558	-0.009	91	92324	2.00	1.97	
75 Acenaphthylene	152	8.639	8.644	-0.005	98	503247	2.00	1.91	
42 3-Nitroaniline	138	8.696	8.711	-0.015	93	97181	2.00	1.81	
134 Acenaphthene	153	8.782	8.787	-0.005	94	346720	2.00	1.85	
128 2,4-Dinitrophenol	184	8.787	8.801	-0.014	79	105948	4.00	3.42	a
130 4-Nitrophenol	109	8.830	8.844	-0.014	92	92734	4.00	3.67	
51 2,4-Dinitrotoluene	165	8.896	8.906	-0.010	92	117375	2.00	1.93	
13 Dibenzofuran	168	8.925	8.935	-0.010	96	459509	2.00	1.92	
170 2,3,4,6-Tetrachlorophenol	232	9.030	9.035	-0.005	74	89320	2.00	1.82	
186 Hexadecane	57	9.082	9.087	-0.005	84	332160	2.00	2.01	
90 Diethyl phthalate	149	9.077	9.092	-0.015	98	383530	2.00	1.93	
155 4-Chlorophenyl phenyl ethe	204	9.196	9.201	-0.005	94	174366	2.00	1.87	
61 Fluorene	166	9.216	9.225	-0.009	93	369995	2.00	1.90	
69 4-Nitroaniline	138	9.216	9.235	-0.019	61	102175	2.00	1.91	a
46 4,6-Dinitro-2-methylphenol	198	9.244	9.258	-0.014	93	130771	4.00	3.94	
131 Diphenylamine	169	9.292	9.301	-0.009	99	253620	1.70	1.62	
74 N-Nitrosodiphenylamine	169	9.292	9.301	-0.009	98	253620	2.00	1.91	
124 1,2-Diphenylhydrazine	77	9.335	9.339	-0.004	95	331414	2.00	1.90	
34 4-Bromophenyl phenyl ether	248	9.616	9.620	-0.004	71	100623	2.00	1.84	
149 Hexachlorobenzene	284	9.701	9.701	0.000	95	106463	2.00	1.88	
137 n-Octadecane	43	9.858	9.863	-0.005	89	237153	2.00	2.10	
17 Pentachlorophenol	266	9.854	9.863	-0.009	92	123389	4.00	3.03	
37 Phenanthrene	178	10.039	10.044	-0.005	97	521050	2.00	1.85	
125 Anthracene	178	10.082	10.087	-0.005	98	544884	2.00	1.92	
80 Carbazole	167	10.201	10.211	-0.010	96	381625	2.00	1.74	
162 Di-n-butyl phthalate	149	10.463	10.468	-0.005	99	645568	2.00	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.163	11.168	-0.005	98	583267	2.00	1.84	
177 Benzidine	184	11.277	11.287	-0.010	97	179604	2.00	1.13	
148 Pyrene	202	11.425	11.435	-0.010	95	588409	2.00	1.87	
163 Butyl benzyl phthalate	149	12.206	12.211	-0.005	96	301751	2.00	1.81	
110 3,3'-Dichlorobenzidine	252	13.111	13.130	-0.019	99	177891	2.00	1.60	
14 Benzo[a]anthracene	228	13.178	13.192	-0.014	99	555609	2.00	1.86	
101 Bis(2-ethylhexyl) phthalat	149	13.187	13.192	-0.005	96	409245	2.00	1.85	
23 Chrysene	228	13.244	13.263	-0.019	97	491920	2.00	1.91	
79 Di-n-octyl phthalate	149	14.592	14.601	-0.009	75	678574	2.00	1.68	
145 Benzo[b]fluoranthene	252	15.554	15.582	-0.028	96	500572	2.00	1.88	
55 Benzo[k]fluoranthene	252	15.620	15.658	-0.038	98	502893	2.00	2.03	
84 Benzo[a]pyrene	252	16.482	16.520	-0.038	96	481707	2.00	1.95	
96 Indeno[1,2,3-cd]pyrene	276	19.706	19.744	-0.038	96	542810	2.00	1.94	
59 Dibenz(a,h)anthracene	278	19.773	19.811	-0.038	95	426415	2.00	1.93	
53 Benzo[g,h,i]perylene	276	20.325	20.373	-0.048	98	449260	2.00	1.97	
S 179 Methyl Phenols, Total	1				0			4.01	
S 178 Total Cresols, TCEQ Defini	1				0			4.01	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL6_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

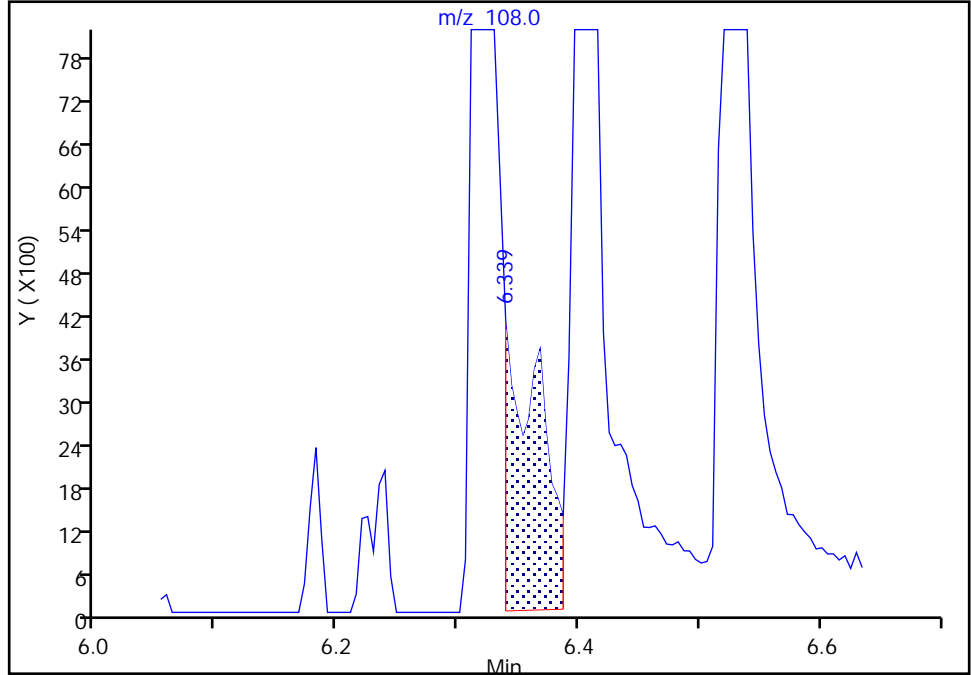
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm10.d
Injection Date: 22-Aug-2018 21:35:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

76 Benzyl alcohol, CAS: 100-51-6

Signal: 1

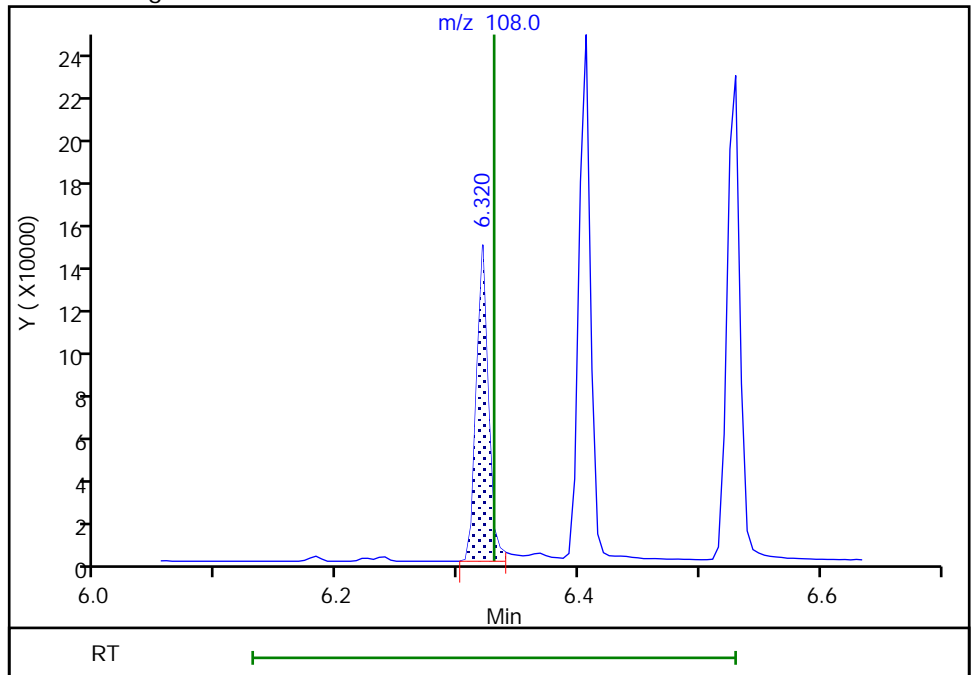
RT: 6.34
Area: 8409
Amount: 0.178626
Amount Units: ug/ml

Processing Integration Results



RT: 6.32
Area: 99601
Amount: 1.858584
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago

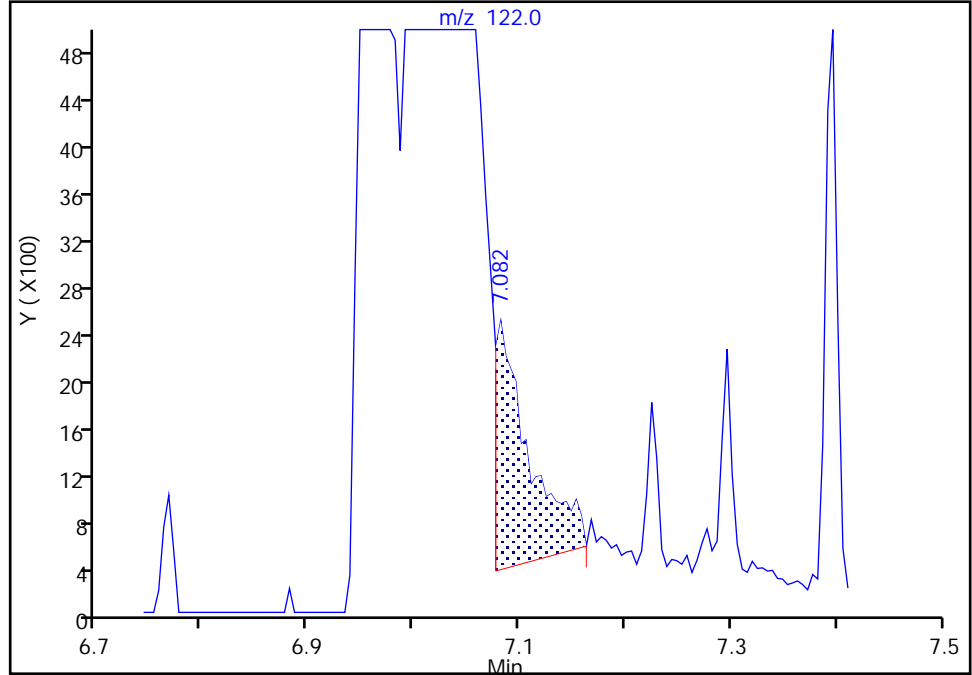
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Injection Date: 22-Aug-2018 21:35:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

152 Benzoic acid, CAS: 65-85-0

Signal: 1

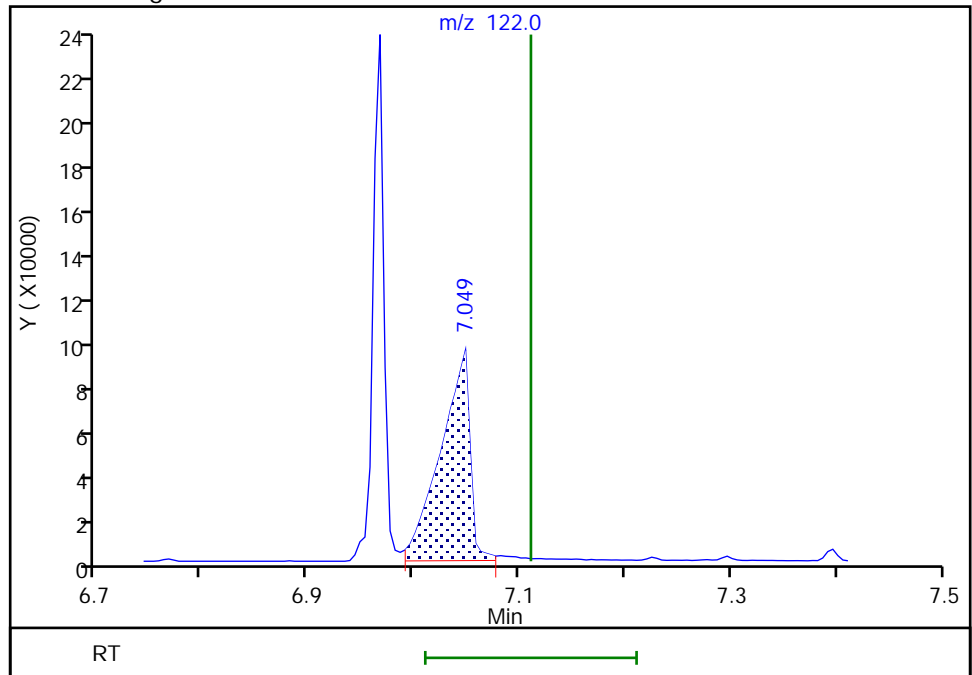
RT: 7.08
Area: 4753
Amount: 0.102017
Amount Units: ug/ml

Processing Integration Results



RT: 7.05
Area: 180553
Amount: 3.415121
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago

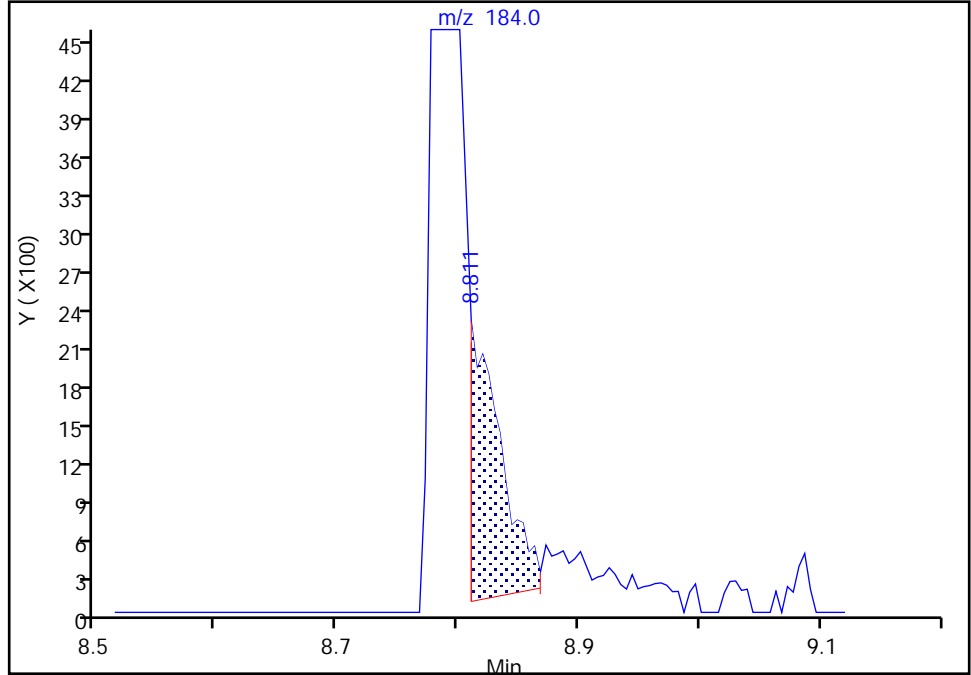
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm10.d
Injection Date: 22-Aug-2018 21:35:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

128 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

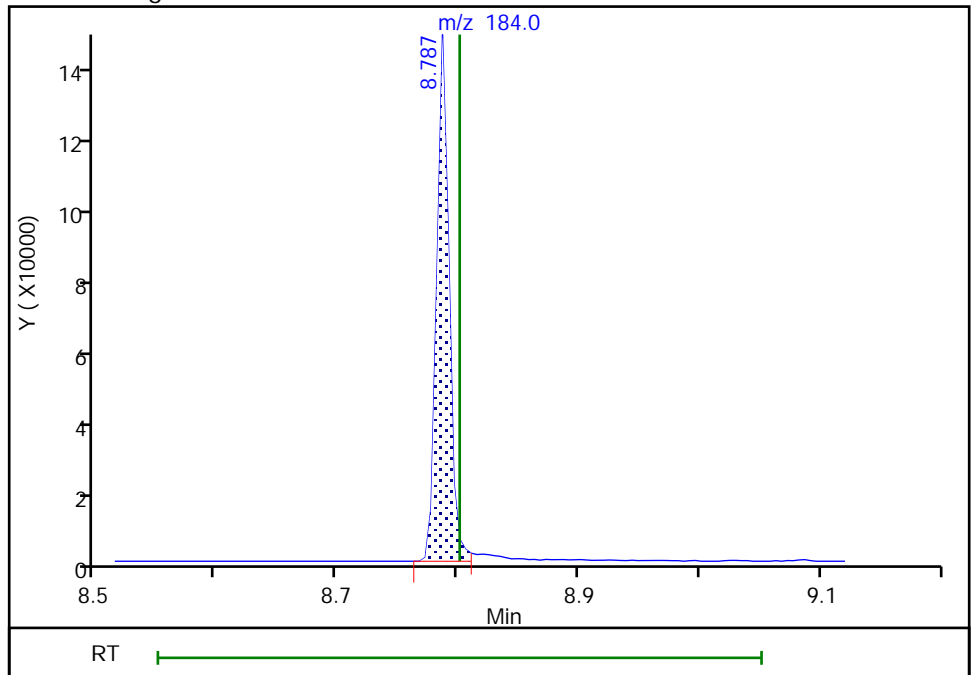
RT: 8.81
Area: 3885
Amount: 0.142065
Amount Units: ug/ml

Processing Integration Results



RT: 8.79
Area: 105948
Amount: 3.418584
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 23-Aug-2018 08:20:30
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

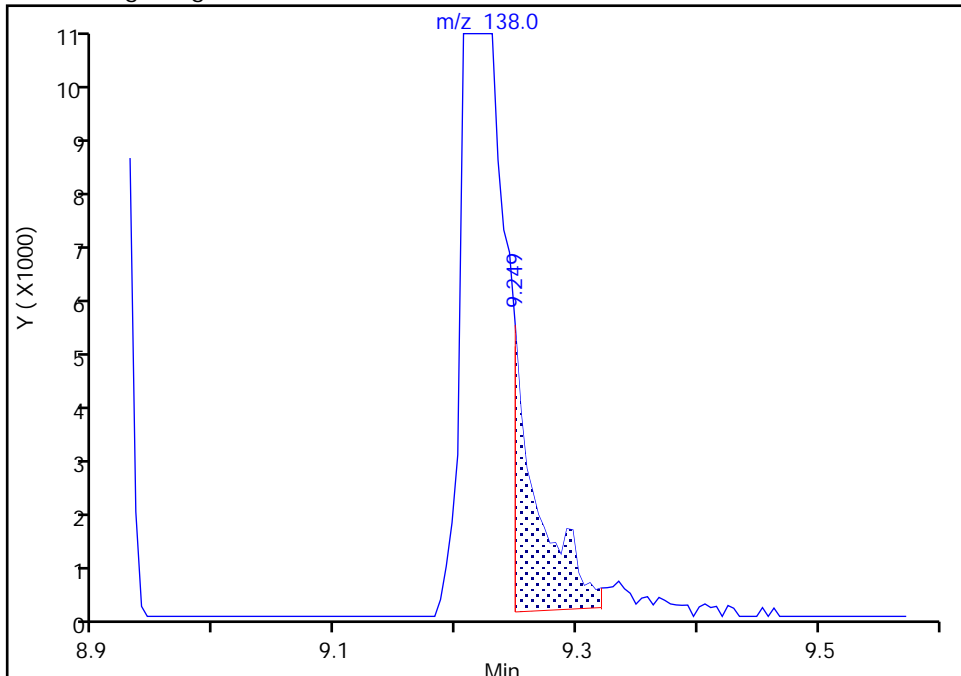
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Injection Date: 22-Aug-2018 21:35:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

69 4-Nitroaniline, CAS: 100-01-6

Signal: 1

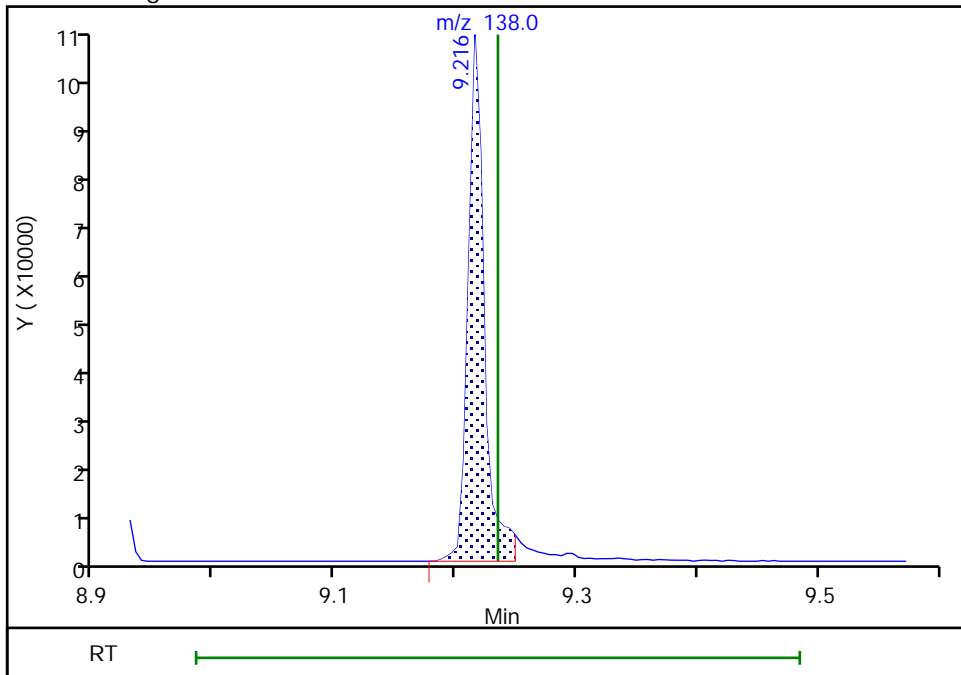
RT: 9.25
Area: 7504
Amount: 0.160429
Amount Units: ug/ml

Processing Integration Results



RT: 9.22
Area: 102175
Amount: 1.908500
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 23-Aug-2018 08:21:48
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm20.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 22-Aug-2018 22:00:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-008
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:51 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 08:20:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	252542	3.20	3.20	
* 1 Naphthalene-d8	136	7.277	7.282	-0.005	99	960861	3.20	3.20	
* 4 Acenaphthene-d10	164	8.758	8.758	0.000	97	443686	3.20	3.20	
* 5 Phenanthrene-d10	188	10.020	10.020	0.000	97	788443	3.20	3.20	
* 6 Chrysene-d12	240	13.206	13.211	-0.005	99	709340	3.20	3.20	
* 2 Perylene-d12	264	16.677	16.682	-0.005	96	710080	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.168	5.168	0.000	94	290860	4.00	3.62	
\$ 7 Phenol-d5	99	5.911	5.915	-0.004	98	392373	4.00	4.06	
\$ 9 Nitrobenzene-d5	82	6.673	6.677	-0.004	92	306310	4.00	3.89	
\$ 11 2-Fluorobiphenyl	172	8.168	8.168	0.000	100	668389	4.00	3.90	
\$ 8 2,4,6-Tribromophenol	330	9.425	9.425	0.000	81	82336	4.00	3.71	
\$ 10 Terphenyl-d14	244	11.573	11.577	-0.004	98	731867	4.00	3.82	
28 1,4-Dioxane	88	3.644	3.649	-0.005	86	128519	4.00	3.85	
111 N-Nitrosodimethylamine	42	3.939	3.949	-0.010	78	240902	4.00	3.76	
73 Pyridine	79	3.987	3.992	-0.005	76	694696	8.00	7.81	
105 Phenol	94	5.920	5.925	-0.005	93	417485	4.00	3.75	
70 Aniline	93	5.954	5.958	-0.004	95	503541	4.00	3.76	
121 Bis(2-chloroethyl)ether	93	5.987	5.992	-0.005	91	336005	4.00	3.79	
24 2-Chlorophenol	128	6.058	6.058	0.000	97	406191	4.00	3.79	
114 n-Decane	43	6.077	6.082	-0.005	90	483452	4.00	3.89	
109 1,3-Dichlorobenzene	146	6.182	6.187	-0.005	99	448169	4.00	3.80	
68 1,4-Dichlorobenzene	146	6.239	6.239	0.000	95	453211	4.00	3.85	
76 Benzyl alcohol	108	6.325	6.330	-0.005	93	208309	4.00	3.82	
115 1,2-Dichlorobenzene	146	6.368	6.368	0.000	98	422522	4.00	3.82	
143 2-Methylphenol	107	6.406	6.411	-0.005	96	284288	4.00	3.92	
133 2,2'-oxybis[1-chloropropan	45	6.425	6.430	-0.005	92	671242	4.00	3.91	
102 Indene	116	6.439	6.444	-0.005	90	1039183	8.00	7.87	
86 3 & 4 Methylphenol	108	6.530	6.539	-0.009	98	325925	4.00	3.90	
144 N-Nitrosodi-n-propylamine	70	6.534	6.544	-0.010	82	201350	4.00	3.77	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.544	6.549	-0.005	93	468265	4.00	3.87	
120 Hexachloroethane	117	6.649	6.654	-0.005	95	166035	4.00	3.86	
126 Nitrobenzene	77	6.687	6.692	-0.005	96	328484	4.00	3.83	
107 Isophorone	82	6.882	6.887	-0.005	97	570410	4.00	3.80	
58 2-Nitrophenol	139	6.954	6.958	-0.004	93	218709	4.00	3.75	
62 2,4-Dimethylphenol	122	6.968	6.973	-0.005	93	303691	4.00	3.53	
67 Bis(2-chloroethoxy)methane	93	7.039	7.044	-0.005	92	383715	4.00	3.79	
152 Benzoic acid	122	7.077	7.111	-0.034	91	384920	8.00	7.45	
39 2,4-Dichlorophenol	162	7.154	7.158	-0.004	94	303122	4.00	3.80	
92 1,2,4-Trichlorobenzene	180	7.225	7.230	-0.005	95	343876	4.00	3.81	
132 Naphthalene	128	7.296	7.301	-0.005	99	1053517	4.00	3.81	
47 4-Chloroaniline	127	7.325	7.330	-0.005	96	447758	4.00	3.87	
81 2,6-Dichlorophenol	162	7.339	7.344	-0.005	96	286810	4.00	3.79	
77 Hexachlorobutadiene	225	7.396	7.396	0.000	97	171983	4.00	3.82	
159 4-Chloro-3-methylphenol	107	7.715	7.720	-0.005	90	287922	4.00	3.77	
135 2-Methylnaphthalene	142	7.873	7.873	0.000	96	740171	4.00	3.75	
36 1-Methylnaphthalene	142	7.958	7.958	0.000	95	700946	4.00	3.78	
19 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	96	148351	4.00	3.40	
48 1,2,4,5-Tetrachlorobenzene	216	8.015	8.020	-0.005	97	310040	4.00	3.69	
94 2,4,6-Trichlorophenol	196	8.101	8.106	-0.005	93	205253	4.00	3.75	
95 2,4,5-Trichlorophenol	196	8.135	8.139	-0.005	94	210548	4.00	3.72	
146 1,1'-Biphenyl	154	8.258	8.258	0.000	95	817478	4.00	3.74	
122 2-Chloronaphthalene	162	8.282	8.287	-0.005	97	619351	4.00	3.83	
31 2-Nitroaniline	65	8.358	8.363	-0.005	86	212048	4.00	3.67	
118 Dimethyl phthalate	163	8.496	8.506	-0.010	98	697253	4.00	3.74	
49 1,3-Dinitrobenzene	168	8.535	8.539	-0.005	91	124801	4.00	3.71	
91 2,6-Dinitrotoluene	165	8.554	8.558	-0.004	91	168140	4.00	3.80	
75 Acenaphthylene	152	8.639	8.644	-0.005	98	937335	4.00	3.77	
42 3-Nitroaniline	138	8.701	8.711	-0.010	91	188744	4.00	3.73	
134 Acenaphthene	153	8.787	8.787	0.000	93	665902	4.00	3.77	
128 2,4-Dinitrophenol	184	8.792	8.801	-0.009	91	214292	8.00	7.33	
130 4-Nitrophenol	109	8.835	8.844	-0.010	94	167827	8.00	7.04	a
51 2,4-Dinitrotoluene	165	8.901	8.906	-0.005	92	217048	4.00	3.78	
13 Dibenzofuran	168	8.930	8.935	-0.005	96	837007	4.00	3.71	
170 2,3,4,6-Tetrachlorophenol	232	9.030	9.035	-0.005	74	167759	4.00	3.63	
186 Hexadecane	57	9.087	9.087	0.000	85	604930	4.00	3.89	
90 Diethyl phthalate	149	9.082	9.092	-0.010	98	707005	4.00	3.78	
155 4-Chlorophenyl phenyl ethe	204	9.201	9.201	0.000	93	317994	4.00	3.62	
61 Fluorene	166	9.220	9.225	-0.005	94	677780	4.00	3.70	
69 4-Nitroaniline	138	9.225	9.235	-0.010	80	190147	4.00	3.77	
46 4,6-Dinitro-2-methylphenol	198	9.249	9.258	-0.009	93	236483	8.00	7.61	
74 N-Nitrosodiphenylamine	169	9.296	9.301	-0.005	98	472604	4.00	3.79	
131 Diphenylamine	169	9.296	9.301	-0.005	98	472604	3.40	3.23	
124 1,2-Diphenylhydrazine	77	9.335	9.339	-0.004	94	598885	4.00	3.64	
34 4-Bromophenyl phenyl ether	248	9.615	9.620	-0.005	71	186249	4.00	3.65	
149 Hexachlorobenzene	284	9.701	9.701	0.000	94	197041	4.00	3.71	
137 n-Octadecane	43	9.863	9.863	0.000	90	439795	4.00	4.15	
17 Pentachlorophenol	266	9.858	9.863	-0.005	92	247285	8.00	6.48	
37 Phenanthrene	178	10.039	10.044	-0.005	97	979790	4.00	3.72	
125 Anthracene	178	10.082	10.087	-0.005	98	994223	4.00	3.75	
80 Carbazole	167	10.206	10.211	-0.005	96	793108	4.00	3.85	
162 Di-n-butyl phthalate	149	10.463	10.468	-0.005	100	1197997	4.00	3.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.163	11.168	-0.005	98	1117333	4.00	3.76	
177 Benzidine	184	11.277	11.287	-0.010	97	438878	4.00	2.94	
148 Pyrene	202	11.430	11.435	-0.005	95	1110071	4.00	3.77	
163 Butyl benzyl phthalate	149	12.211	12.211	0.000	96	579409	4.00	3.70	
110 3,3'-Dichlorobenzidine	252	13.120	13.130	-0.010	99	365342	4.00	3.50	
101 Bis(2-ethylhexyl) phthalat	149	13.187	13.192	-0.005	96	777396	4.00	3.75	
14 Benzo[a]anthracene	228	13.182	13.192	-0.010	99	1042503	4.00	3.72	
23 Chrysene	228	13.254	13.263	-0.009	97	895393	4.00	3.72	
79 Di-n-octyl phthalate	149	14.601	14.601	0.000	75	1353376	4.00	3.57	
145 Benzo[b]fluoranthene	252	15.563	15.582	-0.019	98	988249	4.00	3.81	
55 Benzo[k]fluoranthene	252	15.635	15.658	-0.023	99	945254	4.00	3.90	
84 Benzo[a]pyrene	252	16.501	16.520	-0.019	96	940590	4.00	3.90	
96 Indeno[1,2,3-cd]pyrene	276	19.725	19.744	-0.019	97	1076754	4.00	3.94	
59 Dibenz(a,h)anthracene	278	19.787	19.811	-0.024	96	843685	4.00	3.91	
53 Benzo[g,h,i]perylene	276	20.344	20.373	-0.029	98	867635	4.00	3.90	
S 178 Total Cresols, TCEQ Defini	1				0			7.82	
S 179 Methyl Phenols, Total	1				0			7.82	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL7_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

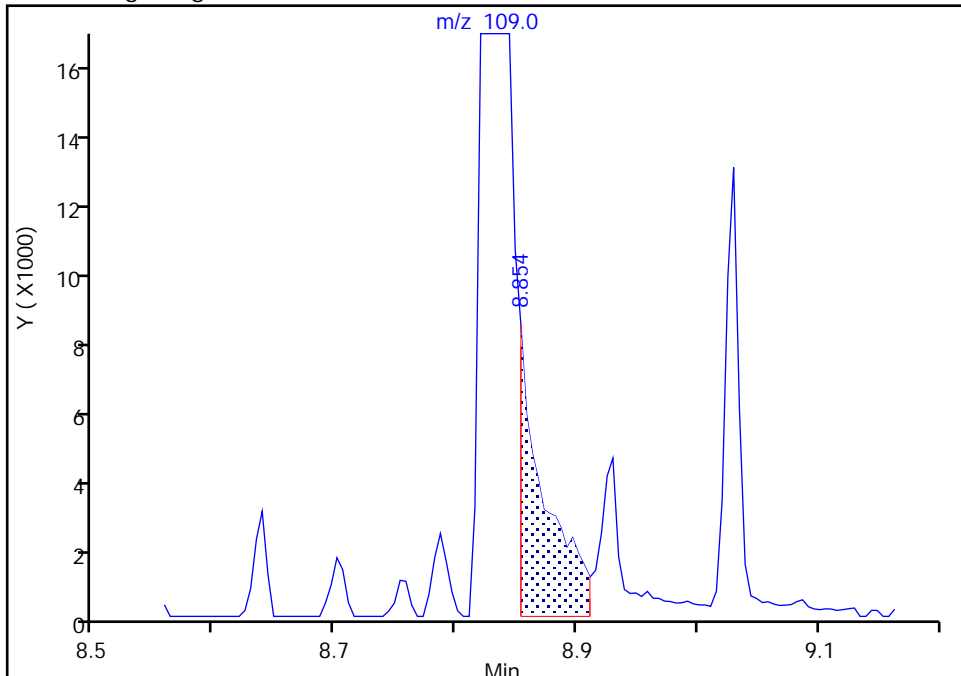
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm20.d
Injection Date: 22-Aug-2018 22:00:30 Instrument ID: CMS24
Lims ID: ic
Client ID:
Operator ID: ges ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

130 4-Nitrophenol, CAS: 100-02-7

Signal: 1

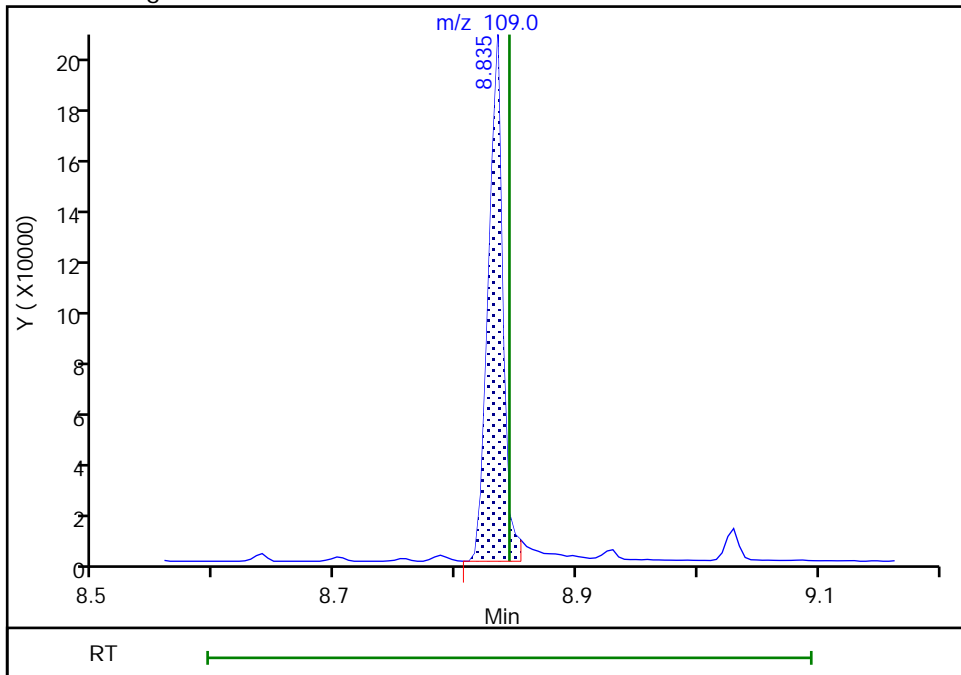
RT: 8.85
Area: 12018
Amount: 0.570620
Amount Units: ug/ml

Processing Integration Results



RT: 8.83
Area: 167827
Amount: 7.038658
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 23-Aug-2018 08:19:53
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\ICIS.d
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 8
 Inject. Date: 22-Aug-2018 22:26:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 500-0054569-009
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:56 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 08:07:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	215809	3.20	3.20	
* 1 Naphthalene-d8	136	7.282	7.282	0.000	99	788962	3.20	3.20	
* 4 Acenaphthene-d10	164	8.758	8.758	0.000	96	349965	3.20	3.20	
* 5 Phenanthrene-d10	188	10.020	10.020	0.000	98	630946	3.20	3.20	
* 6 Chrysene-d12	240	13.211	13.211	0.000	93	581432	3.20	3.20	
* 2 Perylene-d12	264	16.682	16.682	0.000	92	603782	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.168	5.168	0.000	94	602813	8.00	8.79	
\$ 7 Phenol-d5	99	5.915	5.915	0.000	98	698580	8.00	8.46	
\$ 9 Nitrobenzene-d5	82	6.677	6.677	0.000	93	524230	8.00	8.11	
\$ 11 2-Fluorobiphenyl	172	8.168	8.168	0.000	100	1097677	8.00	8.12	
\$ 8 2,4,6-Tribromophenol	330	9.425	9.425	0.000	81	142648	8.00	8.14	
\$ 10 Terphenyl-d14	244	11.577	11.577	0.000	97	1270919	8.00	8.10	
28 1,4-Dioxane	88	3.649	3.649	0.000	85	217026	8.00	7.60	
111 N-Nitrosodimethylamine	42	3.949	3.949	0.000	77	449695	8.00	8.22	
73 Pyridine	79	3.992	3.992	0.000	78	1290830	16.0	17.0	
105 Phenol	94	5.925	5.925	0.000	89	771026	8.00	8.11	
70 Aniline	93	5.958	5.958	0.000	95	927845	8.00	8.10	
121 Bis(2-chloroethyl)ether	93	5.992	5.992	0.000	92	609817	8.00	8.05	
24 2-Chlorophenol	128	6.058	6.058	0.000	98	750235	8.00	8.18	
114 n-Decane	43	6.082	6.082	0.000	90	843226	8.00	7.94	
109 1,3-Dichlorobenzene	146	6.187	6.187	0.000	98	821566	8.00	8.16	
68 1,4-Dichlorobenzene	146	6.239	6.239	0.000	94	806533	8.00	8.02	
76 Benzyl alcohol	108	6.330	6.330	0.000	85	387942	8.00	8.32	
115 1,2-Dichlorobenzene	146	6.368	6.368	0.000	96	758663	8.00	8.02	
143 2-Methylphenol	107	6.411	6.411	0.000	96	496932	8.00	8.02	
133 2,2'-oxybis[1-chloropropan	45	6.430	6.430	0.000	91	1177921	8.00	8.03	
102 Indene	116	6.444	6.444	0.000	73	1795519	16.0	15.9	
86 3 & 4 Methylphenol	108	6.539	6.539	0.000	92	579014	8.00	8.11	
144 N-Nitrosodi-n-propylamine	70	6.544	6.544	0.000	79	358485	8.00	7.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.549	6.549	0.000	91	811897	8.00	7.85	
120 Hexachloroethane	117	6.654	6.654	0.000	89	294237	8.00	8.01	
126 Nitrobenzene	77	6.692	6.692	0.000	95	575891	8.00	8.18	
107 Isophorone	82	6.887	6.887	0.000	95	1010763	8.00	8.19	
58 2-Nitrophenol	139	6.958	6.958	0.000	91	388566	8.00	8.10	
62 2,4-Dimethylphenol	122	6.973	6.973	0.000	93	579871	8.00	8.20	
67 Bis(2-chloroethoxy)methane	93	7.044	7.044	0.000	93	674876	8.00	8.12	
152 Benzoic acid	122	7.111	7.111	0.000	89	721713	16.0	17.0	
39 2,4-Dichlorophenol	162	7.158	7.158	0.000	94	529449	8.00	8.08	
92 1,2,4-Trichlorobenzene	180	7.230	7.230	0.000	94	601705	8.00	8.11	
132 Naphthalene	128	7.301	7.301	0.000	99	1818092	8.00	8.02	
47 4-Chloroaniline	127	7.330	7.330	0.000	84	784423	8.00	8.25	
81 2,6-Dichlorophenol	162	7.344	7.344	0.000	95	492375	8.00	7.93	
77 Hexachlorobutadiene	225	7.396	7.396	0.000	92	294123	8.00	7.95	
159 4-Chloro-3-methylphenol	107	7.720	7.720	0.000	90	516815	8.00	8.24	
135 2-Methylnaphthalene	142	7.873	7.873	0.000	83	1333538	8.00	8.22	
36 1-Methylnaphthalene	142	7.958	7.958	0.000	80	1238035	8.00	8.14	
19 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	87	281651	8.00	8.19	
48 1,2,4,5-Tetrachlorobenzene	216	8.020	8.020	0.000	91	542836	8.00	8.20	
94 2,4,6-Trichlorophenol	196	8.106	8.106	0.000	90	352347	8.00	8.16	
95 2,4,5-Trichlorophenol	196	8.139	8.139	0.000	94	360265	8.00	8.07	
146 1,1'-Biphenyl	154	8.258	8.258	0.000	95	1405867	8.00	8.15	
122 2-Chloronaphthalene	162	8.287	8.287	0.000	97	1028357	8.00	8.06	
31 2-Nitroaniline	65	8.363	8.363	0.000	82	372889	8.00	8.17	
118 Dimethyl phthalate	163	8.506	8.506	0.000	98	1194015	8.00	8.11	
49 1,3-Dinitrobenzene	168	8.539	8.539	0.000	84	216300	8.00	8.15	
91 2,6-Dinitrotoluene	165	8.558	8.558	0.000	85	290176	8.00	8.32	
75 Acenaphthylene	152	8.644	8.644	0.000	91	1611716	8.00	8.22	
42 3-Nitroaniline	138	8.711	8.711	0.000	90	333084	8.00	8.35	
134 Acenaphthene	153	8.787	8.787	0.000	92	1162806	8.00	8.34	
128 2,4-Dinitrophenol	184	8.801	8.801	0.000	77	394336	16.0	17.1	
130 4-Nitrophenol	109	8.844	8.844	0.000	93	305582	16.0	16.2	
51 2,4-Dinitrotoluene	165	8.906	8.906	0.000	87	372439	8.00	8.23	
13 Dibenzofuran	168	8.935	8.935	0.000	86	1417956	8.00	7.98	
170 2,3,4,6-Tetrachlorophenol	232	9.035	9.035	0.000	69	297714	8.00	8.16	
186 Hexadecane	57	9.087	9.087	0.000	83	996221	8.00	8.11	
90 Diethyl phthalate	149	9.092	9.092	0.000	97	1195556	8.00	8.10	
155 4-Chlorophenyl phenyl ethe	204	9.201	9.201	0.000	93	552608	8.00	7.98	
61 Fluorene	166	9.225	9.225	0.000	83	1165927	8.00	8.06	
69 4-Nitroaniline	138	9.235	9.235	0.000	74	330571	8.00	8.30	
46 4,6-Dinitro-2-methylphenol	198	9.258	9.258	0.000	92	405826	16.0	16.3	
131 Diphenylamine	169	9.301	9.301	0.000	96	810817	6.80	6.93	
74 N-Nitrosodiphenylamine	169	9.301	9.301	0.000	96	810817	8.00	8.13	
124 1,2-Diphenylhydrazine	77	9.339	9.339	0.000	91	1039901	8.00	8.01	
34 4-Bromophenyl phenyl ether	248	9.620	9.620	0.000	62	328022	8.00	8.03	
149 Hexachlorobenzene	284	9.701	9.701	0.000	83	346049	8.00	8.15	
137 n-Octadecane	43	9.863	9.863	0.000	91	701031	8.00	8.28	
17 Pentachlorophenol	266	9.858	9.858	0.000	73	500030	16.0	16.4	
37 Phenanthrene	178	10.044	10.044	0.000	92	1736911	8.00	8.25	
125 Anthracene	178	10.087	10.087	0.000	97	1750155	8.00	8.25	
80 Carbazole	167	10.211	10.211	0.000	86	1455314	8.00	8.84	
162 Di-n-butyl phthalate	149	10.468	10.468	0.000	99	2120641	8.00	8.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.168	11.168	0.000	98	2059396	8.00	8.66	
177 Benzidine	184	11.287	11.287	0.000	97	935589	8.00	7.66	
148 Pyrene	202	11.435	11.435	0.000	91	1993853	8.00	8.27	
163 Butyl benzyl phthalate	149	12.211	12.211	0.000	96	1060502	8.00	8.27	
110 3,3'-Dichlorobenzidine	252	13.130	13.130	0.000	99	718451	8.00	8.40	
14 Benzo[a]anthracene	228	13.192	13.192	0.000	89	1894781	8.00	8.26	
101 Bis(2-ethylhexyl) phthalat	149	13.192	13.192	0.000	89	1408319	8.00	8.29	
23 Chrysene	228	13.263	13.263	0.000	87	1546368	8.00	7.83	
79 Di-n-octyl phthalate	149	14.601	14.601	0.000	62	2566859	8.00	8.46	
145 Benzo[b]fluoranthene	252	15.582	15.582	0.000	86	1835059	8.00	8.31	
55 Benzo[k]fluoranthene	252	15.658	15.658	0.000	85	1735400	8.00	8.42	
84 Benzo[a]pyrene	252	16.520	16.520	0.000	68	1751925	8.00	8.55	
96 Indeno[1,2,3-cd]pyrene	276	19.744	19.744	0.000	92	2004714	8.00	8.62	
59 Dibenz(a,h)anthracene	278	19.811	19.811	0.000	80	1550711	8.00	8.46	
53 Benzo[g,h,i]perylene	276	20.373	20.373	0.000	91	1560319	8.00	8.24	

Reagents:

SMIst1_5uLL8_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\ICIS.d

Injection Date: 22-Aug-2018 22:26:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: icis

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

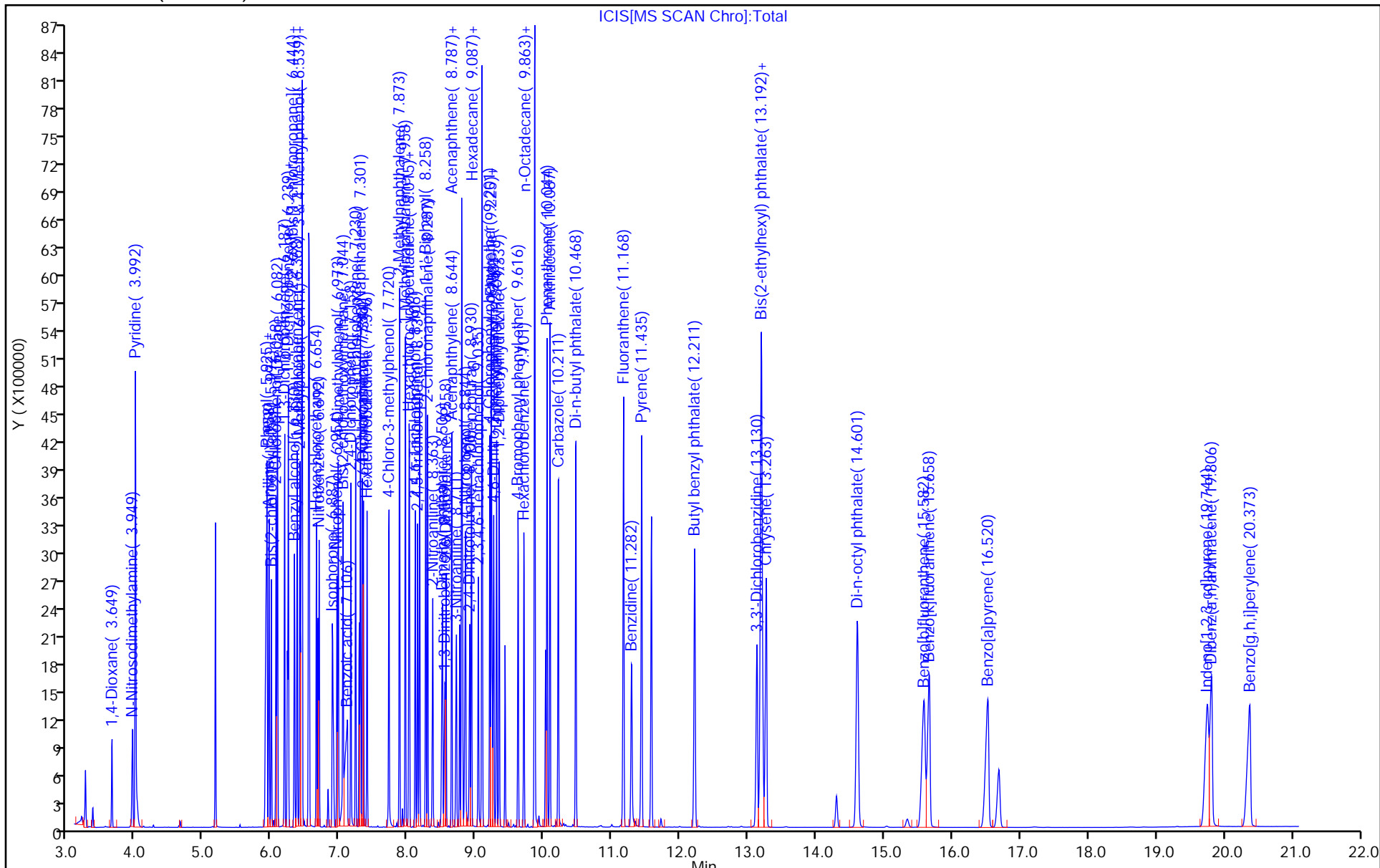
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm50.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 22-Aug-2018 22:52:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-010
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:12:04 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 09:07:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	222117	3.20	3.20	
* 1 Naphthalene-d8	136	7.282	7.282	0.000	99	796503	3.20	3.20	
* 4 Acenaphthene-d10	164	8.758	8.758	0.000	97	348735	3.20	3.20	
* 5 Phenanthrene-d10	188	10.020	10.020	0.000	98	637730	3.20	3.20	
* 6 Chrysene-d12	240	13.216	13.211	0.005	98	584331	3.20	3.20	
* 2 Perylene-d12	264	16.687	16.682	0.005	96	612495	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.168	5.168	0.000	94	791873	10.0	11.2	
\$ 7 Phenol-d5	99	5.916	5.915	0.001	98	905494	10.0	10.7	
\$ 9 Nitrobenzene-d5	82	6.677	6.677	0.000	93	670668	10.0	10.3	
\$ 11 2-Fluorobiphenyl	172	8.173	8.168	0.005	100	1347191	10.0	10.0	
\$ 8 2,4,6-Tribromophenol	330	9.430	9.425	0.005	80	181199	10.0	10.4	
\$ 10 Terphenyl-d14	244	11.582	11.577	0.005	98	1606491	10.0	10.2	
28 1,4-Dioxane	88	3.644	3.649	-0.005	87	297378	10.0	10.1	
111 N-Nitrosodimethylamine	42	3.954	3.949	0.005	78	571795	10.0	10.2	
73 Pyridine	79	3.992	3.992	0.000	79	1613737	20.0	20.6	
105 Phenol	94	5.930	5.925	0.005	94	975111	10.0	9.96	
70 Aniline	93	5.958	5.958	0.000	94	1160496	10.0	9.84	
121 Bis(2-chloroethyl)ether	93	5.992	5.992	0.000	91	767863	10.0	9.85	
24 2-Chlorophenol	128	6.063	6.058	0.005	97	938038	10.0	9.94	
114 n-Decane	43	6.082	6.082	0.000	90	1031139	10.0	9.43	
109 1,3-Dichlorobenzene	146	6.187	6.187	0.000	99	1019650	10.0	9.84	
68 1,4-Dichlorobenzene	146	6.239	6.239	0.000	95	1006418	10.0	9.73	
76 Benzyl alcohol	108	6.335	6.330	0.005	93	482818	10.0	10.1	
115 1,2-Dichlorobenzene	146	6.373	6.368	0.005	98	937991	10.0	9.64	
143 2-Methylphenol	107	6.411	6.411	0.000	97	627072	10.0	9.83	
133 2,2'-oxybis[1-chloropropan	45	6.430	6.430	0.000	92	1401156	10.0	9.28	
102 Indene	116	6.444	6.444	0.000	89	2197295	20.0	18.9	
86 3 & 4 Methylphenol	108	6.544	6.539	0.005	94	711687	10.0	9.68	
144 N-Nitrosodi-n-propylamine	70	6.549	6.544	0.005	80	436616	10.0	9.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.549	6.549	0.000	95	994340	10.0	9.34	
120 Hexachloroethane	117	6.654	6.654	0.000	93	362781	10.0	9.60	
126 Nitrobenzene	77	6.697	6.692	0.005	95	702348	10.0	9.88	
107 Isophorone	82	6.892	6.887	0.005	97	1244532	10.0	9.99	
58 2-Nitrophenol	139	6.958	6.958	0.000	93	481437	10.0	9.95	
62 2,4-Dimethylphenol	122	6.977	6.973	0.004	93	710477	10.0	9.96	
67 Bis(2-chloroethoxy)methane	93	7.044	7.044	0.000	92	830722	10.0	9.90	
152 Benzoic acid	122	7.125	7.111	0.014	94	923999	20.0	21.6	
39 2,4-Dichlorophenol	162	7.163	7.158	0.005	95	657877	10.0	9.95	
92 1,2,4-Trichlorobenzene	180	7.230	7.230	0.000	95	737770	10.0	9.85	
132 Naphthalene	128	7.301	7.301	0.000	99	2207877	10.0	9.64	
47 4-Chloroaniline	127	7.335	7.330	0.005	96	955447	10.0	9.95	
81 2,6-Dichlorophenol	162	7.344	7.344	0.000	95	604788	10.0	9.65	
77 Hexachlorobutadiene	225	7.397	7.396	0.001	97	360023	10.0	9.64	
159 4-Chloro-3-methylphenol	107	7.720	7.720	0.000	90	623685	10.0	9.85	
135 2-Methylnaphthalene	142	7.878	7.873	0.005	96	1654285	10.0	10.1	
36 1-Methylnaphthalene	142	7.963	7.958	0.005	95	1515817	10.0	9.87	
19 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	96	355438	10.0	10.4	
48 1,2,4,5-Tetrachlorobenzene	216	8.020	8.020	0.000	96	668310	10.0	10.1	
94 2,4,6-Trichlorophenol	196	8.106	8.106	0.000	93	430679	10.0	10.0	
95 2,4,5-Trichlorophenol	196	8.139	8.139	0.000	94	445455	10.0	10.0	
146 1,1'-Biphenyl	154	8.263	8.258	0.005	95	1707838	10.0	9.94	
122 2-Chloronaphthalene	162	8.292	8.287	0.005	96	1239117	10.0	9.75	
31 2-Nitroaniline	65	8.368	8.363	0.005	84	460189	10.0	10.1	
118 Dimethyl phthalate	163	8.511	8.506	0.005	98	1451731	10.0	9.90	
49 1,3-Dinitrobenzene	168	8.544	8.539	0.005	86	262806	10.0	9.94	
91 2,6-Dinitrotoluene	165	8.563	8.558	0.005	91	351080	10.0	10.1	
75 Acenaphthylene	152	8.644	8.644	0.000	98	1975483	10.0	10.1	
42 3-Nitroaniline	138	8.716	8.711	0.005	90	407468	10.0	10.3	
134 Acenaphthene	153	8.792	8.787	0.005	93	1418588	10.0	10.2	
128 2,4-Dinitrophenol	184	8.806	8.801	0.005	80	492230	20.0	21.4	
130 4-Nitrophenol	109	8.849	8.844	0.005	94	387751	20.0	20.7	
51 2,4-Dinitrotoluene	165	8.911	8.906	0.005	92	450062	10.0	9.98	
13 Dibenzofuran	168	8.935	8.935	0.000	96	1732131	10.0	9.78	
170 2,3,4,6-Tetrachlorophenol	232	9.035	9.035	0.000	74	368638	10.0	10.1	
186 Hexadecane	57	9.087	9.087	0.000	86	1168716	10.0	9.55	
90 Diethyl phthalate	149	9.092	9.092	0.000	98	1457429	10.0	9.91	
155 4-Chlorophenyl phenyl ethe	204	9.206	9.201	0.005	93	676152	10.0	9.80	
61 Fluorene	166	9.225	9.225	0.000	94	1423848	10.0	9.88	
69 4-Nitroaniline	138	9.244	9.235	0.009	83	402065	10.0	10.1	
46 4,6-Dinitro-2-methylphenol	198	9.263	9.258	0.005	92	497329	20.0	19.8	
74 N-Nitrosodiphenylamine	169	9.306	9.301	0.005	97	992861	10.0	9.85	
131 Diphenylamine	169	9.306	9.301	0.005	98	992861	8.50	8.40	
124 1,2-Diphenylhydrazine	77	9.339	9.339	0.000	94	1286956	10.0	9.95	
34 4-Bromophenyl phenyl ether	248	9.620	9.620	0.000	69	412491	10.0	9.99	
149 Hexachlorobenzene	284	9.706	9.701	0.005	94	433668	10.0	10.1	
137 n-Octadecane	43	9.863	9.863	0.000	92	812129	10.0	9.49	
17 Pentachlorophenol	266	9.863	9.858	0.005	87	647109	20.0	21.0	
37 Phenanthrene	178	10.044	10.044	0.000	97	2143155	10.0	10.1	
125 Anthracene	178	10.092	10.087	0.005	98	2143883	10.0	10.0	
80 Carbazole	167	10.211	10.211	0.000	96	1785800	10.0	10.7	
162 Di-n-butyl phthalate	149	10.468	10.468	0.000	100	2610946	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.173	11.168	0.005	98	2549872	10.0	10.6	
177 Benzidine	184	11.287	11.287	0.000	97	1213179	10.0	9.88	
148 Pyrene	202	11.439	11.435	0.004	95	2464456	10.0	10.2	
163 Butyl benzyl phthalate	149	12.216	12.211	0.005	96	1331233	10.0	10.3	
110 3,3'-Dichlorobenzidine	252	13.135	13.130	0.005	99	918056	10.0	10.7	
101 Bis(2-ethylhexyl) phthalat	149	13.192	13.192	0.000	92	1742645	10.0	10.2	
14 Benzo[a]anthracene	228	13.197	13.192	0.005	97	2353149	10.0	10.2	
23 Chrysene	228	13.273	13.263	0.010	97	1896294	10.0	9.56	
79 Di-n-octyl phthalate	149	14.606	14.601	0.005	75	3248199	10.0	10.6	
145 Benzo[b]fluoranthene	252	15.597	15.582	0.015	98	2385245	10.0	10.7	
55 Benzo[k]fluoranthene	252	15.673	15.658	0.015	98	2052660	10.0	9.82	
84 Benzo[a]pyrene	252	16.535	16.520	0.015	96	2189463	10.0	10.5	
96 Indeno[1,2,3-cd]pyrene	276	19.754	19.744	0.010	97	2513252	10.0	10.7	
59 Dibenz(a,h)anthracene	278	19.821	19.811	0.010	95	1923356	10.0	10.3	
53 Benzo[g,h,i]perylene	276	20.387	20.373	0.014	98	1924536	10.0	10.0	
S 178 Total Cresols, TCEQ Defini	1				0			19.5	
S 179 Methyl Phenols, Total	1				0			19.5	

Reagents:

SMLst1_5uLL9_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm50.d

Injection Date: 22-Aug-2018 22:52:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 10

Client ID:

Injection Vol: 5.0 ul

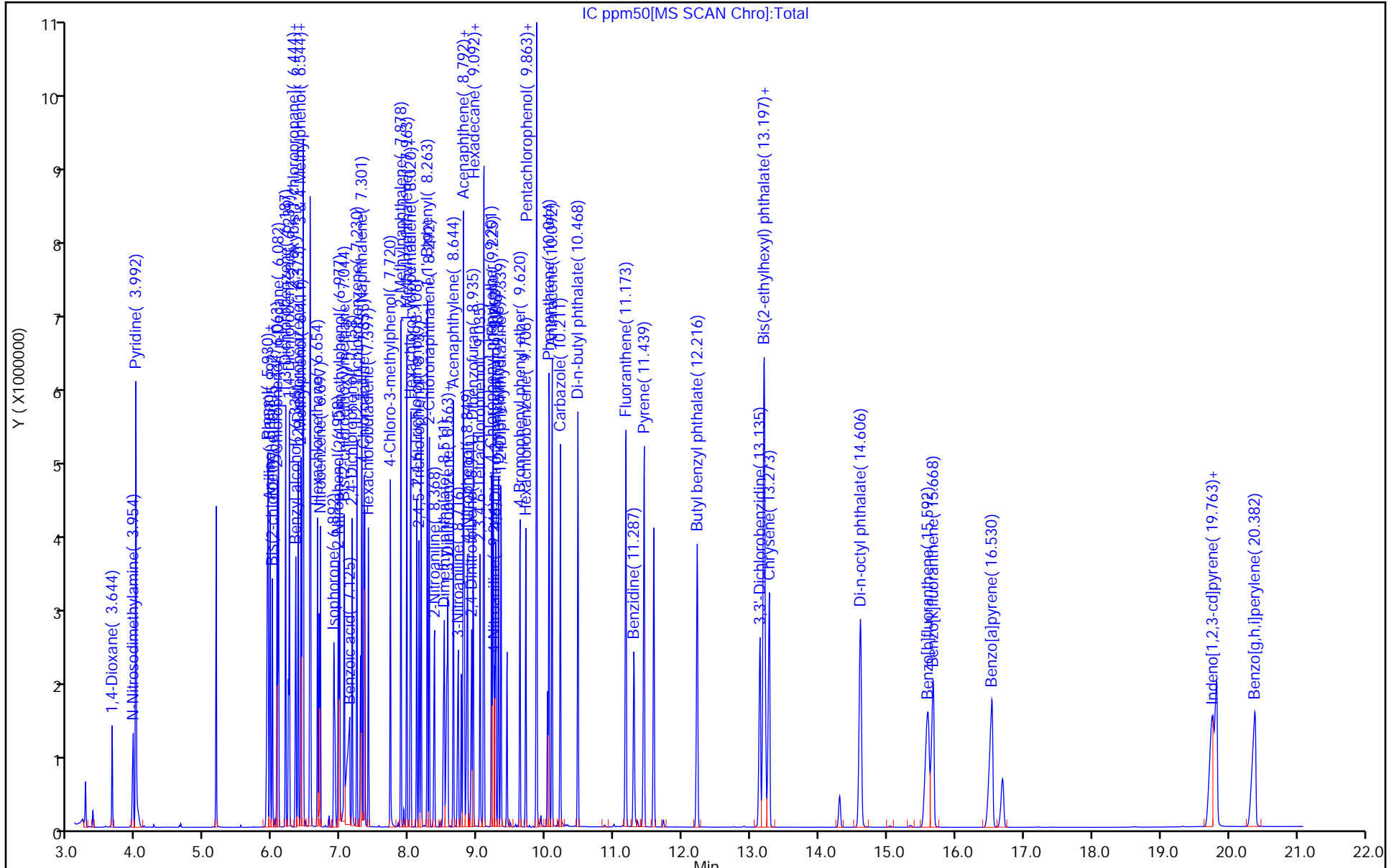
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 24-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm60.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 22-Aug-2018 23:18:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-011
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:12:10 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 09:08:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	195094	3.20	3.20	
* 1 Naphthalene-d8	136	7.282	7.282	0.000	99	685823	3.20	3.20	
* 4 Acenaphthene-d10	164	8.758	8.758	0.000	98	298192	3.20	3.20	
* 5 Phenanthrene-d10	188	10.025	10.020	0.005	98	551727	3.20	3.20	
* 6 Chrysene-d12	240	13.220	13.211	0.009	98	501259	3.20	3.20	
* 2 Perylene-d12	264	16.692	16.682	0.010	96	530353	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.168	5.168	0.000	94	912217	12.0	14.7	
\$ 7 Phenol-d5	99	5.920	5.915	0.005	98	1047060	12.0	14.0	
\$ 9 Nitrobenzene-d5	82	6.677	6.677	0.000	92	745816	12.0	13.3	
\$ 11 2-Fluorobiphenyl	172	8.173	8.168	0.005	100	1523504	12.0	13.2	
\$ 8 2,4,6-Tribromophenol	330	9.430	9.425	0.005	79	213712	12.0	14.3	
\$ 10 Terphenyl-d14	244	11.582	11.577	0.005	98	1855416	12.0	13.7	
28 1,4-Dioxane	88	3.649	3.649	0.000	87	343732	12.0	13.3	
111 N-Nitrosodimethylamine	42	3.958	3.949	0.009	88	664466	12.0	13.4	
73 Pyridine	79	3.996	3.992	0.004	80	1791571	24.0	26.1	
105 Phenol	94	5.935	5.925	0.009	94	1124491	12.0	13.1	
70 Aniline	93	5.963	5.958	0.005	95	1347134	12.0	13.0	
121 Bis(2-chloroethyl)ether	93	5.992	5.992	0.000	92	880900	12.0	12.9	
24 2-Chlorophenol	128	6.063	6.058	0.005	97	1074458	12.0	13.0	
114 n-Decane	43	6.082	6.082	0.000	90	1156153	12.0	12.0	
109 1,3-Dichlorobenzene	146	6.187	6.187	0.000	99	1170061	12.0	12.9	
68 1,4-Dichlorobenzene	146	6.244	6.239	0.005	96	1160462	12.0	12.8	
76 Benzyl alcohol	108	6.339	6.330	0.009	93	556058	12.0	13.2	
115 1,2-Dichlorobenzene	146	6.373	6.368	0.005	98	1079511	12.0	12.6	
143 2-Methylphenol	107	6.415	6.411	0.004	96	717428	12.0	12.8	
133 2,2'-oxybis[1-chloropropan	45	6.430	6.430	0.000	92	1573074	12.0	11.9	
102 Indene	116	6.444	6.444	0.000	90	2482056	24.0	24.3	
86 3 & 4 Methylphenol	108	6.544	6.539	0.005	98	813220	12.0	12.6	
144 N-Nitrosodi-n-propylamine	70	6.554	6.544	0.010	79	495295	12.0	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.554	6.549	0.005	93	1135010	12.0	12.1	
120 Hexachloroethane	117	6.654	6.654	0.000	92	417922	12.0	12.6	
126 Nitrobenzene	77	6.696	6.692	0.004	96	815368	12.0	13.3	
107 Isophorone	82	6.896	6.887	0.009	97	1420772	12.0	13.2	
58 2-Nitrophenol	139	6.958	6.958	0.000	94	556697	12.0	13.4	
62 2,4-Dimethylphenol	122	6.977	6.973	0.004	92	824306	12.0	13.4	
67 Bis(2-chloroethoxy)methane	93	7.049	7.044	0.005	96	948102	12.0	13.1	
152 Benzoic acid	122	7.135	7.111	0.024	91	1086478	24.0	29.5	
39 2,4-Dichlorophenol	162	7.163	7.158	0.005	95	751001	12.0	13.2	
92 1,2,4-Trichlorobenzene	180	7.230	7.230	0.000	95	846490	12.0	13.1	
132 Naphthalene	128	7.301	7.301	0.000	99	2525427	12.0	12.8	
47 4-Chloroaniline	127	7.335	7.330	0.005	96	1078986	12.0	13.1	
81 2,6-Dichlorophenol	162	7.344	7.344	0.000	96	699590	12.0	13.0	
77 Hexachlorobutadiene	225	7.401	7.396	0.005	96	413426	12.0	12.9	
159 4-Chloro-3-methylphenol	107	7.720	7.720	0.000	90	720358	12.0	13.2	
135 2-Methylnaphthalene	142	7.877	7.873	0.004	96	1888896	12.0	13.4	
36 1-Methylnaphthalene	142	7.963	7.958	0.005	95	1739262	12.0	13.2	
19 Hexachlorocyclopentadiene	237	8.015	8.011	0.004	96	413188	12.0	14.1	
48 1,2,4,5-Tetrachlorobenzene	216	8.020	8.020	0.000	97	774264	12.0	13.7	
94 2,4,6-Trichlorophenol	196	8.106	8.106	0.000	93	492240	12.0	13.4	
95 2,4,5-Trichlorophenol	196	8.144	8.139	0.005	95	504341	12.0	13.3	
146 1,1'-Biphenyl	154	8.263	8.258	0.005	95	1934868	12.0	13.2	
122 2-Chloronaphthalene	162	8.292	8.287	0.005	96	1394744	12.0	12.8	
31 2-Nitroaniline	65	8.368	8.363	0.005	83	531634	12.0	13.7	
118 Dimethyl phthalate	163	8.515	8.506	0.009	98	1653061	12.0	13.2	
49 1,3-Dinitrobenzene	168	8.549	8.539	0.010	88	302372	12.0	13.4	
91 2,6-Dinitrotoluene	165	8.563	8.558	0.005	90	400548	12.0	13.5	
75 Acenaphthylene	152	8.644	8.644	0.000	98	2248458	12.0	13.5	
42 3-Nitroaniline	138	8.715	8.711	0.004	90	465973	12.0	13.7	
134 Acenaphthene	153	8.792	8.787	0.005	93	1623686	12.0	13.7	
128 2,4-Dinitrophenol	184	8.806	8.801	0.005	77	569902	24.0	29.0	
130 4-Nitrophenol	109	8.854	8.844	0.010	93	443168	24.0	27.7	
51 2,4-Dinitrotoluene	165	8.915	8.906	0.009	92	512702	12.0	13.3	
13 Dibenzofuran	168	8.935	8.935	0.000	96	1987654	12.0	13.1	
170 2,3,4,6-Tetrachlorophenol	232	9.035	9.035	0.000	74	419386	12.0	13.5	
186 Hexadecane	57	9.087	9.087	0.000	86	1304674	12.0	12.5	
90 Diethyl phthalate	149	9.096	9.092	0.004	98	1641958	12.0	13.1	
155 4-Chlorophenyl phenyl ethe	204	9.206	9.201	0.005	92	787430	12.0	13.3	
61 Fluorene	166	9.225	9.225	0.000	94	1630477	12.0	13.2	
69 4-Nitroaniline	138	9.249	9.235	0.014	77	460193	12.0	13.6	
46 4,6-Dinitro-2-methylphenol	198	9.268	9.258	0.010	92	564030	24.0	25.9	
131 Diphenylamine	169	9.306	9.301	0.005	98	1124312	10.2	11.0	
74 N-Nitrosodiphenylamine	169	9.306	9.301	0.005	98	1124312	12.0	12.9	
124 1,2-Diphenylhydrazine	77	9.344	9.339	0.005	94	1466206	12.0	13.3	
34 4-Bromophenyl phenyl ether	248	9.620	9.620	0.000	70	474506	12.0	13.3	
149 Hexachlorobenzene	284	9.706	9.701	0.005	95	508805	12.0	13.7	
17 Pentachlorophenol	266	9.863	9.858	0.005	88	770063	24.0	28.8	
137 n-Octadecane	43	9.868	9.863	0.005	93	883671	12.0	11.9	
37 Phenanthrene	178	10.049	10.044	0.005	97	2453943	12.0	13.3	
125 Anthracene	178	10.092	10.087	0.005	98	2452941	12.0	13.2	
80 Carbazole	167	10.211	10.211	0.000	96	2100344	12.0	14.6	
162 Di-n-butyl phthalate	149	10.468	10.468	0.000	99	3003450	12.0	13.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.173	11.168	0.005	98	2977493	12.0	14.3	
177 Benzidine	184	11.292	11.287	0.005	97	1465509	12.0	13.9	
148 Pyrene	202	11.439	11.435	0.004	95	2832249	12.0	13.6	
163 Butyl benzyl phthalate	149	12.220	12.211	0.009	96	1549660	12.0	14.0	
110 3,3'-Dichlorobenzidine	252	13.139	13.130	0.009	99	1079275	12.0	14.6	
14 Benzo[a]anthracene	228	13.197	13.192	0.004	97	2697921	12.0	13.6	
101 Bis(2-ethylhexyl) phthalat	149	13.197	13.192	0.004	93	1997847	12.0	13.6	
23 Chrysene	228	13.277	13.263	0.014	97	2179363	12.0	12.8	
79 Di-n-octyl phthalate	149	14.611	14.601	0.010	73	3782105	12.0	14.3	
145 Benzo[b]fluoranthene	252	15.606	15.582	0.024	98	2888199	12.0	14.9	
55 Benzo[k]fluoranthene	252	15.682	15.658	0.024	98	2226490	12.0	12.3	
84 Benzo[a]pyrene	252	16.544	16.520	0.024	96	2535899	12.0	14.1	
96 Indeno[1,2,3-cd]pyrene	276	19.759	19.744	0.014	97	2876648	12.0	14.1	
59 Dibenz(a,h)anthracene	278	19.835	19.811	0.024	95	2192809	12.0	13.6	
53 Benzo[g,h,i]perylene	276	20.397	20.373	0.024	98	2162224	12.0	13.0	
S 179 Methyl Phenols, Total	1				0			25.4	
S 178 Total Cresols, TCEQ Defini	1				0			25.4	

Reagents:

SMLst1_5uLL10_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm60.d

Injection Date: 22-Aug-2018 23:18:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 11

Client ID:

Injection Vol: 5.0 ul

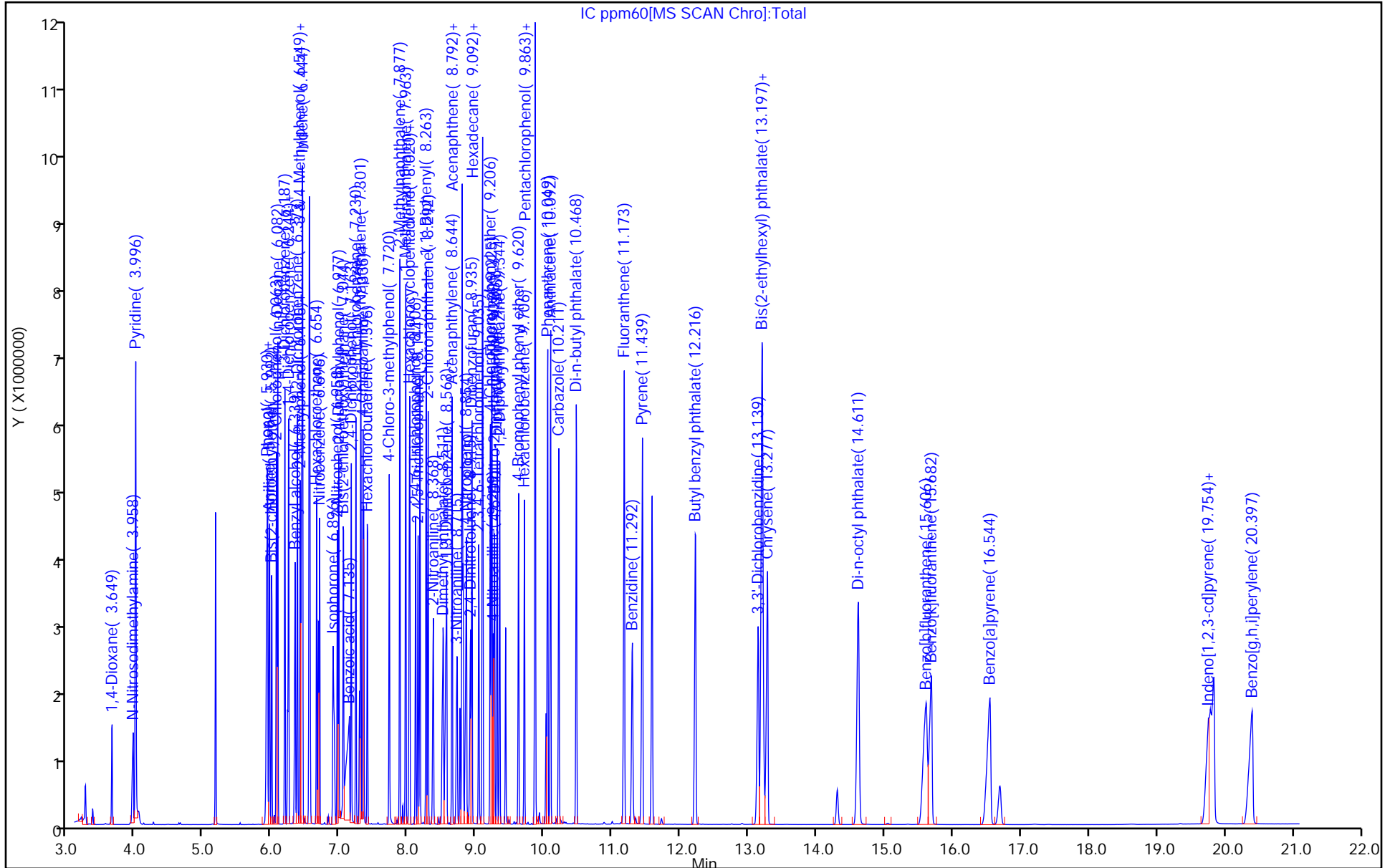
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 22-Aug-2018 23:43:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 500-0054569-012
 Operator ID: ges Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:12:16 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg

Date: 23-Aug-2018 09:08:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.230	6.225	0.005	94	212327	3.20	3.20	
* 1 Naphthalene-d8	136	7.282	7.282	0.000	99	736956	3.20	3.20	
* 4 Acenaphthene-d10	164	8.763	8.758	0.005	97	324892	3.20	3.20	
* 5 Phenanthrene-d10	188	10.025	10.020	0.005	98	600400	3.20	3.20	
* 6 Chrysene-d12	240	13.225	13.211	0.014	98	539508	3.20	3.20	
* 2 Perylene-d12	264	16.696	16.682	0.014	96	581329	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.173	5.168	0.004	94	1132629	14.0	16.8	
\$ 7 Phenol-d5	99	5.925	5.915	0.010	98	1293293	14.0	15.9	
\$ 9 Nitrobenzene-d5	82	6.682	6.677	0.005	94	908732	14.0	15.0	
\$ 11 2-Fluorobiphenyl	172	8.173	8.168	0.005	100	1834182	14.0	14.6	
\$ 8 2,4,6-Tribromophenol	330	9.434	9.425	0.009	78	266805	14.0	16.4	
\$ 10 Terphenyl-d14	244	11.587	11.577	0.010	98	2256948	14.0	15.5	
28 1,4-Dioxane	88	3.649	3.649	0.000	87	445334	14.0	15.9	
111 N-Nitrosodimethylamine	42	3.963	3.949	0.014	78	823986	14.0	15.3	
73 Pyridine	79	3.996	3.992	0.004	81	2142763	28.0	28.6	
105 Phenol	94	5.934	5.925	0.009	95	1391691	14.0	14.9	
70 Aniline	93	5.963	5.958	0.005	95	1637071	14.0	14.5	
121 Bis(2-chloroethyl)ether	93	5.996	5.992	0.004	92	1070803	14.0	14.4	
24 2-Chlorophenol	128	6.063	6.058	0.005	98	1323683	14.0	14.7	
114 n-Decane	43	6.082	6.082	0.000	90	1362931	14.0	13.0	
109 1,3-Dichlorobenzene	146	6.187	6.187	0.000	99	1426533	14.0	14.4	
68 1,4-Dichlorobenzene	146	6.244	6.239	0.005	95	1404807	14.0	14.2	
76 Benzyl alcohol	108	6.344	6.330	0.014	93	690072	14.0	15.0	
115 1,2-Dichlorobenzene	146	6.373	6.368	0.005	99	1308276	14.0	14.1	
143 2-Methylphenol	107	6.415	6.411	0.004	97	867666	14.0	14.2	
133 2,2'-oxybis[1-chloropropan	45	6.430	6.430	0.000	91	1807453	14.0	12.5	
102 Indene	116	6.449	6.444	0.005	90	2932084	28.0	26.4	
86 3 & 4 Methylphenol	108	6.549	6.539	0.010	92	968941	14.0	13.8	
144 N-Nitrosodi-n-propylamine	70	6.558	6.544	0.014	81	596343	14.0	13.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Acetophenone	105	6.553	6.549	0.004	97	1345918	14.0	13.2	
120 Hexachloroethane	117	6.653	6.654	-0.001	92	505592	14.0	14.0	
126 Nitrobenzene	77	6.701	6.692	0.009	96	961844	14.0	14.6	
107 Isophorone	82	6.901	6.887	0.014	97	1719040	14.0	14.9	
58 2-Nitrophenol	139	6.963	6.958	0.005	93	669084	14.0	14.9	
62 2,4-Dimethylphenol	122	6.982	6.973	0.009	92	997351	14.0	15.1	
67 Bis(2-chloroethoxy)methane	93	7.049	7.044	0.005	92	1144914	14.0	14.8	
152 Benzoic acid	122	7.149	7.111	0.038	91	1305511	28.0	33.0	
39 2,4-Dichlorophenol	162	7.163	7.158	0.005	94	905626	14.0	14.8	
92 1,2,4-Trichlorobenzene	180	7.234	7.230	0.004	95	1008643	14.0	14.6	
132 Naphthalene	128	7.306	7.301	0.005	99	2980462	14.0	14.1	
47 4-Chloroaniline	127	7.339	7.330	0.009	96	1287207	14.0	14.5	
81 2,6-Dichlorophenol	162	7.349	7.344	0.005	94	835135	14.0	14.4	
77 Hexachlorobutadiene	225	7.401	7.396	0.005	96	496774	14.0	14.4	
159 4-Chloro-3-methylphenol	107	7.725	7.720	0.005	90	855046	14.0	14.6	
135 2-Methylnaphthalene	142	7.877	7.873	0.004	96	2294380	14.0	15.1	
36 1-Methylnaphthalene	142	7.963	7.958	0.005	95	2107874	14.0	14.8	
19 Hexachlorocyclopentadiene	237	8.015	8.011	0.004	95	511107	14.0	16.0	
48 1,2,4,5-Tetrachlorobenzene	216	8.025	8.020	0.005	96	920456	14.0	15.0	
94 2,4,6-Trichlorophenol	196	8.111	8.106	0.005	93	587077	14.0	14.6	
95 2,4,5-Trichlorophenol	196	8.144	8.139	0.005	94	594106	14.0	14.3	
146 1,1'-Biphenyl	154	8.268	8.258	0.010	95	2320605	14.0	14.5	
122 2-Chloronaphthalene	162	8.292	8.287	0.005	97	1668576	14.0	14.1	
31 2-Nitroaniline	65	8.373	8.363	0.010	82	654969	14.0	15.5	
118 Dimethyl phthalate	163	8.520	8.506	0.014	98	2013170	14.0	14.7	
49 1,3-Dinitrobenzene	168	8.558	8.539	0.019	89	366596	14.0	14.9	
91 2,6-Dinitrotoluene	165	8.568	8.558	0.010	91	485598	14.0	15.0	
75 Acenaphthylene	152	8.649	8.644	0.005	98	2698305	14.0	14.8	
42 3-Nitroaniline	138	8.725	8.711	0.014	89	568930	14.0	15.4	
134 Acenaphthene	153	8.792	8.787	0.005	93	1939697	14.0	15.0	
128 2,4-Dinitrophenol	184	8.815	8.801	0.014	82	695703	28.0	32.5	
130 4-Nitrophenol	109	8.863	8.844	0.019	94	543010	28.0	31.1	
51 2,4-Dinitrotoluene	165	8.920	8.906	0.014	93	620074	14.0	14.8	
13 Dibenzofuran	168	8.939	8.935	0.004	96	2396620	14.0	14.5	
170 2,3,4,6-Tetrachlorophenol	232	9.039	9.035	0.004	74	524169	14.0	15.5	
186 Hexadecane	57	9.092	9.087	0.005	87	1551717	14.0	13.6	
90 Diethyl phthalate	149	9.101	9.092	0.009	98	1963645	14.0	14.3	
155 4-Chlorophenyl phenyl ethe	204	9.211	9.201	0.010	91	977713	14.0	15.2	
61 Fluorene	166	9.230	9.225	0.005	94	1959588	14.0	14.6	
69 4-Nitroaniline	138	9.258	9.235	0.023	80	551525	14.0	14.9	
46 4,6-Dinitro-2-methylphenol	198	9.277	9.258	0.019	93	677846	28.0	28.6	
74 N-Nitrosodiphenylamine	169	9.311	9.301	0.010	97	1340044	14.0	14.1	
131 Diphenylamine	169	9.311	9.301	0.010	98	1340044	11.9	12.0	
124 1,2-Diphenylhydrazine	77	9.344	9.339	0.005	94	1777967	14.0	14.8	
34 4-Bromophenyl phenyl ether	248	9.620	9.620	0.000	68	595462	14.0	15.3	
149 Hexachlorobenzene	284	9.711	9.701	0.010	95	631006	14.0	15.6	
17 Pentachlorophenol	266	9.868	9.858	0.010	89	944301	28.0	32.5	
137 n-Octadecane	43	9.868	9.863	0.005	93	973581	14.0	12.1	
37 Phenanthrene	178	10.049	10.044	0.005	97	2996124	14.0	15.0	
125 Anthracene	178	10.096	10.087	0.009	98	2954040	14.0	14.6	
80 Carbazole	167	10.215	10.211	0.004	96	2581340	14.0	16.5	
162 Di-n-butyl phthalate	149	10.473	10.468	0.005	100	3644433	14.0	14.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	11.177	11.168	0.009	98	3674002	14.0	16.2	
177 Benzidine	184	11.292	11.287	0.005	97	1840116	14.0	16.2	
148 Pyrene	202	11.444	11.435	0.009	95	3446454	14.0	15.4	
163 Butyl benzyl phthalate	149	12.220	12.211	0.009	96	1917726	14.0	16.1	
110 3,3'-Dichlorobenzidine	252	13.149	13.130	0.019	99	1345588	14.0	17.0	
101 Bis(2-ethylhexyl) phthalat	149	13.201	13.192	0.009	96	2409211	14.0	15.3	
14 Benzo[a]anthracene	228	13.206	13.192	0.014	99	3282826	14.0	15.4	
23 Chrysene	228	13.282	13.263	0.019	97	2590416	14.0	14.1	
79 Di-n-octyl phthalate	149	14.611	14.601	0.010	75	4666249	14.0	16.2	
145 Benzo[b]fluoranthene	252	15.620	15.582	0.038	98	3690719	14.0	17.4	
55 Benzo[k]fluoranthene	252	15.696	15.658	0.038	98	2557482	14.0	12.9	
84 Benzo[a]pyrene	252	16.558	16.520	0.038	96	3098095	14.0	15.7	
96 Indeno[1,2,3-cd]pyrene	276	19.782	19.744	0.038	97	3513156	14.0	15.7	
59 Dibenz(a,h)anthracene	278	19.844	19.811	0.033	95	2668230	14.0	15.1	
53 Benzo[g,h,i]perylene	276	20.411	20.373	0.038	99	2613213	14.0	14.3	
S 178 Total Cresols, TCEQ Defini	1				0			28.0	
S 179 Methyl Phenols, Total	1				0			28.0	

Reagents:

SMLst1_5uLL11_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d

Injection Date: 22-Aug-2018 23:43:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: ic

Worklist Smp#: 12

Client ID:

Injection Vol: 5.0 ul

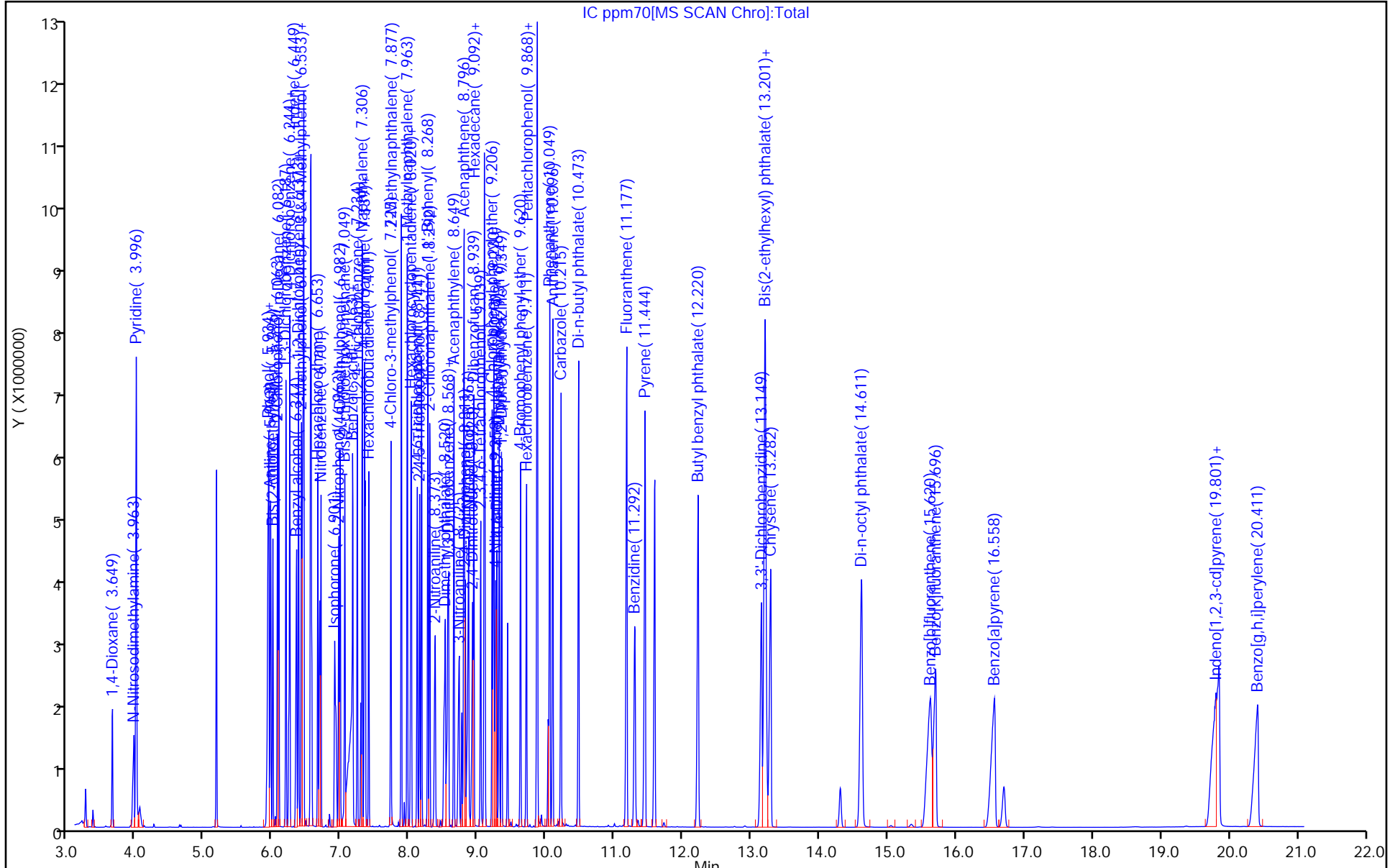
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Lab Sample ID (1): CCVIS 500-448285/2 Instrument ID (1): CMS24

GC Column (1): Rxi-5ms ID: 0.5 (mm) Date Analyzed (1): 09/04/2018 15:26

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	15.03	36.60

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24C0904.d
Injection Date: 04-Sep-2018 15:26:30 Instrument ID: CMS24
Lims ID: ccvis
Client ID:
Operator ID: sw ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

145 Benzo[b]fluoranthene - 55 Benzo[k]fluoranthene

SW-846 Method

Version D: $\%R = (V / ((H1 + H2)/2)) * 100$

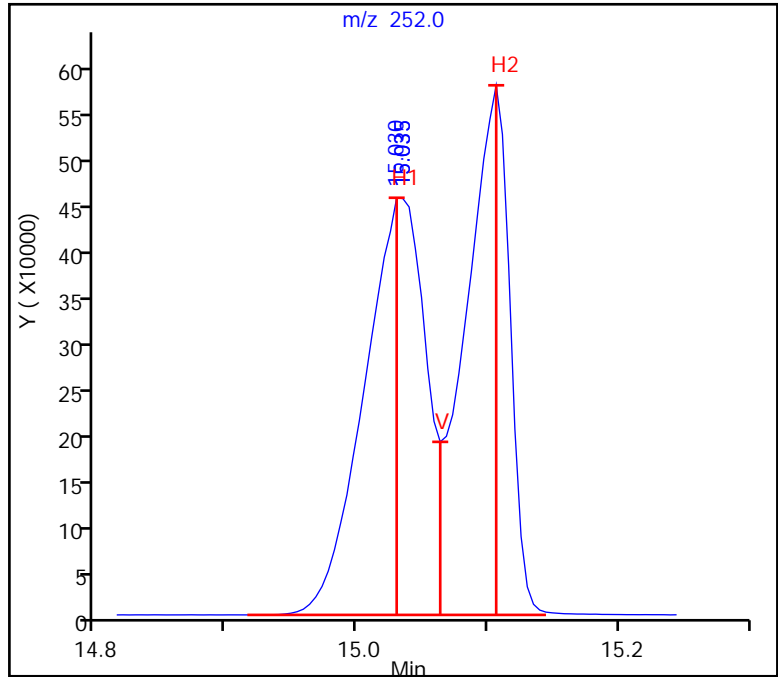
V (Valley Height) = 188508

H1(145 Benzo[b]fluoranthene) = 454351

H2(55 Benzo[k]fluoranthene) = 576878

Version D: $\%R = 36.6 \leq 50.0$

Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Lab Sample ID (1): CCVIS 500-448389/2 Instrument ID (1): CMS11

GC Column (1): ZB5MS ID: 0.25 (mm) Date Analyzed (1): 09/05/2018 09:18

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	14.53	39.30

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11c0905.D
Injection Date: 05-Sep-2018 09:18:30 Instrument ID: CMS11
Lims ID: ccvis
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

160 Benzo[b]fluoranthene - 161 Benzo[k]fluoranthene

SW-846 Method

Version D: $\%R = (V / ((H1 + H2)/2)) * 100$

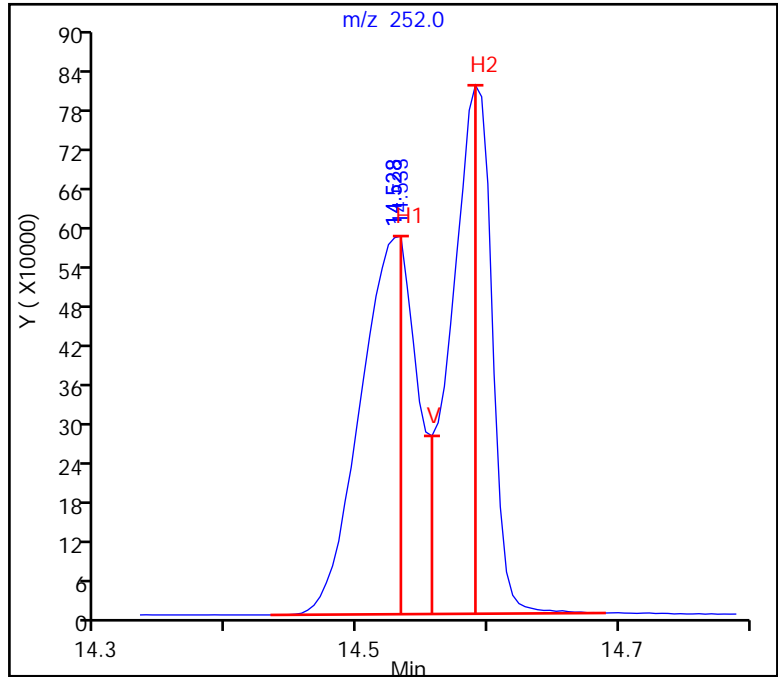
V (Valley Height) = 272103

H1(160 Benzo[b]fluoranthene) = 577723

H2(161 Benzo[k]fluoranthene) = 807525

Version D: $\%R = 39.3 \leq 50.0$

Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-446389/13 Calibration Date: 08/21/2018 20:30
 Instrument ID: CMS11 Calib Start Date: 08/21/2018 15:07
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/21/2018 20:00
 Lab File ID: icv-list1.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Qua2		0.3741	0.0100	9.89	10.0	-1.1	30.0
N-Nitrosodimethylamine	Ave	0.8084	0.7706	0.0100	9.53	10.0	-4.7	30.0
Pyridine	Ave	0.9710	1.051	0.0100	21.6	20.0	8.2	30.0
Phenol	Lin1		1.387	0.8000	9.32	10.0	-6.8	30.0
Aniline	Ave	1.722	1.791	0.0100	10.4	10.0	4.0	30.0
Bis(2-chloroethyl)ether	Ave	1.034	0.996	0.7000	9.64	10.0	-3.6	30.0
2-Chlorophenol	Ave	1.207	1.279	0.8000	10.6	10.0	5.9	30.0
n-Decane	Ave	1.599	1.563	0.0100	9.77	10.0	-2.3	30.0
1,3-Dichlorobenzene	Ave	1.511	1.514	0.0100	10.0	10.0	0.2	30.0
1,4-Dichlorobenzene	Ave	1.543	1.618	0.0100	10.5	10.0	4.8	30.0
Benzyl alcohol	Qua2		0.4211	0.0100	<10.0	10.0	-5.2	30.0
1,2-Dichlorobenzene	Ave	1.455	1.489	0.0100	10.2	10.0	2.4	30.0
2-Methylphenol	Lin1		0.9906	0.7000	9.41	10.0	-5.9	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.323	1.874	0.0100	8.07	10.0	-19.3	30.0
Indene	Ave	1.932	2.074	0.0100	21.5	20.0	7.3	30.0
3 & 4 Methylphenol	Lin1		1.074	0.6000	9.41	10.0	-5.9	30.0
Acetophenone	Ave	1.549	1.563	0.0100	10.1	10.0	0.9	30.0
N-Nitrosodi-n-propylamine	Ave	0.6524	0.6478	0.5000	9.93	10.0	-0.7	30.0
Hexachloroethane	Ave	0.5719	0.5735	0.3000	10.0	10.0	0.3	30.0
Nitrobenzene	Ave	0.2586	0.2698	0.2000	10.4	10.0	4.3	30.0
Isophorone	Ave	0.4506	0.4811	0.4000	10.7	10.0	6.8	30.0
2-Nitrophenol	Ave	0.1804	0.1904	0.1000	10.6	10.0	5.6	30.0
2,4-Dimethylphenol	Ave	0.2332	0.2513	0.2000	10.8	10.0	7.7	30.0
Bis(2-chloroethoxy)methane	Ave	0.3151	0.3284	0.3000	10.4	10.0	4.2	30.0
Benzoic acid	Lin1		0.1708	0.0100	18.9	20.0	-5.5	30.0
2,4-Dichlorophenol	Ave	0.2639	0.2850	0.2000	10.8	10.0	8.0	30.0
1,2,4-Trichlorobenzene	Ave	0.2995	0.3201	0.0100	10.7	10.0	6.9	30.0
Naphthalene	Ave	0.9549	0.995	0.7000	10.4	10.0	4.2	30.0
4-Chloroaniline	Ave	0.4144	0.4324	0.0100	10.4	10.0	4.3	30.0
2,6-Dichlorophenol	Ave	0.2499	0.2748	0.0100	11.0	10.0	9.9	30.0
Hexachlorobutadiene	Ave	0.1601	0.1768	0.0100	11.0	10.0	10.4	30.0
4-Chloro-3-methylphenol	Lin1		0.1901*	0.2000	8.32	10.0	-16.8	30.0
2-Methylnaphthalene	Ave	0.6717	0.5776	0.4000	8.60	10.0	-14.0	30.0
1-Methylnaphthalene	Ave	0.6282	0.5227	0.0100	8.32	10.0	-16.8	30.0
Hexachlorocyclopentadiene	Qua2		0.3400	0.0500	10.8	10.0	7.9	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5697	0.5606	0.0100	9.84	10.0	-1.6	30.0
2,4,6-Trichlorophenol	Ave	0.3291	0.3592	0.2000	10.9	10.0	9.1	30.0
2,4,5-Trichlorophenol	Qua2		0.3444	0.2000	9.40	10.0	-6.0	30.0
1,1'-Biphenyl	Ave	1.525	1.521	0.0100	9.97	10.0	-0.3	30.0
2-Chloronaphthalene	Ave	1.210	1.227	0.8000	10.1	10.0	1.4	30.0
2-Nitroaniline	Ave	0.2956	0.2721	0.0100	9.20	10.0	-8.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-446389/13 Calibration Date: 08/21/2018 20:30
 Instrument ID: CMS11 Calib Start Date: 08/21/2018 15:07
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/21/2018 20:00
 Lab File ID: icv-list1.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.267	1.289	0.0100	10.2	10.0	1.7	30.0
m-Dinitrobenzene	Ave	0.2007	0.2160	0.0100	10.8	10.0	7.6	30.0
2,6-Dinitrotoluene	Ave	0.2841	0.3173	0.2000	11.2	10.0	11.7	30.0
Acenaphthylene	Ave	1.675	1.913	0.9000	11.4	10.0	14.2	30.0
3-Nitroaniline	Ave	0.3263	0.3380	0.0100	10.4	10.0	3.6	30.0
Acenaphthene	Ave	1.215	1.222	0.9000	10.1	10.0	0.6	30.0
2,4-Dinitrophenol	Lin1		0.2027	0.0100	20.0	20.0	0.2	30.0
4-Nitrophenol	Ave	0.1130	0.1103	0.0100	19.5	20.0	-2.4	30.0
2,4-Dinitrotoluene	Ave	0.3742	0.4073	0.2000	10.9	10.0	8.9	30.0
Dibenzofuran	Ave	1.638	1.669	0.8000	10.2	10.0	1.9	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.2584	0.2794	0.0100	10.8	10.0	8.1	30.0
Diethyl phthalate	Ave	1.205	1.186	0.0100	9.85	10.0	-1.5	30.0
Hexadecane	Ave	0.7272	0.6456	0.0100	8.88	10.0	-11.2	30.0
4-Chlorophenyl phenyl ether	Ave	0.5833	0.6112	0.4000	10.5	10.0	4.8	30.0
Fluorene	Ave	1.312	1.380	0.9000	10.5	10.0	5.2	30.0
4-Nitroaniline	Ave	0.3441	0.3475	0.0100	10.1	10.0	1.0	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1159	0.1372	0.0100	23.7	20.0	18.4	30.0
Diphenylamine	Ave	0.6248	0.6269	0.0100	8.53	8.50	0.3	30.0
N-Nitrosodiphenylamine	Ave	0.5320	0.5329	0.0100	10.0	10.0	0.2	30.0
1,2-Diphenylhydrazine	Ave	0.9343	0.9318	0.0100	9.97	10.0	-0.3	30.0
4-Bromophenyl phenyl ether	Ave	0.2676	0.2625	0.1000	9.81	10.0	-1.9	30.0
Hexachlorobenzene	Ave	0.4434	0.4541	0.1000	10.2	10.0	2.4	30.0
Pentachlorophenol	Ave	0.1684	0.1850	0.0500	22.0	20.0	9.8	30.0
n-Octadecane	Ave	0.2913	0.2659	0.0100	9.13	10.0	-8.7	30.0
Phenanthrene	Ave	1.049	1.045	0.7000	9.96	10.0	-0.4	30.0
Anthracene	Ave	1.084	1.079	0.7000	9.95	10.0	-0.5	30.0
Carbazole	Ave	0.996	0.9764	0.0100	9.81	10.0	-1.9	30.0
Di-n-butyl phthalate	Ave	1.148	1.130	0.0100	9.85	10.0	-1.5	30.0
Fluoranthene	Ave	1.081	1.082	0.6000	10.0	10.0	0.1	30.0
Benzidine	Ave	0.5184	0.5898	0.0100	11.4	10.0	13.8	30.0
Pyrene	Ave	0.9172	0.9076	0.6000	9.90	10.0	-1.0	30.0
Butyl benzyl phthalate	Ave	0.4218	0.4241	0.0100	10.1	10.0	0.5	30.0
3,3'-Dichlorobenzidine	Ave	0.4676	0.5093	0.0100	10.9	10.0	8.9	30.0
Benzo[a]anthracene	Ave	0.9636	0.9160	0.8000	9.51	10.0	-4.9	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6048	0.6100	0.0100	10.1	10.0	0.9	30.0
Chrysene	Ave	0.9363	0.9005	0.7000	9.62	10.0	-3.8	30.0
Di-n-octyl phthalate	Ave	1.236	1.273	0.0100	10.3	10.0	2.9	30.0
Benzo[b]fluoranthene	Ave	0.9508	1.050	0.7000	11.0	10.0	10.4	30.0
Benzo[k]fluoranthene	Ave	0.9557	1.026	0.7000	10.7	10.0	7.4	30.0
Benzo[a]pyrene	Ave	0.9025	0.9526	0.7000	10.6	10.0	5.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.315	1.280	0.5000	9.74	10.0	-2.6	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-446389/13 Calibration Date: 08/21/2018 20:30
 Instrument ID: CMS11 Calib Start Date: 08/21/2018 15:07
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/21/2018 20:00
 Lab File ID: icv-list1.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	1.084	1.099	0.4000	10.1	10.0	1.4	30.0
Benzo[g,h,i]perylene	Ave	1.094	0.9834	0.5000	8.99	10.0	-10.1	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\icv-list1.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 21-Aug-2018 20:30:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 500-0054540-013
 Operator ID: AD Instrument ID: CMS11
 Sublist:

Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 17:31:47 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: rynkarg Date: 22-Aug-2018 17:04:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.064	6.064	0.000	92	124973	3.20	3.20	
* 2 Naphthalene-d8	136	7.120	7.120	0.000	98	493342	3.20	3.20	
* 3 Acenaphthene-d10	164	8.589	8.589	0.000	95	227814	3.20	3.20	
* 4 Phenanthrene-d10	188	9.840	9.840	0.000	94	423273	3.20	3.20	
* 5 Chrysene-d12	240	12.860	12.860	0.000	98	517954	3.20	3.20	
* 6 Perylene-d12	264	16.051	16.051	0.000	98	631052	3.20	3.20	
13 1,4-Dioxane	88	3.325	3.334	-0.009	93	146093	10.0	9.89	
16 N-Nitrosodimethylamine	42	3.677	3.682	-0.005	76	300941	10.0	9.53	
17 Pyridine	79	3.715	3.720	-0.005	74	820579	20.0	21.6	
28 Phenol	94	5.774	5.774	0.000	96	541534	10.0	9.32	
29 Aniline	93	5.793	5.793	0.000	95	699530	10.0	10.4	
30 Bis(2-chloroethyl)ether	93	5.831	5.831	0.000	91	389122	10.0	9.64	
32 2-Chlorophenol	128	5.898	5.898	0.000	96	499491	10.0	10.6	
33 n-Decane	43	5.921	5.921	0.000	89	610356	10.0	9.77	
34 1,3-Dichlorobenzene	146	6.021	6.021	0.000	97	591465	10.0	10.0	
35 1,4-Dichlorobenzene	146	6.078	6.078	0.000	96	631843	10.0	10.5	
37 Benzyl alcohol	108	6.178	6.178	0.000	88	164441	10.0	9.48	
39 1,2-Dichlorobenzene	146	6.207	6.207	0.000	97	581658	10.0	10.2	
40 2-Methylphenol	107	6.264	6.259	0.005	94	386863	10.0	9.41	
41 2,2'-oxybis[1-chloropropan	45	6.273	6.273	0.000	90	731782	10.0	8.07	
42 Indene	116	6.283	6.283	0.000	88	1619741	20.0	21.5	
44 N-Nitrosodi-n-propylamine	70	6.392	6.387	0.005	73	253002	10.0	9.93	
43 3 & 4 Methylphenol	108	6.392	6.387	0.005	69	419583	10.0	9.41	
45 Acetophenone	105	6.392	6.392	0.000	84	610483	10.0	10.1	
48 Hexachloroethane	117	6.487	6.487	0.000	95	223981	10.0	10.0	
49 Nitrobenzene	77	6.535	6.535	0.000	92	415953	10.0	10.4	
52 Isophorone	82	6.735	6.730	0.005	98	741737	10.0	10.7	
54 2-Nitrophenol	139	6.801	6.801	0.000	90	293521	10.0	10.6	
55 2,4-Dimethylphenol	122	6.825	6.825	0.000	89	387374	10.0	10.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
57 Bis(2-chloroethoxy)methane	93	6.892	6.892	0.000	92	506244	10.0	10.4	
58 Benzoic acid	122	6.977	6.963	0.014	89	526524	20.0	18.9	
59 2,4-Dichlorophenol	162	7.010	7.010	0.000	96	439314	10.0	10.8	
61 1,2,4-Trichlorobenzene	180	7.072	7.072	0.000	94	493441	10.0	10.7	
62 Naphthalene	128	7.144	7.139	0.005	98	1534576	10.0	10.4	
63 4-Chloroaniline	127	7.177	7.172	0.005	97	666649	10.0	10.4	
64 2,6-Dichlorophenol	162	7.191	7.186	0.005	97	423641	10.0	11.0	
65 Hexachlorobutadiene	225	7.239	7.239	0.000	91	272597	10.0	11.0	
72 4-Chloro-3-methylphenol	107	7.572	7.572	0.000	87	293004	10.0	8.32	
73 2-Methylnaphthalene	142	7.714	7.714	0.000	95	890528	10.0	8.60	
74 1-Methylnaphthalene	142	7.800	7.800	0.000	95	805911	10.0	8.32	
75 Hexachlorocyclopentadiene	237	7.852	7.852	0.000	91	242037	10.0	10.8	
76 1,2,4,5-Tetrachlorobenzene	216	7.862	7.857	0.005	96	399071	10.0	9.84	
78 2,4,6-Trichlorophenol	196	7.947	7.947	0.000	89	255746	10.0	10.9	
79 2,4,5-Trichlorophenol	196	7.981	7.985	-0.004	95	245164	10.0	9.40	
82 1,1'-Biphenyl	154	8.099	8.099	0.000	94	1082991	10.0	9.97	
83 2-Chloronaphthalene	162	8.123	8.123	0.000	93	873544	10.0	10.1	
86 2-Nitroaniline	65	8.204	8.204	0.000	90	193720	10.0	9.20	
88 Dimethyl phthalate	163	8.347	8.347	0.000	95	917440	10.0	10.2	
89 1,3-Dinitrobenzene	168	8.385	8.385	0.000	91	153781	10.0	10.8	
90 2,6-Dinitrotoluene	165	8.399	8.399	0.000	90	225916	10.0	11.2	
92 Acenaphthylene	152	8.475	8.475	0.000	97	1361557	10.0	11.4	
93 3-Nitroaniline	138	8.551	8.551	0.000	92	240591	10.0	10.4	
98 Acenaphthene	153	8.623	8.618	0.005	89	870160	10.0	10.1	
99 2,4-Dinitrophenol	184	8.642	8.642	0.000	83	288636	20.0	20.0	
100 4-Nitrophenol	109	8.699	8.694	0.005	82	157004	20.0	19.5	
103 2,4-Dinitrotoluene	165	8.746	8.746	0.000	93	289985	10.0	10.9	
105 Dibenzofuran	168	8.765	8.761	0.004	97	1188500	10.0	10.2	
107 2,3,4,6-Tetrachlorophenol	232	8.870	8.870	0.000	75	198897	10.0	10.8	
110 Diethyl phthalate	149	8.927	8.927	0.000	97	844299	10.0	9.85	
111 Hexadecane	57	8.927	8.927	0.000	85	459617	10.0	8.88	
114 4-Chlorophenyl phenyl ethe	204	9.036	9.032	0.004	87	435095	10.0	10.5	
115 Fluorene	166	9.055	9.051	0.004	92	982240	10.0	10.5	
116 4-Nitroaniline	138	9.079	9.074	0.005	84	247370	10.0	10.1	
117 4,6-Dinitro-2-methylphenol	198	9.103	9.098	0.005	83	362944	20.0	23.7	
119 N-Nitrosodiphenylamine	169	9.136	9.136	0.000	62	704867	10.0	10.0	
118 Diphenylamine	169	9.136	9.136	0.000	93	704867	8.50	8.53	
120 1,2-Diphenylhydrazine	77	9.169	9.170	-0.001	98	663341	10.0	9.97	
122 4-Bromophenyl phenyl ether	248	9.445	9.445	0.000	59	347182	10.0	9.81	
123 Hexachlorobenzene	284	9.531	9.526	0.005	91	600655	10.0	10.2	
127 Pentachlorophenol	266	9.688	9.688	0.000	80	489312	20.0	22.0	
128 n-Octadecane	43	9.693	9.693	0.000	91	351660	10.0	9.13	
131 Phenanthrene	178	9.864	9.864	0.000	96	1382601	10.0	9.96	
132 Anthracene	178	9.907	9.907	0.000	98	1427712	10.0	9.95	
133 Carbazole	167	10.035	10.030	0.005	96	1291529	10.0	9.81	
134 Di-n-butyl phthalate	149	10.287	10.282	0.005	98	1495067	10.0	9.85	
142 Fluoranthene	202	10.939	10.939	0.000	98	1431712	10.0	10.0	
143 Benzidine	184	11.057	11.053	0.004	96	954576	10.0	11.4	
145 Pyrene	202	11.191	11.191	0.000	95	1469020	10.0	9.90	
148 Butyl benzyl phthalate	149	11.932	11.932	0.000	92	686382	10.0	10.1	
152 3,3'-Dichlorobenzidine	252	12.788	12.784	0.004	97	824402	10.0	10.9	
154 Benzo[a]anthracene	228	12.841	12.841	0.000	98	1482645	10.0	9.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 Bis(2-ethylhexyl) phthalat	149	12.846	12.846	0.000	93	987417	10.0	10.1	
155 Chrysene	228	12.912	12.907	0.005	97	1457585	10.0	9.62	
158 Di-n-octyl phthalate	149	14.168	14.163	0.005	73	1683180	10.0	10.3	
160 Benzo[b]fluoranthene	252	15.062	15.062	0.000	97	2070846	10.0	11.0	
161 Benzo[k]fluoranthene	252	15.133	15.128	0.005	98	2024068	10.0	10.7	
163 Benzo[a]pyrene	252	15.913	15.908	0.005	95	1878498	10.0	10.6	
165 Indeno[1,2,3-cd]pyrene	276	19.228	19.218	0.010	95	2524829	10.0	9.74	
166 Dibenz(a,h)anthracene	278	19.285	19.280	0.005	90	2167937	10.0	10.1	
167 Benzo[g,h,i]perylene	276	19.798	19.793	0.005	94	1939243	10.0	8.99	

Reagents:

SMIs1_5uL3ICV_00005

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\icv-list1.D

Injection Date: 21-Aug-2018 20:30:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: icv

Worklist Smp#: 13

Client ID:

Injection Vol: 5.0 ul

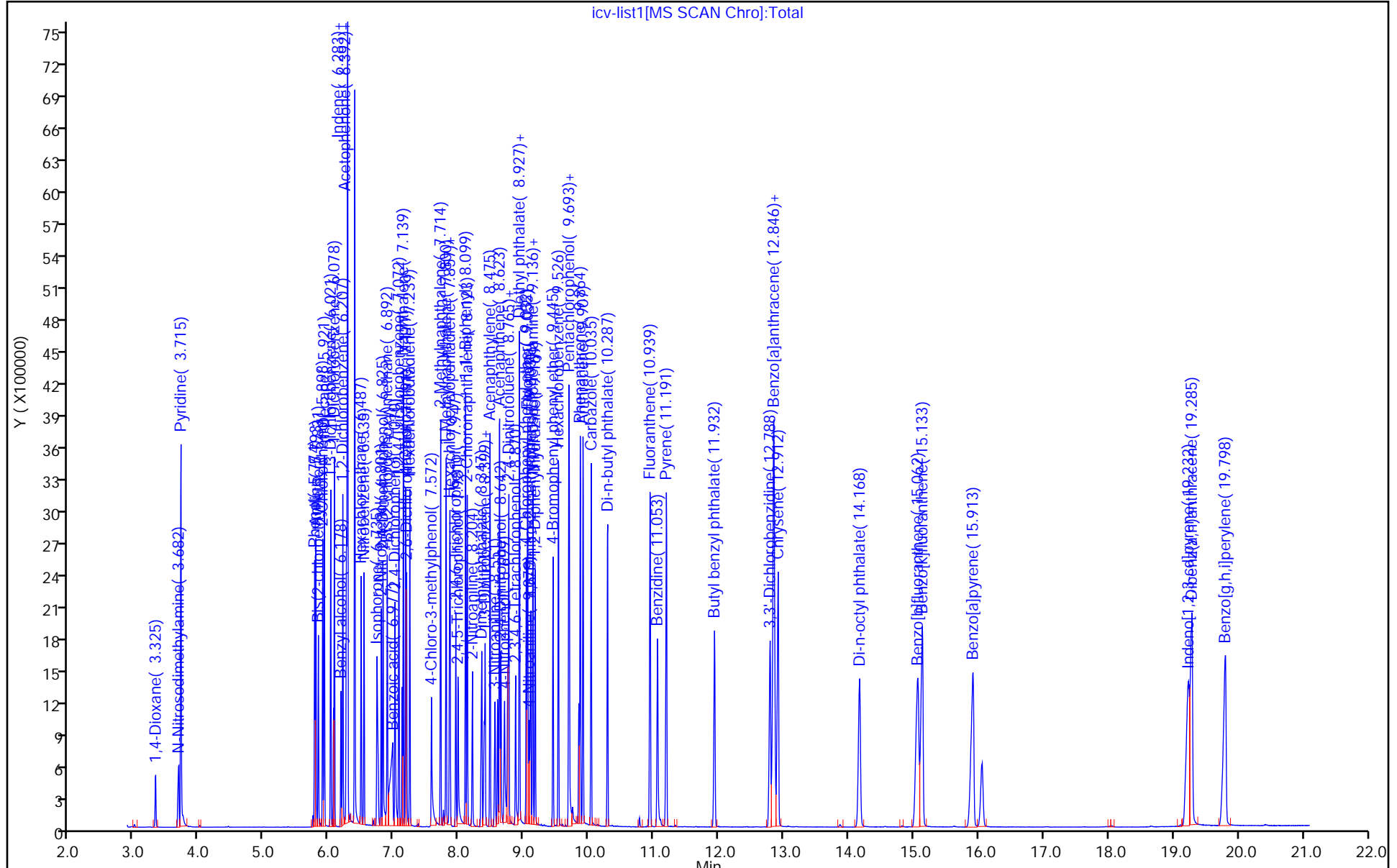
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 11-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448389/2 Calibration Date: 09/05/2018 09:18
 Instrument ID: CMS11 Calib Start Date: 08/21/2018 15:07
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/21/2018 20:00
 Lab File ID: 11c0905.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9549	0.9723	0.7000	8.15	8.00	1.8	20.0
2-Methylnaphthalene	Ave	0.6717	0.6499	0.4000	7.74	8.00	-3.2	20.0
1-Methylnaphthalene	Ave	0.6282	0.6144	0.0100	7.82	8.00	-2.2	20.0
Acenaphthylene	Ave	1.675	1.788	0.9000	8.54	8.00	6.8	20.0
Acenaphthene	Ave	1.215	1.245	0.9000	8.20	8.00	2.5	20.0
Fluorene	Ave	1.312	1.356	0.9000	8.27	8.00	3.4	20.0
Phenanthrene	Ave	1.049	1.073	0.7000	8.18	8.00	2.3	20.0
Anthracene	Ave	1.084	1.147	0.7000	8.46	8.00	5.8	20.0
Fluoranthene	Ave	1.081	1.084	0.6000	8.03	8.00	0.3	20.0
Pyrene	Ave	0.9172	0.9524	0.6000	8.31	8.00	3.8	20.0
Benzo[a]anthracene	Ave	0.9636	0.9327	0.8000	7.74	8.00	-3.2	20.0
Chrysene	Ave	0.9363	0.9157	0.7000	7.82	8.00	-2.2	20.0
Benzo[b]fluoranthene	Ave	0.9508	1.001	0.7000	8.42	8.00	5.3	20.0
Benzo[k]fluoranthene	Ave	0.9557	0.9929	0.7000	8.31	8.00	3.9	20.0
Benzo[a]pyrene	Ave	0.9025	0.9582	0.7000	8.49	8.00	6.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.315	1.264	0.5000	7.69	8.00	-3.9	20.0
Dibenz(a,h)anthracene	Ave	1.084	1.048	0.4000	7.73	8.00	-3.3	20.0
Benzo[g,h,i]perylene	Ave	1.094	1.049	0.5000	7.67	8.00	-4.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.2383	0.2505	0.0100	8.41	8.00	5.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.260	1.242	0.0100	7.89	8.00	-1.4	20.0
Terphenyl-d14 (Surr)	Ave	0.7772	0.7431	0.0100	7.65	8.00	-4.4	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11c0905.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Sep-2018 09:18:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 500-0054839-002
 Operator ID: AD Instrument ID: CMS11
 Sublist: chrom-11-LVI8270*sub59
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 11:12:25 Calib Date: 28-Aug-2018 15:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180828-54681.b\11c0828g.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: diaza Date: 05-Sep-2018 11:06:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.873	5.873	0.000	94	141627	3.20	3.20	
* 2 Naphthalene-d8	136	6.934	6.934	0.000	98	569255	3.20	3.20	
* 3 Acenaphthene-d10	164	8.399	8.399	0.000	95	287753	3.20	3.20	
* 4 Phenanthrene-d10	188	9.640	9.640	0.000	98	503490	3.20	3.20	
* 5 Chrysene-d12	240	12.488	12.488	0.000	98	598034	3.20	3.20	
* 6 Perylene-d12	264	15.423	15.423	0.000	97	719809	3.20	3.20	s
\$ 7 2-Fluorophenol	112	4.784	4.784	0.000	93	328490	8.00	8.27	
\$ 8 Phenol-d5	99	5.583	5.583	0.000	88	454308	8.00	8.11	
\$ 9 Nitrobenzene-d5	82	6.330	6.330	0.000	90	356447	8.00	8.41	
\$ 10 2-Fluorobiphenyl	172	7.823	7.823	0.000	98	893803	8.00	7.89	
\$ 11 2,4,6-Tribromophenol	330	9.060	9.060	0.000	59	408075	8.00	9.73	
\$ 12 Terphenyl-d14	244	11.066	11.066	0.000	96	1111059	8.00	7.65	
13 1,4-Dioxane	88	2.920	2.920	0.000	82	133123	8.00	8.37	
16 N-Nitrosodimethylamine	42	3.334	3.334	0.000	71	328939	8.00	9.19	
17 Pyridine	79	3.372	3.372	0.000	66	861490	16.0	20.0	
28 Phenol	94	5.597	5.597	0.000	85	554021	8.00	8.48	
29 Aniline	93	5.597	5.597	0.000	93	670097	8.00	8.79	
30 Bis(2-chloroethyl)ether	93	5.645	5.645	0.000	86	363385	8.00	7.94	
32 2-Chlorophenol	128	5.707	5.707	0.000	97	450619	8.00	8.43	
33 n-Decane	43	5.735	5.735	0.000	91	827792	8.00	11.7	
34 1,3-Dichlorobenzene	146	5.831	5.831	0.000	97	513680	8.00	7.68	
35 1,4-Dichlorobenzene	146	5.888	5.888	0.000	95	521964	8.00	7.64	
37 Benzyl alcohol	108	5.992	5.992	0.000	86	266526	8.00	11.9	
39 1,2-Dichlorobenzene	146	6.016	6.016	0.000	97	514882	8.00	8.00	
40 2-Methylphenol	107	6.087	6.087	0.000	94	360286	8.00	7.78	
41 2,2'-oxybis[1-chloropropan	45	6.092	6.092	0.000	78	1237568	8.00	12.0	
42 Indene	116	6.092	6.092	0.000	89	1288620	16.0	15.1	
44 N-Nitrosodi-n-propylamine	70	6.206	6.206	0.000	72	249078	8.00	8.63	
45 Acetophenone	105	6.206	6.206	0.000	87	565747	8.00	8.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
43 3 & 4 Methylphenol	108	6.216	6.216	0.000	95	422637	8.00	8.39	
48 Hexachloroethane	117	6.297	6.297	0.000	95	205942	8.00	8.14	
49 Nitrobenzene	77	6.349	6.349	0.000	88	381027	8.00	8.28	
52 Isophorone	82	6.549	6.549	0.000	97	674073	8.00	8.41	
54 2-Nitrophenol	139	6.615	6.615	0.000	88	253234	8.00	7.89	
55 2,4-Dimethylphenol	122	6.648	6.648	0.000	88	399662	8.00	9.63	
57 Bis(2-chloroethoxy)methane	93	6.710	6.710	0.000	89	475290	8.00	8.48	
58 Benzoic acid	122	6.805	6.805	0.000	87	422001	16.0	13.6	
59 2,4-Dichlorophenol	162	6.824	6.824	0.000	94	371684	8.00	7.92	
61 1,2,4-Trichlorobenzene	180	6.886	6.886	0.000	93	425574	8.00	7.99	
62 Naphthalene	128	6.953	6.953	0.000	97	1383738	8.00	8.15	a
63 4-Chloroaniline	127	6.991	6.991	0.000	96	589548	8.00	8.00	
64 2,6-Dichlorophenol	162	7.005	7.005	0.000	96	393824	8.00	8.86	
65 Hexachlorobutadiene	225	7.053	7.053	0.000	91	221108	8.00	7.76	
72 4-Chloro-3-methylphenol	107	7.395	7.395	0.000	86	319642	8.00	7.92	
73 2-Methylnaphthalene	142	7.523	7.523	0.000	96	924923	8.00	7.74	
74 1-Methylnaphthalene	142	7.609	7.609	0.000	95	874314	8.00	7.82	
75 Hexachlorocyclopentadiene	237	7.661	7.661	0.000	91	129944	8.00	6.01	
76 1,2,4,5-Tetrachlorobenzene	216	7.671	7.671	0.000	96	383924	8.00	7.49	
78 2,4,6-Trichlorophenol	196	7.766	7.766	0.000	92	251311	8.00	8.49	
79 2,4,5-Trichlorophenol	196	7.804	7.804	0.000	95	277231	8.00	8.66	
82 1,1'-Biphenyl	154	7.909	7.909	0.000	95	1075770	8.00	7.84	
83 2-Chloronaphthalene	162	7.937	7.937	0.000	95	843407	8.00	7.75	
86 2-Nitroaniline	65	8.018	8.018	0.000	86	245478	8.00	9.23	
88 Dimethyl phthalate	163	8.156	8.156	0.000	97	903797	8.00	7.93	
89 1,3-Dinitrobenzene	168	8.199	8.199	0.000	80	142576	8.00	7.90	
90 2,6-Dinitrotoluene	165	8.213	8.213	0.000	88	215984	8.00	8.45	
92 Acenaphthylene	152	8.280	8.280	0.000	98	1286552	8.00	8.54	
93 3-Nitroaniline	138	8.365	8.365	0.000	91	239610	8.00	8.17	
98 Acenaphthene	153	8.427	8.427	0.000	92	895486	8.00	8.20	
99 2,4-Dinitrophenol	184	8.460	8.460	0.000	78	243050	16.0	14.1	
100 4-Nitrophenol	109	8.527	8.527	0.000	85	129013	16.0	12.7	
103 2,4-Dinitrotoluene	165	8.560	8.560	0.000	93	283173	8.00	8.42	
105 Dibenzofuran	168	8.570	8.570	0.000	98	1199886	8.00	8.15	
107 2,3,4,6-Tetrachlorophenol	232	8.679	8.679	0.000	69	250215	8.00	10.8	
110 Diethyl phthalate	149	8.741	8.741	0.000	97	861906	8.00	7.96	
111 Hexadecane	57	8.746	8.746	0.000	81	873190	8.00	13.4	
114 4-Chlorophenyl phenyl ethe	204	8.841	8.841	0.000	89	416228	8.00	7.94	
115 Fluorene	166	8.855	8.855	0.000	92	975346	8.00	8.27	
116 4-Nitroaniline	138	8.888	8.888	0.000	82	236922	8.00	7.66	
117 4,6-Dinitro-2-methylphenol	198	8.912	8.912	0.000	87	291380	16.0	16.0	
118 Diphenylamine	169	8.941	8.941	0.000	93	711353	6.80	7.24	
119 N-Nitrosodiphenylamine	169	8.941	8.941	0.000	64	711353	8.00	8.50	
120 1,2-Diphenylhydrazine	77	8.979	8.979	0.000	97	802687	8.00	9.55	
122 4-Bromophenyl phenyl ether	248	9.250	9.250	0.000	65	333040	8.00	7.91	
123 Hexachlorobenzene	284	9.331	9.331	0.000	92	538074	8.00	7.71	
127 Pentachlorophenol	266	9.492	9.492	0.000	81	466015	16.0	17.6	
128 n-Octadecane	43	9.507	9.507	0.000	87	733160	8.00	16.0	E
131 Phenanthrene	178	9.664	9.664	0.000	97	1350675	8.00	8.18	
132 Anthracene	178	9.706	9.706	0.000	98	1443905	8.00	8.46	
133 Carbazole	167	9.835	9.835	0.000	96	1298942	8.00	8.29	
134 Di-n-butyl phthalate	149	10.092	10.092	0.000	99	1502098	8.00	8.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
142 Fluoranthene	202	10.695	10.695	0.000	99	1365039	8.00	8.03	
143 Benzidine	184	10.814	10.814	0.000	97	689316	8.00	7.11	
145 Pyrene	202	10.928	10.928	0.000	97	1423838	8.00	8.31	
148 Butyl benzyl phthalate	149	11.632	11.632	0.000	94	677842	8.00	8.60	
152 3,3'-Dichlorobenzidine	252	12.426	12.426	0.000	98	634491	8.00	7.26	
154 Benzo[a]anthracene	228	12.474	12.474	0.000	98	1394405	8.00	7.74	
153 Bis(2-ethylhexyl) phthalat	149	12.479	12.479	0.000	94	996951	8.00	8.82	
155 Chrysene	228	12.536	12.536	0.000	98	1369034	8.00	7.82	
158 Di-n-octyl phthalate	149	13.701	13.701	0.000	76	1621997	8.00	8.34	
160 Benzo[b]fluoranthene	252	14.533	14.533	0.000	98	1801016	8.00	8.42	
161 Benzo[k]fluoranthene	252	14.590	14.590	0.000	98	1786770	8.00	8.31	
163 Benzo[a]pyrene	252	15.294	15.294	0.000	95	1724262	8.00	8.49	
165 Indeno[1,2,3-cd]pyrene	276	18.690	18.690	0.000	96	2274469	8.00	7.69	a
166 Dibenz(a,h)anthracene	278	18.747	18.747	0.000	91	1886497	8.00	7.73	
167 Benzo[g,h,i]perylene	276	19.217	19.217	0.000	95	1886996	8.00	7.67	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

s - Failed ISTD Recovery Test

Review Flags

a - User Assigned ID

Reagents:

SMIst1_5uLL8x_00154

Amount Added: 1.00

Units: mL

TestAmerica Chicago

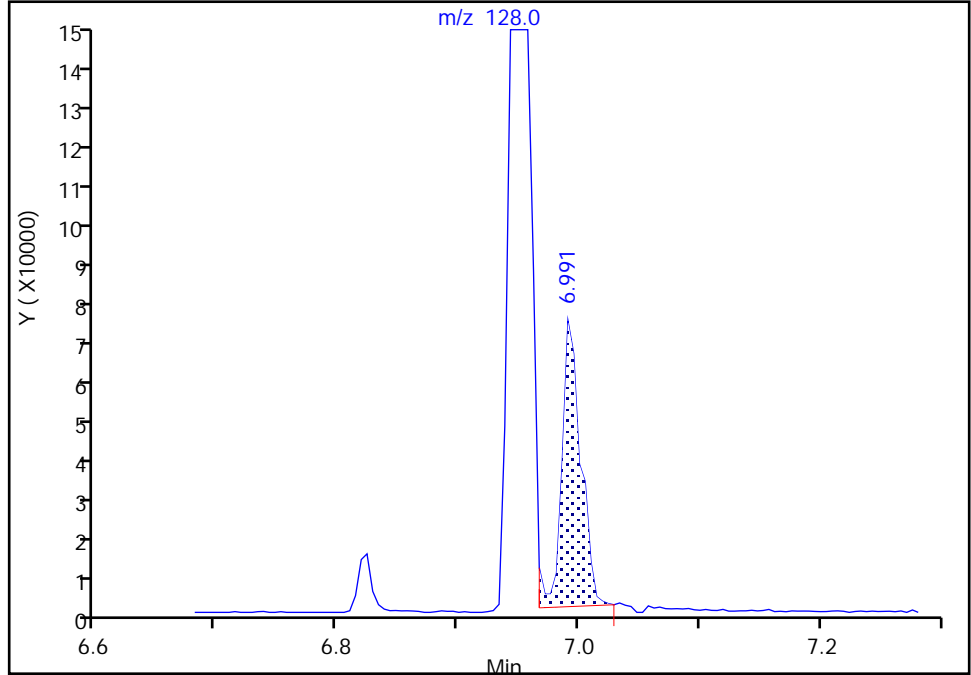
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11c0905.D
Injection Date: 05-Sep-2018 09:18:30 Instrument ID: CMS11
Lims ID: ccvis
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

62 Naphthalene, CAS: 91-20-3

Signal: 1

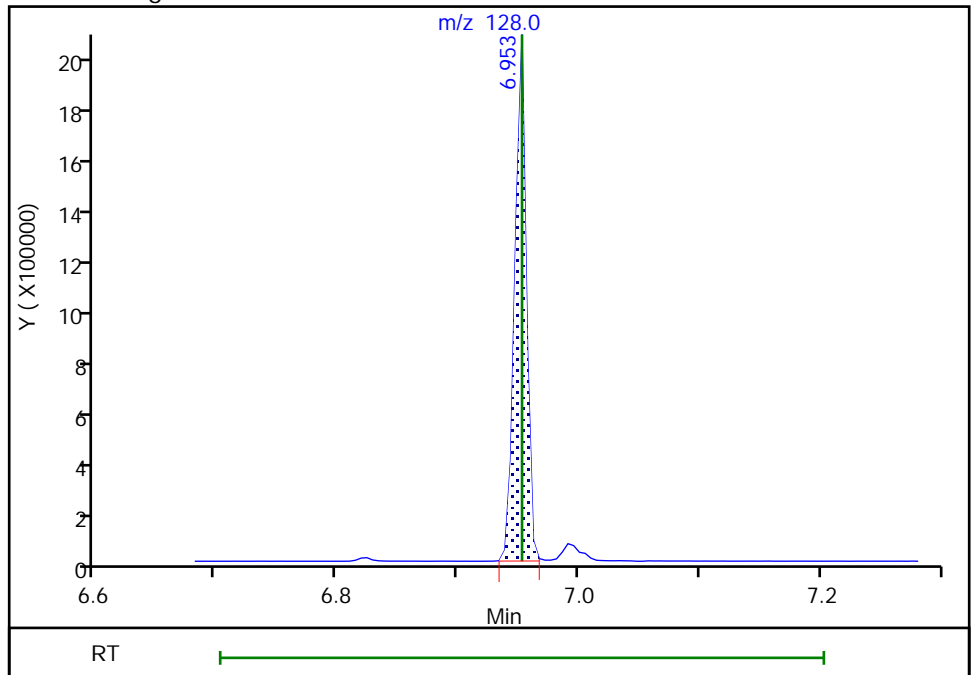
RT: 6.99
Area: 75968
Amount: 0.447235
Amount Units: ug/ml

Processing Integration Results



RT: 6.95
Area: 1383738
Amount: 8.146281
Amount Units: ug/ml

Manual Integration Results



Reviewer: diaza, 05-Sep-2018 09:46:39
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

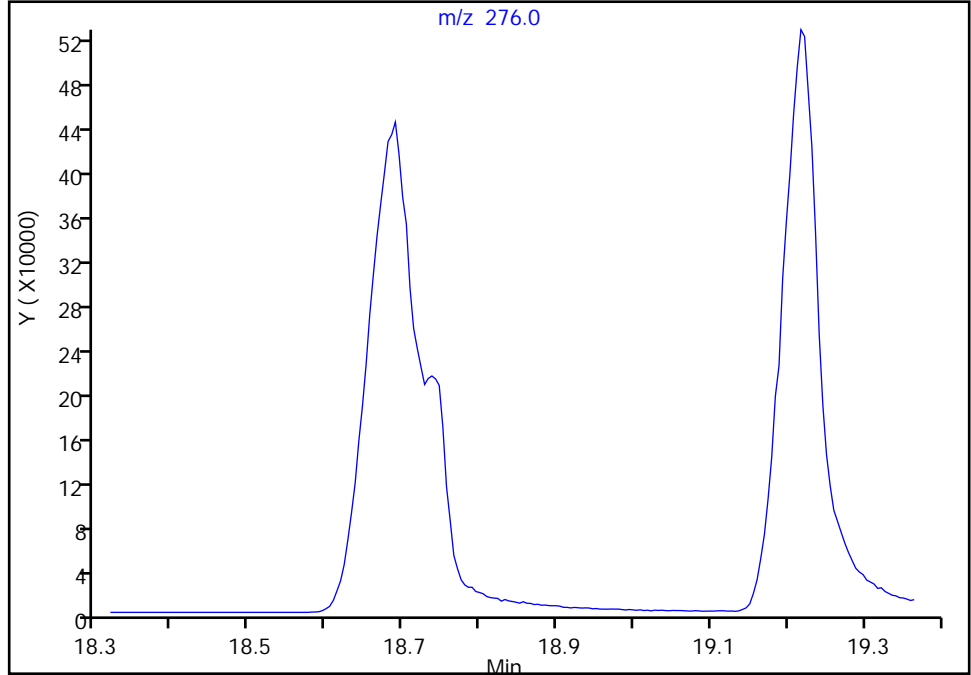
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Injection Date: 05-Sep-2018 09:18:30 Instrument ID: CMS11
Lims ID: ccvis
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

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

Signal: 1

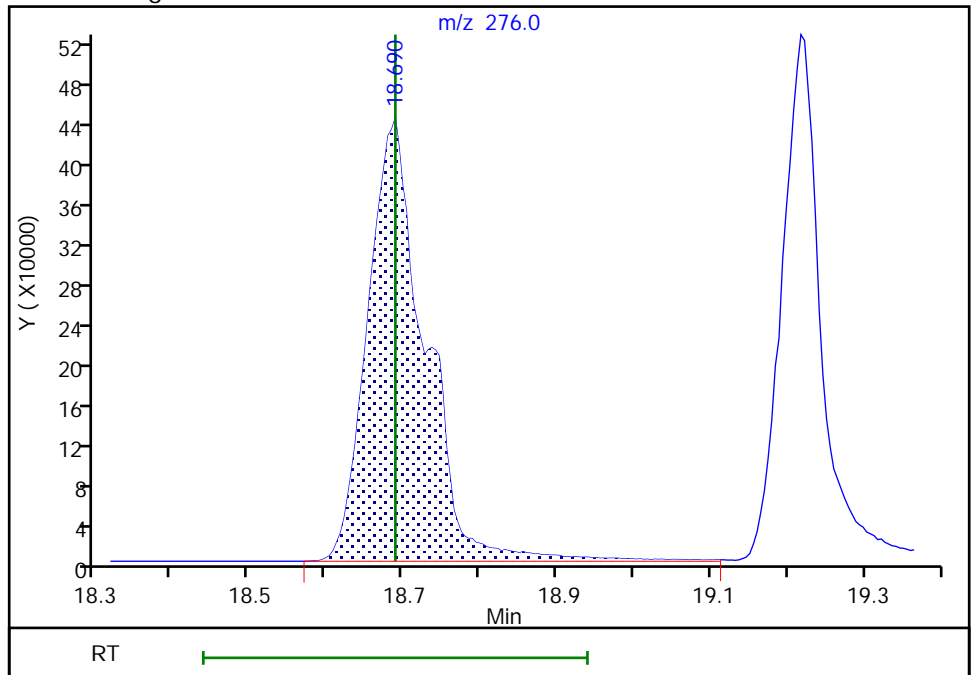
Not Detected
Expected RT: 18.69

Processing Integration Results



Manual Integration Results

RT: 18.69
Area: 2274469
Amount: 7.690548
Amount Units: ug/ml



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-446627/13 Calibration Date: 08/23/2018 00:09
 Instrument ID: CMS24 Calib Start Date: 08/22/2018 19:26
 GC Column: Rxi-5ms ID: 0.50 (mm) Calib End Date: 08/22/2018 23:43
 Lab File ID: ICV.d Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4232	0.4444	0.0100	10.5	10.0	5.0	30.0
N-Nitrosodimethylamine	Ave	0.8110	0.8219	0.0100	10.1	10.0	1.3	30.0
Pyridine	Ave	1.127	1.158	0.0100	20.5	20.0	2.7	30.0
Phenol	Ave	1.410	1.500	0.8000	10.6	10.0	6.4	30.0
Aniline	Ave	1.699	1.763	0.0100	10.4	10.0	3.8	30.0
Bis(2-chloroethyl)ether	Ave	1.124	1.107	0.7000	9.85	10.0	-1.5	30.0
2-Chlorophenol	Ave	1.359	1.389	0.8000	10.2	10.0	2.2	30.0
n-Decane	Ave	1.575	1.521	0.0100	9.66	10.0	-3.4	30.0
1,3-Dichlorobenzene	Ave	1.493	1.514	0.0100	10.1	10.0	1.4	30.0
1,4-Dichlorobenzene	Ave	1.490	1.506	0.0100	10.1	10.0	1.1	30.0
Benzyl alcohol	Ave	0.6915	0.7311	0.0100	10.6	10.0	5.7	30.0
1,2-Dichlorobenzene	Ave	1.402	1.392	0.0100	9.93	10.0	-0.7	30.0
2-Methylphenol	Ave	0.9191	0.9339	0.7000	10.2	10.0	1.6	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.175	1.983	0.0100	9.11	10.0	-8.9	30.0
Indene	Ave	1.673	1.865	0.0100	22.3	20.0	11.5	30.0
3 & 4 Methylphenol	Ave	1.059	1.046	0.6000	9.88	10.0	-1.2	30.0
Acetophenone	Ave	1.534	1.451	0.0100	9.46	10.0	-5.4	30.0
N-Nitrosodi-n-propylamine	Ave	0.6769	0.6483	0.5000	9.58	10.0	-4.2	30.0
Hexachloroethane	Ave	0.5446	0.5357	0.3000	9.84	10.0	-1.6	30.0
Nitrobenzene	Ave	0.2856	0.2973	0.2000	10.4	10.0	4.1	30.0
Isophorone	Ave	0.5005	0.5350	0.4000	10.7	10.0	6.9	30.0
2-Nitrophenol	Ave	0.1945	0.2019	0.1000	10.4	10.0	3.8	30.0
2,4-Dimethylphenol	Ave	0.2867	0.2935	0.2000	10.2	10.0	2.4	30.0
Bis(2-chloroethoxy)methane	Ave	0.3370	0.3439	0.3000	10.2	10.0	2.1	30.0
Benzoic acid	Ave	0.1720	0.1944	0.0100	22.6	20.0	13.0	30.0
2,4-Dichlorophenol	Ave	0.2657	0.2747	0.2000	10.3	10.0	3.4	30.0
1,2,4-Trichlorobenzene	Ave	0.3008	0.3030	0.0100	10.1	10.0	0.8	30.0
Naphthalene	Ave	0.9198	0.9153	0.7000	9.95	10.0	-0.5	30.0
4-Chloroaniline	Ave	0.3857	0.4046	0.0100	10.5	10.0	4.9	30.0
2,6-Dichlorophenol	Ave	0.2519	0.2541	0.0100	10.1	10.0	0.9	30.0
Hexachlorobutadiene	Ave	0.1500	0.1562	0.0100	10.4	10.0	4.1	30.0
4-Chloro-3-methylphenol	Ave	0.2545	0.2562	0.2000	10.1	10.0	0.7	30.0
2-Methylnaphthalene	Ave	0.6580	0.6808	0.4000	10.3	10.0	3.5	30.0
1-Methylnaphthalene	Ave	0.6168	0.6045	0.0100	9.80	10.0	-2.0	30.0
Hexachlorocyclopentadiene	Ave	0.3144	0.3793	0.0500	12.1	10.0	20.7	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6055	0.6237	0.0100	10.3	10.0	3.0	30.0
2,4,6-Trichlorophenol	Ave	0.3948	0.4064	0.2000	10.3	10.0	2.9	30.0
2,4,5-Trichlorophenol	Ave	0.4081	0.4111	0.2000	10.1	10.0	0.7	30.0
1,1'-Biphenyl	Ave	1.576	1.659	0.0100	10.5	10.0	5.2	30.0
2-Chloronaphthalene	Ave	1.166	1.220	0.8000	10.5	10.0	4.6	30.0
2-Nitroaniline	Ave	0.4172	0.4378	0.0100	10.5	10.0	4.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-446627/13 Calibration Date: 08/23/2018 00:09
 Instrument ID: CMS24 Calib Start Date: 08/22/2018 19:26
 GC Column: Rxi-5ms ID: 0.50 (mm) Calib End Date: 08/22/2018 23:43
 Lab File ID: ICV.d Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.346	1.379	0.0100	10.2	10.0	2.4	30.0
m-Dinitrobenzene	Ave	0.2427	0.2522	0.0100	10.4	10.0	3.9	30.0
2,6-Dinitrotoluene	Ave	0.3191	0.3360	0.2000	10.5	10.0	5.3	30.0
Acenaphthylene	Ave	1.794	2.042	0.9000	11.4	10.0	13.8	30.0
3-Nitroaniline	Ave	0.3646	0.3849	0.0100	10.6	10.0	5.6	30.0
Acenaphthene	Ave	1.275	1.333	0.9000	10.5	10.0	4.5	30.0
2,4-Dinitrophenol	Ave	0.2108	0.2371	0.0100	22.5	20.0	12.5	30.0
4-Nitrophenol	Ave	0.1720	0.1809	0.0100	21.0	20.0	5.2	30.0
2,4-Dinitrotoluene	Ave	0.4139	0.4227	0.2000	10.2	10.0	2.1	30.0
Dibenzofuran	Ave	1.626	1.630	0.8000	10.0	10.0	0.2	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3335	0.3379	0.0100	10.1	10.0	1.3	30.0
Hexadecane	Ave	1.123	1.095	0.0100	9.75	10.0	-2.5	30.0
Diethyl phthalate	Ave	1.349	1.375	0.0100	10.2	10.0	1.9	30.0
4-Chlorophenyl phenyl ether	Ave	0.6334	0.6439	0.4000	10.2	10.0	1.7	30.0
Fluorene	Ave	1.322	1.369	0.9000	10.4	10.0	3.6	30.0
4-Nitroaniline	Ave	0.3642	0.3681	0.0100	10.1	10.0	1.1	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1262	0.1436	0.0100	22.8	20.0	13.8	30.0
Diphenylamine	Ave	0.5934	0.6054	0.0100	8.67	8.50	2.0	30.0
N-Nitrosodiphenylamine	Ave	0.5057	0.5146	0.0100	10.2	10.0	1.7	30.0
1,2-Diphenylhydrazine	Ave	1.187	1.203	0.0100	10.1	10.0	1.3	30.0
4-Bromophenyl phenyl ether	Ave	0.2072	0.2144	0.1000	10.3	10.0	3.4	30.0
Hexachlorobenzene	Ave	0.2154	0.2339	0.1000	10.9	10.0	8.6	30.0
n-Octadecane	Ave	0.4296	0.4212	0.0100	9.81	10.0	-1.9	30.0
Pentachlorophenol	Ave	0.1549	0.1831	0.0500	23.6	20.0	18.2	30.0
Phenanthrene	Ave	1.068	1.113	0.7000	10.4	10.0	4.2	30.0
Anthracene	Ave	1.076	1.109	0.7000	10.3	10.0	3.1	30.0
Carbazole	Ave	0.8352	0.9426	0.0100	11.3	10.0	12.9	30.0
Di-n-butyl phthalate	Ave	1.301	1.359	0.0100	10.4	10.0	4.4	30.0
Fluoranthene	Ave	1.206	1.330	0.6000	11.0	10.0	10.3	30.0
Benzidine	Ave	0.6724	0.7480	0.0100	11.1	10.0	11.2	30.0
Pyrene	Ave	1.327	1.377	0.6000	10.4	10.0	3.7	30.0
Butyl benzyl phthalate	Ave	0.7061	0.7537	0.0100	10.7	10.0	6.7	30.0
3,3'-Dichlorobenzidine	Ave	0.4706	0.5497	0.0100	11.7	10.0	16.8	30.0
Benzo[a]anthracene	Ave	1.263	1.297	0.8000	10.3	10.0	2.7	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.9351	0.9801	0.0100	10.5	10.0	4.8	30.0
Chrysene	Ave	1.087	1.080	0.7000	9.94	10.0	-0.6	30.0
Di-n-octyl phthalate	Ave	1.539	1.699	0.0100	11.0	10.0	10.4	30.0
Benzo[b]fluoranthene	Ave	1.170	1.298	0.7000	11.1	10.0	11.0	30.0
Benzo[k]fluoranthene	Ave	1.092	1.112	0.7000	10.2	10.0	1.8	30.0
Benzo[a]pyrene	Ave	1.086	1.176	0.7000	10.8	10.0	8.3	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.232	1.325	0.5000	10.7	10.0	7.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-446627/13 Calibration Date: 08/23/2018 00:09
 Instrument ID: CMS24 Calib Start Date: 08/22/2018 19:26
 GC Column: Rxi-5ms ID: 0.50 (mm) Calib End Date: 08/22/2018 23:43
 Lab File ID: ICV.d Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	0.9712	1.032	0.4000	10.6	10.0	6.3	30.0
Benzo[g,h,i]perylene	Ave	1.003	1.013	0.5000	10.1	10.0	1.0	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\ICV.d
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 23-Aug-2018 00:09:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 500-0054569-013
 Operator ID: ges Instrument ID: CMS24
 Sublist:

Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:12:16 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d

Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: rynkarg Date: 23-Aug-2018 08:24:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.225	6.225	0.000	95	205301	3.20	3.20	
* 1 Naphthalene-d8	136	7.282	7.282	0.000	99	733297	3.20	3.20	
* 4 Acenaphthene-d10	164	8.758	8.758	0.000	97	324862	3.20	3.20	
* 5 Phenanthrene-d10	188	10.020	10.020	0.000	98	582435	3.20	3.20	
* 6 Chrysene-d12	240	13.215	13.211	0.004	98	541610	3.20	3.20	
* 2 Perylene-d12	264	16.687	16.682	0.005	96	566260	3.20	3.20	
28 1,4-Dioxane	88	3.649	3.649	0.000	87	285136	10.0	10.5	
111 N-Nitrosodimethylamine	42	3.958	3.949	0.009	77	527295	10.0	10.1	
73 Pyridine	79	3.996	3.992	0.004	80	1485661	20.0	20.5	
105 Phenol	94	5.925	5.925	0.000	93	962222	10.0	10.6	
70 Aniline	93	5.958	5.958	0.000	95	1131088	10.0	10.4	
121 Bis(2-chloroethyl)ether	93	5.992	5.992	0.000	91	710007	10.0	9.85	
24 2-Chlorophenol	128	6.058	6.058	0.000	98	891177	10.0	10.2	
114 n-Decane	43	6.082	6.082	0.000	90	975623	10.0	9.66	
109 1,3-Dichlorobenzene	146	6.187	6.187	0.000	99	971122	10.0	10.1	
68 1,4-Dichlorobenzene	146	6.239	6.239	0.000	95	966419	10.0	10.1	
76 Benzyl alcohol	108	6.334	6.330	0.004	93	469036	10.0	10.6	
115 1,2-Dichlorobenzene	146	6.373	6.368	0.005	98	892944	10.0	9.93	
143 2-Methylphenol	107	6.411	6.411	0.000	96	599131	10.0	10.2	
133 2,2'-oxybis[1-chloropropan	45	6.430	6.430	0.000	92	1272111	10.0	9.11	
102 Indene	116	6.444	6.444	0.000	90	2392861	20.0	22.3	
86 3 & 4 Methylphenol	108	6.539	6.539	0.000	95	671136	10.0	9.88	
144 N-Nitrosodi-n-propylamine	70	6.549	6.544	0.005	84	415909	10.0	9.58	
127 Acetophenone	105	6.549	6.549	0.000	92	930628	10.0	9.46	
120 Hexachloroethane	117	6.654	6.654	0.000	93	343665	10.0	9.84	
126 Nitrobenzene	77	6.692	6.692	0.000	96	681381	10.0	10.4	
107 Isophorone	82	6.892	6.887	0.005	97	1226056	10.0	10.7	
58 2-Nitrophenol	139	6.958	6.958	0.000	93	462748	10.0	10.4	
62 2,4-Dimethylphenol	122	6.977	6.973	0.004	92	672446	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
67 Bis(2-chloroethoxy)methane	93	7.044	7.044	0.000	92	788135	10.0	10.2	
152 Benzoic acid	122	7.120	7.111	0.009	91	890882	20.0	22.6	
39 2,4-Dichlorophenol	162	7.158	7.158	0.000	94	629504	10.0	10.3	
92 1,2,4-Trichlorobenzene	180	7.230	7.230	0.000	95	694441	10.0	10.1	
132 Naphthalene	128	7.301	7.301	0.000	99	2097530	10.0	9.95	
47 4-Chloroaniline	127	7.330	7.330	0.000	96	927186	10.0	10.5	
81 2,6-Dichlorophenol	162	7.344	7.344	0.000	95	582385	10.0	10.1	
77 Hexachlorobutadiene	225	7.396	7.396	0.000	96	357933	10.0	10.4	
159 4-Chloro-3-methylphenol	107	7.720	7.720	0.000	90	587159	10.0	10.1	
135 2-Methylnaphthalene	142	7.877	7.873	0.004	96	1559982	10.0	10.3	
36 1-Methylnaphthalene	142	7.963	7.958	0.005	95	1385332	10.0	9.80	
19 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	97	385105	10.0	12.1	
48 1,2,4,5-Tetrachlorobenzene	216	8.020	8.020	0.000	96	633218	10.0	10.3	
94 2,4,6-Trichlorophenol	196	8.106	8.106	0.000	93	412520	10.0	10.3	
95 2,4,5-Trichlorophenol	196	8.139	8.139	0.000	94	417293	10.0	10.1	
146 1,1'-Biphenyl	154	8.263	8.258	0.005	95	1684249	10.0	10.5	
122 2-Chloronaphthalene	162	8.287	8.287	0.000	97	1238259	10.0	10.5	
31 2-Nitroaniline	65	8.363	8.363	0.000	84	444495	10.0	10.5	
118 Dimethyl phthalate	163	8.506	8.506	0.000	98	1399960	10.0	10.2	
49 1,3-Dinitrobenzene	168	8.544	8.539	0.005	86	256042	10.0	10.4	
91 2,6-Dinitrotoluene	165	8.563	8.558	0.005	91	341087	10.0	10.5	
75 Acenaphthylene	152	8.644	8.644	0.000	98	2072770	10.0	11.4	
42 3-Nitroaniline	138	8.715	8.711	0.004	90	390793	10.0	10.6	
134 Acenaphthene	153	8.787	8.787	0.000	93	1353094	10.0	10.5	
128 2,4-Dinitrophenol	184	8.801	8.801	0.000	77	481359	20.0	22.5	
130 4-Nitrophenol	109	8.849	8.844	0.005	93	367298	20.0	21.0	
51 2,4-Dinitrotoluene	165	8.911	8.906	0.005	92	429164	10.0	10.2	
13 Dibenzofuran	168	8.934	8.935	-0.001	96	1654395	10.0	10.0	
170 2,3,4,6-Tetrachlorophenol	232	9.034	9.035	-0.001	74	343041	10.0	10.1	
186 Hexadecane	57	9.087	9.087	0.000	86	1111480	10.0	9.75	
90 Diethyl phthalate	149	9.092	9.092	0.000	98	1395794	10.0	10.2	
155 4-Chlorophenyl phenyl ethe	204	9.201	9.201	0.000	94	653699	10.0	10.2	
61 Fluorene	166	9.225	9.225	0.000	93	1389846	10.0	10.4	
69 4-Nitroaniline	138	9.244	9.235	0.009	81	373701	10.0	10.1	
46 4,6-Dinitro-2-methylphenol	198	9.263	9.258	0.005	92	522794	20.0	22.8	
131 Diphenylamine	169	9.306	9.301	0.005	98	936529	8.50	8.67	
74 N-Nitrosodiphenylamine	169	9.306	9.301	0.005	97	936529	10.0	10.2	
124 1,2-Diphenylhydrazine	77	9.339	9.339	0.000	96	1220968	10.0	10.1	
34 4-Bromophenyl phenyl ether	248	9.620	9.620	0.000	69	390132	10.0	10.3	
149 Hexachlorobenzene	284	9.706	9.701	0.005	96	425691	10.0	10.9	
17 Pentachlorophenol	266	9.863	9.858	0.005	90	666375	20.0	23.6	
137 n-Octadecane	43	9.863	9.863	0.000	93	766667	10.0	9.81	
37 Phenanthrene	178	10.044	10.044	0.000	97	2025498	10.0	10.4	
125 Anthracene	178	10.087	10.087	0.000	98	2018941	10.0	10.3	
80 Carbazole	167	10.211	10.211	0.000	96	1715716	10.0	11.3	
162 Di-n-butyl phthalate	149	10.468	10.468	0.000	99	2472756	10.0	10.4	
87 Fluoranthene	202	11.168	11.168	0.000	98	2420353	10.0	11.0	
177 Benzidine	184	11.287	11.287	0.000	97	1266088	10.0	11.1	
148 Pyrene	202	11.439	11.435	0.004	95	2330621	10.0	10.4	
163 Butyl benzyl phthalate	149	12.215	12.211	0.004	96	1275688	10.0	10.7	
110 3,3'-Dichlorobenzidine	252	13.135	13.130	0.005	99	930360	10.0	11.7	
14 Benzo[a]anthracene	228	13.196	13.192	0.004	98	2194685	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 Bis(2-ethylhexyl) phthalat	149	13.196	13.192	0.004	94	1658759	10.0	10.5	
23 Chrysene	228	13.273	13.263	0.010	97	1827998	10.0	9.94	
79 Di-n-octyl phthalate	149	14.606	14.601	0.005	75	3092043	10.0	11.0	
145 Benzo[b]fluoranthene	252	15.592	15.582	0.010	98	2297690	10.0	11.1	
55 Benzo[k]fluoranthene	252	15.673	15.658	0.015	98	1966878	10.0	10.2	
84 Benzo[a]pyrene	252	16.530	16.520	0.010	96	2081534	10.0	10.8	
96 Indeno[1,2,3-cd]pyrene	276	19.758	19.744	0.014	97	2344159	10.0	10.7	
59 Dibenz(a,h)anthracene	278	19.820	19.811	0.009	94	1826823	10.0	10.6	
53 Benzo[g,h,i]perylene	276	20.382	20.373	0.009	98	1792448	10.0	10.1	

Reagents:

SMIs1_5uL3ICV_00005

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\ICV.d

Injection Date: 23-Aug-2018 00:09:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: icv

Worklist Smp#: 13

Client ID:

Injection Vol: 5.0 ul

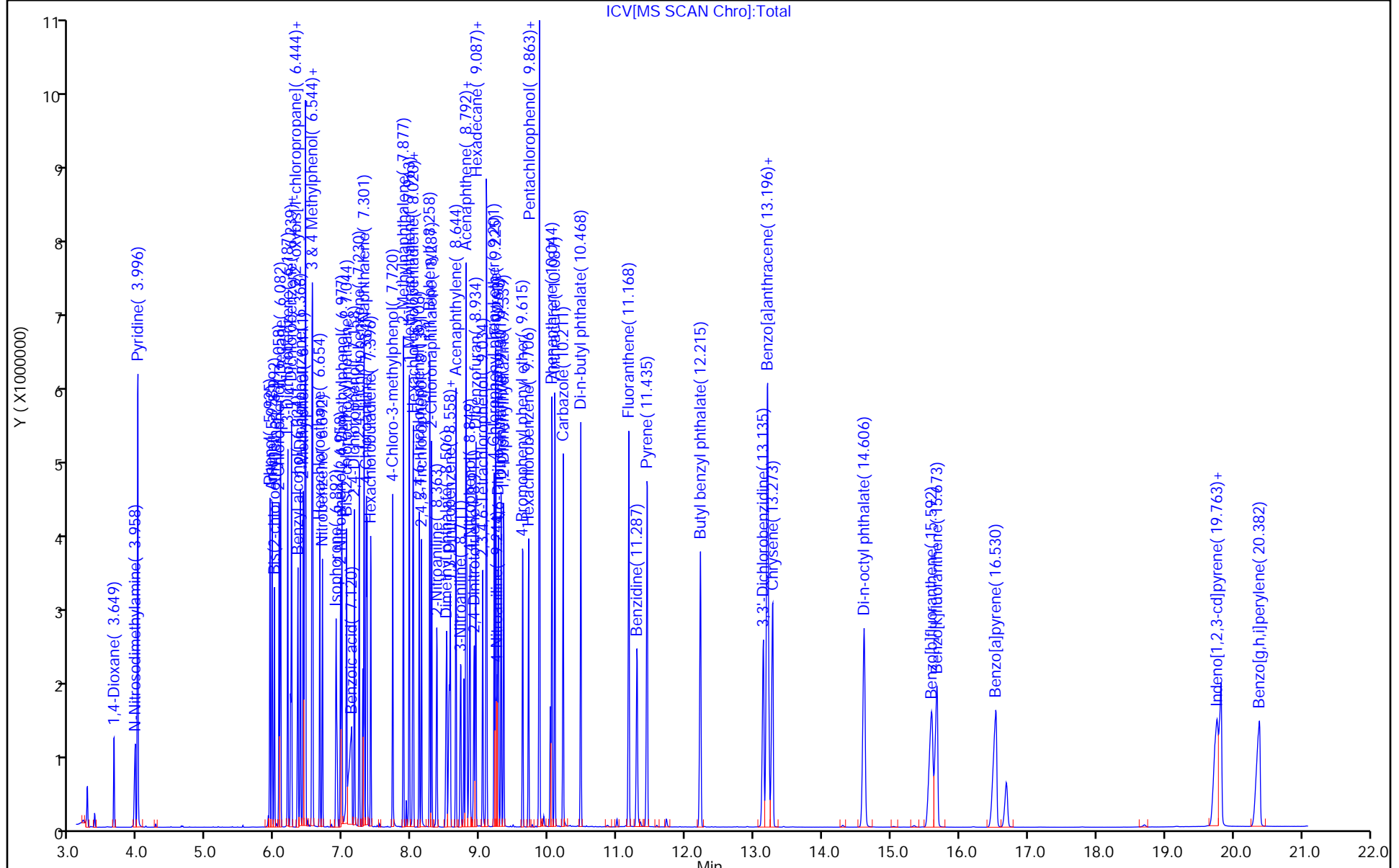
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 24-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448285/2 Calibration Date: 09/04/2018 15:26
 Instrument ID: CMS24 Calib Start Date: 08/22/2018 19:26
 GC Column: Rxi-5ms ID: 0.50 (mm) Calib End Date: 08/22/2018 23:43
 Lab File ID: 24C0904.d Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9198	0.9199	0.7000	8.00	8.00	0.0	20.0
2-Methylnaphthalene	Ave	0.6580	0.6588	0.4000	8.01	8.00	0.1	20.0
1-Methylnaphthalene	Ave	0.6168	0.6143	0.0100	7.97	8.00	-0.4	20.0
Acenaphthylene	Ave	1.794	1.808	0.9000	8.07	8.00	0.8	20.0
Acenaphthene	Ave	1.275	1.292	0.9000	8.11	8.00	1.3	20.0
Fluorene	Ave	1.322	1.314	0.9000	7.95	8.00	-0.6	20.0
Phenanthrene	Ave	1.068	1.092	0.7000	8.18	8.00	2.3	20.0
Anthracene	Ave	1.076	1.102	0.7000	8.19	8.00	2.4	20.0
Fluoranthene	Ave	1.206	1.251	0.6000	8.30	8.00	3.8	20.0
Pyrene	Ave	1.327	1.340	0.6000	8.08	8.00	1.0	20.0
Benzo[a]anthracene	Ave	1.263	1.327	0.8000	8.40	8.00	5.0	20.0
Chrysene	Ave	1.087	1.063	0.7000	7.83	8.00	-2.1	20.0
Benzo[b]fluoranthene	Ave	1.170	1.270	0.7000	8.69	8.00	8.6	20.0
Benzo[k]fluoranthene	Ave	1.092	1.080	0.7000	7.91	8.00	-1.1	20.0
Benzo[a]pyrene	Ave	1.086	1.153	0.7000	8.49	8.00	6.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.232	1.348	0.5000	8.75	8.00	9.4	20.0
Dibenz(a,h)anthracene	Ave	0.9712	1.066	0.4000	8.78	8.00	9.7	20.0
Benzo[g,h,i]perylene	Ave	1.003	1.040	0.5000	8.29	8.00	3.6	20.0
Nitrobenzene-d5 (Surr)	Ave	0.2622	0.2641	0.0100	8.06	8.00	0.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.237	1.263	0.0100	8.17	8.00	2.1	20.0
Terphenyl-d14 (Surr)	Ave	0.8638	0.8407	0.0100	7.79	8.00	-2.7	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24C0904.d
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 04-Sep-2018 15:26:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 500-0054822-002
 Operator ID: sw Instrument ID: CMS24
 Sublist: chrom-24-LVI8270*sub68
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 12:08:42 Calib Date: 28-Aug-2018 15:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180828-54685.b\24C0828a.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: diaza

Date: 05-Sep-2018 12:08:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.030	6.030	0.000	95	184068	3.20	3.20	
* 1 Naphthalene-d8	136	7.087	7.087	0.000	99	675692	3.20	3.20	
* 4 Acenaphthene-d10	164	8.563	8.563	0.000	97	297859	3.20	3.20	
* 5 Phenanthrene-d10	188	9.820	9.820	0.000	98	527578	3.20	3.20	
* 6 Chrysene-d12	240	12.835	12.835	0.000	98	476708	3.20	3.20	
* 2 Perylene-d12	264	16.035	16.035	0.000	97	493195	3.20	3.20	s
\$ 12 2-Fluorophenol	112	4.958	4.958	0.000	95	514849	8.00	8.80	
\$ 7 Phenol-d5	99	5.735	5.735	0.000	99	600933	8.00	8.53	
\$ 9 Nitrobenzene-d5	82	6.487	6.487	0.000	92	446123	8.00	8.06	
\$ 11 2-Fluorobiphenyl	172	7.982	7.982	0.000	100	940189	8.00	8.17	
\$ 8 2,4,6-Tribromophenol	330	9.235	9.235	0.000	85	108145	8.00	7.25	
\$ 10 Terphenyl-d14	244	11.306	11.306	0.000	98	1001889	8.00	7.79	
28 1,4-Dioxane	88	3.268	3.268	0.000	84	200317	8.00	8.23	
111 N-Nitrosodimethylamine	42	3.625	3.625	0.000	75	421088	8.00	9.03	
73 Pyridine	79	3.663	3.663	0.000	77	1082231	16.0	16.7	
105 Phenol	94	5.749	5.749	0.000	92	707771	8.00	8.73	
70 Aniline	93	5.758	5.758	0.000	96	786961	8.00	8.05	
121 Bis(2-chloroethyl)ether	93	5.797	5.797	0.000	90	534552	8.00	8.27	
24 2-Chlorophenol	128	5.868	5.868	0.000	98	628960	8.00	8.04	
114 n-Decane	43	5.887	5.887	0.000	90	757989	8.00	8.37	
109 1,3-Dichlorobenzene	146	5.987	5.987	0.000	99	696770	8.00	8.11	
68 1,4-Dichlorobenzene	146	6.044	6.044	0.000	95	692033	8.00	8.07	
76 Benzyl alcohol	108	6.144	6.144	0.000	93	325519	8.00	8.18	
115 1,2-Dichlorobenzene	146	6.173	6.173	0.000	98	647561	8.00	8.03	
133 2,2'-oxybis[1-chloropropan	45	6.239	6.239	0.000	87	890912	8.00	7.12	
143 2-Methylphenol	107	6.239	6.239	0.000	95	448469	8.00	8.48	
102 Indene	116	6.249	6.249	0.000	91	1565307	16.0	16.3	
144 N-Nitrosodi-n-propylamine	70	6.358	6.358	0.000	79	318830	8.00	8.19	
127 Acetophenone	105	6.358	6.358	0.000	89	720050	8.00	8.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
86 3 & 4 Methylphenol	108	6.363	6.363	0.000	97	500419	8.00	8.22	
120 Hexachloroethane	117	6.454	6.454	0.000	93	255877	8.00	8.17	
126 Nitrobenzene	77	6.501	6.501	0.000	95	497703	8.00	8.25	
107 Isophorone	82	6.701	6.701	0.000	97	861117	8.00	8.15	
58 2-Nitrophenol	139	6.768	6.768	0.000	94	318298	8.00	7.75	
62 2,4-Dimethylphenol	122	6.797	6.797	0.000	93	477649	8.00	7.89	
67 Bis(2-chloroethoxy)methane	93	6.858	6.858	0.000	91	576040	8.00	8.10	
152 Benzoic acid	122	6.958	6.958	0.000	91	486175	16.0	13.4	
39 2,4-Dichlorophenol	162	6.977	6.977	0.000	93	447290	8.00	7.97	
92 1,2,4-Trichlorobenzene	180	7.039	7.039	0.000	95	503794	8.00	7.93	
132 Naphthalene	128	7.106	7.106	0.000	99	1553944	8.00	8.00	
47 4-Chloroaniline	127	7.144	7.144	0.000	96	664501	8.00	8.16	
81 2,6-Dichlorophenol	162	7.158	7.158	0.000	94	424263	8.00	7.98	
77 Hexachlorobutadiene	225	7.206	7.206	0.000	97	251359	8.00	7.93	
159 4-Chloro-3-methylphenol	107	7.554	7.554	0.000	91	433774	8.00	8.07	
135 2-Methylnaphthalene	142	7.682	7.682	0.000	96	1112843	8.00	8.01	
36 1-Methylnaphthalene	142	7.768	7.768	0.000	95	1037666	8.00	7.97	
19 Hexachlorocyclopentadiene	237	7.820	7.820	0.000	97	168544	8.00	5.76	
48 1,2,4,5-Tetrachlorobenzene	216	7.830	7.830	0.000	98	448287	8.00	7.95	
94 2,4,6-Trichlorophenol	196	7.925	7.925	0.000	94	287730	8.00	7.83	
95 2,4,5-Trichlorophenol	196	7.973	7.973	0.000	93	317827	8.00	8.37	
146 1,1'-Biphenyl	154	8.068	8.068	0.000	95	1166880	8.00	7.95	
122 2-Chloronaphthalene	162	8.097	8.097	0.000	97	866584	8.00	7.98	
31 2-Nitroaniline	65	8.182	8.182	0.000	83	333383	8.00	8.58	
118 Dimethyl phthalate	163	8.311	8.311	0.000	99	1012683	8.00	8.08	
49 1,3-Dinitrobenzene	168	8.358	8.358	0.000	86	180096	8.00	7.97	
91 2,6-Dinitrotoluene	165	8.373	8.373	0.000	90	242445	8.00	8.16	
75 Acenaphthylene	152	8.449	8.449	0.000	98	1346632	8.00	8.07	
42 3-Nitroaniline	138	8.530	8.530	0.000	90	280473	8.00	8.26	
134 Acenaphthene	153	8.592	8.592	0.000	92	962338	8.00	8.11	
128 2,4-Dinitrophenol	184	8.625	8.625	0.000	76	278399	16.0	14.2	
130 4-Nitrophenol	109	8.701	8.701	0.000	94	269717	16.0	16.9	
51 2,4-Dinitrotoluene	165	8.720	8.720	0.000	92	316967	8.00	8.23	
13 Dibenzofuran	168	8.735	8.735	0.000	96	1201673	8.00	7.94	
170 2,3,4,6-Tetrachlorophenol	232	8.849	8.849	0.000	76	231835	8.00	7.47	
90 Diethyl phthalate	149	8.897	8.897	0.000	98	1046309	8.00	8.33	
186 Hexadecane	57	8.901	8.901	0.000	86	886095	8.00	8.48	
155 4-Chlorophenyl phenyl ethe	204	9.006	9.006	0.000	94	458884	8.00	7.78	
61 Fluorene	166	9.025	9.025	0.000	93	978260	8.00	7.95	
69 4-Nitroaniline	138	9.063	9.063	0.000	76	271376	8.00	8.01	
46 4,6-Dinitro-2-methylphenol	198	9.082	9.082	0.000	92	299407	16.0	14.4	
74 N-Nitrosodiphenylamine	169	9.111	9.111	0.000	97	680266	8.00	8.16	
131 Diphenylamine	169	9.111	9.111	0.000	98	680266	6.80	6.95	
124 1,2-Diphenylhydrazine	77	9.144	9.144	0.000	93	915061	8.00	8.28	
34 4-Bromophenyl phenyl ether	248	9.420	9.420	0.000	74	261230	8.00	7.65	
149 Hexachlorobenzene	284	9.506	9.506	0.000	94	281716	8.00	7.93	
137 n-Octadecane	43	9.673	9.673	0.000	91	666343	8.00	9.41	
17 Pentachlorophenol	266	9.673	9.673	0.000	77	326816	16.0	12.8	
37 Phenanthrene	178	9.844	9.844	0.000	97	1440386	8.00	8.18	
125 Anthracene	178	9.887	9.887	0.000	98	1453855	8.00	8.19	
80 Carbazole	167	10.016	10.016	0.000	96	1218768	8.00	8.85	
162 Di-n-butyl phthalate	149	10.263	10.263	0.000	100	1772628	8.00	8.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	10.920	10.920	0.000	98	1650465	8.00	8.30	
177 Benzidine	184	11.044	11.044	0.000	97	750314	8.00	7.49	
148 Pyrene	202	11.168	11.168	0.000	95	1597360	8.00	8.08	
163 Butyl benzyl phthalate	149	11.906	11.906	0.000	97	893818	8.00	8.50	
110 3,3'-Dichlorobenzidine	252	12.763	12.763	0.000	99	548078	8.00	7.82	
101 Bis(2-ethylhexyl) phthalat	149	12.811	12.811	0.000	94	1224928	8.00	8.79	
14 Benzo[a]anthracene	228	12.811	12.811	0.000	99	1580887	8.00	8.40	
23 Chrysene	228	12.882	12.882	0.000	97	1267134	8.00	7.83	
79 Di-n-octyl phthalate	149	14.125	14.125	0.000	75	2197503	8.00	8.66	
145 Benzo[b]fluoranthene	252	15.030	15.030	0.000	98	1566292	8.00	8.69	
55 Benzo[k]fluoranthene	252	15.106	15.106	0.000	97	1331622	8.00	7.91	
84 Benzo[a]pyrene	252	15.887	15.887	0.000	96	1421785	8.00	8.49	
96 Indeno[1,2,3-cd]pyrene	276	19.235	19.235	0.000	97	1662076	8.00	8.75	
59 Dibenz(a,h)anthracene	278	19.282	19.282	0.000	96	1314109	8.00	8.78	
53 Benzo[g,h,i]perylene	276	19.801	19.801	0.000	98	1282178	8.00	8.29	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

SMLst1_5uLL8x_00154

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24C0904.d

Injection Date: 04-Sep-2018 15:26:30

Instrument ID: CMS24

Operator ID: sw

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

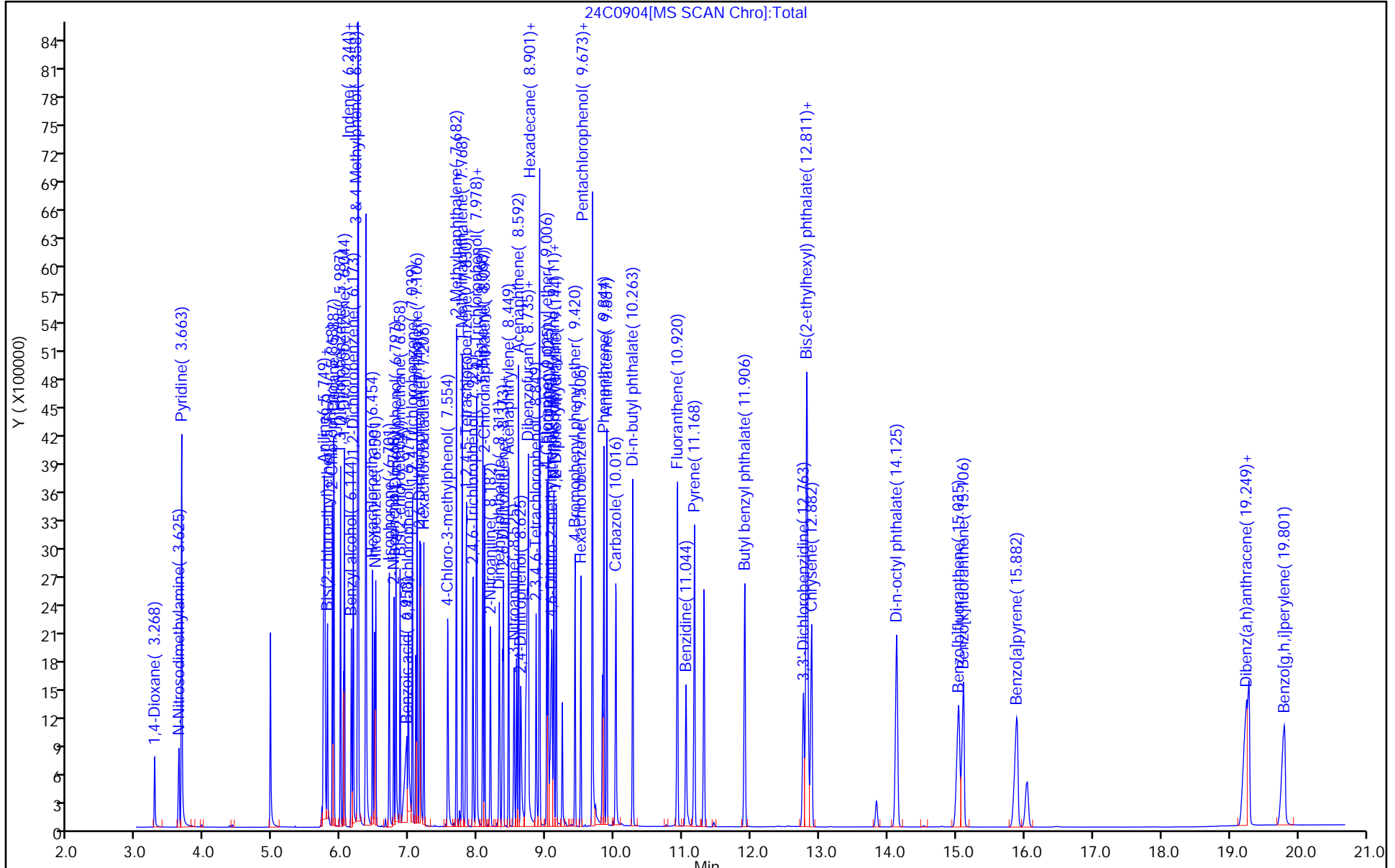
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11D0821c.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 21-Aug-2018 14:30:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: dftpp
 Misc. Info.: 500-0054527-005
 Operator ID: AD Instrument ID: CMS11
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 22-Aug-2018 16:52:14 Calib Date: 21-Aug-2018 20:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\ic ppm70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg Date: 21-Aug-2018 18:32:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Pentachlorophenol	266	9.683	9.683	0.000	82	208468	NR	NR	
143 Benzidine	184	11.057	11.057	0.000	96	1047074	NR	NR	
146 4,4'-DDE	246	11.257	11.257	0.000	83	1069		NR	
149 4,4'-DDT	235	11.666	11.666	0.000	95	4484	NR	NR	
147 4,4'-DDD	235	12.085	12.085	0.000	97	575964		NR	
168 DFTPP									

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard
 8 - Failed MS Tune Ratio Test

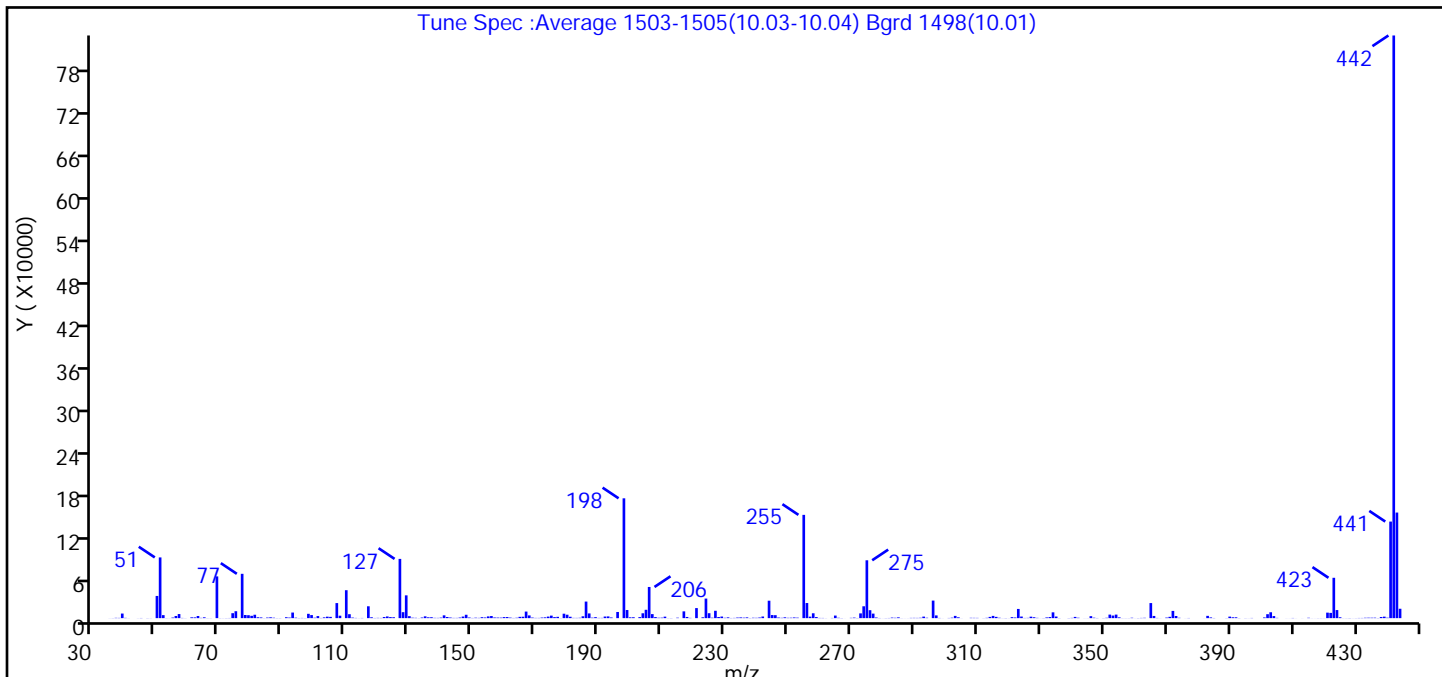
Reagents:

HIVOL_DFTPPWK_00119 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11D0821c.D
 Injection Date: 21-Aug-2018 14:30:30 Instrument ID: CMS11
 Lims ID: dftpp
 Client ID:
 Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Tune Method: DFTPP Method 8270D, BP 198

168 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (20.6)
51	10-80% of the base peak	50.7
68	<2% of mass 69	0.0 (0.0)
69	Present	34.8
70	<2% of mass 69	0.1 (0.3)
127	10-80% of the base peak	49.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	48.3
365	>1% of mass 198	12.6
441	present but <24% of mass 442	80.6 (16.6)
442	base peak, or >50% of 198	486.3
443	15-24% of mass 442	88.1 (18.1)

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11D0821c.D\11-LVI8270.rsl\spectra.d
 Injection Date: 21-Aug-2018 14:30:30
 Spectrum: Tune Spec :Average 1503-1505(10.03-10.04) Bgrd 1498(10.01)
 Base Peak: 442.00
 Minimum % Base Peak: 0
 Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	80	138.00	411	235.00	1026	335.00	2256
36.00	139	139.00	361	236.00	674	336.00	175
37.00	430	140.00	737	237.00	1074	339.00	197
38.00	345	141.00	3954	238.00	232	340.00	355
39.00	6489	142.00	1626	239.00	569	341.00	1747
40.00	393	143.00	852	240.00	464	342.00	561
41.00	95	144.00	349	241.00	890	344.00	71
44.00	93	145.00	351	242.00	2278	345.00	98
45.00	233	146.00	832	244.00	24624	346.00	2794
47.00	152	147.00	2252	245.00	4377	347.00	644
48.00	99	148.00	4767	246.00	4180	348.00	226
50.00	31352	149.00	883	247.00	888	350.00	171
51.00	85768	150.00	276	248.00	453	351.00	503
52.00	4242	151.00	619	249.00	1163	352.00	5004
53.00	147	152.00	375	250.00	464	353.00	3673
54.00	85	153.00	1324	251.00	601	354.00	5002
55.00	816	154.00	941	252.00	969	355.00	1117
56.00	3056	155.00	2439	253.00	694	356.00	124
57.00	5772	156.00	2993	255.00	145856	357.00	119
58.00	294	157.00	918	256.00	21352	358.00	124
59.00	119	158.00	786	257.00	2097	359.00	555
61.00	1142	159.00	720	258.00	6871	360.00	68
62.00	1050	160.00	1477	259.00	1514	361.00	189
63.00	3021	161.00	1553	260.00	304	362.00	308
64.00	380	162.00	743	261.00	280	363.00	465
65.00	1160	163.00	268	262.00	101	365.00	21280
66.00	153	164.00	538	264.00	271	366.00	3094
67.00	122	165.00	1815	265.00	3636	367.00	290
69.00	58952	166.00	1996	266.00	515	368.00	78
70.00	156	167.00	9286	267.00	194	370.00	765
71.00	103	168.00	3855	268.00	34	371.00	1854
72.00	173	169.00	811	270.00	411	372.00	10211
73.00	238	170.00	338	271.00	747	373.00	3037

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11D0821c.D\11-LVI8270.rslt\spectra.d

Injection Date: 21-Aug-2018 14:30:30

Spectrum: Tune Spec :Average 1503-1505(10.03-10.04) Bgrd 1498(10.01)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	6999	171.00	320	272.00	231	374.00	491
75.00	9775	172.00	826	273.00	6726	376.00	56
77.00	62600	173.00	1122	274.00	16752	377.00	239
78.00	4441	174.00	2181	275.00	81712	382.00	65
79.00	4146	175.00	3565	276.00	11223	383.00	3223
80.00	3299	176.00	1448	277.00	6397	384.00	1010
81.00	4810	177.00	1854	278.00	881	385.00	231
82.00	1225	178.00	137	279.00	233	389.00	161
83.00	992	179.00	6272	280.00	57	390.00	2145
84.00	130	180.00	4848	281.00	165	391.00	1209
85.00	816	181.00	1956	282.00	245	392.00	1191
86.00	1182	182.00	366	283.00	779	393.00	176
87.00	612	183.00	349	284.00	520	395.00	139
88.00	169	184.00	512	285.00	1117	396.00	77
89.00	169	185.00	2610	286.00	113	397.00	275
91.00	1290	186.00	23408	287.00	59	401.00	981
92.00	798	187.00	6662	288.00	77	402.00	5554
93.00	7903	188.00	684	289.00	349	403.00	8317
94.00	671	189.00	1395	290.00	392	404.00	2914
95.00	213	190.00	334	291.00	345	405.00	372
96.00	300	191.00	354	292.00	520	408.00	63
97.00	183	192.00	2260	293.00	2160	409.00	54
98.00	6127	193.00	2445	294.00	567	410.00	258
99.00	4331	194.00	924	296.00	24800	411.00	50
100.00	614	196.00	8704	297.00	3859	413.00	50
101.00	2919	198.00	169216	298.00	277	415.00	513
102.00	269	199.00	11472	299.00	59	416.00	75
103.00	1111	200.00	1148	301.00	268	417.00	53
104.00	2065	201.00	1261	302.00	652	418.00	126
105.00	1788	202.00	13	303.00	3169	419.00	123
107.00	21272	203.00	1441	304.00	1181	420.00	94
108.00	3453	204.00	6877	305.00	73	421.00	7771
110.00	39448	205.00	11812	308.00	449	422.00	7416
111.00	5555	206.00	44032	309.00	400	423.00	56992

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	784	207.00	5691	310.00	357	424.00	11415
113.00	307	208.00	1485	312.00	125	425.00	1226
114.00	97	209.00	559	313.00	428	426.00	98
115.00	266	210.00	677	314.00	1761	427.00	116
117.00	16760	211.00	2092	315.00	3173	428.00	200
118.00	1220	212.00	138	316.00	1807	429.00	72
119.00	245	213.00	181	317.00	525	430.00	135
120.00	380	215.00	631	318.00	96	431.00	265
121.00	288	217.00	9590	319.00	199	432.00	279
122.00	1578	218.00	1662	320.00	83	433.00	539
123.00	2394	219.00	352	321.00	1374	434.00	637
124.00	1479	221.00	14194	322.00	902	435.00	589
125.00	1287	223.00	1225	323.00	12988	436.00	658
127.00	83664	224.00	27640	324.00	2258	437.00	208
128.00	8423	225.00	6969	325.00	279	438.00	1613
129.00	32200	226.00	618	326.00	379	439.00	2086
130.00	2826	227.00	10398	327.00	2071	440.00	632
131.00	625	228.00	1606	328.00	1267	441.00	136384
132.00	438	229.00	2257	329.00	400	442.00	822848
133.00	143	230.00	500	330.00	56	443.00	149120
134.00	866	231.00	1088	331.00	189	444.00	13260
135.00	2539	232.00	240	332.00	982		
136.00	1172	233.00	347	333.00	1520		
137.00	1285	234.00	816	334.00	8197		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11D0821c.D

Injection Date: 21-Aug-2018 14:30:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

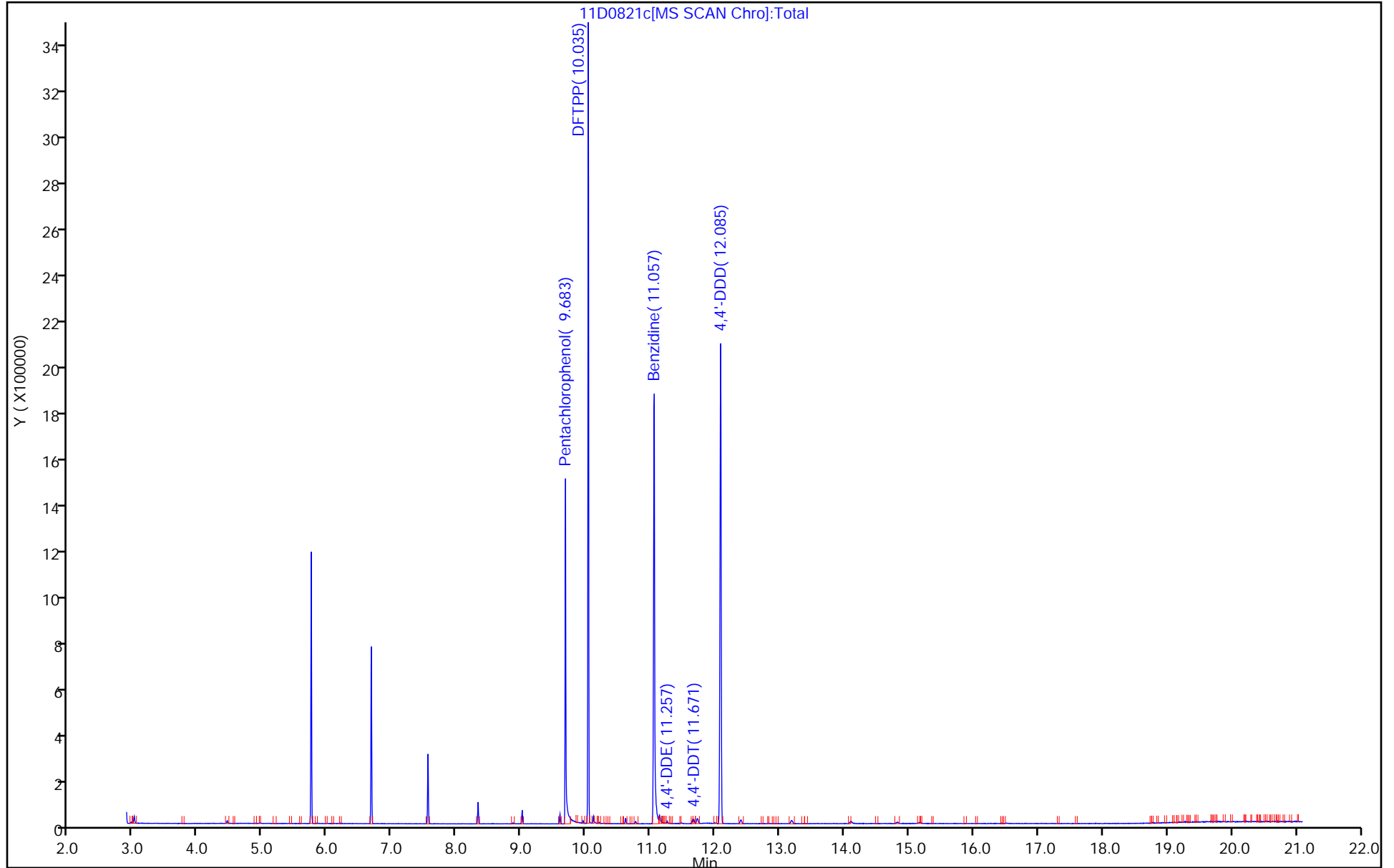
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180821-54540.b\11D0821c.D
Injection Date: 21-Aug-2018 14:30:30 Instrument ID: CMS11
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

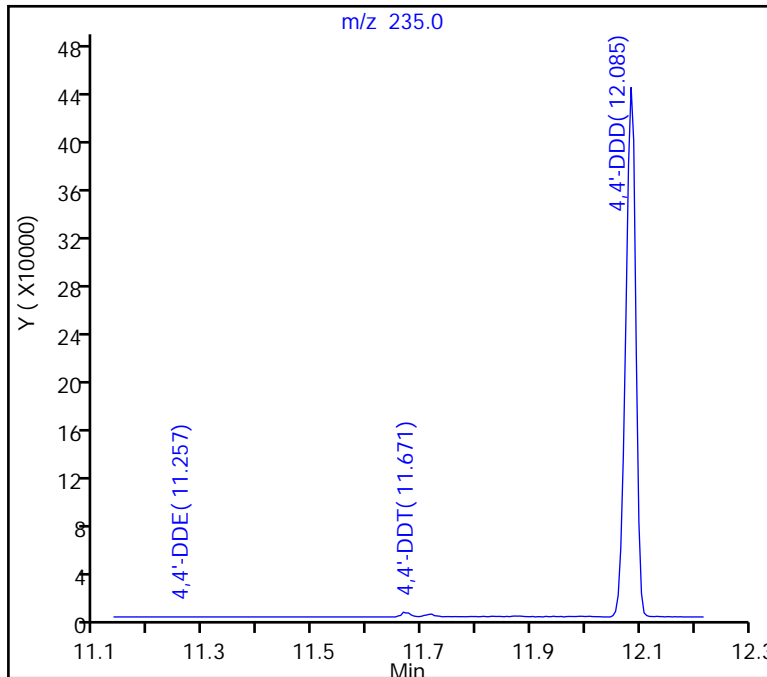
149 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

149 4,4'-DDT, Area = 4484
147 4,4'-DDD, Area = 575964
146 4,4'-DDE, Area = 1069

%Breakdown:* 99.23%, Max Limit: 20.00%
Failed



TestAmerica Chicago

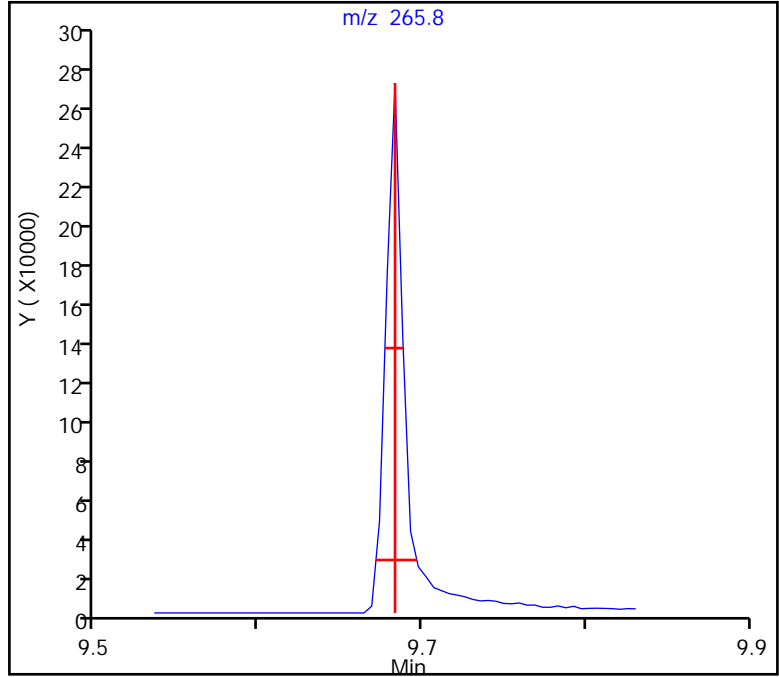
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Injection Date: 21-Aug-2018 14:30:30 Instrument ID: CMS11
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

127 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.013 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



TestAmerica Chicago

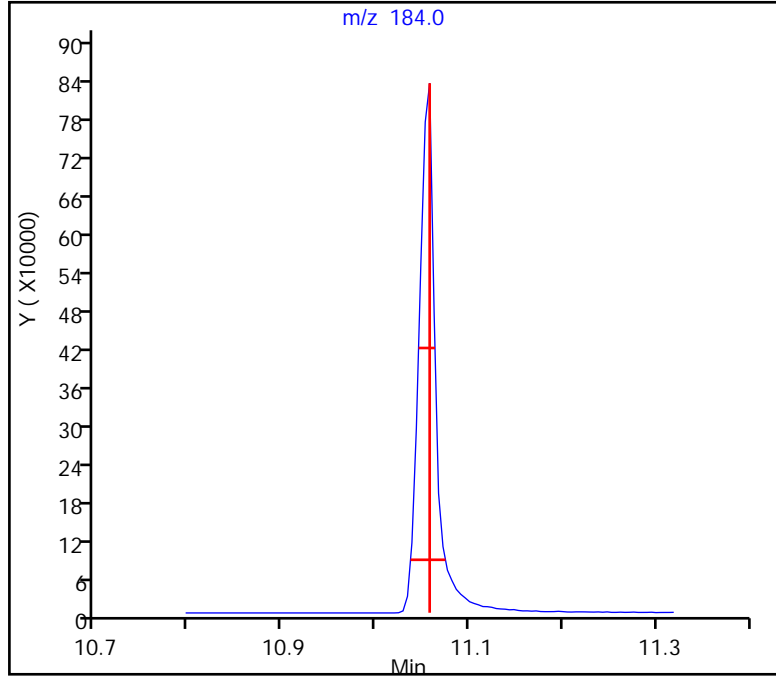
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Injection Date: 21-Aug-2018 14:30:30 Instrument ID: CMS11
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

143 Benzidine, Detector: MS SCAN

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

Back Width = 0.017 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 05-Sep-2018 08:50:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: dftpp
 Misc. Info.: 500-0054839-001
 Operator ID: AD Instrument ID: CMS11
 Method: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 11:04:22 Calib Date: 28-Aug-2018 15:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS11\20180828-54681.b\11c0828g.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: diaza Date: 05-Sep-2018 11:04:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Pentachlorophenol	266	9.516	9.516	0.000	82	215228	NR	NR	
143 Benzidine	184	10.829	10.829	0.000	97	923169	NR	NR	
146 4,4'-DDE	246	11.005	11.005	0.000	87	1970		NR	
147 4,4'-DDD	235	11.395	11.395	0.000	97	15289		NR	
149 4,4'-DDT	235	11.770	11.770	0.000	98	509361	NR	NR	
168 DFTPP									

QC Flag Legend

Processing Flags

- NR - Missing Quant Standard
- 8 - Failed MS Tune Ratio Test

Review Flags

- a - User Assigned ID

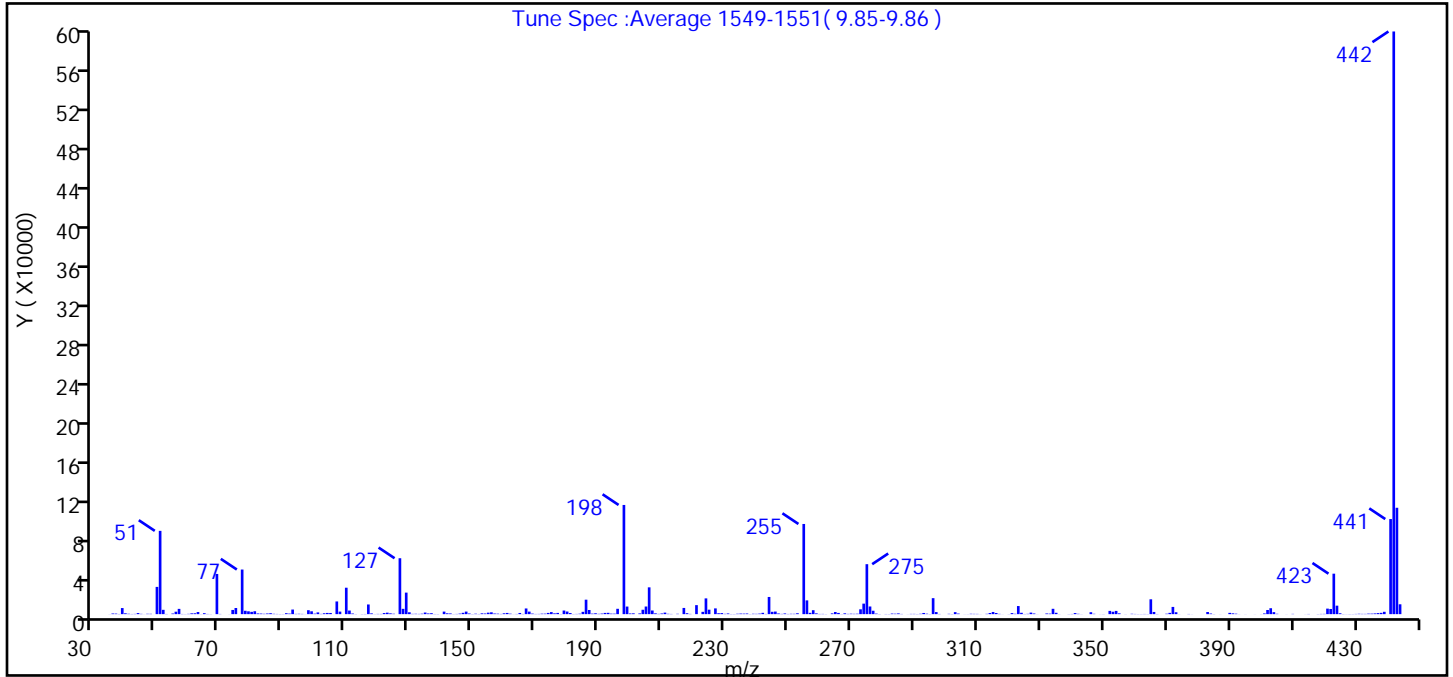
Reagents:

HIVOL_DFTPPWK_00119 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D
 Injection Date: 05-Sep-2018 08:50:30 Instrument ID: CMS11
 Lims ID: dftpp
 Client ID:
 Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Tune Method: DFTPP Method 8270D, BP 198

168 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (18.7)
51	10-80% of the base peak	76.3
68	<2% of mass 69	0.0 (0.0)
69	Present	36.8
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	51.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	45.8
365	>1% of mass 198	13.6
441	present but <24% of mass 442	87.1 (16.3)
442	base peak, or >50% of 198	533.6
443	15-24% of mass 442	97.4 (18.3)

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D\11-LVI8270.rsl\spectra.d
Injection Date: 05-Sep-2018 08:50:30
Spectrum: Tune Spec :Average 1549-1551(9.85-9.86)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	70	133.00	247	229.00	1060	326.00	308
36.00	656	134.00	451	230.00	299	327.00	1567
37.00	557	135.00	1633	231.00	708	328.00	657
38.00	177	136.00	702	232.00	152	329.00	60
39.00	6176	137.00	968	233.00	148	332.00	670
40.00	878	138.00	161	234.00	408	333.00	507
41.00	380	139.00	139	235.00	589	334.00	5431
42.00	177	141.00	2582	236.00	518	335.00	1372
43.00	249	142.00	854	237.00	650	336.00	85
44.00	1108	143.00	710	238.00	118	339.00	120
45.00	294	144.00	111	239.00	382	340.00	193
46.00	55	145.00	219	240.00	316	341.00	1088
47.00	359	146.00	546	241.00	552	342.00	339
48.00	325	147.00	1360	242.00	1339	343.00	81
50.00	27696	148.00	2599	243.00	191	346.00	1962
51.00	84664	149.00	648	244.00	17464	347.00	351
52.00	4389	150.00	148	245.00	2375	349.00	58
53.00	181	151.00	437	246.00	2633	350.00	101
55.00	637	152.00	175	247.00	693	352.00	3303
56.00	2489	153.00	826	248.00	253	353.00	2432
57.00	5356	154.00	657	249.00	714	354.00	3280
58.00	189	155.00	1508	250.00	200	355.00	811
59.00	112	156.00	1873	251.00	353	357.00	81
60.00	294	157.00	649	252.00	331	359.00	356
61.00	810	158.00	484	253.00	904	360.00	204
62.00	882	159.00	225	255.00	91672	361.00	127
63.00	2162	160.00	861	256.00	13995	362.00	124
64.00	95	161.00	1233	257.00	1328	363.00	189
65.00	972	162.00	460	258.00	4014	364.00	121
66.00	202	163.00	63	259.00	796	365.00	15092
67.00	98	164.00	187	260.00	208	366.00	2230
69.00	40856	165.00	1192	261.00	240	367.00	165
70.00	199	166.00	194	262.00	110	370.00	427

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D\11-LVI8270.rsl\spectra.d

Injection Date: 05-Sep-2018 08:50:30

Spectrum: Tune Spec :Average 1549-1551(9.85-9.86)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	66	167.00	5772	264.00	789	371.00	1297
74.00	4253	168.00	2579	265.00	2182	372.00	7343
75.00	6229	169.00	576	266.00	1254	373.00	1928
77.00	45344	170.00	198	267.00	110	374.00	70
78.00	3414	171.00	233	268.00	829	377.00	185
79.00	2878	172.00	477	269.00	256	378.00	60
80.00	2342	173.00	499	270.00	443	383.00	2181
81.00	2960	174.00	1251	271.00	322	384.00	631
82.00	683	175.00	2092	272.00	431	385.00	123
83.00	588	176.00	811	273.00	4913	387.00	52
84.00	353	177.00	1253	274.00	10687	390.00	1296
85.00	663	178.00	151	275.00	50792	391.00	805
86.00	959	179.00	3685	276.00	7782	392.00	476
87.00	345	180.00	2661	277.00	3455	393.00	67
88.00	209	181.00	1112	278.00	543	395.00	61
89.00	138	182.00	150	279.00	144	398.00	51
90.00	111	183.00	223	281.00	167	400.00	68
91.00	957	184.00	425	282.00	139	401.00	719
92.00	560	185.00	2352	283.00	600	402.00	4218
93.00	4669	186.00	14699	284.00	446	403.00	6017
94.00	261	187.00	4222	285.00	759	404.00	2018
95.00	359	188.00	536	286.00	209	405.00	352
96.00	242	189.00	898	288.00	57	408.00	57
97.00	56	190.00	311	289.00	246	410.00	263
98.00	3999	191.00	587	290.00	256	414.00	58
99.00	2899	192.00	1248	291.00	162	415.00	185
100.00	498	193.00	1331	292.00	373	418.00	132
101.00	1762	194.00	505	293.00	1191	419.00	226
102.00	264	195.00	498	294.00	455	420.00	265
103.00	881	196.00	5432	295.00	137	421.00	5614
104.00	1239	198.00	111000	296.00	16243	422.00	5248
105.00	1183	199.00	7713	297.00	2103	423.00	41144
107.00	12911	200.00	701	298.00	194	424.00	8616
108.00	2579	201.00	826	301.00	324	425.00	897

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D\11-LVI8270.rsl\spectra.d

Injection Date: 05-Sep-2018 08:50:30

Spectrum: Tune Spec :Average 1549-1551(9.85-9.86)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	26864	203.00	730	302.00	137	426.00	141
111.00	3655	204.00	4450	303.00	2017	427.00	87
112.00	648	205.00	7751	304.00	577	428.00	133
113.00	116	206.00	27248	306.00	60	429.00	124
115.00	132	207.00	3703	307.00	86	430.00	224
116.00	163	208.00	827	308.00	357	431.00	373
117.00	9837	209.00	267	309.00	277	432.00	266
118.00	784	210.00	680	310.00	246	433.00	262
119.00	96	211.00	1556	311.00	59	434.00	540
120.00	236	212.00	340	313.00	318	435.00	526
121.00	218	213.00	205	314.00	1149	436.00	737
122.00	1105	215.00	343	315.00	2197	437.00	1072
123.00	1505	217.00	6305	316.00	1171	438.00	1326
124.00	801	218.00	945	317.00	268	439.00	2387
125.00	414	219.00	231	318.00	51	441.00	96664
127.00	56840	221.00	9161	320.00	107	442.00	592320
128.00	5387	223.00	2346	321.00	1060	443.00	108136
129.00	21888	224.00	16023	322.00	370	444.00	10019
130.00	1900	225.00	4533	323.00	8231		
131.00	277	227.00	5848	324.00	1382		
132.00	364	228.00	927	325.00	165		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D

Injection Date: 05-Sep-2018 08:50:30

Instrument ID: CMS11

Operator ID: AD

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

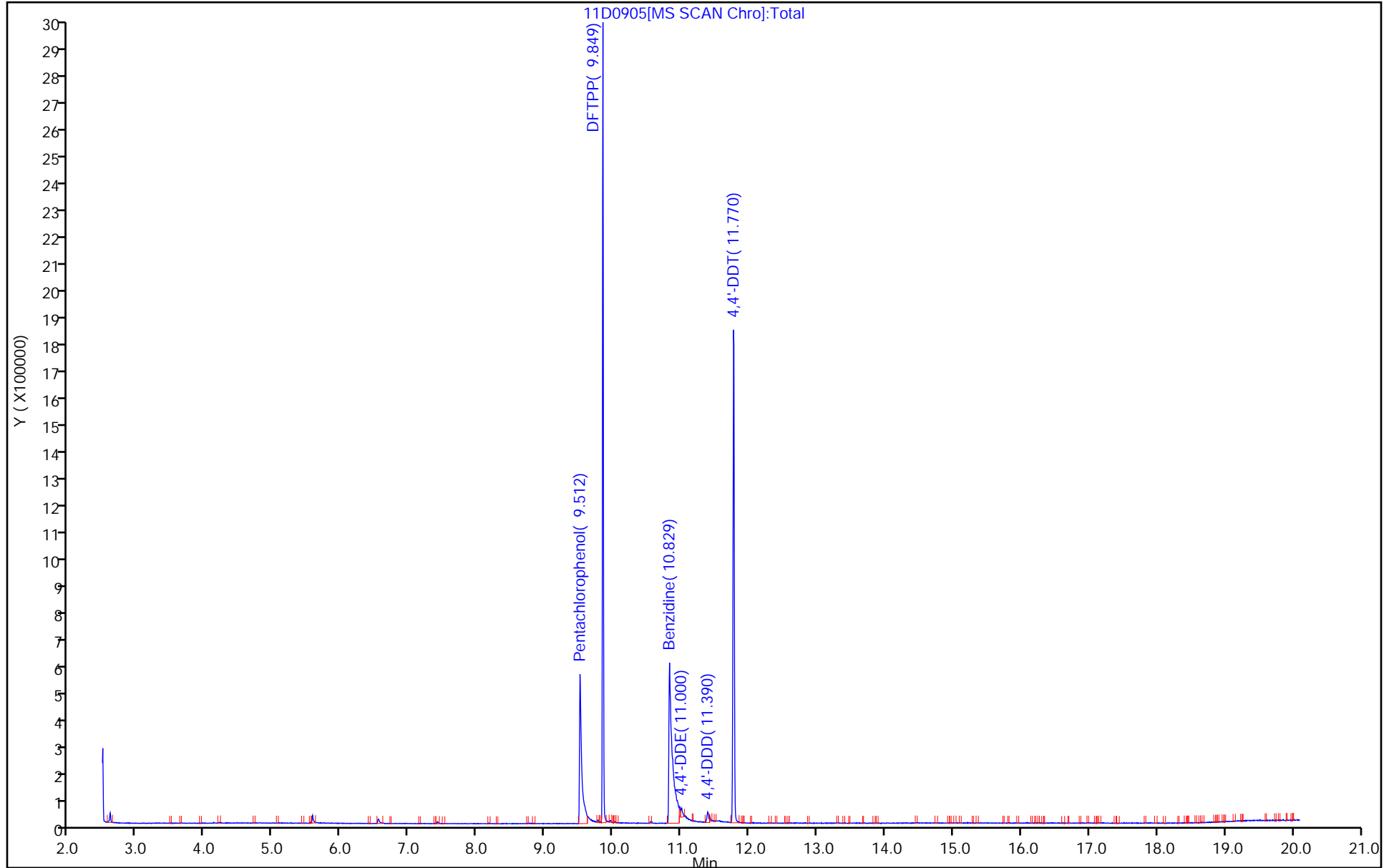
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 11-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D
Injection Date: 05-Sep-2018 08:50:30 Instrument ID: CMS11
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

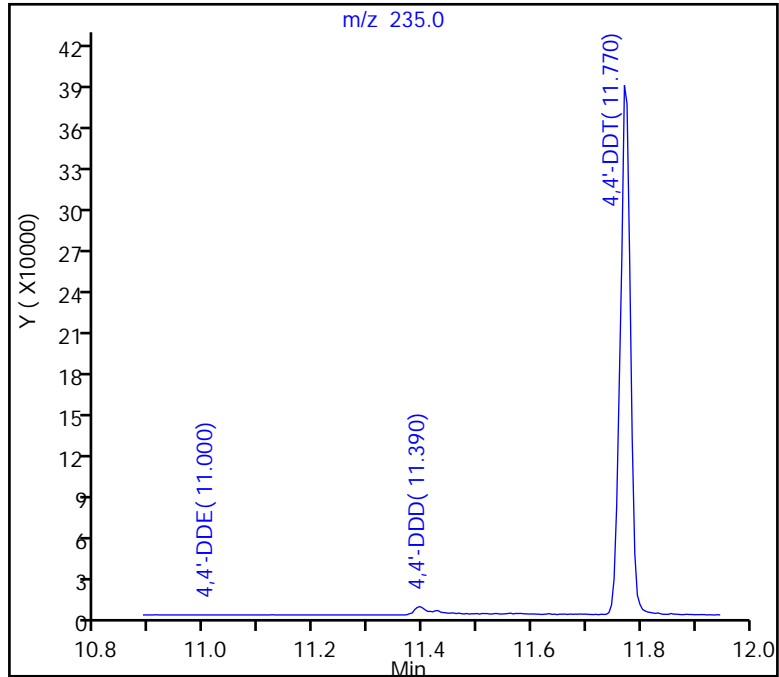
149 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

149 4,4'-DDT, Area = 509361
147 4,4'-DDD, Area = 15289
146 4,4'-DDE, Area = 1970

%Breakdown: 3.28%, Max Limit: 20.00%
Passed



TestAmerica Chicago

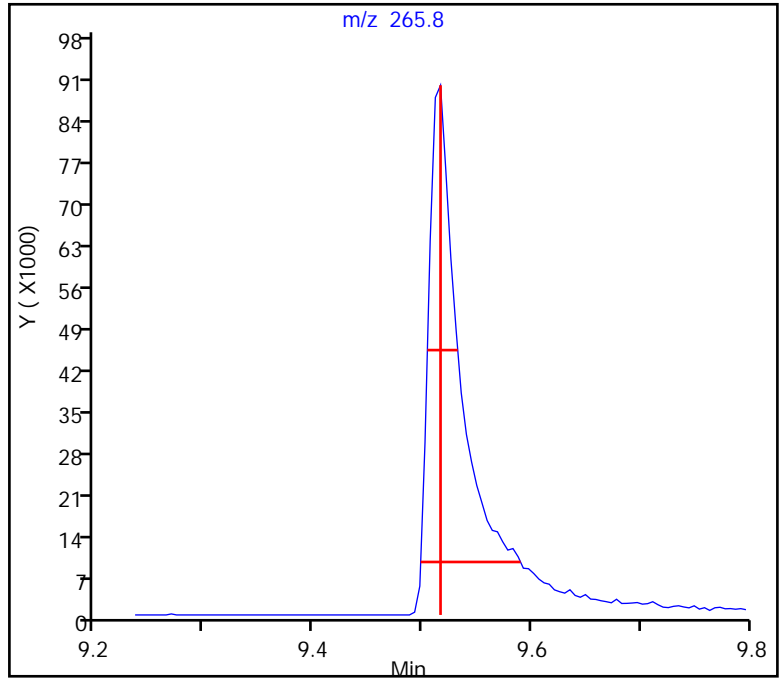
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D
Injection Date: 05-Sep-2018 08:50:30 Instrument ID: CMS11
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

127 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.073 (min.)
Front Width = 0.018 (min.)

Tailing Factor = * 4.0, Max. Tailing < 2.00
Failed



TestAmerica Chicago

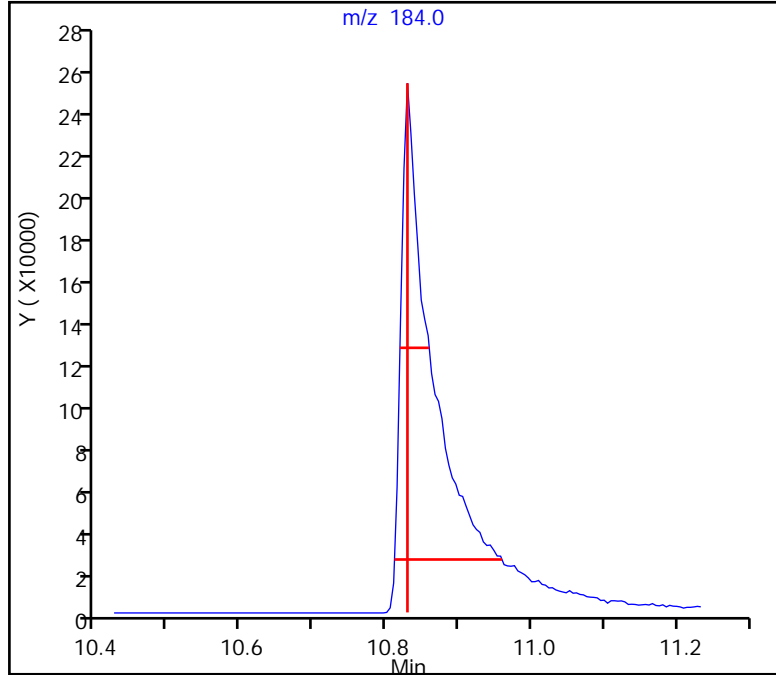
Data File: \\ChromNA\Chicago\ChromData\CMS11\20180905-54839.b\11D0905.D
Injection Date: 05-Sep-2018 08:50:30 Instrument ID: CMS11
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 11-LVI8270 Limit Group: MSBNA_8270D_ICAL

143 Benzidine, Detector: MS SCAN

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

Back Width = 0.130 (min.)
Front Width = 0.018 (min.)

Tailing Factor = * 7.3, Max. Tailing < 2.00
Failed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 22-Aug-2018 19:01:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: 500-0054563-012
 Operator ID: ges Instrument ID: CMS24
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 23-Aug-2018 09:11:02 Calib Date: 22-Aug-2018 23:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\IC ppm70.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: swaneyg Date: 22-Aug-2018 20:19:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
17 Pentachlorophenol	266	9.863	9.863	0.000	92	325078	NR	NR	
177 Benzidine	184	11.287	11.287	0.000	97	1733714	NR	NR	
176 DFTPP									
15 4,4'-DDE	246	11.511	11.511	0.000	87	2135		NR	
169 4,4'-DDD	235	11.949	11.949	0.000	95	13436		NR	
40 4,4'-DDT	235	12.387	12.387	0.000	97	928182	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

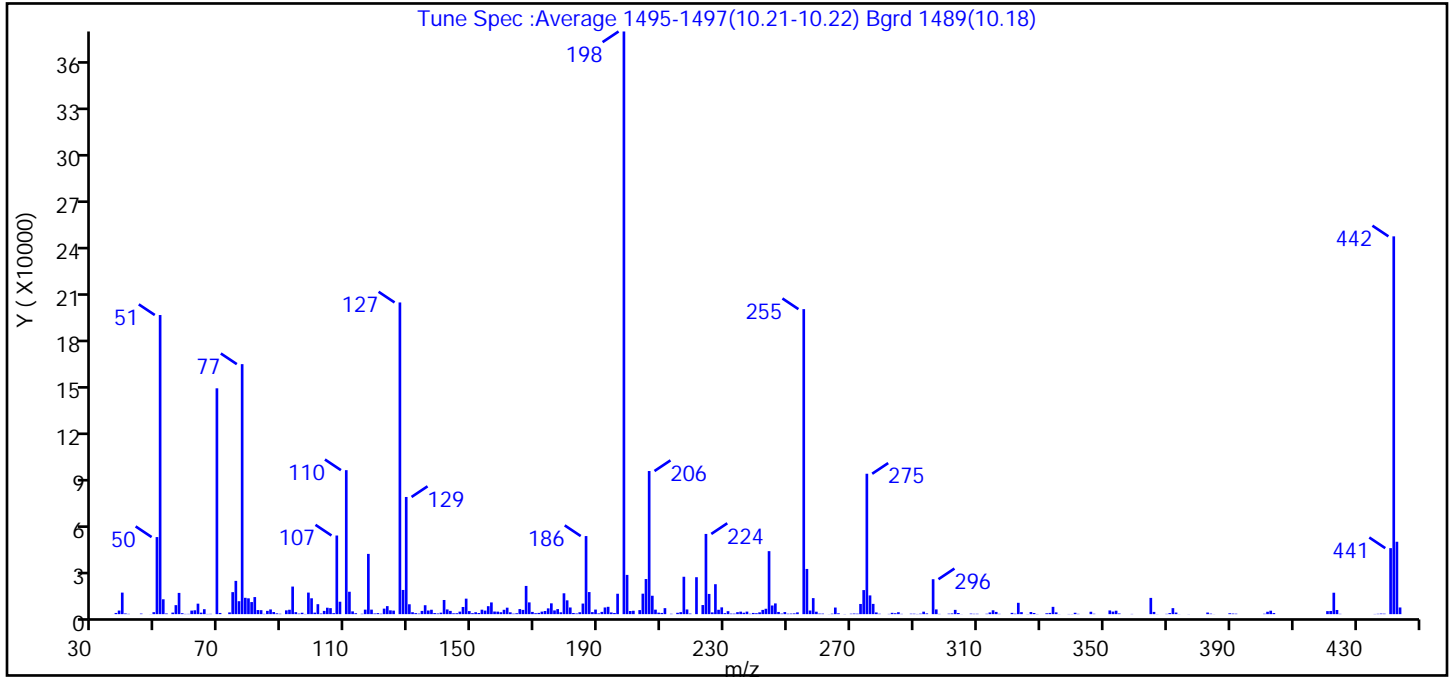
Reagents:

HIVOL_DFTPPWK_00124 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d
 Injection Date: 22-Aug-2018 19:01:30 Instrument ID: CMS24
 Lims ID: dftpp
 Client ID:
 Operator ID: ges ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Tune Method: DFTPP Method 8270D, BP 198

176 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (154.2)
51	10-80% of the base peak	51.3
68	<2% of mass 69	0.0 (0.0)
69	Present	38.8
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	53.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	24.1
365	>1% of mass 198	2.8
441	present but <24% of mass 442	11.3 (17.5)
442	base peak, or >50% of 198	64.8
443	15-24% of mass 442	12.4 (19.2)

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d\24-LVI8270.rslt\spectra.d
 Injection Date: 22-Aug-2018 19:01:30
 Spectrum: Tune Spec :Average 1495-1497(10.21-10.22) Bgrd 1489(10.18)
 Base Peak: 198.00
 Minimum % Base Peak: 0
 Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	18	124.00	2443	203.00	2586	291.00	124
37.00	760	125.00	2254	204.00	13126	292.00	311
38.00	2304	127.00	199808	205.00	22512	293.00	1581
39.00	13808	128.00	15504	206.00	91744	294.00	465
40.00	443	129.00	75112	207.00	11796	296.00	22392
41.00	185	130.00	6338	208.00	2885	297.00	3034
45.00	359	131.00	1234	209.00	954	298.00	155
48.00	54	132.00	650	210.00	784	301.00	302
49.00	1253	133.00	343	211.00	3845	302.00	444
50.00	49400	134.00	2076	213.00	235	303.00	2745
51.00	191744	135.00	5716	215.00	873	304.00	729
52.00	9533	136.00	2332	216.00	1272	305.00	55
53.00	421	137.00	2825	217.00	23968	308.00	341
55.00	985	138.00	694	218.00	3009	309.00	206
56.00	5768	139.00	440	219.00	369	310.00	229
57.00	13617	140.00	943	221.00	23680	313.00	247
58.00	602	141.00	9076	223.00	5834	314.00	1087
59.00	146	142.00	3019	224.00	51416	315.00	2482
60.00	174	143.00	2084	225.00	12950	316.00	1431
61.00	2274	144.00	544	226.00	1120	317.00	193
62.00	2476	145.00	587	227.00	19192	321.00	819
63.00	6721	146.00	1614	228.00	2807	322.00	289
64.00	952	147.00	4587	229.00	4355	323.00	7266
65.00	3173	148.00	9934	230.00	634	324.00	1283
66.00	133	149.00	1954	231.00	1903	326.00	85
67.00	199	150.00	633	232.00	345	327.00	1365
69.00	144768	151.00	1218	233.00	330	328.00	738
70.00	757	152.00	714	234.00	1264	329.00	107
73.00	1117	153.00	2855	235.00	1602	332.00	562
74.00	14107	154.00	2271	236.00	910	333.00	791
75.00	21328	155.00	5105	237.00	1619	334.00	4674
76.00	8305	156.00	7514	238.00	242	335.00	1134
77.00	160256	157.00	1672	239.00	779	336.00	62

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d\24-LVI8270.rslt\spectra.d

Injection Date: 22-Aug-2018 19:01:30

Spectrum: Tune Spec :Average 1495-1497(10.21-10.22) Bgrd 1489(10.18)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	10470	158.00	1610	240.00	596	339.00	112
79.00	10141	159.00	1224	241.00	1160	340.00	79
80.00	7748	160.00	2797	242.00	2722	341.00	879
81.00	10942	161.00	4146	243.00	3443	342.00	196
82.00	2621	162.00	1181	244.00	40384	346.00	1533
83.00	2545	163.00	313	245.00	5546	347.00	258
84.00	191	164.00	583	246.00	6875	352.00	2365
85.00	2103	165.00	3255	247.00	1409	353.00	1638
86.00	3023	166.00	2730	248.00	351	354.00	2201
87.00	1360	167.00	18080	249.00	1333	355.00	424
88.00	513	168.00	7539	250.00	284	359.00	140
89.00	252	169.00	1428	251.00	380	365.00	10414
91.00	2424	170.00	600	252.00	479	366.00	1437
92.00	2821	171.00	800	253.00	1134	367.00	60
93.00	17680	172.00	1620	255.00	195520	370.00	190
94.00	1271	173.00	2004	256.00	28976	371.00	686
95.00	338	174.00	3701	257.00	2322	372.00	3847
96.00	898	175.00	6933	258.00	10276	373.00	1014
97.00	123	176.00	2378	259.00	1565	374.00	58
98.00	13819	177.00	3236	260.00	350	377.00	60
99.00	10171	178.00	1187	261.00	340	383.00	1035
100.00	963	179.00	13363	263.00	57	384.00	318
101.00	6385	180.00	8853	264.00	303	385.00	51
102.00	397	181.00	4272	265.00	4228	390.00	565
103.00	2088	182.00	737	266.00	532	391.00	368
104.00	4117	183.00	433	268.00	100	392.00	286
105.00	3843	184.00	1220	270.00	277	401.00	268
106.00	636	185.00	6785	271.00	397	402.00	1530
107.00	50408	186.00	50056	272.00	308	403.00	2205
108.00	7958	187.00	14156	273.00	6525	404.00	699
110.00	92296	188.00	1301	274.00	15414	421.00	1931
111.00	14358	189.00	2942	275.00	90000	422.00	2027
112.00	1777	190.00	477	276.00	12010	423.00	13734
113.00	593	191.00	1449	277.00	6573	424.00	2659

Report Date: 23-Aug-2018 09:11:03

Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d\24-LVI8270.rslt\spectra.d

Injection Date: 22-Aug-2018 19:01:30

Spectrum: Tune Spec :Average 1495-1497(10.21-10.22) Bgrd 1489(10.18)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	243	192.00	4280	278.00	1088	425.00	192
116.00	2890	193.00	4706	279.00	249	436.00	120
117.00	38624	194.00	1093	282.00	155	437.00	219
118.00	2890	195.00	735	283.00	852	438.00	360
119.00	422	196.00	13079	284.00	578	439.00	293
120.00	662	198.00	373504	285.00	1234	441.00	42304
121.00	278	199.00	25160	286.00	177	442.00	242176
122.00	3536	200.00	2018	289.00	279	443.00	46408
123.00	5142	201.00	2176	290.00	274	444.00	4283

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d

Injection Date: 22-Aug-2018 19:01:30

Instrument ID: CMS24

Operator ID: ges

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

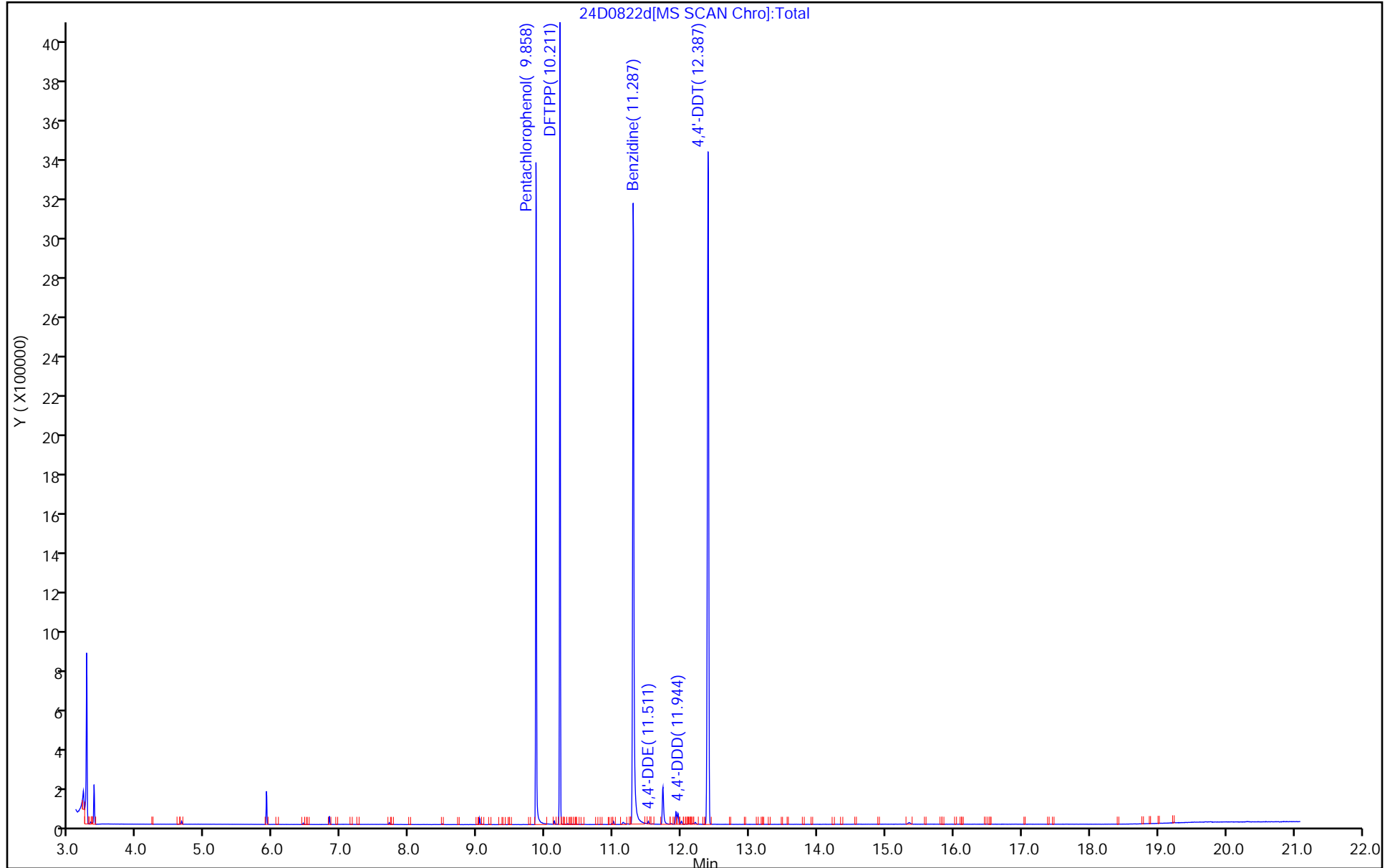
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d
Injection Date: 22-Aug-2018 19:01:30 Instrument ID: CMS24
Lims ID: dftpp
Client ID:
Operator ID: ges ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

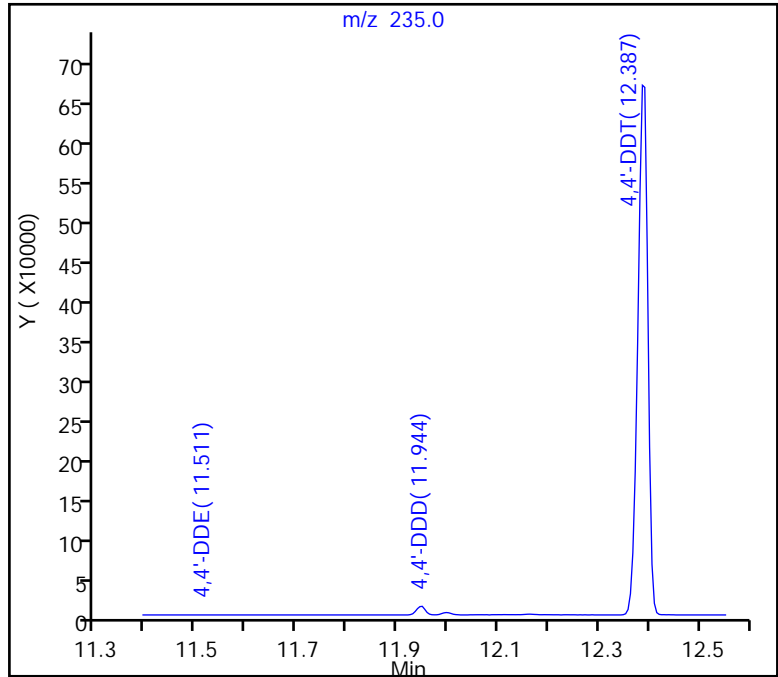
40 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

40 4,4'-DDT, Area = 928182
169 4,4'-DDD, Area = 13436
15 4,4'-DDE, Area = 2135

%Breakdown: 1.65%, Max Limit: 20.00%
Passed



TestAmerica Chicago

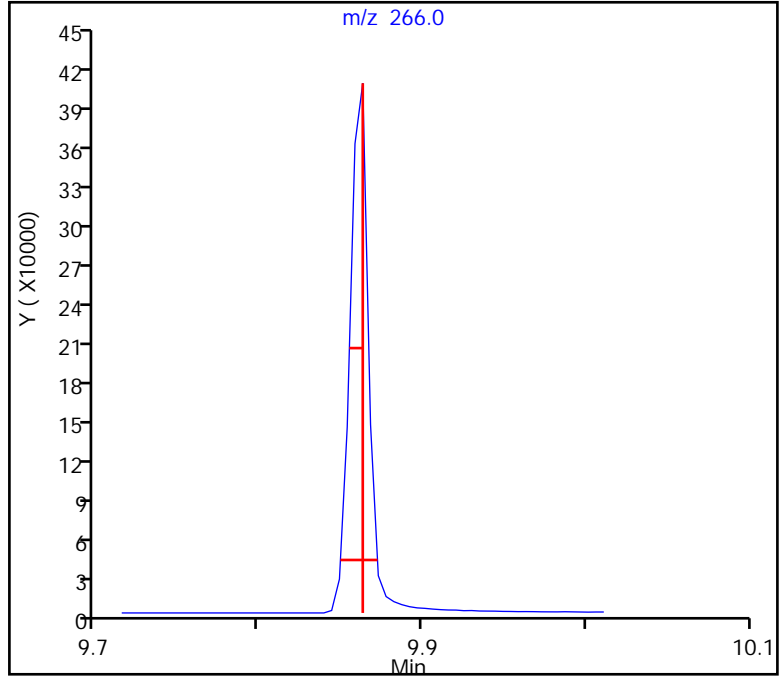
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d
Injection Date: 22-Aug-2018 19:01:30 Instrument ID: CMS24
Lims ID: dftpp
Client ID:
Operator ID: ges ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

17 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.009 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



TestAmerica Chicago

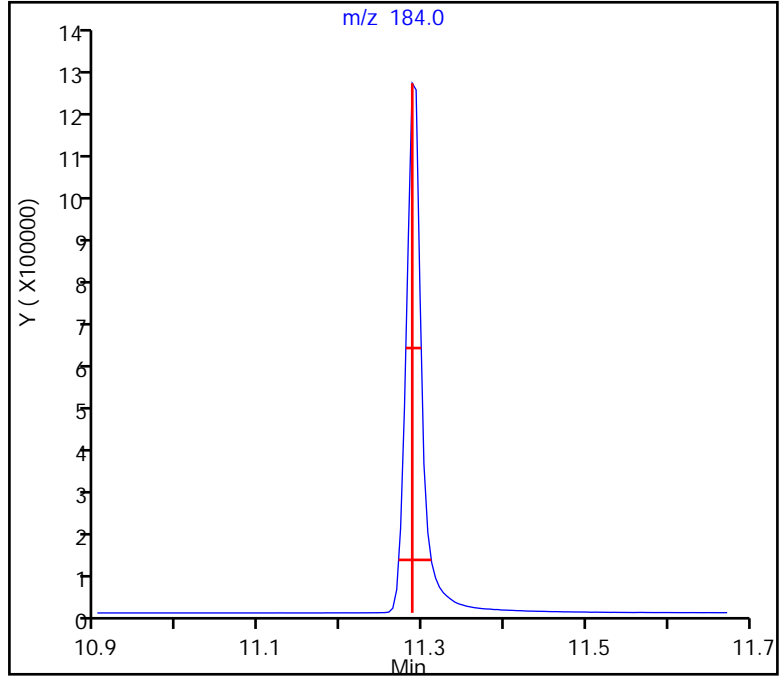
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180822-54569.b\24D0822d.d
Injection Date: 22-Aug-2018 19:01:30 Instrument ID: CMS24
Lims ID: dftpp
Client ID:
Operator ID: ges ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

177 Benzidine, Detector: MS SCAN

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

Back Width = 0.023 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 04-Sep-2018 15:01:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: 500-0054822-001
 Operator ID: sw Instrument ID: CMS24
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 11:31:36 Calib Date: 28-Aug-2018 15:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180828-54685.b\24C0828a.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: diaza Date: 04-Sep-2018 15:57:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
17 Pentachlorophenol	266	9.697	9.697	0.000	96	216448	NR	NR	
177 Benzidine	184	11.054	11.054	0.000	97	1041714	NR	NR	
176 DFTPP									
15 4,4'-DDE	246	11.249	11.249	0.000	87	4524		NR	
169 4,4'-DDD	235	11.658	11.658	0.000	94	27885		NR	a
40 4,4'-DDT	235	12.063	12.063	0.000	97	623984	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

HIVOL_DFTPPWK_00124 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d

Injection Date: 04-Sep-2018 15:01:30

Instrument ID: CMS24

Lims ID: dftpp

Client ID:

Operator ID: sw

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 ul

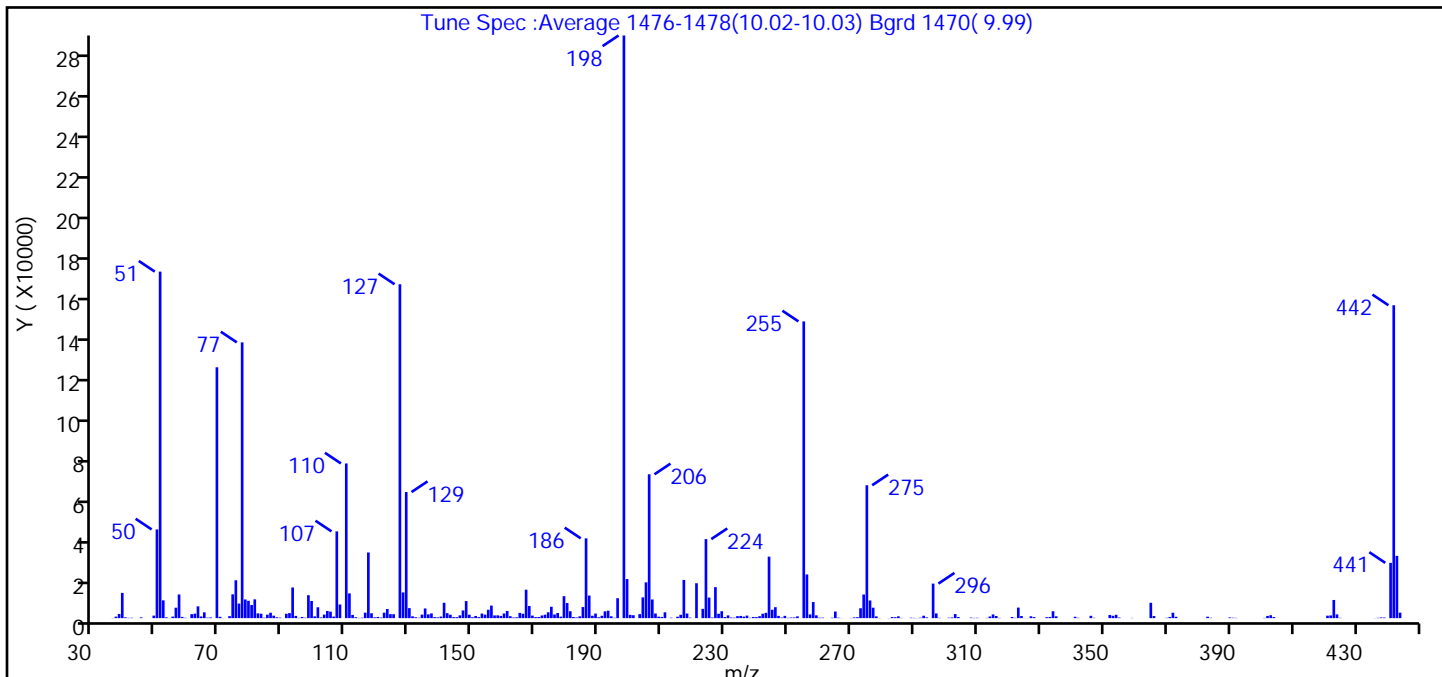
Dil. Factor: 1.0000

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Tune Method: DFTPP Method 8270D, BP 198

176 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (186.2)
51	10-80% of the base peak	59.5
68	<2% of mass 69	0.0 (0.0)
69	Present	43.1
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	57.3
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	22.8
365	>1% of mass 198	2.6
441	present but <24% of mass 442	9.5 (17.7)
442	base peak, or >50% of 198	53.7
443	15-24% of mass 442	10.7 (19.9)

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d\24-LVI8270.rslt\spectra.d
Injection Date: 04-Sep-2018 15:01:30
Spectrum: Tune Spec :Average 1476-1478(10.02-10.03) Bgrd 1470(9.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	76	119.00	396	195.00	188	283.00	531
37.00	745	120.00	595	196.00	9812	284.00	459
38.00	2028	121.00	287	198.00	286144	285.00	890
39.00	12407	122.00	2704	199.00	19192	286.00	129
40.00	394	123.00	4479	200.00	1614	289.00	223
41.00	144	124.00	1973	201.00	1429	290.00	127
42.00	185	125.00	1927	203.00	1977	291.00	78
44.00	15	127.00	163968	204.00	10208	292.00	212
45.00	389	128.00	12631	205.00	17576	293.00	1182
49.00	1239	129.00	61928	206.00	70648	294.00	367
50.00	43568	130.00	4921	207.00	9167	296.00	16960
51.00	170176	131.00	899	208.00	2273	297.00	2309
52.00	8736	132.00	437	209.00	725	298.00	141
53.00	385	133.00	197	210.00	598	301.00	222
54.00	56	134.00	1730	211.00	2882	302.00	335
55.00	756	135.00	4750	213.00	226	303.00	2004
56.00	5125	136.00	1861	215.00	705	304.00	546
57.00	11624	137.00	2322	216.00	1649	308.00	257
58.00	618	138.00	502	217.00	18768	309.00	134
59.00	157	139.00	390	218.00	2277	310.00	176
60.00	26	140.00	776	219.00	251	313.00	125
61.00	1955	141.00	7548	221.00	17144	314.00	807
62.00	2206	142.00	2435	223.00	4569	315.00	1817
63.00	5790	143.00	1685	224.00	38816	316.00	1041
64.00	806	144.00	511	225.00	10101	317.00	142
65.00	2841	145.00	488	226.00	298	321.00	573
66.00	222	146.00	1371	227.00	15239	322.00	151
67.00	347	147.00	3782	228.00	2149	323.00	5179
69.00	123200	148.00	8386	229.00	3404	324.00	1032
70.00	660	149.00	1675	230.00	564	325.00	53
71.00	57	150.00	460	231.00	1349	326.00	53
73.00	975	151.00	1082	232.00	297	327.00	914
74.00	11700	152.00	503	233.00	228	328.00	520

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d\24-LVI8270.rslt\spectra.d

Injection Date: 04-Sep-2018 15:01:30

Spectrum: Tune Spec :Average 1476-1478(10.02-10.03) Bgrd 1470(9.99)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	18600	153.00	2249	234.00	998	332.00	466
76.00	7152	154.00	1728	235.00	1094	333.00	596
77.00	135424	155.00	4124	236.00	748	334.00	3390
78.00	9169	156.00	6168	237.00	1250	335.00	898
79.00	8526	157.00	1340	238.00	167	341.00	680
80.00	6476	158.00	1377	239.00	579	342.00	166
81.00	9240	159.00	1092	240.00	516	346.00	1145
82.00	2330	160.00	2280	241.00	951	347.00	177
83.00	2178	161.00	3503	242.00	2166	352.00	1570
84.00	219	162.00	946	243.00	2613	353.00	1145
85.00	1704	163.00	302	244.00	30200	354.00	1649
86.00	2653	164.00	417	245.00	4131	355.00	296
87.00	1216	165.00	2573	246.00	5377	359.00	111
88.00	421	166.00	2165	247.00	1104	365.00	7544
89.00	246	167.00	13966	248.00	287	366.00	1034
91.00	2148	168.00	5971	249.00	1119	370.00	168
92.00	2477	169.00	1254	250.00	162	371.00	522
93.00	15055	170.00	521	251.00	303	372.00	2662
94.00	1099	171.00	577	252.00	334	373.00	672
95.00	129	172.00	1311	253.00	879	383.00	705
96.00	576	173.00	1693	255.00	145728	384.00	173
97.00	202	174.00	2867	256.00	21456	390.00	338
98.00	11276	175.00	5583	257.00	1825	391.00	201
99.00	8445	176.00	1808	258.00	7913	392.00	135
100.00	858	177.00	2528	259.00	1375	401.00	132
101.00	5347	178.00	736	260.00	235	402.00	1088
102.00	342	179.00	10801	261.00	235	403.00	1426
103.00	1739	180.00	7420	264.00	212	404.00	525
104.00	3502	181.00	3383	265.00	3247	421.00	1219
105.00	3203	182.00	573	266.00	220	422.00	1334
106.00	777	183.00	332	267.00	50	423.00	8927
107.00	42616	184.00	888	270.00	104	424.00	1832
108.00	6712	185.00	5447	271.00	357	425.00	156
110.00	75968	186.00	39192	272.00	455	436.00	61

Report Date: 05-Sep-2018 11:31:39

Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d\24-LVI8270.rslt\spectra.d

Injection Date: 04-Sep-2018 15:01:30

Spectrum: Tune Spec :Average 1476-1478(10.02-10.03) Bgrd 1470(9.99)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	12147	187.00	11092	273.00	4867	437.00	164
112.00	1582	188.00	1182	274.00	11605	438.00	341
113.00	458	189.00	2257	275.00	65264	439.00	297
114.00	122	190.00	418	276.00	8685	441.00	27160
115.00	214	191.00	1162	277.00	5127	442.00	153664
116.00	2693	192.00	3345	278.00	859	443.00	30584
117.00	32248	193.00	3633	279.00	76	444.00	2708
118.00	2389	194.00	890	282.00	66		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d

Injection Date: 04-Sep-2018 15:01:30

Instrument ID: CMS24

Operator ID: sw

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

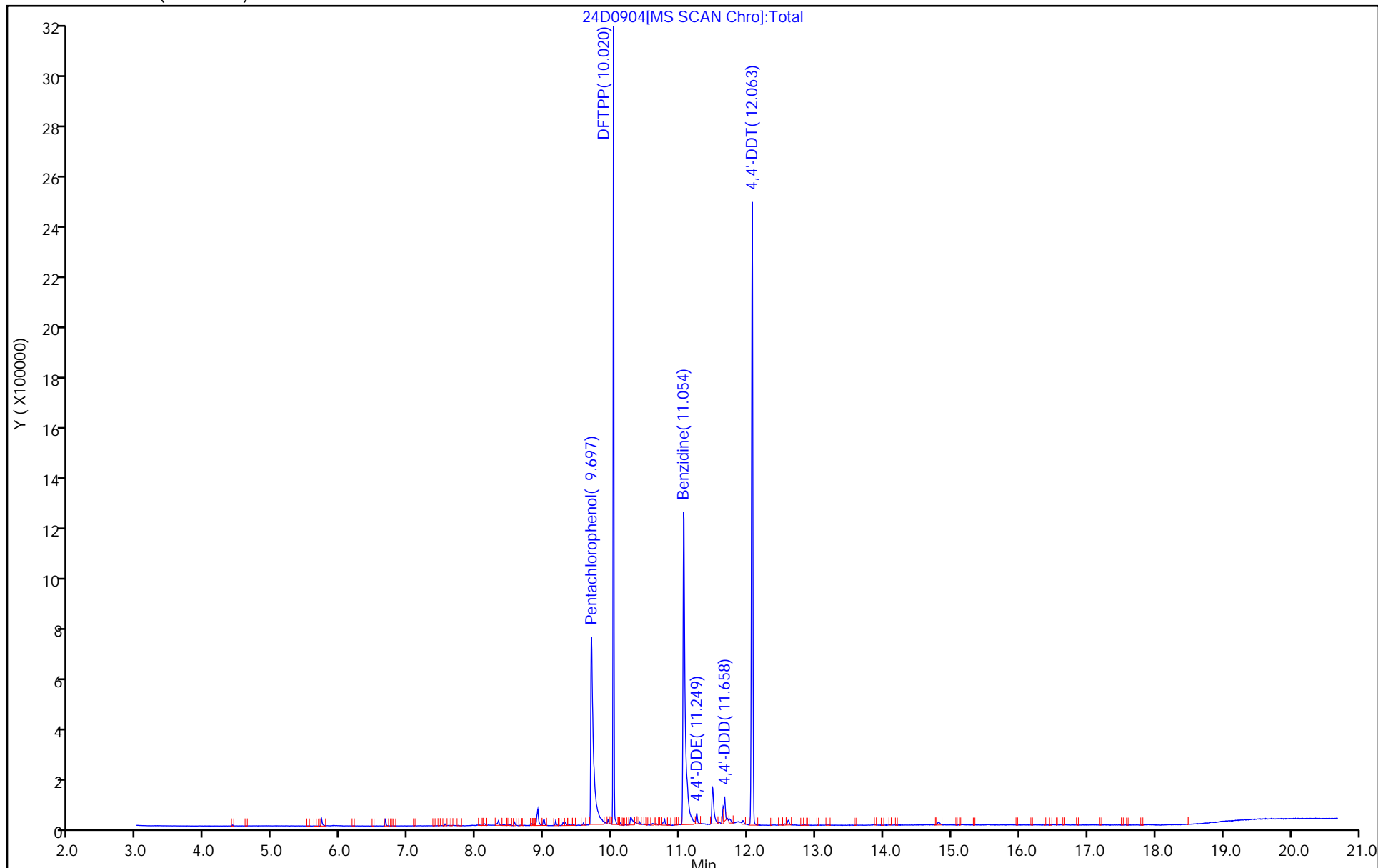
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d
Injection Date: 04-Sep-2018 15:01:30 Instrument ID: CMS24
Lims ID: dftpp
Client ID:
Operator ID: sw ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

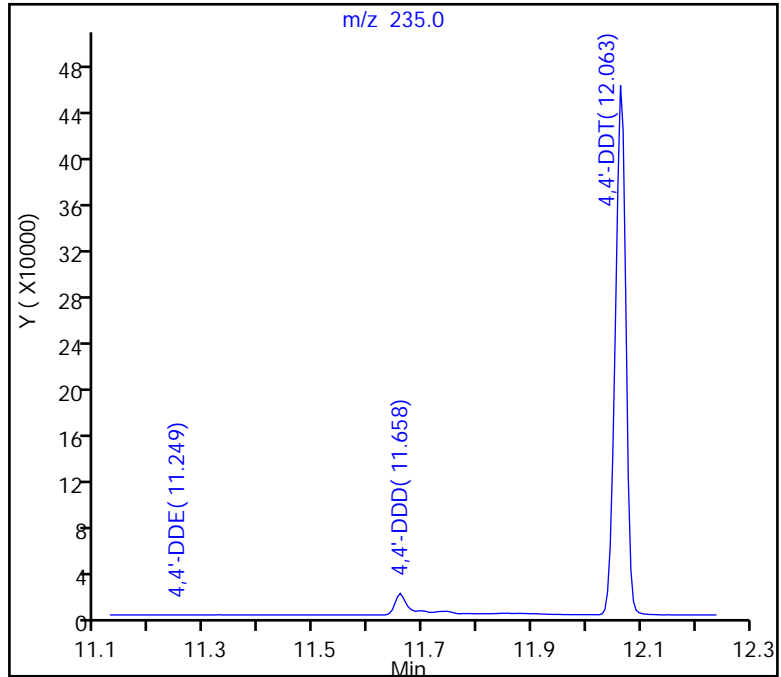
40 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

40 4,4'-DDT, Area = 623984
169 4,4'-DDD, Area = 27885
15 4,4'-DDE, Area = 4524

%Breakdown: 4.94%, Max Limit: 20.00%
Passed



TestAmerica Chicago

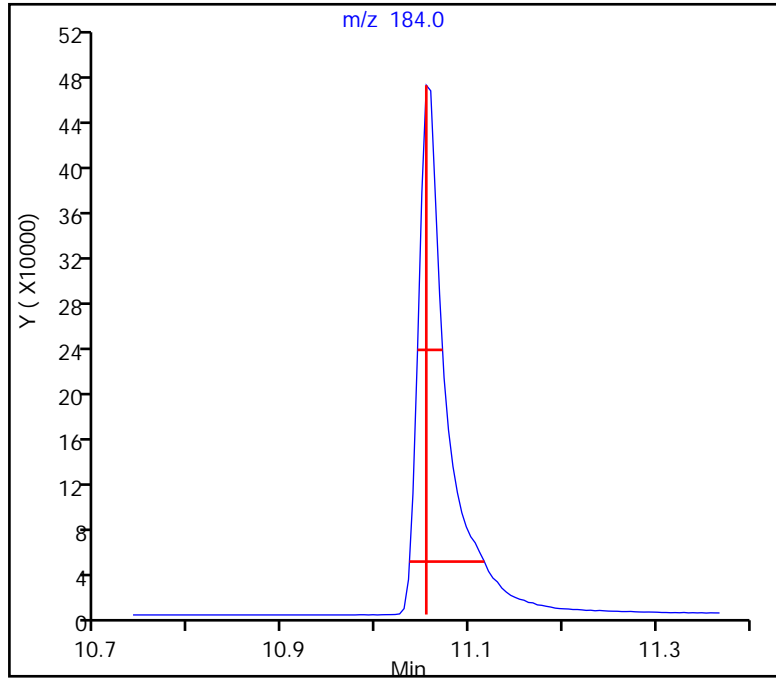
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d
Injection Date: 04-Sep-2018 15:01:30 Instrument ID: CMS24
Lims ID: dftpp
Client ID:
Operator ID: sw ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

177 Benzidine, Detector: MS SCAN

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

Back Width = 0.062 (min.)
Front Width = 0.018 (min.)

Tailing Factor = * 3.4, Max. Tailing < 2.00
Failed



TestAmerica Chicago

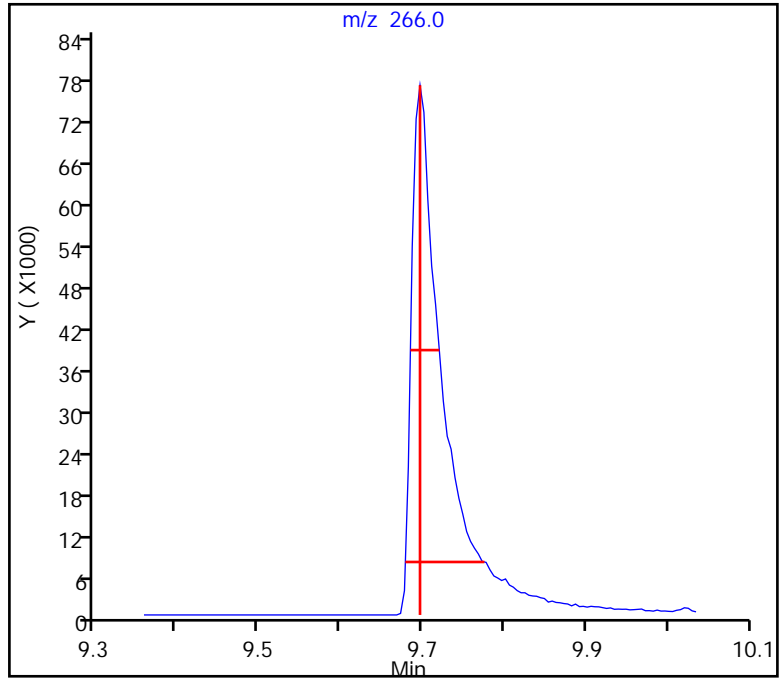
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24D0904.d
Injection Date: 04-Sep-2018 15:01:30 Instrument ID: CMS24
Lims ID: dftpp
Client ID:
Operator ID: sw ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL

17 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.079 (min.)
Front Width = 0.018 (min.)

Tailing Factor = * 4.4, Max. Tailing < 2.00
Failed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-448191/1-A
 Matrix: Solid Lab File ID: MB 500-448191.d
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3541 Date Extracted: 09/04/2018 08:10
 Sample wt/vol: 15.0000 (g) Date Analyzed: 09/04/2018 17:19
 Con. Extract Vol.: 2.5 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448285 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	<6.0		33	6.0
208-96-8	Acenaphthylene	<4.4		33	4.4
120-12-7	Anthracene	<5.6		33	5.6
56-55-3	Benzo[a]anthracene	<4.5		33	4.5
50-32-8	Benzo[a]pyrene	<6.4		33	6.4
205-99-2	Benzo[b]fluoranthene	<7.2		33	7.2
191-24-2	Benzo[g,h,i]perylene	<11		33	11
207-08-9	Benzo[k]fluoranthene	<9.8		33	9.8
218-01-9	Chrysene	<9.1		33	9.1
53-70-3	Dibenz(a,h)anthracene	<6.4		33	6.4
206-44-0	Fluoranthene	<6.2		33	6.2
86-73-7	Fluorene	<4.7		33	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	<8.6		33	8.6
91-20-3	Naphthalene	<5.1		33	5.1
85-01-8	Phenanthrene	<4.6		33	4.6
129-00-0	Pyrene	<6.6		33	6.6
90-12-0	1-Methylnaphthalene	<8.1		67	8.1
91-57-6	2-Methylnaphthalene	<6.1		67	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	99		41-120
1718-51-0	Terphenyl-d14 (Surr)	98		35-160
321-60-8	2-Fluorobiphenyl (Surr)	102		44-121

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\MB 500-448191.d
 Lims ID: MB 500-448191/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Sep-2018 17:19:30 ALS Bottle#: 4 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: MB 500-448191/1-A
 Misc. Info.: 500-0054822-006
 Operator ID: sw Instrument ID: CMS24
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:33:38 Calib Date: 28-Aug-2018 15:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180828-54685.b\24C0828a.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg Date: 04-Sep-2018 19:33:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.054	6.030	0.024	96	157219	3.20	3.20	
* 1 Naphthalene-d8	136	7.097	7.087	0.010	99	690927	3.20	3.20	
* 4 Acenaphthene-d10	164	8.573	8.563	0.010	97	331207	3.20	3.20	
* 5 Phenanthrene-d10	188	9.825	9.820	0.005	98	618511	3.20	3.20	
* 6 Chrysene-d12	240	12.830	12.835	-0.005	98	530093	3.20	3.20	
* 2 Perylene-d12	264	16.030	16.035	-0.005	96	524016	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.039	4.978	0.081	95	558575	10.0	11.2	
\$ 7 Phenol-d5	99	5.758	5.757	0.023	98	684612	10.0	11.4	
\$ 9 Nitrobenzene-d5	82	6.497	6.491	0.009	93	559581	10.0	9.88	
\$ 11 2-Fluorobiphenyl	172	7.987	7.982	0.005	99	1307270	10.0	10.2	
\$ 8 2,4,6-Tribromophenol	330	9.249	9.235	0.014	83	140453	10.0	8.47	
\$ 10 Terphenyl-d14	244	11.311	11.331	0.005	99	1405801	10.0	9.82	

Reagents:

SM_HIVOLISTD_00215 Amount Added: 10.00 Units: uL Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\MB 500-448191.d

Injection Date: 04-Sep-2018 17:19:30

Instrument ID: CMS24

Operator ID: sw

Lims ID: MB 500-448191/1-A

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

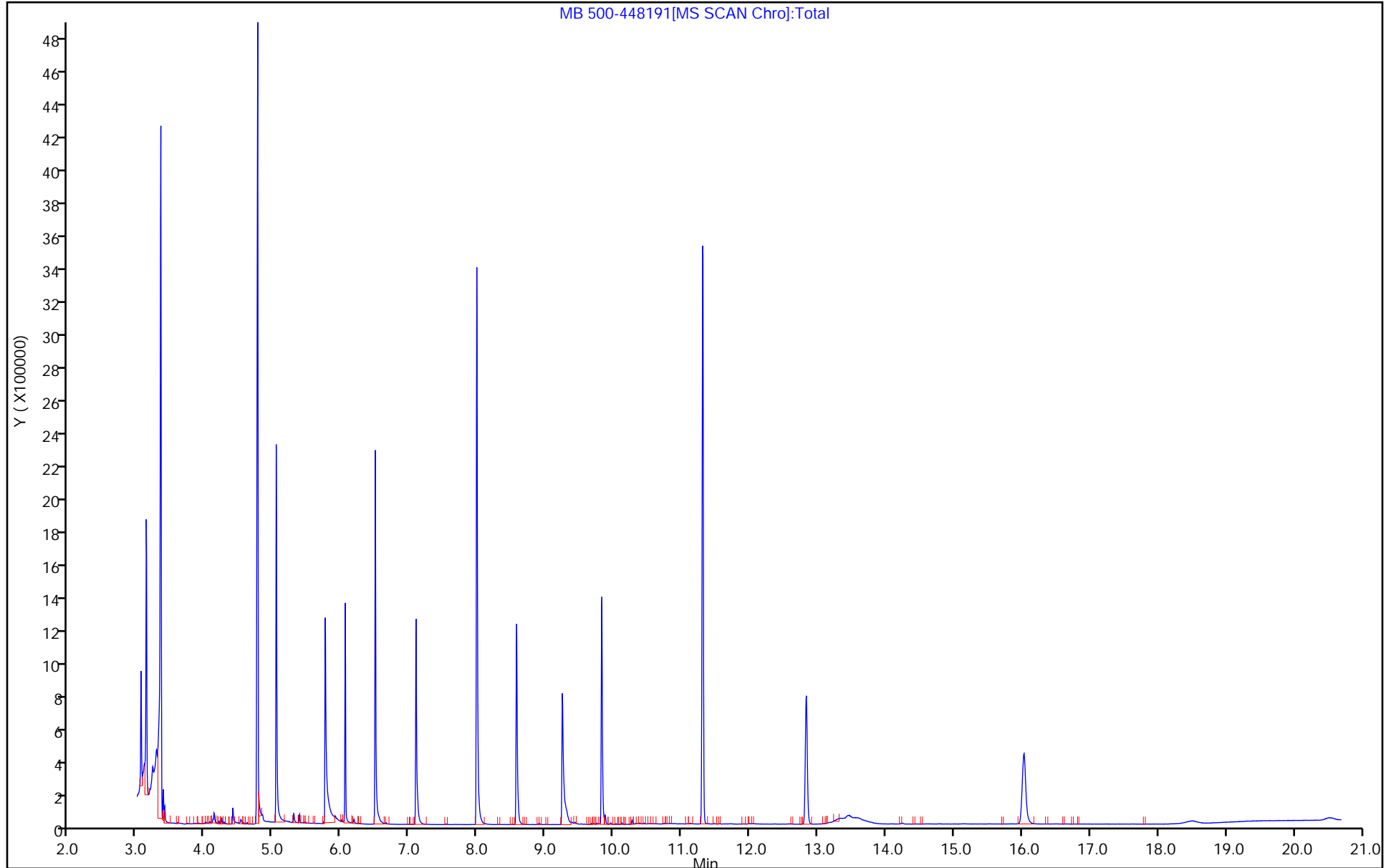
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\MB 500-448191.d
 Lims ID: MB 500-448191/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Sep-2018 17:19:30 ALS Bottle#: 4 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: MB 500-448191/1-A
 Misc. Info.: 500-0054822-006
 Operator ID: sw Instrument ID: CMS24
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:33:38 Calib Date: 28-Aug-2018 15:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180828-54685.b\24C0828a.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:33:38

Compound	Amount Added	Amount Recovered	% Rec.
\$ 12 2-Fluorophenol	10.0	11.2	111.79
\$ 7 Phenol-d5	10.0	11.4	113.84
\$ 9 Nitrobenzene-d5	10.0	9.88	98.84
\$ 11 2-Fluorobiphenyl	10.0	10.2	102.14
\$ 8 2,4,6-Tribromophenol	10.0	8.47	84.71
\$ 10 Terphenyl-d14	10.0	9.82	98.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448191/2-A
 Matrix: Solid Lab File ID: LCS 500-448191.d
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3541 Date Extracted: 09/04/2018 08:10
 Sample wt/vol: 15.0000 (g) Date Analyzed: 09/04/2018 16:27
 Con. Extract Vol.: 2.5 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448285 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	1120		33	6.0
208-96-8	Acenaphthylene	1080		33	4.4
120-12-7	Anthracene	1120		33	5.6
56-55-3	Benzo[a]anthracene	1140		33	4.5
50-32-8	Benzo[a]pyrene	1180		33	6.4
205-99-2	Benzo[b]fluoranthene	1150		33	7.2
191-24-2	Benzo[g,h,i]perylene	1180		33	11
207-08-9	Benzo[k]fluoranthene	1180		33	9.8
218-01-9	Chrysene	1090		33	9.1
53-70-3	Dibenz(a,h)anthracene	1230		33	6.4
206-44-0	Fluoranthene	1140		33	6.2
86-73-7	Fluorene	1090		33	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	1230		33	8.6
91-20-3	Naphthalene	1090		33	5.1
85-01-8	Phenanthrene	1110		33	4.6
129-00-0	Pyrene	1100		33	6.6
90-12-0	1-Methylnaphthalene	1080		67	8.1
91-57-6	2-Methylnaphthalene	1080		67	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	87		41-120
1718-51-0	Terphenyl-d14 (Surr)	80		35-160
321-60-8	2-Fluorobiphenyl (Surr)	91		44-121

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\LCS 500-448191.d
 Lims ID: LCS 500-448191/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Sep-2018 16:27:30 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 500-448191/2-A
 Misc. Info.: 500-0054822-004
 Operator ID: sw Instrument ID: CMS24
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:23:54 Calib Date: 28-Aug-2018 15:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180828-54685.b\24C0828a.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:23:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1,4-Dichlorobenzene-d4	152	6.058	6.030	0.028	95	176499	3.20	3.20	
* 1 Naphthalene-d8	136	7.096	7.087	0.009	99	677923	3.20	3.20	
* 4 Acenaphthene-d10	164	8.563	8.563	0.000	97	303208	3.20	3.20	
* 5 Phenanthrene-d10	188	9.820	9.820	0.000	98	540064	3.20	3.20	
* 6 Chrysene-d12	240	12.830	12.835	-0.005	98	495547	3.20	3.20	
* 2 Perylene-d12	264	16.030	16.035	-0.005	95	503761	3.20	3.20	
\$ 12 2-Fluorophenol	112	5.044	4.978	0.086	94	558744	10.0	9.96	
\$ 7 Phenol-d5	99	5.768	5.757	0.033	99	632414	10.0	9.37	
\$ 9 Nitrobenzene-d5	82	6.501	6.491	0.014	93	483771	10.0	8.71	
\$ 11 2-Fluorobiphenyl	172	7.982	7.982	0.000	100	1067981	10.0	9.11	
\$ 8 2,4,6-Tribromophenol	330	9.235	9.235	0.000	83	119968	10.0	7.90	
\$ 10 Terphenyl-d14	244	11.306	11.331	0.000	99	1065262	10.0	7.96	
28 1,4-Dioxane	88	3.615	3.615	0.347	84	51901	8.00	2.22	a
111 N-Nitrosodimethylamine	42	3.887	3.639	0.262	74	307206	8.00	6.87	
73 Pyridine	79	3.930	3.930	0.267	73	409583	16.0	6.59	a
105 Phenol	94	5.777	5.772	0.028	94	566335	8.00	7.28	
70 Aniline	93	5.792	5.781	0.034	98	580569	8.00	6.19	
121 Bis(2-chloroethyl)ether	93	5.825	5.819	0.028	89	430229	8.00	6.94	
24 2-Chlorophenol	128	5.901	5.891	0.033	98	506657	8.00	6.76	
114 n-Decane	43	5.915	5.910	0.028	90	480405	8.00	5.53	
109 1,3-Dichlorobenzene	146	6.015	6.011	0.028	99	521587	8.00	6.33	
68 1,4-Dichlorobenzene	146	6.073	6.068	0.029	95	524089	8.00	6.38	
76 Benzyl alcohol	108	6.163	6.168	0.019	92	259880	8.00	6.81	
115 1,2-Dichlorobenzene	146	6.196	6.197	0.023	98	504664	8.00	6.53	
133 2,2'-oxybis[1-chloropropan	45	6.258	6.264	0.019	91	776905	8.00	6.47	
143 2-Methylphenol	107	6.254	6.264	0.015	91	358375	8.00	7.07	
102 Indene	116	6.268	6.268	0.019	90	1482681	16.0	16.1	a
144 N-Nitrosodi-n-propylamine	70	6.368	6.383	0.010	82	262948	8.00	7.04	
127 Acetophenone	105	6.373	6.383	0.015	93	524123	8.00	6.19	
86 3 & 4 Methylphenol	108	6.373	6.388	0.010	94	406267	8.00	6.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Hexachloroethane	117	6.473	6.479	0.019	93	197305	8.00	6.57	
126 Nitrobenzene	77	6.515	6.506	0.014	95	408952	8.00	6.76	
107 Isophorone	82	6.706	6.706	0.005	97	662147	8.00	6.24	
58 2-Nitrophenol	139	6.777	6.772	0.009	94	258212	8.00	6.27	
62 2,4-Dimethylphenol	122	6.801	6.801	0.004	93	390055	8.00	6.42	
67 Bis(2-chloroethoxy)methane	93	6.863	6.863	0.005	90	470081	8.00	6.58	
152 Benzoic acid	122	6.920	6.963	-0.038	91	149198	16.0	4.10	
39 2,4-Dichlorophenol	162	6.982	6.982	0.005	93	370304	8.00	6.58	
92 1,2,4-Trichlorobenzene	180	7.044	7.044	0.005	95	412629	8.00	6.48	
132 Naphthalene	128	7.115	7.111	0.009	99	1276843	8.00	6.55	
47 4-Chloroaniline	127	7.149	7.149	0.005	96	502873	8.00	6.15	
81 2,6-Dichlorophenol	162	7.163	7.163	0.005	95	349491	8.00	6.55	
77 Hexachlorobutadiene	225	7.211	7.211	0.005	97	204268	8.00	6.43	
159 4-Chloro-3-methylphenol	107	7.563	7.559	0.009	91	358289	8.00	6.64	
45 Caprolactam	113	7.468	7.620	-0.148	78	111009	8.00	5.70	
135 2-Methylnaphthalene	142	7.687	7.687	0.005	95	901959	8.00	6.47	
36 1-Methylnaphthalene	142	7.768	7.768	0.000	95	848211	8.00	6.49	a
19 Hexachlorocyclopentadiene	237	7.820	7.820	0.000	97	94567	8.00	3.17	
48 1,2,4,5-Tetrachlorobenzene	216	7.830	7.830	0.000	97	362634	8.00	6.32	
94 2,4,6-Trichlorophenol	196	7.925	7.925	0.000	94	238729	8.00	6.38	
95 2,4,5-Trichlorophenol	196	7.977	7.973	0.004	93	264479	8.00	6.84	
146 1,1'-Biphenyl	154	8.068	8.068	0.000	95	964856	8.00	6.46	
122 2-Chloronaphthalene	162	8.096	8.096	-0.001	97	718428	8.00	6.50	
31 2-Nitroaniline	65	8.177	8.182	-0.005	84	276302	8.00	6.99	
118 Dimethyl phthalate	163	8.311	8.311	0.000	99	854857	8.00	6.70	
49 1,3-Dinitrobenzene	168	8.354	8.358	-0.004	85	151426	8.00	6.58	
91 2,6-Dinitrotoluene	165	8.368	8.373	-0.005	90	204550	8.00	6.77	
75 Acenaphthylene	152	8.449	8.449	0.000	98	1103664	8.00	6.49	
42 3-Nitroaniline	138	8.525	8.530	-0.005	89	191344	8.00	5.54	
134 Acenaphthene	153	8.592	8.592	0.000	92	809091	8.00	6.70	
128 2,4-Dinitrophenol	184	8.635	8.625	0.010	77	60188	16.0	3.01	
130 4-Nitrophenol	109	8.696	8.715	-0.005	94	221342	16.0	13.6	
51 2,4-Dinitrotoluene	165	8.715	8.720	-0.005	92	270871	8.00	6.91	
13 Dibenzofuran	168	8.735	8.735	0.000	96	1021224	8.00	6.63	
170 2,3,4,6-Tetrachlorophenol	232	8.849	8.849	0.000	77	183634	8.00	5.81	
90 Diethyl phthalate	149	8.896	8.896	-0.001	98	887134	8.00	6.94	
186 Hexadecane	57	8.901	8.901	0.000	85	767201	8.00	7.21	
155 4-Chlorophenyl phenyl ethe	204	9.006	9.006	0.000	94	384428	8.00	6.41	
61 Fluorene	166	9.025	9.025	0.000	93	821964	8.00	6.56	
69 4-Nitroaniline	138	9.054	9.063	-0.009	77	220773	8.00	6.40	
46 4,6-Dinitro-2-methylphenol	198	9.077	9.082	-0.005	89	129254	16.0	6.07	
74 N-Nitrosodiphenylamine	169	9.106	9.111	-0.005	98	581835	8.00	6.82	
124 1,2-Diphenylhydrazine	77	9.144	9.144	0.000	94	780922	8.00	6.94	
34 4-Bromophenyl phenyl ether	248	9.420	9.420	0.000	74	221202	8.00	6.32	
149 Hexachlorobenzene	284	9.501	9.506	-0.005	94	233310	8.00	6.42	
17 Pentachlorophenol	266	9.673	9.673	0.000	77	206211	16.0	7.89	
137 n-Octadecane	43	9.673	9.673	0.000	90	581959	8.00	8.03	
52 Atrazine	200	9.549	9.739	-0.190	81	189003	8.00	5.72	
37 Phenanthrene	178	9.839	9.844	-0.005	97	1196369	8.00	6.64	
125 Anthracene	178	9.882	9.887	-0.005	98	1216139	8.00	6.70	
80 Carbazole	167	10.015	10.016	-0.001	96	1081039	8.00	7.67	
162 Di-n-butyl phthalate	149	10.263	10.263	0.000	100	1541684	8.00	7.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Fluoranthene	202	10.916	10.920	-0.004	98	1398126	8.00	6.87	
177 Benzidine	184	11.044	11.069	0.000	97	130321	8.00	1.25	
148 Pyrene	202	11.163	11.193	-0.005	95	1362008	8.00	6.63	
163 Butyl benzyl phthalate	149	11.901	11.933	-0.005	97	760959	8.00	6.96	
110 3,3'-Dichlorobenzidine	252	12.758	12.792	-0.005	99	391548	8.00	5.37	
101 Bis(2-ethylhexyl) phthalat	149	12.811	12.839	0.000	97	1057128	8.00	7.30	
14 Benzo[a]anthracene	228	12.811	12.839	0.000	99	1340551	8.00	6.85	
23 Chrysene	228	12.877	12.911	-0.005	97	1101621	8.00	6.55	
79 Di-n-octyl phthalate	149	14.125	14.192	0.000	75	1862815	8.00	7.17	
145 Benzo[b]fluoranthene	252	15.025	15.101	-0.005	98	1270590	8.00	6.90	
55 Benzo[k]fluoranthene	252	15.097	15.178	-0.009	97	1216817	8.00	7.08	
84 Benzo[a]pyrene	252	15.877	15.963	-0.010	92	1209270	8.00	7.07	
96 Indeno[1,2,3-cd]pyrene	276	19.220	19.326	-0.015	96	1431504	8.00	7.38	
59 Dibenz(a,h)anthracene	278	19.273	19.374	-0.009	94	1131586	8.00	7.40	
53 Benzo[g,h,i]perylene	276	19.792	19.895	-0.009	98	1116830	8.00	7.07	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM_HIVOLISTD_00215

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\LCS 500-448191.d

Injection Date: 04-Sep-2018 16:27:30

Instrument ID: CMS24

Operator ID: sw

Lims ID: LCS 500-448191/2-A

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

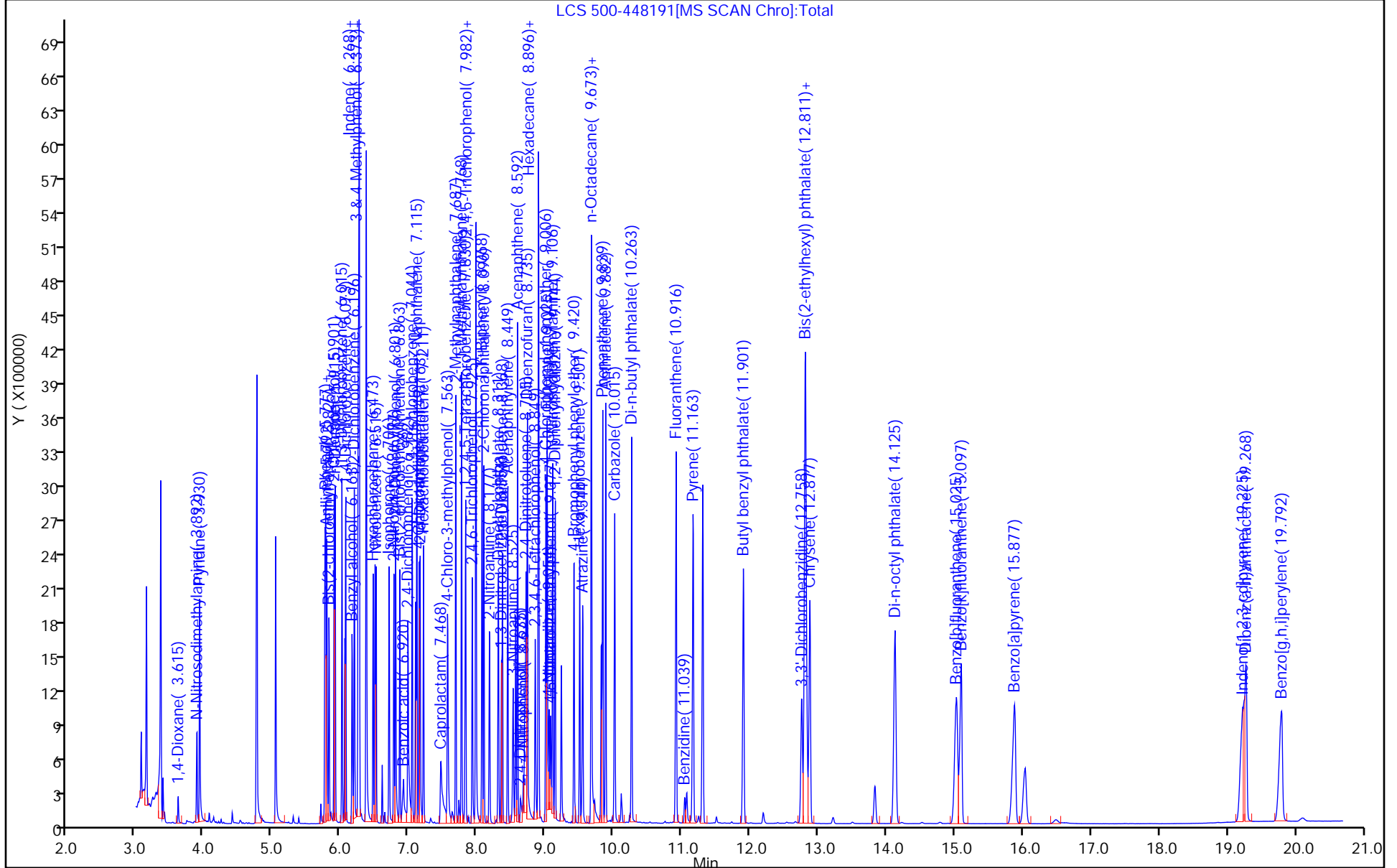
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 24-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: Rxi-5ms (0.50 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\LCS 500-448191.d
 Lims ID: LCS 500-448191/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Sep-2018 16:27:30 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 500-448191/2-A
 Misc. Info.: 500-0054822-004
 Operator ID: sw Instrument ID: CMS24
 Method: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\24-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 04-Sep-2018 19:23:54 Calib Date: 28-Aug-2018 15:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS24\20180828-54685.b\24C0828a.d
 Column 1 : Rxi-5ms (0.50 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: swaneyg

Date: 04-Sep-2018 19:23:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 12 2-Fluorophenol	10.0	9.96	99.61
\$ 7 Phenol-d5	10.0	9.37	93.67
\$ 9 Nitrobenzene-d5	10.0	8.71	87.08
\$ 11 2-Fluorobiphenyl	10.0	9.11	91.15
\$ 8 2,4,6-Tribromophenol	10.0	7.90	79.04
\$ 10 Terphenyl-d14	10.0	7.96	79.64

TestAmerica Chicago

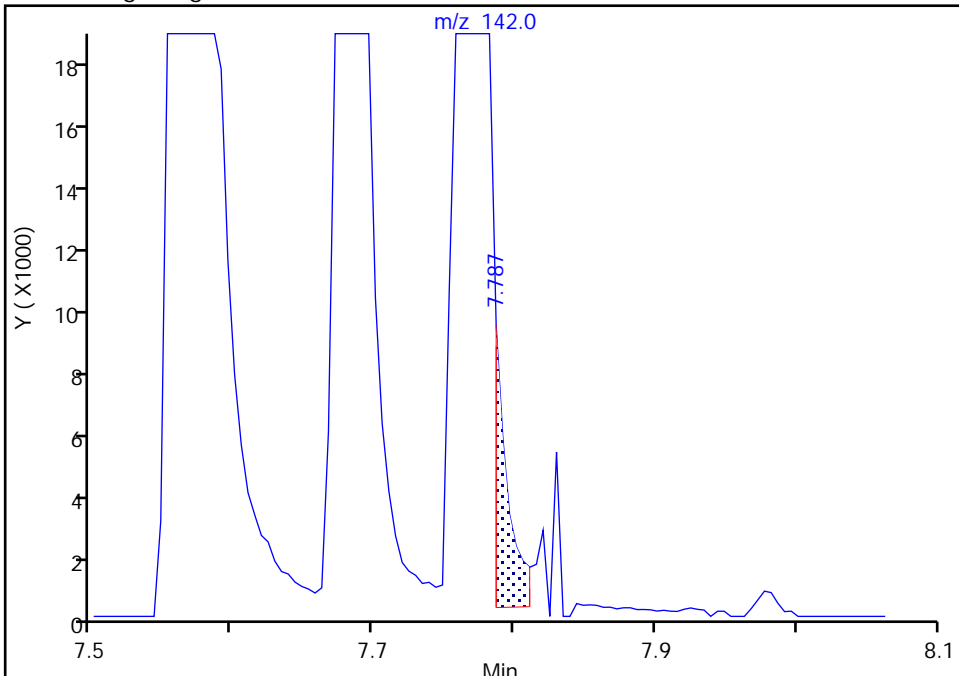
Data File: \\ChromNA\Chicago\ChromData\CMS24\20180904-54822.b\LCS 500-448191.d
Injection Date: 04-Sep-2018 16:27:30 Instrument ID: CMS24
Lims ID: LCS 500-448191/2-A
Client ID:
Operator ID: sw ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 24-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: Rxi-5ms (0.50 mm) Detector: MS SCAN

36 1-Methylnaphthalene, CAS: 90-12-0

Signal: 1

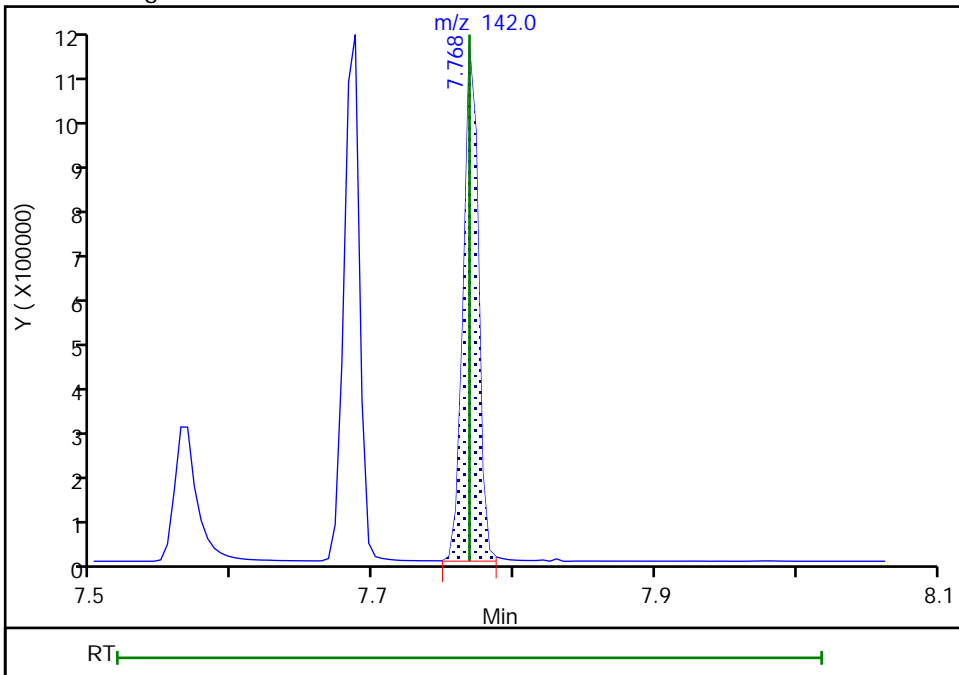
RT: 7.79
Area: 6378
Amount: 0.048812
Amount Units: ug/ml

Processing Integration Results



RT: 7.77
Area: 848211
Amount: 6.491483
Amount Units: ug/ml

Manual Integration Results



Reviewer: swaneyg, 04-Sep-2018 19:21:25
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS11 Start Date: 08/21/2018 14:30

Analysis Batch Number: 446389 End Date: 08/21/2018 20:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-446389/1		08/21/2018 14:30	1	11D0821c.D	ZB5MS 0.25 (mm)
IC 500-446389/2		08/21/2018 15:07	1	ic ppm2.D	ZB5MS 0.25 (mm)
IC 500-446389/3		08/21/2018 15:36	1	ic ppm02.D	ZB5MS 0.25 (mm)
IC 500-446389/4		08/21/2018 16:06	1	ic ppm05.D	ZB5MS 0.25 (mm)
IC 500-446389/5		08/21/2018 16:35	1	ic ppm1.D	ZB5MS 0.25 (mm)
IC 500-446389/6		08/21/2018 17:04	1	ic ppm5.D	ZB5MS 0.25 (mm)
IC 500-446389/7		08/21/2018 17:34	1	ic ppm10.D	ZB5MS 0.25 (mm)
IC 500-446389/8		08/21/2018 18:03	1	ic ppm20.D	ZB5MS 0.25 (mm)
ICIS 500-446389/9		08/21/2018 18:32	1	ic ppm40.D	ZB5MS 0.25 (mm)
ZZZZZ		08/21/2018 19:02	1		ZB5MS 0.25 (mm)
IC 500-446389/11		08/21/2018 19:31	1	ic ppm60.D	ZB5MS 0.25 (mm)
IC 500-446389/12		08/21/2018 20:00	1	ic ppm70.D	ZB5MS 0.25 (mm)
ICV 500-446389/13		08/21/2018 20:30	1	icv-list1.D	ZB5MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS24 Start Date: 08/22/2018 19:01Analysis Batch Number: 446627 End Date: 08/23/2018 00:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-446627/1		08/22/2018 19:01	1	24D0822d.d	Rxi-5ms 0.5 (mm)
IC 500-446627/3		08/22/2018 19:26	1	24c0822d.d	Rxi-5ms 0.5 (mm)
IC 500-446627/2		08/22/2018 19:52	1	IC ppm2.d	Rxi-5ms 0.5 (mm)
IC 500-446627/4		08/22/2018 20:17	1	IC ppm05.d	Rxi-5ms 0.5 (mm)
IC 500-446627/5		08/22/2018 20:43	1	IC ppm1.d	Rxi-5ms 0.5 (mm)
IC 500-446627/6		08/22/2018 21:09	1	IC ppm5.d	Rxi-5ms 0.5 (mm)
IC 500-446627/7		08/22/2018 21:35	1	IC ppm10.d	Rxi-5ms 0.5 (mm)
IC 500-446627/8		08/22/2018 22:00	1	IC ppm20.d	Rxi-5ms 0.5 (mm)
ICIS 500-446627/9		08/22/2018 22:26	1	ICIS.d	Rxi-5ms 0.5 (mm)
IC 500-446627/10		08/22/2018 22:52	1	IC ppm50.d	Rxi-5ms 0.5 (mm)
IC 500-446627/11		08/22/2018 23:18	1	IC ppm60.d	Rxi-5ms 0.5 (mm)
IC 500-446627/12		08/22/2018 23:43	1	IC ppm70.d	Rxi-5ms 0.5 (mm)
ICV 500-446627/13		08/23/2018 00:09	1	ICV.d	Rxi-5ms 0.5 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS24 Start Date: 09/04/2018 15:01

Analysis Batch Number: 448285 End Date: 09/05/2018 02:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-448285/1		09/04/2018 15:01	1	24D0904.d	Rxi-5ms 0.5 (mm)
CCVIS 500-448285/2		09/04/2018 15:26	1	24C0904.d	Rxi-5ms 0.5 (mm)
CCVL 500-448285/3		09/04/2018 16:01	1		Rxi-5ms 0.5 (mm)
LCS 500-448191/2-A		09/04/2018 16:27	1	LCS 500-448191.d	Rxi-5ms 0.5 (mm)
MB 500-448191/1-A		09/04/2018 17:19	1	MB 500-448191.d	Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 17:44	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 18:10	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 18:36	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 19:02	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 19:27	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 19:53	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 20:19	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 23:18	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/04/2018 23:43	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/05/2018 00:09	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/05/2018 01:25	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/05/2018 01:50	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/05/2018 02:16	1		Rxi-5ms 0.5 (mm)
ZZZZZ		09/05/2018 02:41	1		Rxi-5ms 0.5 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: CMS11 Start Date: 09/05/2018 08:50

Analysis Batch Number: 448389 End Date: 09/05/2018 11:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-448389/1		09/05/2018 08:50	1	11D0905.D	ZB5MS 0.25 (mm)
CCVIS 500-448389/2		09/05/2018 09:18	1	11c0905.D	ZB5MS 0.25 (mm)
CCV 500-448389/4		09/05/2018 09:46	1		ZB5MS 0.25 (mm)
500-150867-4		09/05/2018 10:43	1	500-150867-A-4-A.D	ZB5MS 0.25 (mm)
CCV 500-448389/21		09/05/2018 11:11	1		ZB5MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448191 Batch Start Date: 09/04/18 08:10 Batch Analyst: Corona, Dayamara XBatch Method: 3541 Batch End Date: 09/04/18 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Position	EXBNAL1SPW 00224	EXBNASURTS 00053	
MB 500-448191/1		3541, 8270D		15.0000 g	2.5 mL	25		250 uL	
LCS 500-448191/2		3541, 8270D		15.0000 g	2.5 mL	26	500 uL	250 uL	
500-150867-A-4	Total Solids	3541, 8270D	T	15.0638 g	2.5 mL	47		250 uL	

Batch Notes	
Balance ID	C-1951
Blank Matrix ID	4908352
Analyst ID - Concentration	JD
Corrected Temperature	136.2,135.1,136.6,134.0 Degrees C
Concentration 1 Corrected Temperature	30.0 Degrees C
Equipment ID - Concentration 1	C-0655
Analyst ID - Extraction	JD
Extraction 1 End Time	09/04/2018 10:30
Extraction 1 Start Time	09/04/2018 08:15
Glass Wool ID	4634864
Na2SO4 ID	4908352
Pipette/Syringe/Dispenser ID	A99, A101
Prep Solvent ID	DCM:ACETONE 4901111
Soxtherm Unit ID	C-2290, C-2291,C-2292,C-2293
Analyst ID - Spike Analyst	JD
Analyst ID - Spike Witness Analyst	DC
Sufficient Volume for Batch QC	Y
Thermometer ID - Concentration 1	VEEGEE 4
Thermometer ID	C-2241,C-2484
Uncorrected Temperature	136.2,135.1,136.6,134.0 Degrees C
Concentration 1 Uncorrected Temperature	30.0 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.

Method 8082A

Polychlorinated Biphenyls (PCBs)
(GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	DCBP1 #
Total Solids	500-150867-4	91	104
	MB 500-448233/1-A	82	113
	LCS 500-448233/2-A	85	104

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC LIMITS
49-129
37-121

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 083118_083.D
 Lab ID: LCS 500-448233/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	167	171	103	57-120	
PCB-1260	167	173	104	61-125	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: MB 500-448233/1-A
 Matrix: Solid Date Extracted: 09/04/2018 11:14
 Lab File ID: (1) 083118_082.D Lab File ID: (2) _____
 Date Analyzed: (1) 09/05/2018 10:15 Date Analyzed: (2) _____
 Instrument ID: (1) INST47-48 Instrument ID: (2) _____
 GC Column: (1) ZB-5 ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 500-448233/2-A	09/05/2018 10:30	
Total Solids	500-150867-4	09/05/2018 10:45	

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: ICIS 500-445590/3 Date Analyzed: 08/16/2018 09:33
 Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm)
 Lab File ID (Standard): 080818_166.D Heated Purge: (Y/N) N
 Calibration ID: 29704

	BNB					
	HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
INITIAL CALIBRATION MID-POINT	170921	1.14				
UPPER LIMIT	341842	1.64				
LOWER LIMIT	85461	0.64				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-445590/7		161246	1.14			
CCVIS 500-448400/1		236179	1.14			

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Sample No.: CCVIS 500-448400/1 Date Analyzed: 09/05/2018 09:59
 Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm)
 Lab File ID (Standard): 083118_081.D Heated Purge: (Y/N) N
 Calibration ID: 29720

	BNB					
	HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD	236179	1.14				
UPPER LIMIT	472358	1.64				
LOWER LIMIT	118090	0.64				
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 500-448233/1-A		189385	1.15			
LCS 500-448233/2-A		192198	1.15			
500-150867-4	Total Solids	194042	1.15			

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448233/2-A
 Instrument ID (1): INST47-48 Instrument ID (2): _____
 Date Analyzed (1): 09/05/2018 10:30 Date Analyzed (2): _____
 GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): _____ ID: _____

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.01	3.99	4.05	165	171	
		2	4.10	4.07	4.13	167		
		3	4.16	4.13	4.19	171		
		4	4.46	4.43	4.49	180		
		5	4.55	4.52	4.58	175		
PCB-1260	1	1	5.58	5.55	5.61	161	173	
		2	5.67	5.64	5.70	163		
		3	6.06	6.03	6.09	185		
		4	6.25	6.22	6.28	189		
		5	6.45	6.42	6.48	168		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: Total Solids Lab Sample ID: 500-150867-4
 Matrix: Solid Lab File ID: 083118_084.D
 Analysis Method: 8082A Date Collected: 08/31/2018 15:50
 Extraction Method: 3541 Date Extracted: 09/04/2018 11:14
 Sample wt/vol: 15.5640(g) Date Analyzed: 09/05/2018 10:45
 Con. Extract Vol.: 5.0(mL) Dilution Factor: 5
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 31.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448400 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
12674-11-2	PCB-1016	<41		120	41
11104-28-2	PCB-1221	<51		120	51
11141-16-5	PCB-1232	<51		120	51
53469-21-9	PCB-1242	<38		120	38
12672-29-6	PCB-1248	<46		120	46
11097-69-1	PCB-1254	<25		120	25
11096-82-5	PCB-1260	<57		120	57

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		49-129
2051-24-3	DCB Decachlorobiphenyl	104		37-121

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_084.D
 Lims ID: 500-150867-A-4-C
 Client ID: Total Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 10:45:52 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 5.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-004
 Operator ID: hamnerb Instrument ID: INST47-48
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 11:25:50 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 10:45:52
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 11:01:27
 Process Host: XAWRK007

First Level Reviewer: hamnerb Date: 05-Sep-2018 11:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.152	1.144	0.008	194042H	0.0200	
2	1.584	1.584	0.000	43222H	0.0200	
						RPD = 0.00

\$ 4 Tetrachloro-m-xylene

1	2.888	2.884	0.004	94608H	0.007302	
2	2.744	2.740	0.004	15625H	0.007314	
						RPD = 0.16

6 PCB-1221

1		3.100			ND	
1		3.196				
1		3.252				
2		3.088				
2		3.224				
2		3.284				

11 PCB-1232

1		3.264			ND	
1		3.644				
1		4.028				
1		4.568				
1		4.804				
2		3.292				
2		3.664				
2		4.032				
2		4.596				
2		4.816				

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_084.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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14 PCB-1242

1	3.644				ND	
1	3.804					
1	4.028					
1	4.112					
1	4.568					
2	3.664					
2	4.032					
2	4.144					
2	4.596					
2	4.816					

7 PCB-1248

1	4.008				ND	
1	4.540					
1	4.776					
1	4.904					
1	5.220					
2	4.024					
2	4.584					
2	4.800					
2	4.968					
2	5.264					

1 PCB-1016

1	4.016				ND	
1	4.096					
1	4.156					
1	4.456					
1	4.552					
2	3.644					
2	4.008					
2	4.120					
2	4.480					
2	4.572					

13 PCB-1254

1	4.784				ND	
1	4.952					
1	5.224					
1	5.408					
1	5.600					
2	4.800					
2	4.932					
2	5.260					
2	5.536					
2	5.656					

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_084.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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15 PCB-1260

1		5.580			ND	
1		5.672				
1		6.060				
1		6.248				
1		6.452				
2		5.388				
2		5.528				
2		5.640				
2		6.208				
2		6.460				

9 PCB-1262

1		5.920			ND	
1		6.084				
1		6.272				
1		6.572				
2		5.552				
2		5.672				
2		6.236				
2		6.488				

8 1260 Res 1

1		6.480			ND	
2		0.000				

2 1260 Res 2

1		6.536			ND	
2		0.000				

5 1260 Res 3

1		6.548			ND	
2		0.020				

16 PCB-1268

1		6.552			ND	
1		6.512				
1		6.748				
1		6.800				
1		6.884				
2		6.472				
2		6.504				
2		6.680				
2		6.748				
2		6.868				

\$ 10 DCB Decachlorobiphenyl

1	7.328	7.332	-0.004	160756H	0.008329	
2	7.248	7.248	0.000	29138H	0.007558	
						RPD = 9.70

S 12 Polychlorinated biphenyls, Total

1		0.000			ND	
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Reagents:

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_084.D

Injection Date: 05-Sep-2018 10:45:52

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: 500-150867-A-4-C

Lab Sample ID: 500-150867-4

Worklist Smp#: 4

Client ID: Total Solids

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

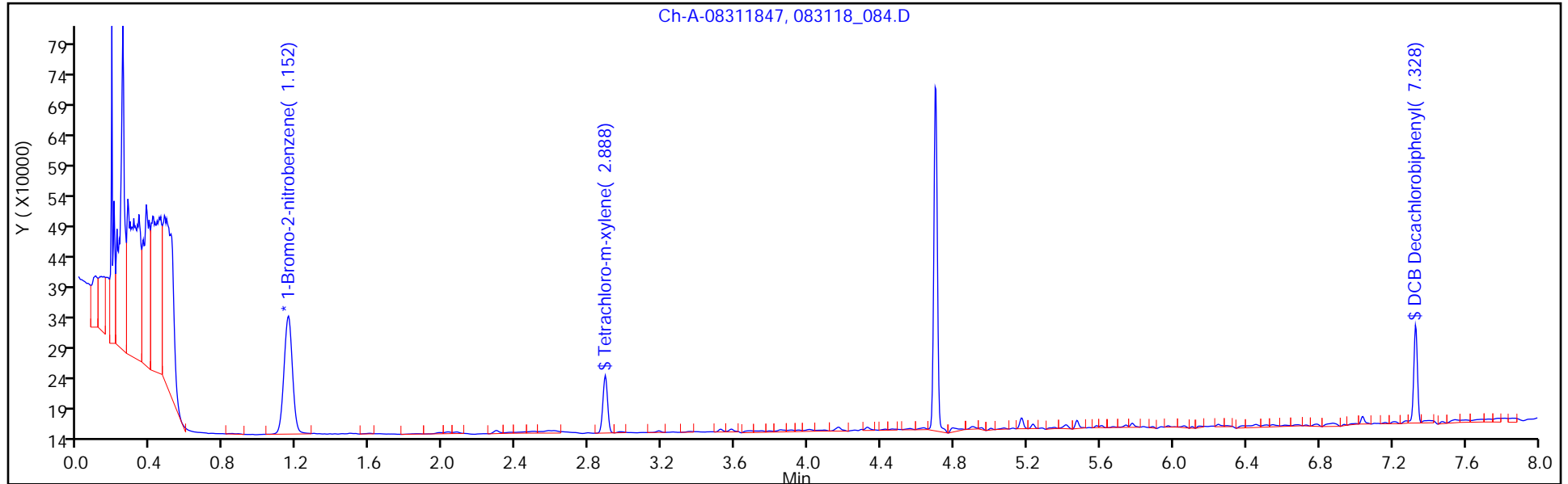
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

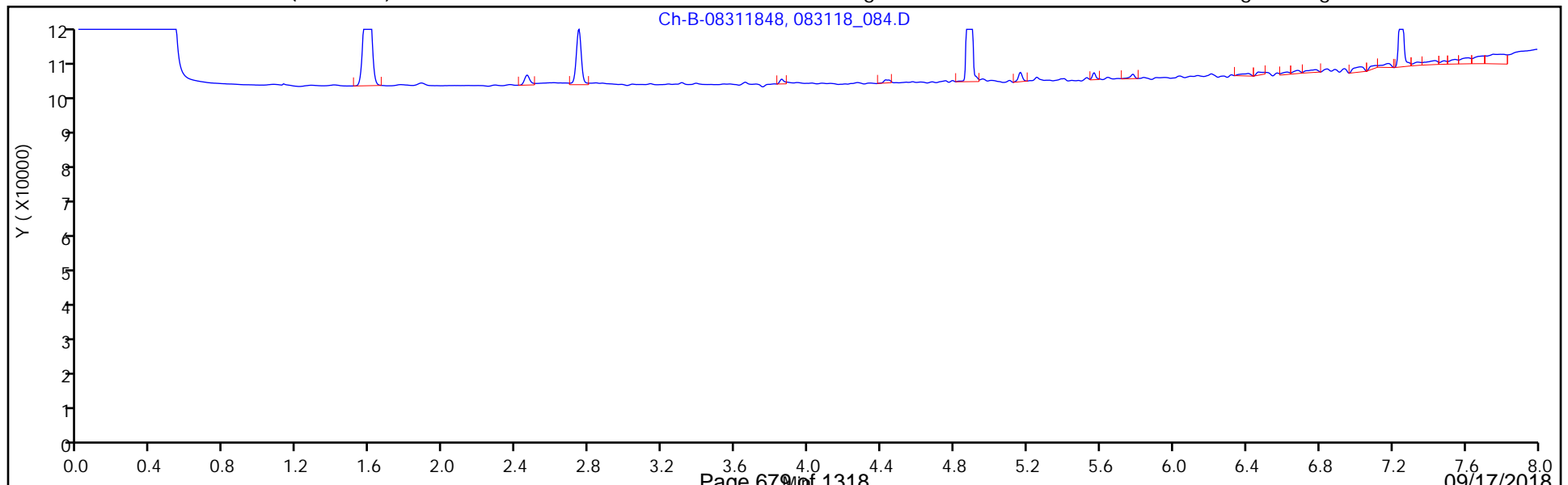
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_084.D
 Lims ID: 500-150867-A-4-C
 Client ID: Total Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 10:45:52 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 5.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-004
 Operator ID: hamnerb Instrument ID: INST47-48
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 11:25:50 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 10:45:52
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 11:01:27
 Process Host: XAWRK007

First Level Reviewer: hamnerb Date: 05-Sep-2018 11:25:50

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.007302	91.27
\$ 10 DCB Decachlorobiphenyl	0.0400	0.008329	104.11

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.007314	91.42
\$ 10 DCB Decachlorobiphenyl	0.0400	0.007558	94.48

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 09:03 Calibration End Date: 08/16/2018 10:20 Calibration ID: 29704

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/6	080818_169.D
Level 2	IC 500-445590/5	080818_168.D
Level 3	IC 500-445590/4	080818_167.D
Level 4	ICIS 500-445590/3	080818_166.D
Level 5	IC 500-445590/2	080818_165.D
Level 6	IC 500-445590/1	080818_164.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 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.1066 0.0833	0.0930	0.0945	0.0859	0.0825	Ave		0.0909			10.1		20.0				
PCB-1016 Peak 2	0.0504 0.0403	0.0489	0.0483	0.0429	0.0404	Ave		0.0452			10.0		20.0				
PCB-1016 Peak 3	0.0365 0.0290	0.0343	0.0357	0.0314	0.0291	Ave		0.0327			10.2		20.0				
PCB-1016 Peak 4	0.0398 0.0293	0.0370	0.0364	0.0315	0.0301	Ave		0.0340			12.6		20.0				
PCB-1016 Peak 5	0.0481 0.0341	0.0461	0.0430	0.0367	0.0350	Ave		0.0405			14.9		20.0				
PCB-1260 Peak 1	0.1117 0.0854	0.1042	0.0979	0.0865	0.0840	Ave		0.0950			12.1		20.0				
PCB-1260 Peak 2	0.0571 0.0438	0.0516	0.0508	0.0457	0.0435	Ave		0.0488			11.0		20.0				
PCB-1260 Peak 3	0.0760 0.0562	0.0712	0.0672	0.0578	0.0550	Ave		0.0639			13.7		20.0				
PCB-1260 Peak 4	0.1862 0.1502	0.1749	0.1662	0.1498	0.1475	Ave		0.1624			9.8		20.0				
PCB-1260 Peak 5	0.1017 0.0801	0.0939	0.0895	0.0806	0.0758	Ave		0.0869			11.3		20.0				
1260 Res 3	++++ ++++	0.0511	++++	++++	++++	Ave		0.0511					20.0				
Tetrachloro-m-xylene	1.5319 1.2367	1.4374	1.3911	1.2335	1.1824	Ave		1.3355			10.4		20.0				
DCB Decachlorobiphenyl	2.2220 1.8922	2.1095	2.0301	1.8972	1.7853	Ave		1.9894			8.1		20.0				

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 09:03 Calibration End Date: 08/16/2018 10:20 Calibration ID: 29704

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/6	080818_169.D
Level 2	IC 500-445590/5	080818_168.D
Level 3	IC 500-445590/4	080818_167.D
Level 4	ICIS 500-445590/3	080818_166.D
Level 5	IC 500-445590/2	080818_165.D
Level 6	IC 500-445590/1	080818_164.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	35185 693357	79419	185576	366889	520946	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 2	BNB	Ave	16621 335587	41736	94889	183338	255296	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 3	BNB	Ave	12060 241471	29325	70218	133971	183799	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 4	BNB	Ave	13129 244051	31591	71524	134519	190105	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 5	BNB	Ave	15863 283840	39414	84560	156666	220767	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 1	BNB	Ave	36867 711576	89018	192252	369743	530516	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 2	BNB	Ave	18852 365112	44103	99882	195267	274924	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 3	BNB	Ave	25096 468287	60819	131999	247167	347307	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 4	BNB	Ave	61435 1250507	149382	326507	639954	931247	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 5	BNB	Ave	33551 667274	80202	175931	344594	478520	0.0400 1.00	0.100	0.250	0.500	0.750
1260 Res 3	BNB	Ave	++++ ++++	43636	++++	++++	++++	++++ ++++	0.100	++++	++++	++++
Tetrachloro-m-xylene	BNB	Ave	50551 823868	98218	218647	421664	597158	0.00400 0.0800	0.00800	0.0200	0.0400	0.0600
DCB Decachlorobiphenyl	BNB	Ave	73326 1260602	144146	319083	648548	901665	0.00400 0.0800	0.00800	0.0200	0.0400	0.0600

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_164.D
 Lims ID: IC AR16606
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2018 09:03:20 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-001
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:40 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 09:03:20
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 09:18:37
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 09:36:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.148	1.140	0.008	166549H	0.0200	0.0200	
2	1.588	1.592	-0.004	40745H	0.0200	0.0200	
						RPD = 0.00	

\$ 4 Tetrachloro-m-xylene

1	2.900	2.892	0.008	823868H	0.0800	0.0741	
2	2.756	2.760	-0.004	169734H	0.0800	0.0843	
						RPD = 12.88	

1 PCB-1016

1	4.036	4.028	0.008	693357H	1.00	0.9155	
1	4.120	4.112	0.008	335587H	1.00	0.8917	
1	4.184	4.172	0.012	241471H	1.00	0.8873	
1	4.484	4.476	0.008	244051H	1.00	0.8616	
1	4.576	4.568	0.008	283840H	1.00	0.8417	
Average of Peak Amounts =						0.8796	
2	3.660	3.664	-0.004	55654H	1.00	1.05	
2	4.032	4.032	0.000	148717H	1.00	1.07	
2	4.140	4.144	-0.004	70626H	1.00	0.99	
2	4.504	4.504	0.000	48589H	1.00	1.05	
2	4.596	4.596	0.000	55567H	1.00	1.04	
Average of Peak Amounts =						1.04	
						RPD = 16.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260							M
1	5.612	5.604	0.008	711576H	1.00	0.8998	
1	5.704	5.696	0.008	365112H	1.00	0.8988	
1	6.092	6.084	0.008	468287H	1.00	0.8797	
1	6.280	6.276	0.004	1250507H	1.00	0.9244	
1	6.488	6.480	0.008	667274H	1.00	0.9216	
Average of Peak Amounts =						0.9049	
2	5.412	5.412	0.000	126097H	1.00	1.07	
2	5.552	5.552	0.000	158344H	1.00	1.01	
2	5.664	5.668	-0.004	126654H	1.00	1.11	
2	6.236	6.236	0.000	269646H	1.00	0.9824	
2	6.492	6.492	0.000	155937H	1.00	1.01	M
Average of Peak Amounts =						1.04	
						RPD = 13.63	
8 1260 Res 1							U
1		6.480			ND	ND	
2		0.000					
2 1260 Res 2							U
1		6.536			ND	ND	
2		0.000					
5 1260 Res 3							U
1		6.572			ND	ND	
2		0.020					
\$ 10 DCB Decachlorobiphenyl							
1	7.368	7.360	0.008	1260602H	0.0800	0.0761	
2	7.280	7.284	-0.004	319689H	0.0800	0.0880	
						RPD = 14.48	
S 12 Polychlorinated biphenyls, Total							
1						0.8796	
Average of Peak Amounts =						0.8796	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

AR1660-6_00038

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_164.D

Injection Date: 16-Aug-2018 09:03:20

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR16606

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

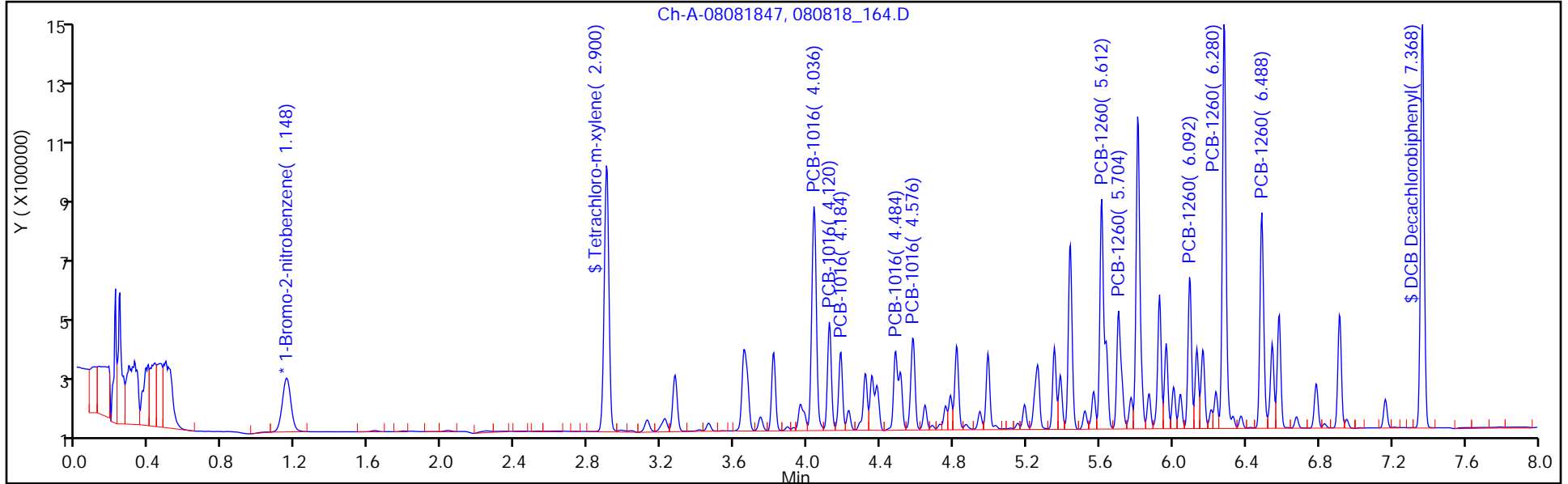
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

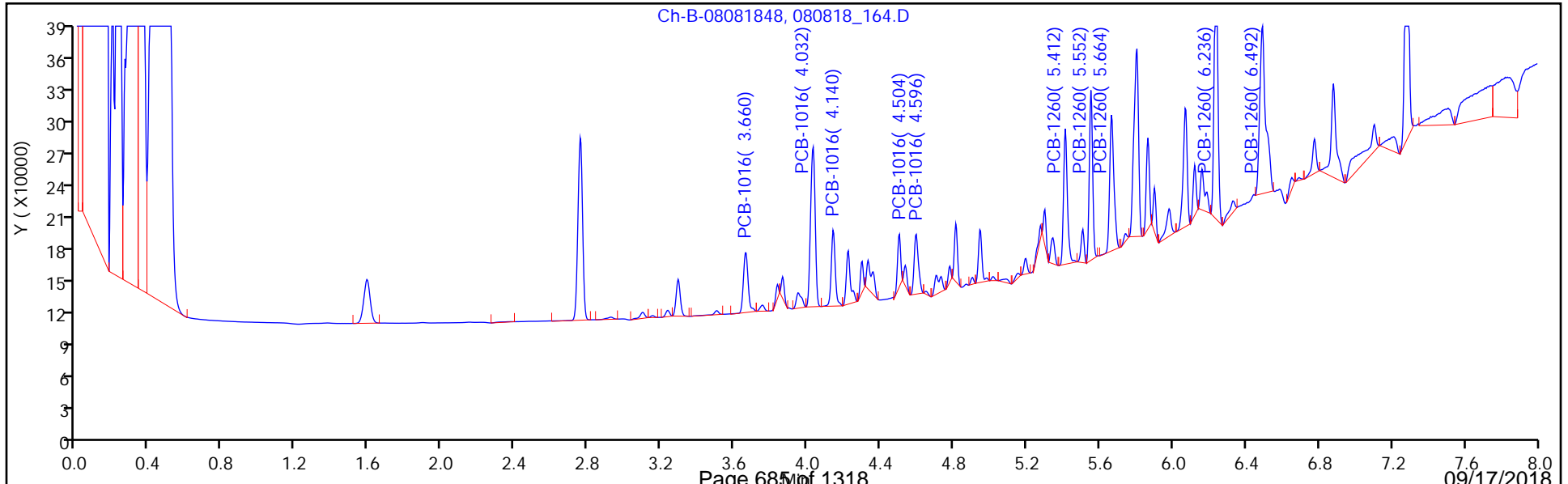
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3

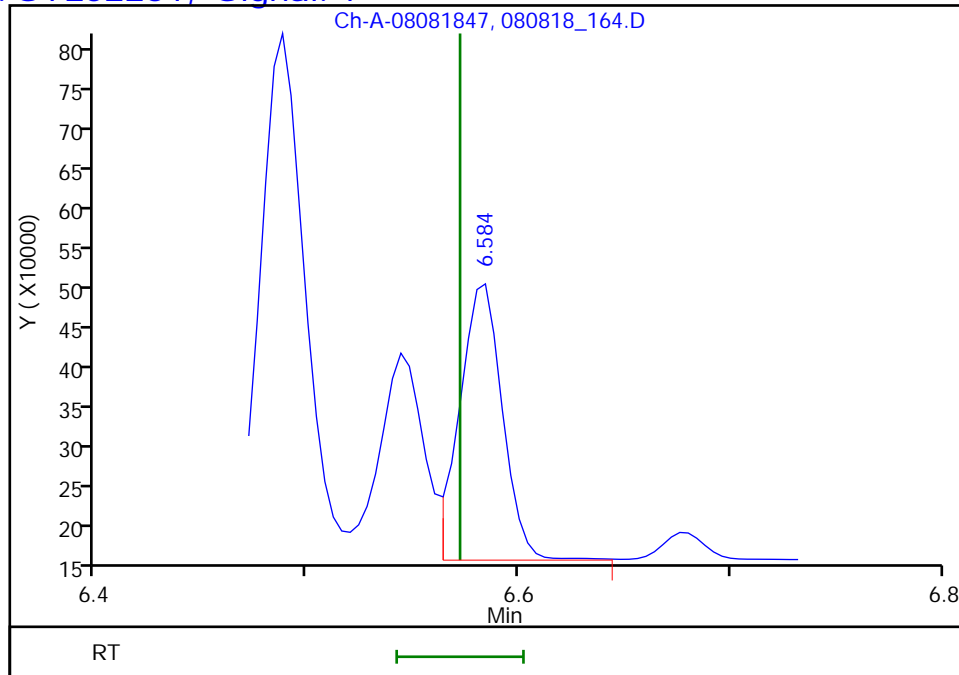


TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_164.D
Injection Date: 16-Aug-2018 09:03:20 Instrument ID: INST47-48
Lims ID: IC AR16606
Client ID:
Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082IS_47-48 Limit Group: GC_PCB_8082A_IS
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

5 1260 Res 3, CAS: STL02251, Signal: 1

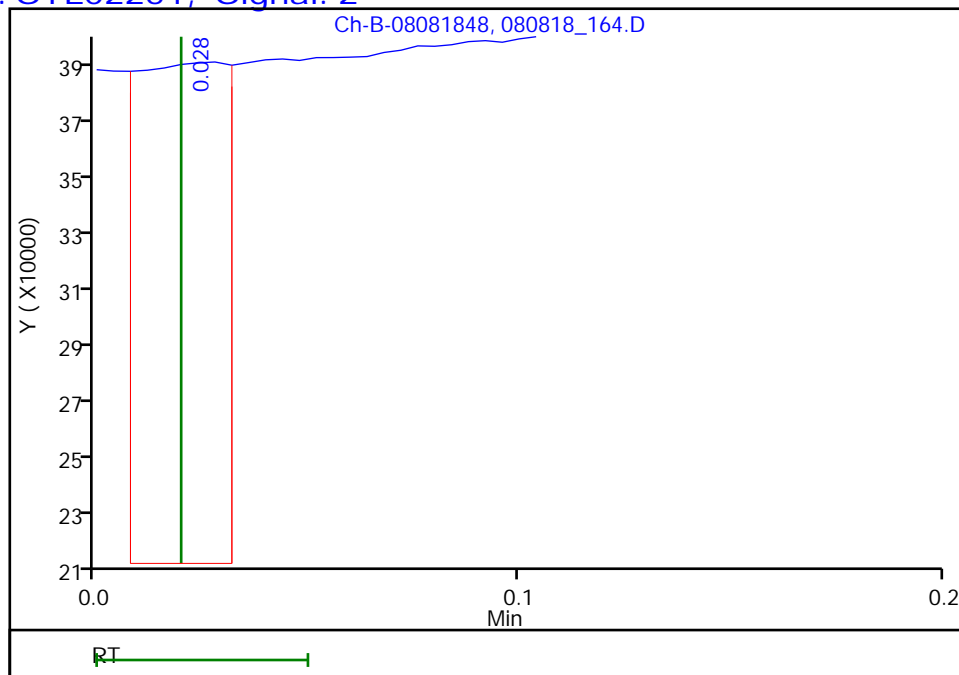
RT: 6.58
Response: 349913
Amount: 0.902608



Column: ZB-CLP-Pesticide 2 (0.53 mm) Detector Ch-B-04091548

5 1260 Res 3, CAS: STL02251, Signal: 2

RT: 0.03
Response: 178471
Amount: 1.000000



Reviewer: hamnerb, 16-Aug-2018 13:16:12
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_165.D
 Lims ID: IC AR16605
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2018 09:18:37 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-002
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17

Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:43 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 09:18:37
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 09:33:57
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 10:20:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene
 1 1.140 1.140 0.000 168350H 0.0200 0.0200
 2 1.592 1.592 0.000 39618H 0.0200 0.0200
 RPD = 0.00

\$ 4 Tetrachloro-m-xylene
 1 2.892 2.892 0.000 597158H 0.0600 0.0531
 2 2.760 2.760 0.000 111948H 0.0600 0.0572
 RPD = 7.34

1 PCB-1016
 1 4.028 4.028 0.000 520946H 0.7500 0.6805
 1 4.112 4.112 0.000 255296H 0.7500 0.6711
 1 4.172 4.172 0.000 183799H 0.7500 0.6681
 1 4.476 4.476 0.000 190105H 0.7500 0.6640
 1 4.568 4.568 0.000 220767H 0.7500 0.6477
 Average of Peak Amounts = 0.6663
 2 3.664 3.664 0.000 39126H 0.7500 0.7559
 2 4.032 4.032 0.000 98454H 0.7500 0.7261
 2 4.144 4.144 0.000 46264H 0.7500 0.6672
 2 4.504 4.504 0.000 32842H 0.7500 0.7297
 2 4.596 4.596 0.000 37497H 0.7500 0.7211
 Average of Peak Amounts = 0.7200
 RPD = 7.75

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260 M

1	5.604	5.604	0.000	530516H	0.7500	0.6637	
1	5.696	5.696	0.000	274924H	0.7500	0.6695	
1	6.084	6.084	0.000	347307H	0.7500	0.6455	
1	6.276	6.276	0.000	931247H	0.7500	0.6810	
1	6.480	6.480	0.000	478520H	0.7500	0.6538	

Average of Peak Amounts = 0.6627

2	5.412	5.412	0.000	82480H	0.7500	0.7230	
2	5.552	5.552	0.000	103583H	0.7500	0.6822	
2	5.668	5.668	0.000	80913H	0.7500	0.7267	
2	6.236	6.236	0.000	171804H	0.7500	0.6438	
2	6.492	6.492	0.000	100941H	0.7500	0.6717	M

Average of Peak Amounts = 0.6895

RPD = 3.96

8 1260 Res 1 U

1		6.480		ND	ND		
2		0.000					

2 1260 Res 2 U

1		6.536		ND	ND		
2		0.000					

5 1260 Res 3 U

1		6.572		ND	ND		
2		0.020					

\$ 10 DCB Decachlorobiphenyl

1	7.360	7.360	0.000	901665H	0.0600	0.0538	
2	7.284	7.284	0.000	177917H	0.0600	0.0503	

RPD = 6.71

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

AR1660-5_00034

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_165.D

Injection Date: 16-Aug-2018 09:18:37

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR16605

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

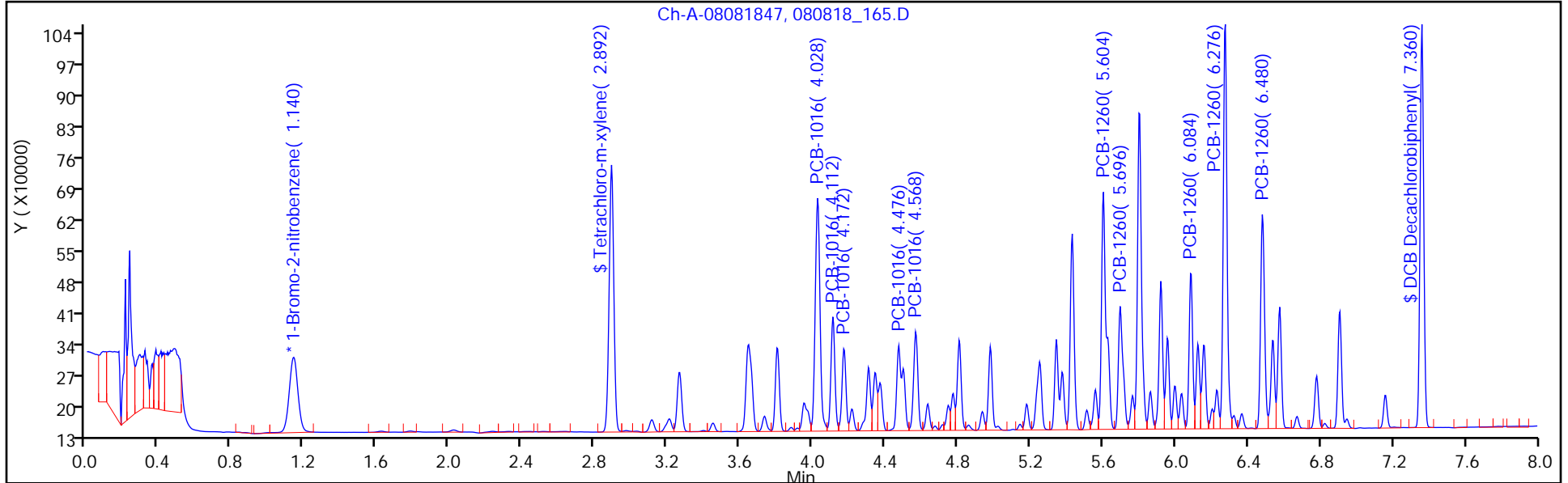
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

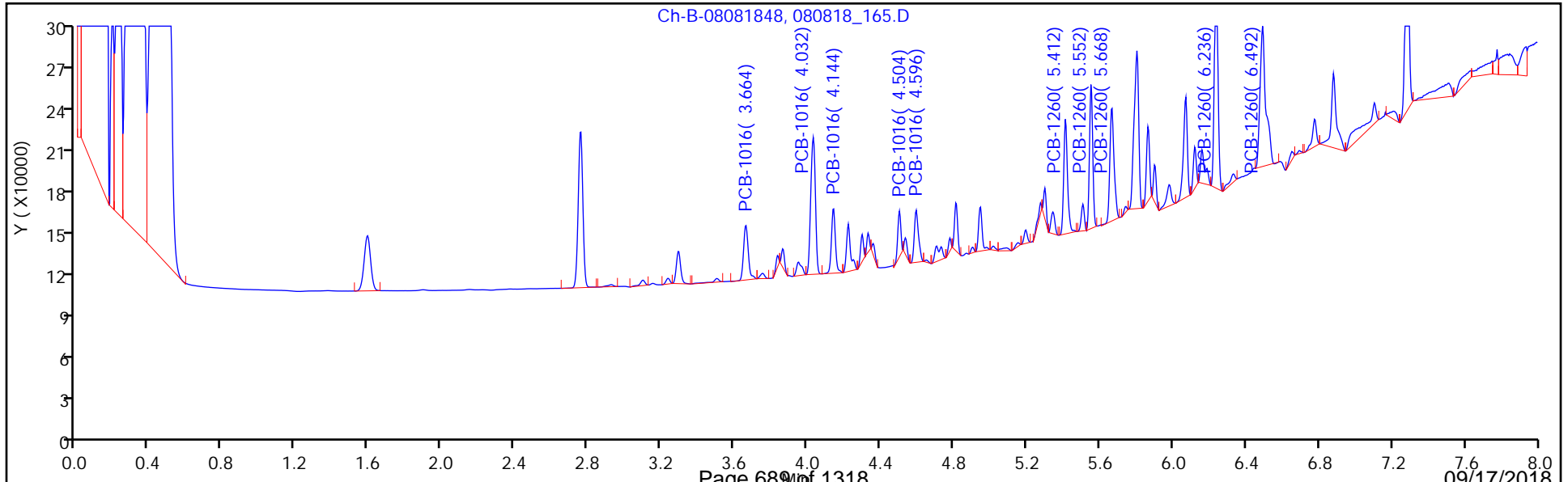
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3

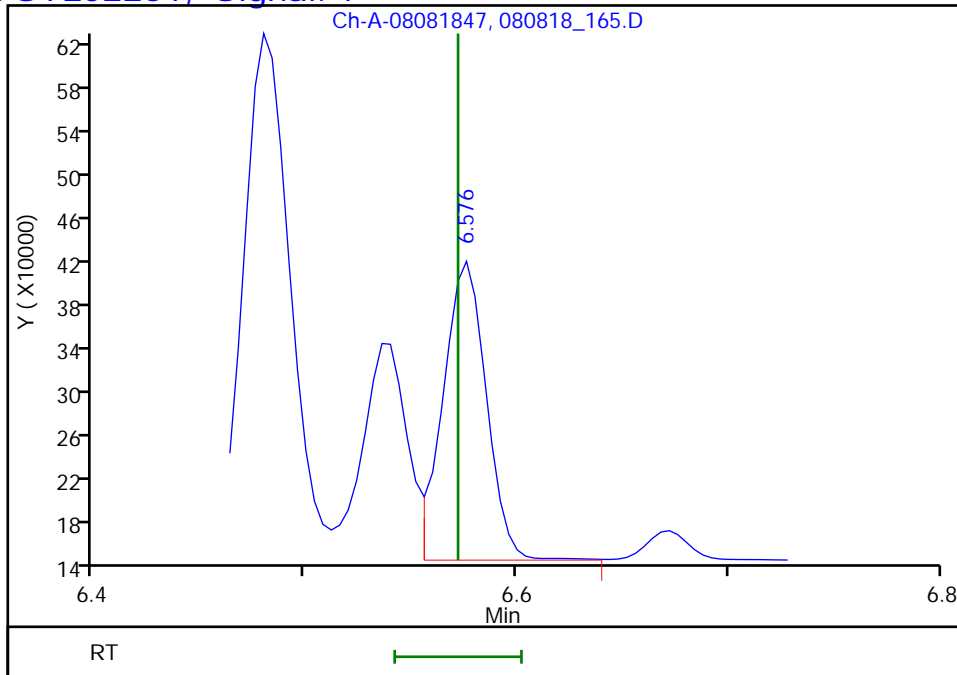


TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_165.D
 Injection Date: 16-Aug-2018 09:18:37 Instrument ID: INST47-48
 Lims ID: IC AR16605
 Client ID:
 Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8082IS_47-48 Limit Group: GC_PCB_8082A_IS
 Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

5 1260 Res 3, CAS: STL02251, Signal: 1

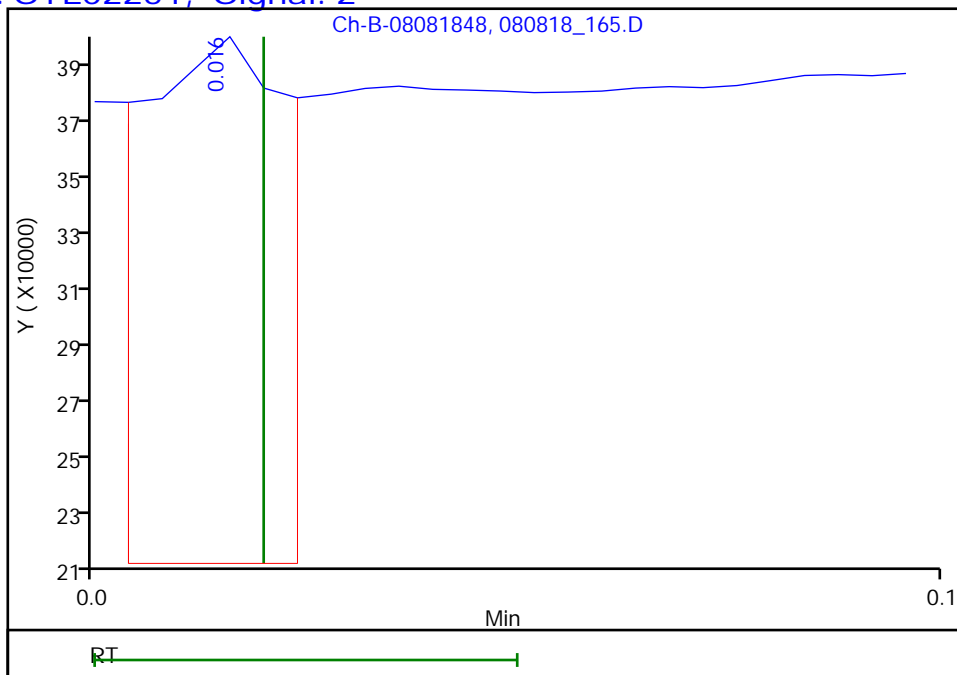
RT: 6.58
 Response: 271439
 Amount: 0.710796



Column: ZB-CLP-Pesticide 2 (0.53 mm) Detector Ch-B-04091548

5 1260 Res 3, CAS: STL02251, Signal: 2

RT: 0.02
 Response: 179177
 Amount: 0.362738



Reviewer: hamnerb, 16-Aug-2018 13:15:38
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_166.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 16-Aug-2018 09:33:57 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-003
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17

Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:45 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 09:33:57
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 09:49:15
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 10:32:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.136	1.136	0.000	170921H	0.0200	0.0200	
2	1.592	1.592	0.000	37710H	0.0200	0.0200	
						RPD = 0.00	

\$ 4 Tetrachloro-m-xylene

1	2.892	2.892	0.000	421664H	0.0400	0.0369	
2	2.760	2.760	0.000	72920H	0.0400	0.0391	
						RPD = 5.72	

1 PCB-1016

1	4.028	4.028	0.000	366889H	0.5000	0.4720	
1	4.112	4.112	0.000	183338H	0.5000	0.4747	
1	4.172	4.172	0.000	133971H	0.5000	0.4797	
1	4.472	4.472	0.000	134519H	0.5000	0.4628	
1	4.568	4.568	0.000	156666H	0.5000	0.4527	
Average of Peak Amounts =						0.4684	
2	3.664	3.664	0.000	25086H	0.5000	0.5092	
2	4.032	4.032	0.000	61882H	0.5000	0.4795	
2	4.144	4.144	0.000	29166H	0.5000	0.4419	
2	4.504	4.504	0.000	21040H	0.5000	0.4912	
2	4.596	4.596	0.000	23517H	0.5000	0.4751	
Average of Peak Amounts =						0.4794	
						RPD = 2.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260							M
1	5.604	5.604	0.000	369743H	0.5000	0.4556	
1	5.696	5.696	0.000	195267H	0.5000	0.4684	
1	6.084	6.084	0.000	247167H	0.5000	0.4525	
1	6.272	6.272	0.000	639954H	0.5000	0.4610	
1	6.480	6.480	0.000	344594H	0.5000	0.4638	
Average of Peak Amounts =						0.4602	
2	5.412	5.412	0.000	52520H	0.5000	0.4837	
2	5.552	5.552	0.000	64947H	0.5000	0.4494	
2	5.664	5.664	0.000	51232H	0.5000	0.4834	
2	6.236	6.236	0.000	109790H	0.5000	0.4322	
2	6.492	6.492	0.000	64255H	0.5000	0.4492	M
Average of Peak Amounts =						0.4596	
						RPD = 0.14	
8 1260 Res 1							U
1		6.480			ND	ND	
2		0.000					
2 1260 Res 2							U
1		6.536			ND	ND	
2		0.000					
5 1260 Res 3							U
1		6.572			ND	ND	
2		0.020					
\$ 10 DCB Decachlorobiphenyl							
1	7.360	7.360	0.000	648548H	0.0400	0.0381	
2	7.284	7.284	0.000	120165H	0.0400	0.0357	
						RPD = 6.55	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

AR1660-4(608)_00018

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_166.D

Injection Date: 16-Aug-2018 09:33:57

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: ICIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

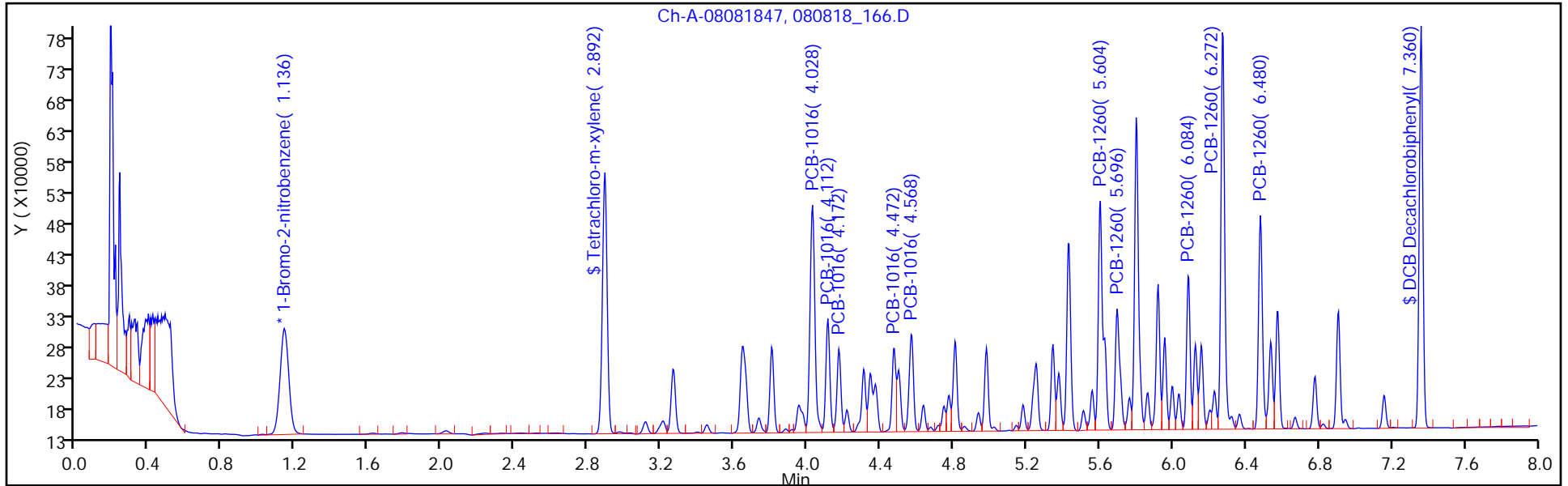
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

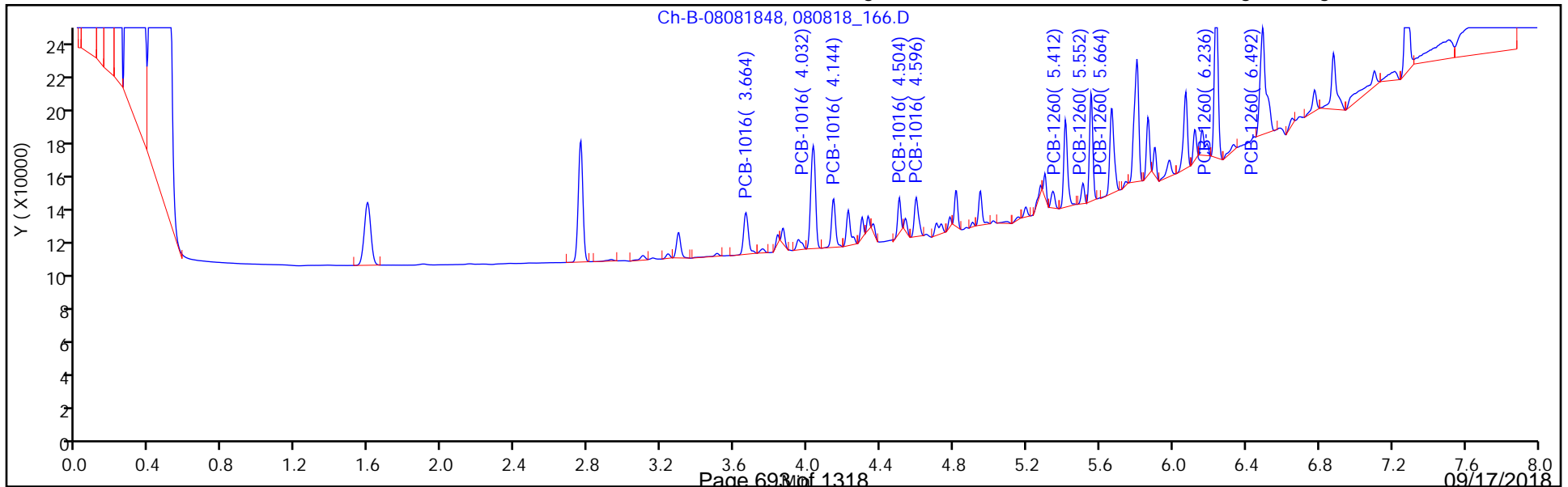
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3

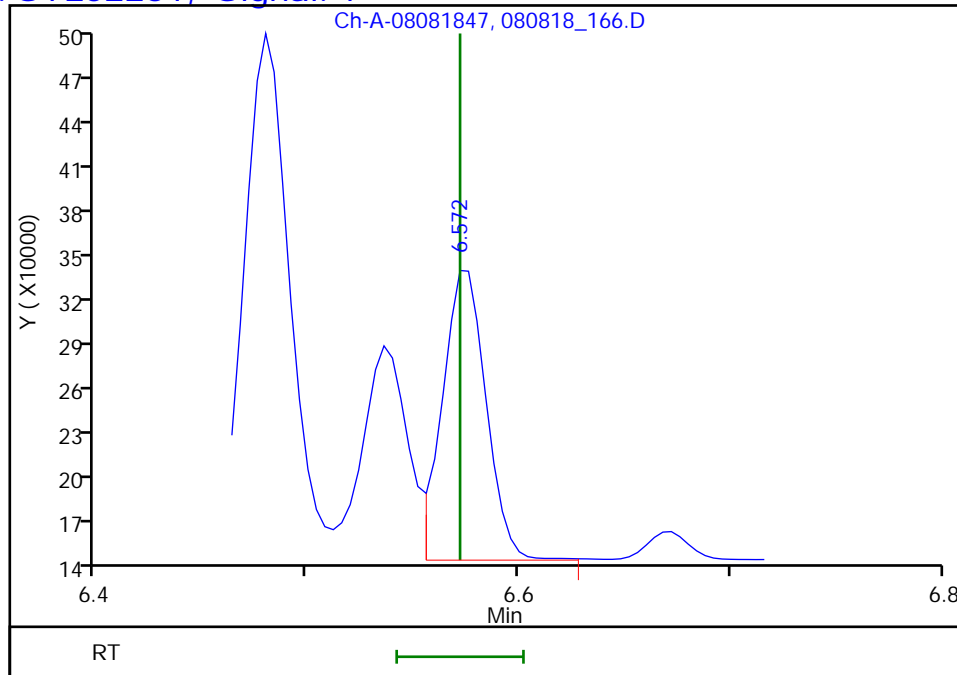


TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_166.D
Injection Date: 16-Aug-2018 09:33:57 Instrument ID: INST47-48
Lims ID: ICIS
Client ID:
Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082IS_47-48 Limit Group: GC_PCB_8082A_IS
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

5 1260 Res 3, CAS: STL02251, Signal: 1

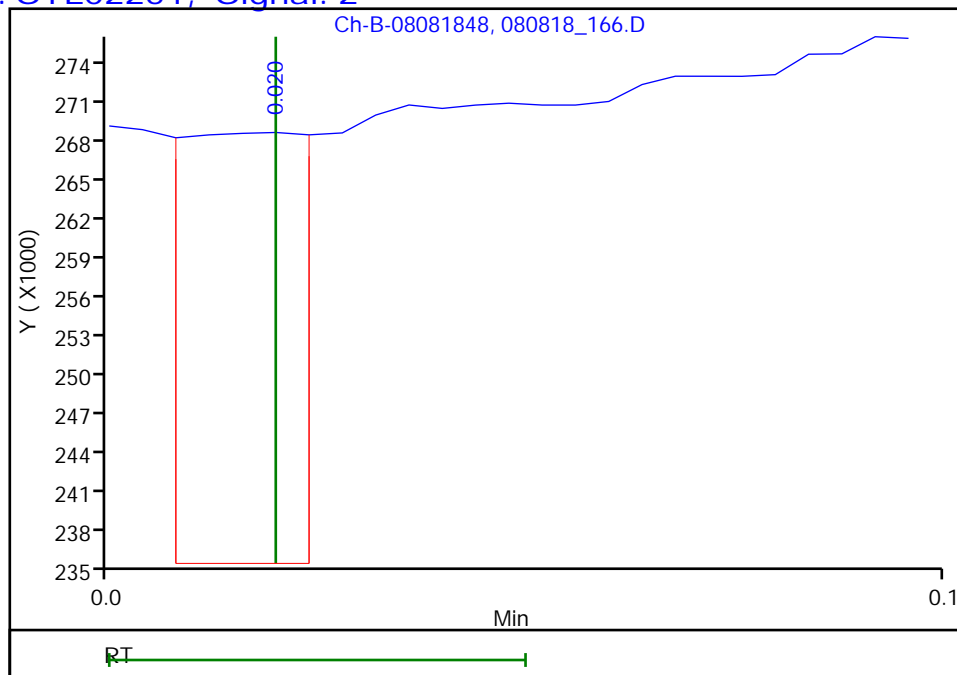
RT: 6.57
Response: 189444
Amount: 0.491416



Column: ZB-CLP-Pesticide 2 (0.53 mm) Detector Ch-B-04091548

5 1260 Res 3, CAS: STL02251, Signal: 2

RT: 0.02
Response: 33057
Amount: 0.089548



Reviewer: hamnerb, 16-Aug-2018 13:15:13
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_167.D
 Lims ID: IC AR16603
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2018 09:49:15 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-004
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17

Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:47 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 09:49:15
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 10:04:49
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 10:21:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene
 1 1.136 1.136 0.000 157176H 0.0200 0.0200
 2 1.592 1.592 0.000 30260H 0.0200 0.0200
 RPD = 0.00

\$ 4 Tetrachloro-m-xylene
 1 2.892 2.892 0.000 218647H 0.0200 0.0208
 2 2.760 2.760 0.000 31139H 0.0200 0.0208
 RPD = 0.07

1 PCB-1016
 1 4.028 4.028 0.000 185576H 0.2500 0.2596
 1 4.112 4.112 0.000 94889H 0.2500 0.2672
 1 4.172 4.172 0.000 70218H 0.2500 0.2734
 1 4.472 4.472 0.000 71524H 0.2500 0.2676
 1 4.568 4.568 0.000 84560H 0.2500 0.2657
 Average of Peak Amounts = 0.2667
 2 3.664 3.664 0.000 10015H 0.2500 0.2533
 2 4.032 4.032 0.000 26674H 0.2500 0.2576
 2 4.144 4.144 0.000 13452H 0.2500 0.2540
 2 4.504 4.504 0.000 8861H 0.2500 0.2578
 2 4.596 4.596 0.000 10510H 0.2500 0.2646
 Average of Peak Amounts = 0.2575
 RPD = 3.53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260							M
1	5.600	5.600	0.000	192252H	0.2500	0.2576	
1	5.696	5.696	0.000	99882H	0.2500	0.2605	
1	6.084	6.084	0.000	131999H	0.2500	0.2628	
1	6.272	6.272	0.000	326507H	0.2500	0.2558	
1	6.480	6.480	0.000	175931H	0.2500	0.2575	
Average of Peak Amounts =						0.2588	
2	5.412	5.412	0.000	22828H	0.2500	0.2620	
2	5.552	5.552	0.000	29277H	0.2500	0.2525	
2	5.668	5.668	0.000	22205H	0.2500	0.2611	
2	6.236	6.236	0.000	50103H	0.2500	0.2458	
2	6.492	6.492	0.000	28261H	0.2500	0.2462	M
Average of Peak Amounts =						0.2535	
						RPD = 2.08	

8 1260 Res 1							U
1		6.480			ND	ND	
2		0.000					
2 1260 Res 2							U
1		6.536			ND	ND	
2		0.000					
5 1260 Res 3							U
1		6.572			ND	ND	
2		0.020					

\$ 10 DCB Decachlorobiphenyl							
1	7.360	7.360	0.000	319083H	0.0200	0.0204	
2	7.284	7.284	0.000	55874H	0.0200	0.0207	
						RPD = 1.42	

S 12 Polychlorinated biphenyls, Total							
1						0.2667	
Average of Peak Amounts =						0.2667	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

AR1660-3_00034

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_167.D

Injection Date: 16-Aug-2018 09:49:15

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR16603

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

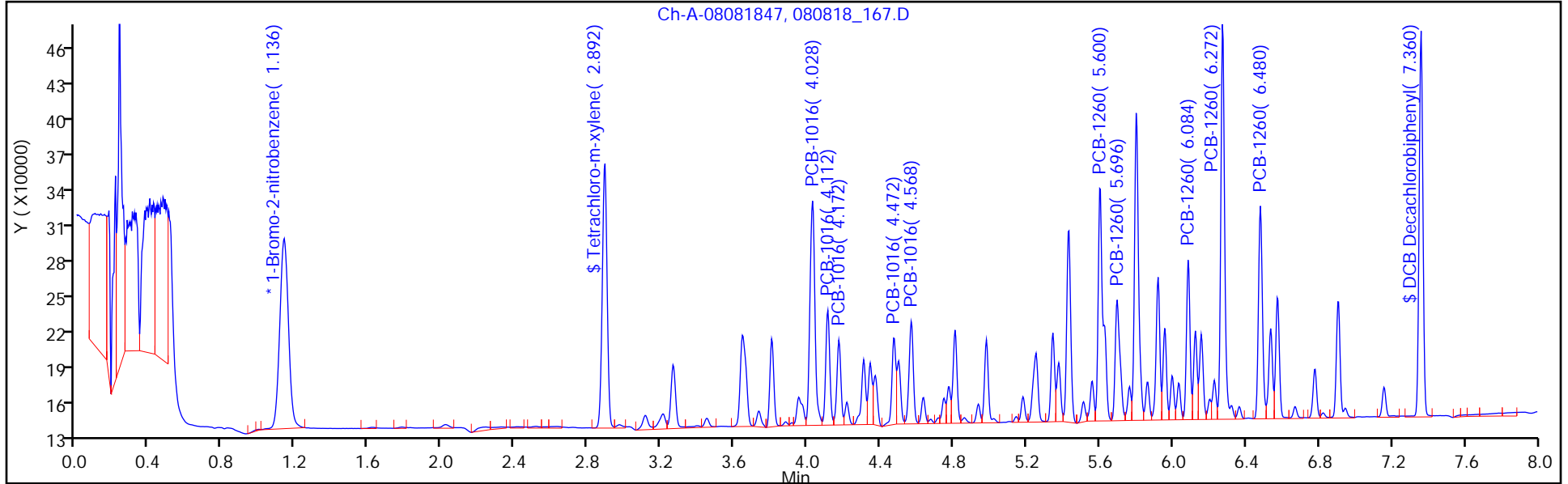
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

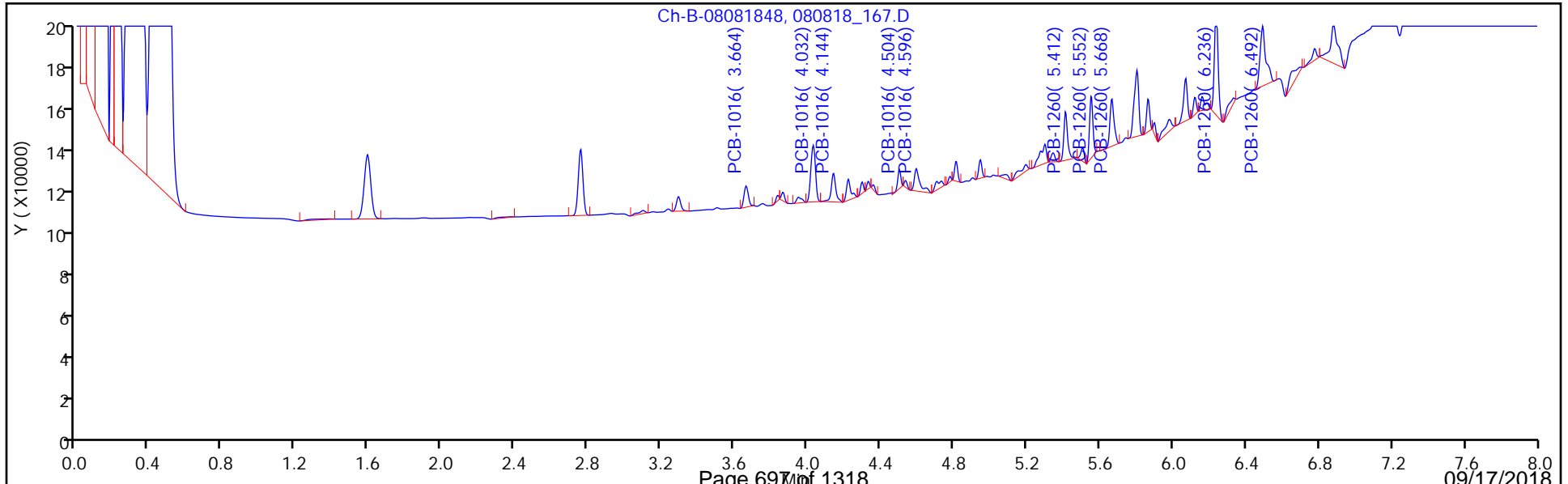
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3

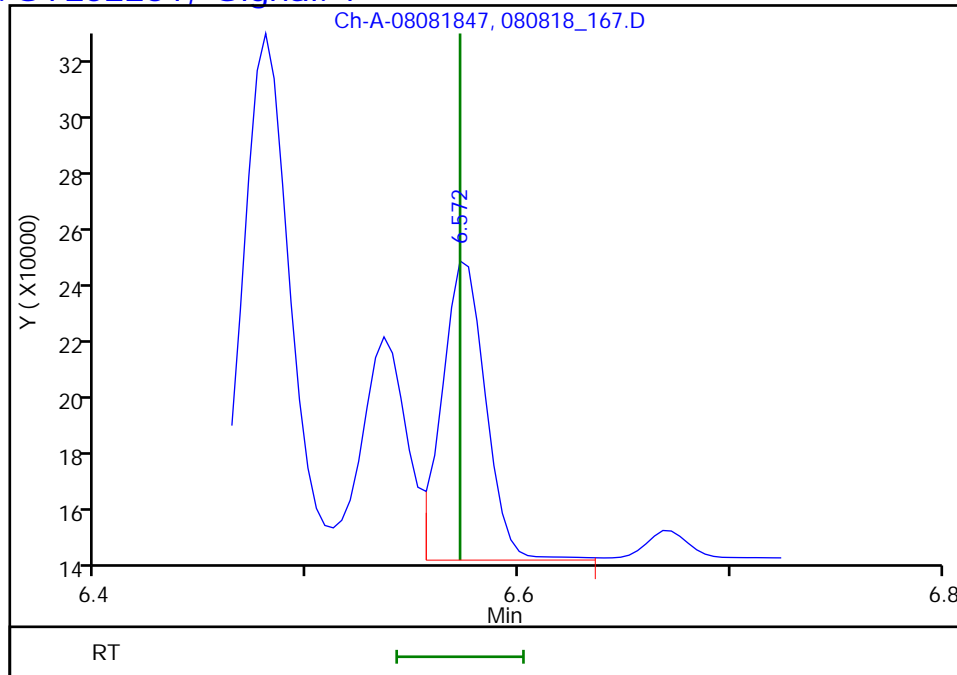


TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_167.D
Injection Date: 16-Aug-2018 09:49:15 Instrument ID: INST47-48
Lims ID: IC AR16603
Client ID:
Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082IS_47-48 Limit Group: GC_PCB_8082A_IS
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

5 1260 Res 3, CAS: STL02251, Signal: 1

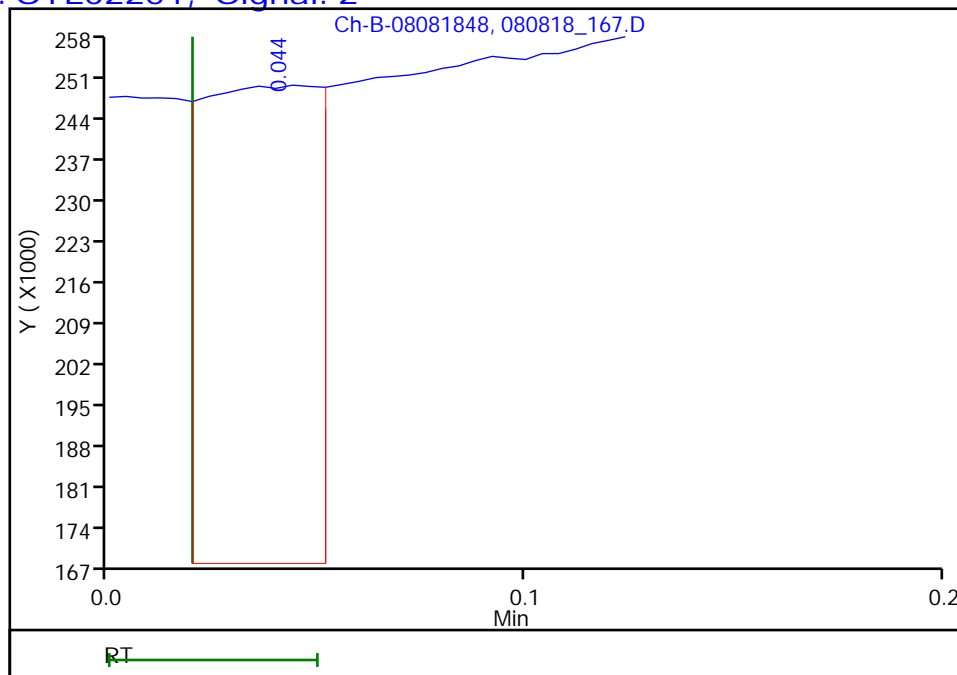
RT: 6.57
Response: 99874
Amount: 0.274754



Column: ZB-CLP-Pesticide 2 (0.53 mm) Detector Ch-B-04091548

5 1260 Res 3, CAS: STL02251, Signal: 2

RT: 0.04
Response: 82287
Amount: 0.271746



Reviewer: hamnerb, 16-Aug-2018 13:14:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_168.D
 Lims ID: IC AR16602
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2018 10:04:49 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-005
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:50 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 10:04:49
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 10:20:07
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 10:32:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene							
1	1.136	1.136	0.000	170830H	0.0200	0.0200	
2	1.596	1.592	0.004	31393H	0.0200	0.0200	
						RPD = 0.00	
\$ 4 Tetrachloro-m-xylene							
1	2.892	2.892	0.000	98218H	0.008000	0.008610	
2	2.760	2.760	0.000	12186H	0.008000	0.007853	
						RPD = 9.20	
1 PCB-1016							
1	4.028	4.028	0.000	79419H	0.1000	0.1022	M
1	4.112	4.112	0.000	41736H	0.1000	0.1081	M
1	4.176	4.172	0.004	29325H	0.1000	0.1051	M
1	4.476	4.472	0.004	31591H	0.1000	0.1087	M
1	4.568	4.568	0.000	39414H	0.1000	0.1139	
Average of Peak Amounts =						0.1076	
2	3.664	3.664	0.000	4004H	0.1000	0.0976	
2	4.032	4.032	0.000	10711H	0.1000	0.0997	
2	4.144	4.144	0.000	5699H	0.1000	0.1037	
2	4.504	4.504	0.000	3561H	0.1000	0.0999	
2	4.596	4.596	0.000	4318H	0.1000	0.1048	
Average of Peak Amounts =						0.1011	
						RPD = 6.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260							M
1	5.604	5.600	0.004	89018H	0.1000	0.1097	
1	5.696	5.696	0.000	44103H	0.1000	0.1058	
1	6.084	6.084	0.000	60819H	0.1000	0.1114	
1	6.272	6.272	0.000	149382H	0.1000	0.1077	
1	6.480	6.480	0.000	80202H	0.1000	0.1080	
Average of Peak Amounts =						0.1085	
2	5.416	5.412	0.004	8868H	0.1000	0.0981	
2	5.556	5.552	0.004	12399H	0.1000	0.1031	
2	5.668	5.668	0.000	8712H	0.1000	0.0987	
2	6.240	6.236	0.004	21992H	0.1000	0.1040	M
2	6.492	6.492	0.000	12182H	0.1000	0.1023	
Average of Peak Amounts =						0.1012	
						RPD = 6.95	

8 1260 Res 1						
1		6.480			ND	ND
2		0.000				

2 1260 Res 2						
1		6.536			ND	ND
2		0.000				

5 1260 Res 3						
1	6.572	6.572	0.000	43636H	0.1000	0.1000
2	0.016	0.020	-0.004	84741H	0.1000	0.1000
						RPD = 0.00

\$ 10 DCB Decachlorobiphenyl						
1	7.360	7.360	0.000	144146H	0.008000	0.008483
2	7.284	7.284	0.000	22718H	0.008000	0.008113
						RPD = 4.45

S 12 Polychlorinated biphenyls, Total						
1						0.1076
Average of Peak Amounts =						0.1076

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

Reagents:

AR1660-2_00035	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_168.D

Injection Date: 16-Aug-2018 10:04:49

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR16602

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

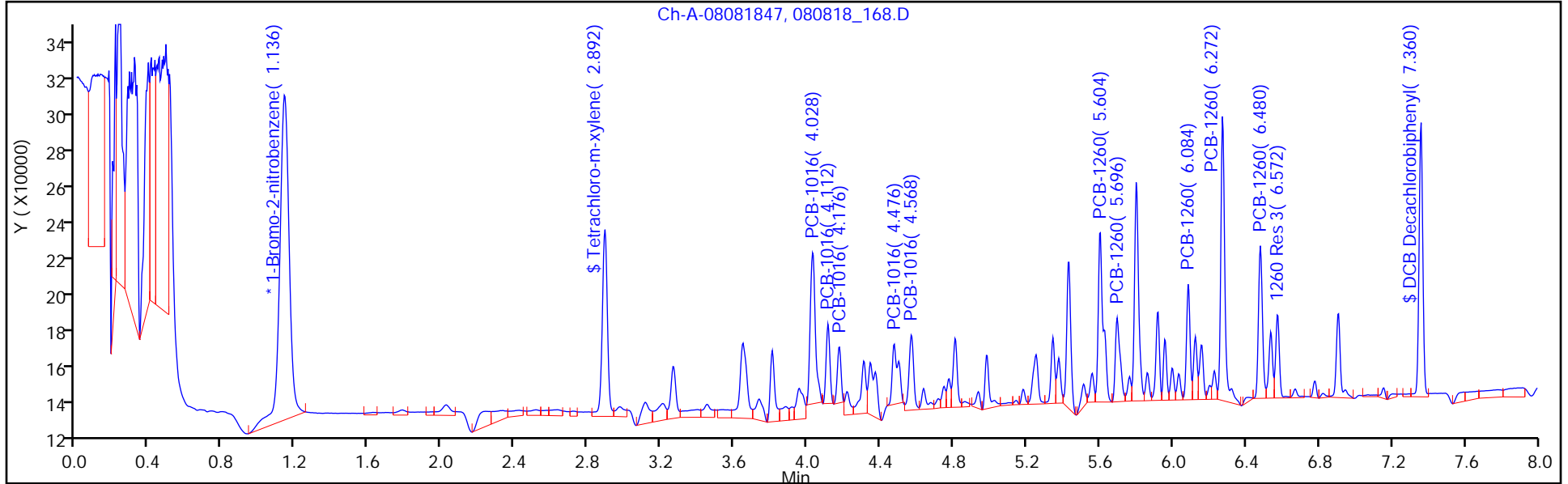
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

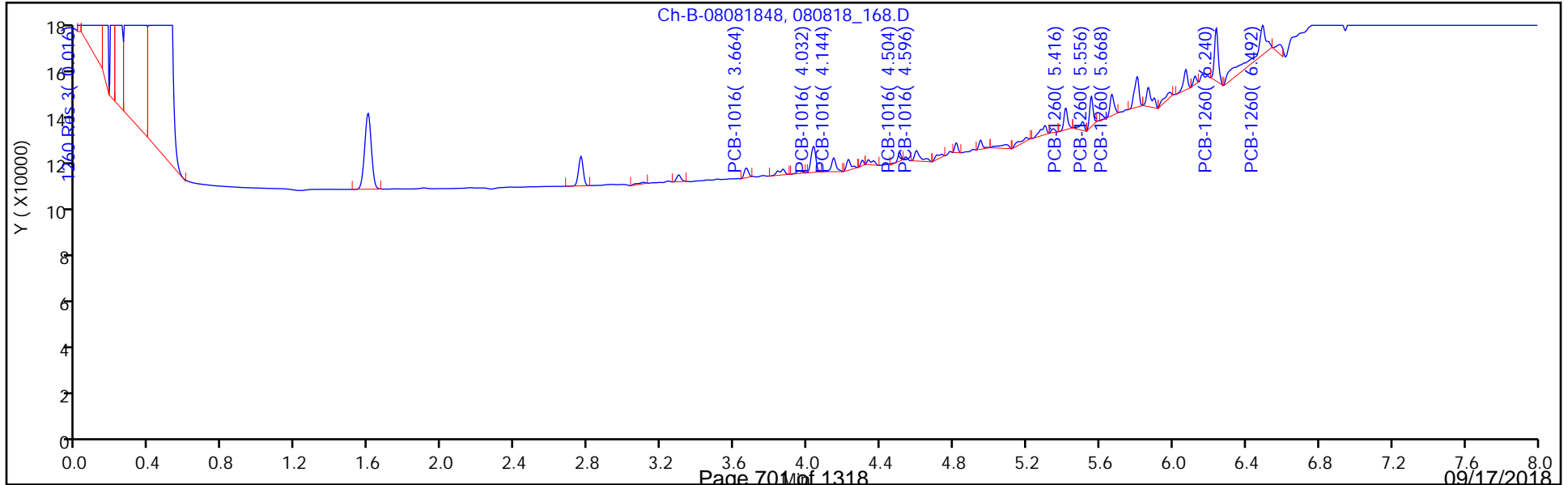
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_168.D

Injection Date: 16-Aug-2018 10:04:49

Instrument ID: INST47-48

Lims ID: IC AR16602

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

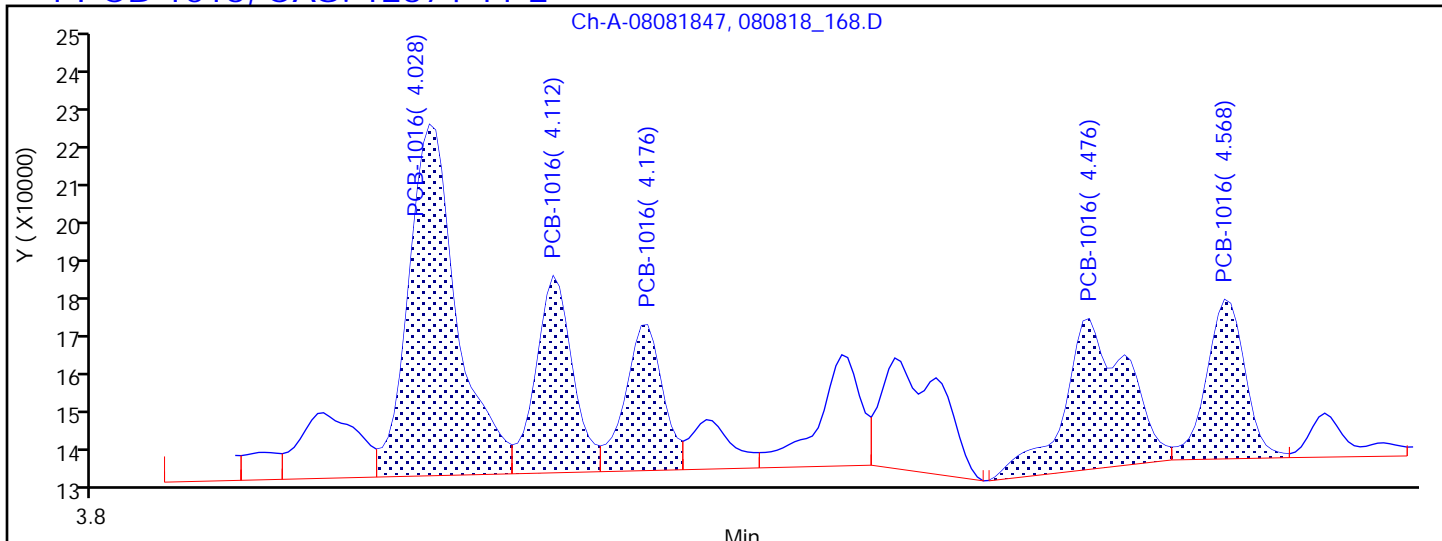
Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.50 mm)

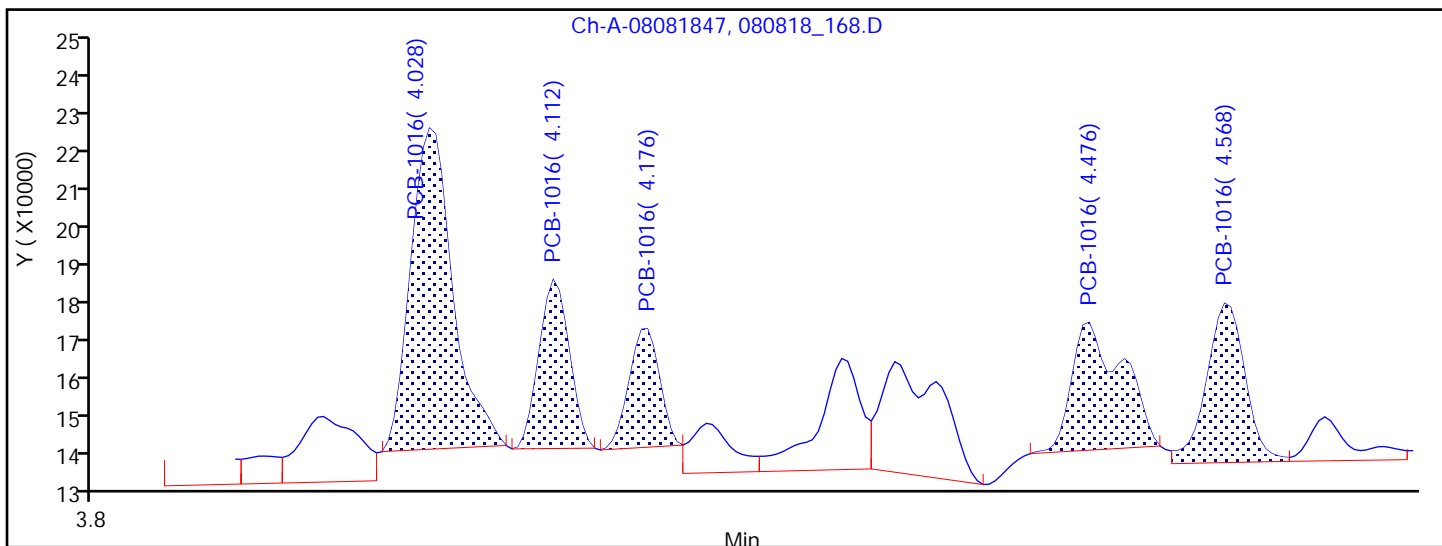
Detector: Ch-A-04091547

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.028	Response = 86909
4.112	Response = 48668
4.176	Response = 36025
4.476	Response = 37263
4.568	Response = 39414



Manual Integration Results

4.028	Response = 79419	M
4.112	Response = 41736	M
4.176	Response = 29325	M
4.476	Response = 31591	M
4.568	Response = 39414	

Reviewer: hamnerb, 16-Aug-2018 11:34:34

Audit Action: Manually Integrated

Audit Reason: Peak not integrated
Page 702 of 1318

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_169.D
 Lims ID: IC AR16601
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2018 10:20:07 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-006
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:52 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 10:20:07
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 10:35:29
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 10:52:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene							
1	1.136	1.136	0.000	164997H	0.0200	0.0200	
2	1.592	1.592	0.000	33148H	0.0200	0.0200	
						RPD = 0.00	
\$ 4 Tetrachloro-m-xylene							
1	2.892	2.892	0.000	50551H	0.004000	0.004588	
2	2.760	2.760	0.000	6509H	0.004000	0.003973	
						RPD = 14.38	
1 PCB-1016							
1	4.028	4.028	0.000	35185H	0.0400	0.0469	M
1	4.112	4.112	0.000	16621H	0.0400	0.0446	M
1	4.172	4.172	0.000	12060H	0.0400	0.0447	M
1	4.472	4.472	0.000	13129H	0.0400	0.0468	M
1	4.568	4.568	0.000	15863H	0.0400	0.0475	M
Average of Peak Amounts =						0.0461	
2	3.668	3.664	0.004	1626H	0.0400	0.0375	
2	4.032	4.032	0.000	4445H	0.0400	0.0392	
2	4.144	4.144	0.000	2746H	0.0400	0.0473	
2	4.504	4.504	0.000	1454H	0.0400	0.0386	
2	4.596	4.596	0.000	1641H	0.0400	0.0377	
Average of Peak Amounts =						0.0401	
						RPD = 13.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260							M
1	5.604	5.600	0.004	36867H	0.0400	0.0471	
1	5.696	5.696	0.000	18852H	0.0400	0.0468	
1	6.084	6.084	0.000	25096H	0.0400	0.0476	
1	6.272	6.272	0.000	61435H	0.0400	0.0458	
1	6.480	6.480	0.000	33551H	0.0400	0.0468	
Average of Peak Amounts =						0.0468	
2	5.412	5.412	0.000	3685H	0.0400	0.0386	
2	5.556	5.552	0.004	5778H	0.0400	0.0455	
2	5.668	5.668	0.000	3453H	0.0400	0.0371	
2	6.236	6.236	0.000	11358H	0.0400	0.0509	M
2	6.492	6.492	0.000	5982H	0.0400	0.0476	
Average of Peak Amounts =						0.0439	
						RPD = 6.40	
8 1260 Res 1							U
1		6.480			ND	ND	
2		0.000					
2 1260 Res 2							U
1		6.536			ND	ND	
2		0.000					
5 1260 Res 3							U
1		6.572			ND	ND	
2		0.020					
\$ 10 DCB Decachlorobiphenyl							M
1	7.360	7.360	0.000	73326H	0.004000	0.004468	
2	7.284	7.284	0.000	13232H	0.004000	0.004475	M
						RPD = 0.17	
S 12 Polychlorinated biphenyls, Total							
1						0.0461	
Average of Peak Amounts =						0.0461	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

AR1660-1_00035

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_169.D

Injection Date: 16-Aug-2018 10:20:07

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR16601

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

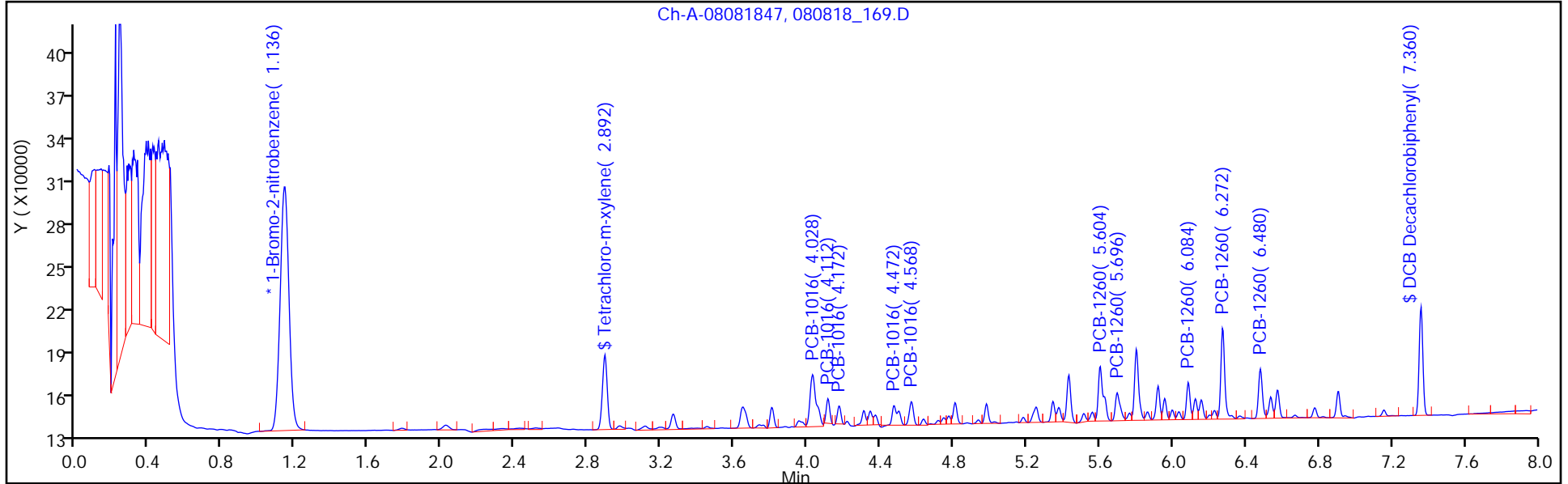
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

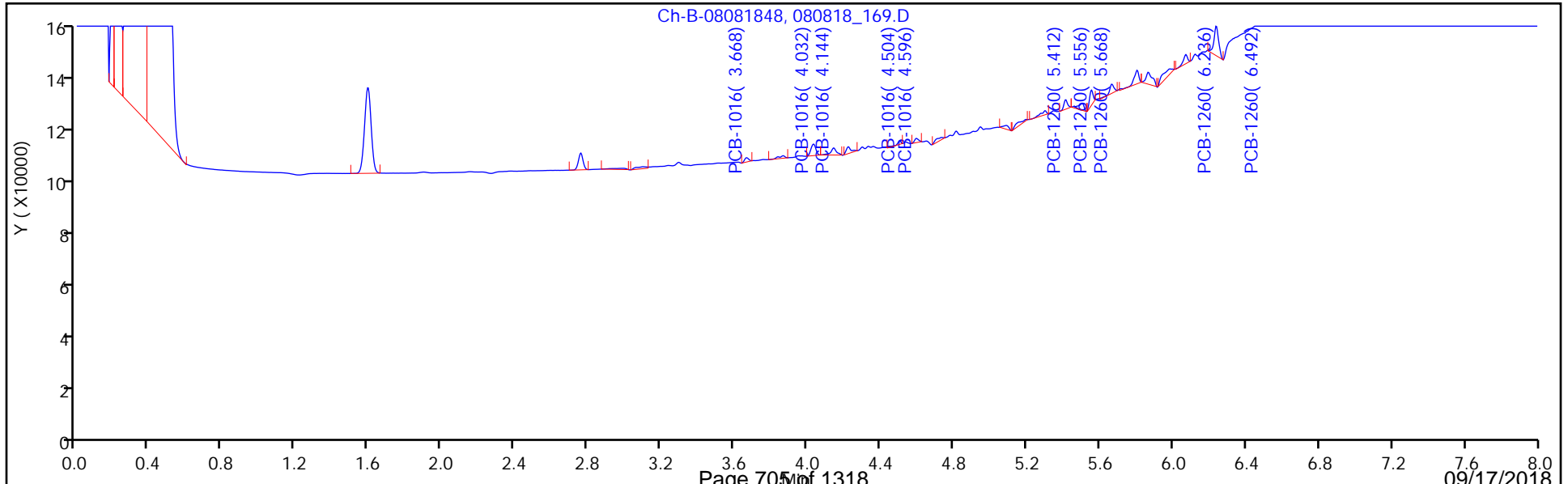
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_169.D

Injection Date: 16-Aug-2018 10:20:07

Instrument ID: INST47-48

Lims ID: IC AR16601

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

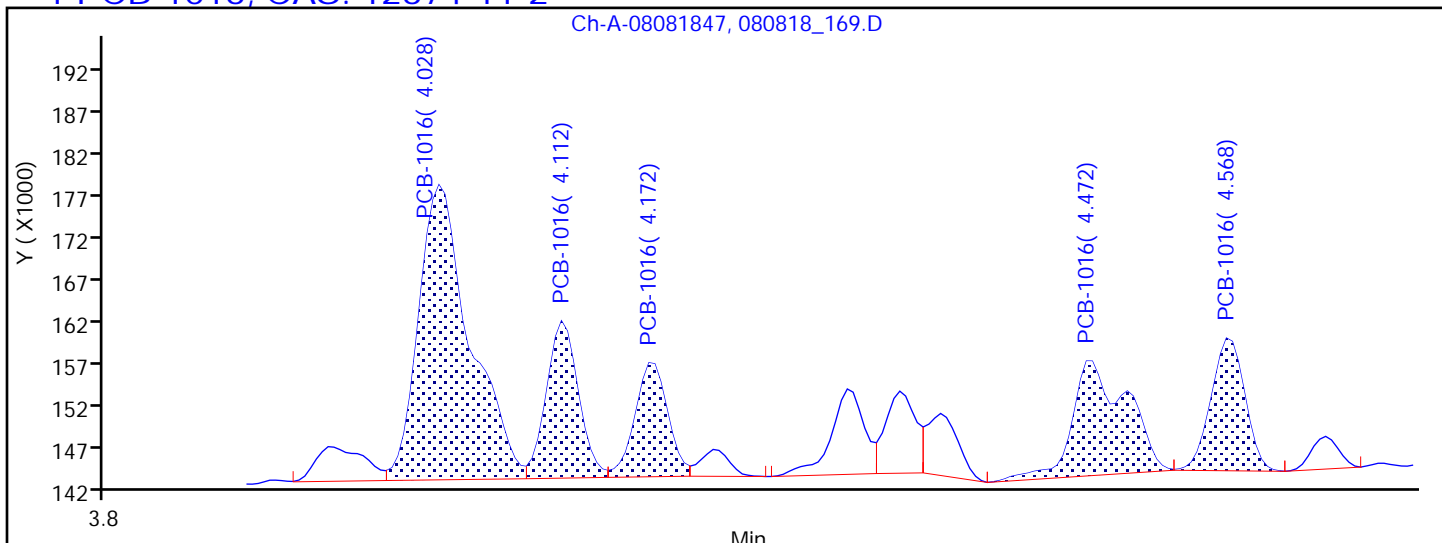
Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.50 mm)

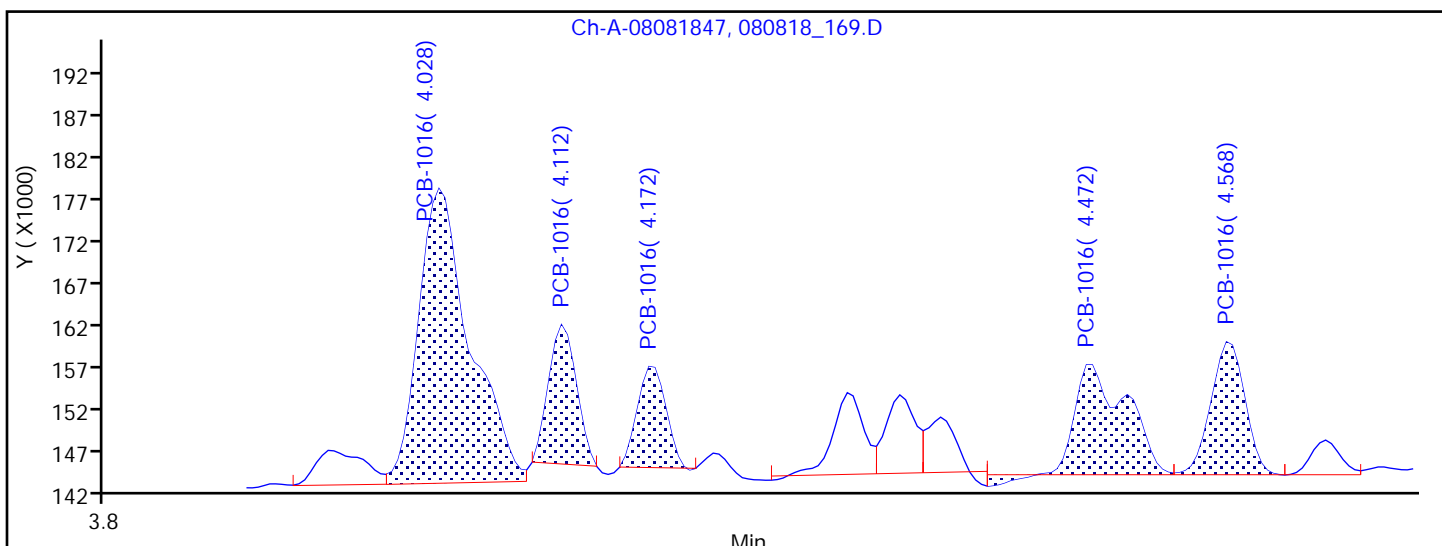
Detector: Ch-A-04091547

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.028	Response = 35222
4.112	Response = 18757
4.172	Response = 13606
4.472	Response = 13719
4.568	Response = 15831



Manual Integration Results

4.028	Response = 35185	M
4.112	Response = 16621	M
4.172	Response = 12060	M
4.472	Response = 13129	M
4.568	Response = 15863	M

Reviewer: hamnerb, 16-Aug-2018 11:36:46

Audit Action: Assigned New Baseline

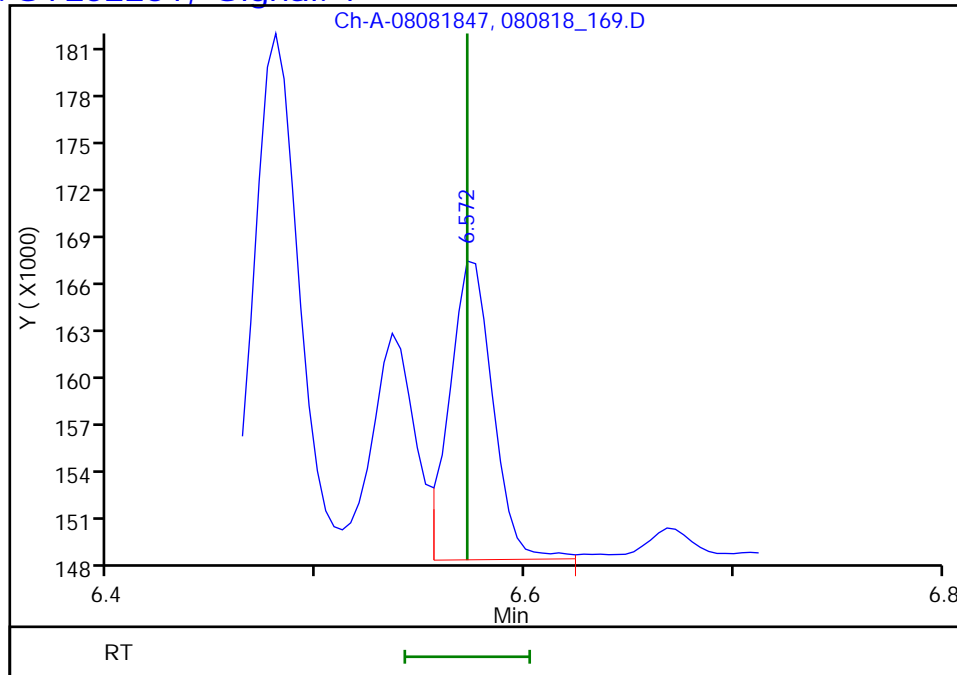
Audit Reason: Peak not integrated
Page 706 of 1318

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_169.D
 Injection Date: 16-Aug-2018 10:20:07 Instrument ID: INST47-48
 Lims ID: IC AR16601
 Client ID:
 Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8082IS_47-48 Limit Group: GC_PCB_8082A_IS
 Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

5 1260 Res 3, CAS: STL02251, Signal: 1

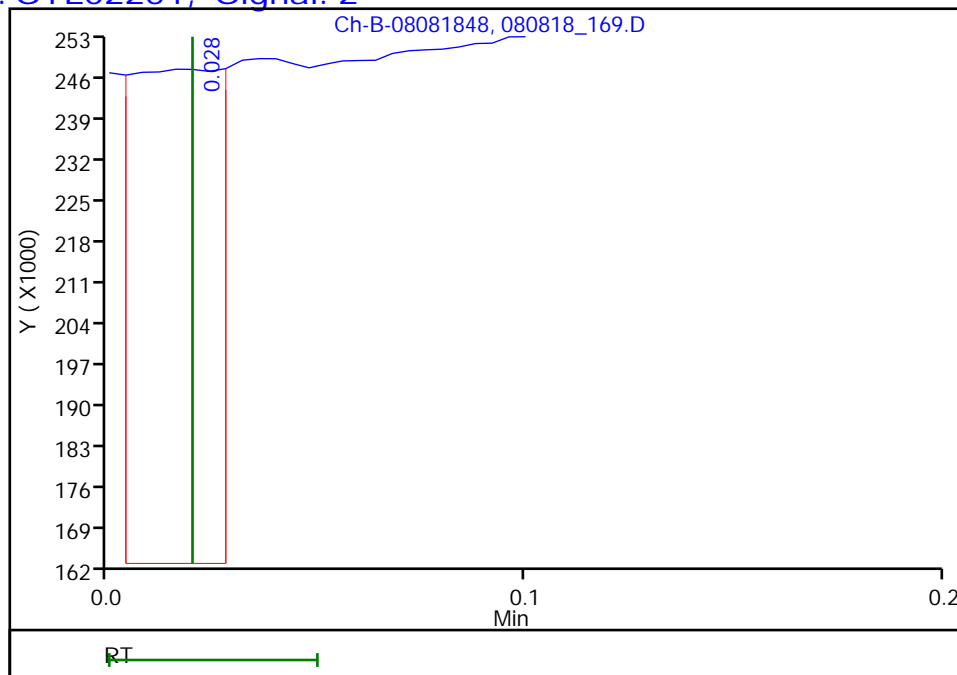
RT: 6.57
 Response: 18923
 Amount: 0.047684



Column: ZB-CLP-Pesticide 2 (0.53 mm) Detector Ch-B-04091548

5 1260 Res 3, CAS: STL02251, Signal: 2

RT: 0.03
 Response: 84474
 Amount: 0.134427



Reviewer: hamnerb, 16-Aug-2018 11:40:22
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:06 Calibration End Date: 08/16/2018 11:06 Calibration ID: 29708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/9	080818_172.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	0.0174				Ave		0.0174						20.0			
PCB-1221 Peak 2	0.0122				Ave		0.0122						20.0			
PCB-1221 Peak 3	0.0393				Ave		0.0393						20.0			
PCB-1254 Peak 1	0.0614				Ave		0.0614						20.0			
PCB-1254 Peak 2	0.0780				Ave		0.0780						20.0			
PCB-1254 Peak 3	0.1145				Ave		0.1145						20.0			
PCB-1254 Peak 4	0.0972				Ave		0.0972						20.0			
PCB-1254 Peak 5	0.0761				Ave		0.0761						20.0			

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:06 Calibration End Date: 08/16/2018 11:06 Calibration ID: 29708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/9	080818_172.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)					
			LVL 1						LVL 1				
PCB-1221 Peak 1	BNB	Ave	67691						0.500				
PCB-1221 Peak 2	BNB	Ave	47585						0.500				
PCB-1221 Peak 3	BNB	Ave	152801						0.500				
PCB-1254 Peak 1	BNB	Ave	238825						0.500				
PCB-1254 Peak 2	BNB	Ave	303126						0.500				
PCB-1254 Peak 3	BNB	Ave	445164						0.500				
PCB-1254 Peak 4	BNB	Ave	377796						0.500				
PCB-1254 Peak 5	BNB	Ave	296065						0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_172.D

Lims ID: IC AR2154

Client ID:

Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2018 11:06:21 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-009
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub22

Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m

Limit Group: GC_PCB_8082A_IS

Last Update: 16-Aug-2018 13:21:33 Calib Date: 16-Aug-2018 11:52:19

Integrator: Falcon

Quant Method: Internal Standard Quant By: Initial Calibration

Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 11:06:21

Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 11:21:40

Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 11:44:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.136	1.140	-0.004	155545H	0.0200	0.0200	
2	1.592	1.592	0.000	35040H	0.0200	0.0200	
						RPD = 0.00	

6 PCB-1221

1	3.116	3.116	0.000	67691H	0.5000	0.5000	
1	3.212	3.212	0.000	47585H	0.5000	0.5000	
1	3.268	3.268	0.000	152801H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.100	3.100	0.000	10550H	0.5000	0.5000	
2	3.236	3.236	0.000	6948H	0.5000	0.5000	
2	3.296	3.296	0.000	24611H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

13 PCB-1254

1	4.808	4.808	0.000	238825H	0.5000	0.5000	
1	4.980	4.980	0.000	303126H	0.5000	0.5000	
1	5.252	5.252	0.000	445164H	0.5000	0.5000	
1	5.440	5.440	0.000	377796H	0.5000	0.5000	
1	5.632	5.632	0.000	296065H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	4.812	4.812	0.000	39156H	0.5000	0.5000	
2	4.948	4.948	0.000	48235H	0.5000	0.5000	
2	5.276	5.276	0.000	84483H	0.5000	0.5000	
2	5.556	5.556	0.000	32144H	0.5000	0.5000	
2	5.676	5.676	0.000	54364H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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S 12 Polychlorinated biphenyls, Total

1 0.5000

Average of Peak Amounts = 0.5000

Reagents:

AR2154-4_00006	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_172.D

Injection Date: 16-Aug-2018 11:06:21

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR2154

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

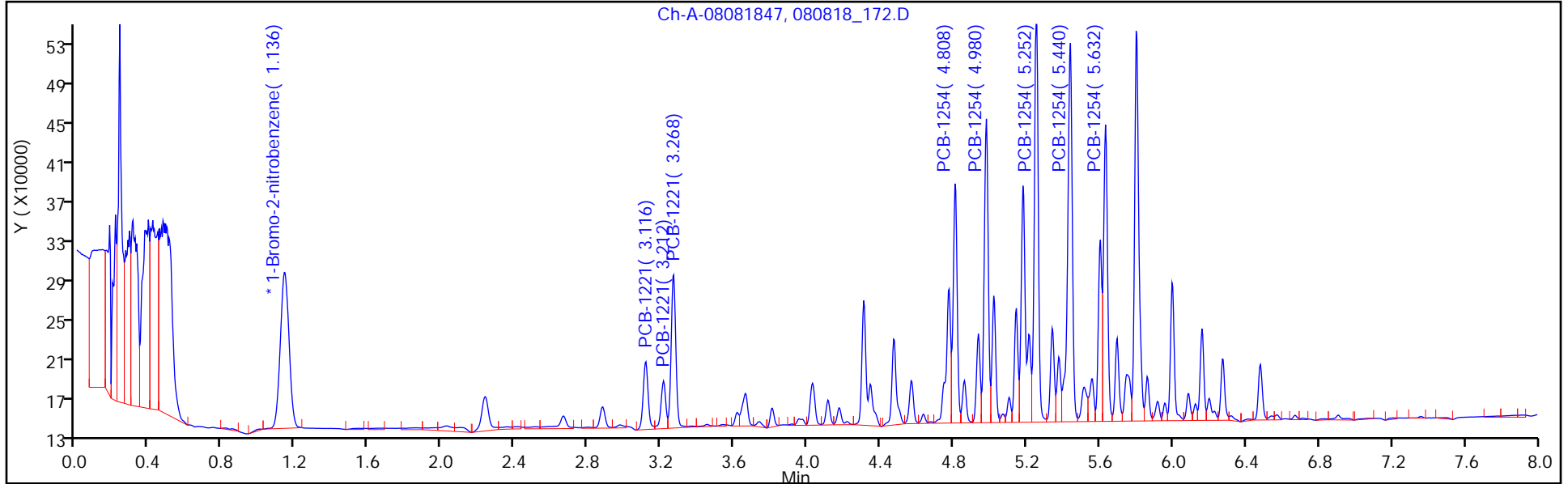
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

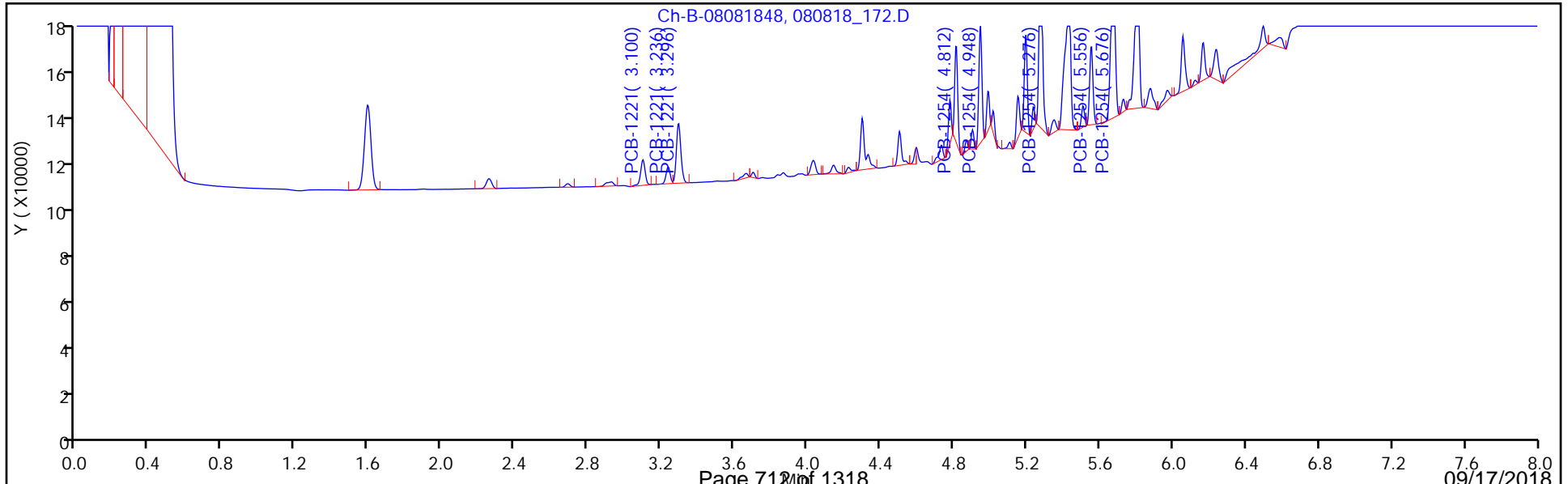
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



FORM VI
 PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:21 Calibration End Date: 08/16/2018 11:21 Calibration ID: 29712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/10	080818_173.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	0.0590				Ave		0.0590						20.0			
PCB-1248 Peak 2	0.0578				Ave		0.0578						20.0			
PCB-1248 Peak 3	0.0760				Ave		0.0760						20.0			
PCB-1248 Peak 4	0.0673				Ave		0.0673						20.0			
PCB-1248 Peak 5	0.0436				Ave		0.0436						20.0			

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:21 Calibration End Date: 08/16/2018 11:21 Calibration ID: 29712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/10	080818_173.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	245622					0.500				
PCB-1248 Peak 2	BNB	Ave	240491					0.500				
PCB-1248 Peak 3	BNB	Ave	316186					0.500				
PCB-1248 Peak 4	BNB	Ave	280184					0.500				
PCB-1248 Peak 5	BNB	Ave	181590					0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_173.D
 Lims ID: IC AR1248
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2018 11:21:40 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-010
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub11
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:35 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1: ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 11:21:40
 Column 2: ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 11:37:01
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 11:51:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.136	1.140	-0.004	166444H	0.0200	0.0200	
2	1.592	1.592	0.000	36773H	0.0200	0.0200	
						RPD = 0.00	

7 PCB-1248

1	4.028	4.028	0.000	245622H	0.5000	0.5000	
1	4.568	4.568	0.000	240491H	0.5000	0.5000	
1	4.804	4.804	0.000	316186H	0.5000	0.5000	
1	4.932	4.932	0.000	280184H	0.5000	0.5000	
1	5.252	5.252	0.000	181590H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	4.032	4.032	0.000	43327H	0.5000	0.5000	
2	4.596	4.596	0.000	43799H	0.5000	0.5000	
2	4.816	4.816	0.000	53183H	0.5000	0.5000	
2	4.980	4.980	0.000	49561H	0.5000	0.5000	
2	5.276	5.276	0.000	30114H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

S 12 Polychlorinated biphenyls, Total

1						0.5000	
Average of Peak Amounts =						0.5000	

Reagents:

AR1248-4_00041 Amount Added: 1.00 Units: mL
 IS8000WRK_00022 Amount Added: 10.00 Units: uL Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_173.D

Injection Date: 16-Aug-2018 11:21:40

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR1248

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

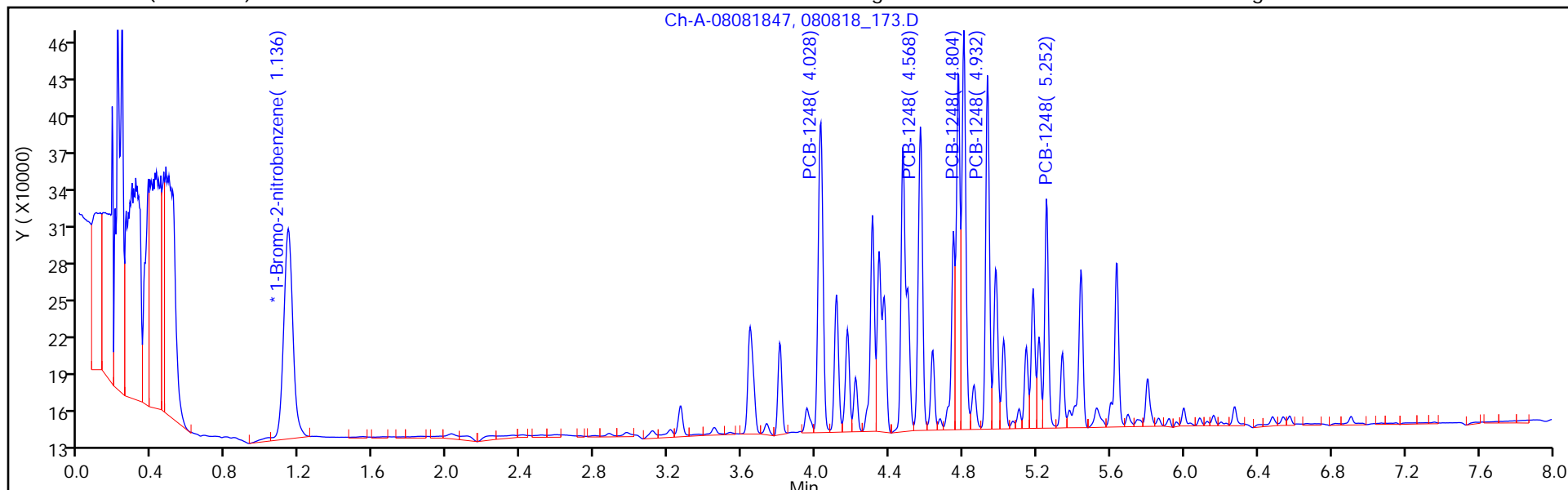
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

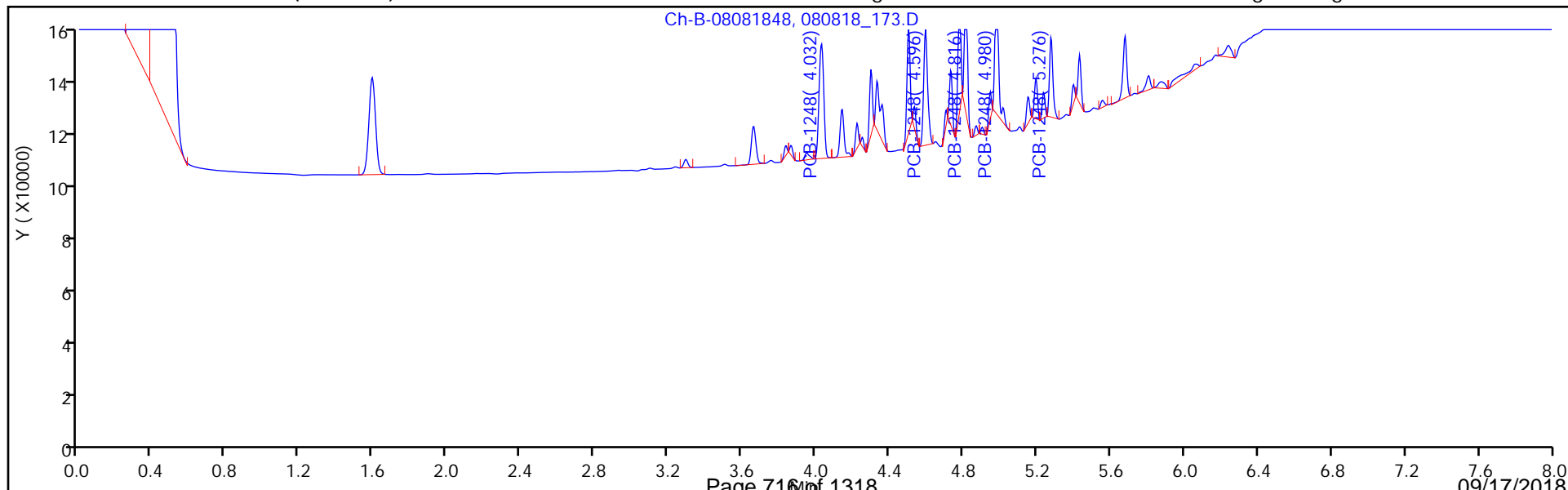
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:37 Calibration End Date: 08/16/2018 11:37 Calibration ID: 29716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/11	080818_174.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	0.0327				Ave		0.0327						20.0			
PCB-1242 Peak 2	0.0316				Ave		0.0316						20.0			
PCB-1242 Peak 3	0.0841				Ave		0.0841						20.0			
PCB-1242 Peak 4	0.0420				Ave		0.0420						20.0			
PCB-1242 Peak 5	0.0369				Ave		0.0369						20.0			
PCB-1268 Peak 1	0.2935				Ave		0.2935						20.0			
PCB-1268 Peak 2	0.3047				Ave		0.3047						20.0			
PCB-1268 Peak 3	0.2651				Ave		0.2651						20.0			
PCB-1268 Peak 4	0.0646				Ave		0.0646						20.0			
PCB-1268 Peak 5	0.1059				Ave		0.1059						20.0			

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:37 Calibration End Date: 08/16/2018 11:37 Calibration ID: 29716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/11	080818_174.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	132515					0.500				
PCB-1242 Peak 2	BNB	Ave	127985					0.500				
PCB-1242 Peak 3	BNB	Ave	340865					0.500				
PCB-1242 Peak 4	BNB	Ave	170402					0.500				
PCB-1242 Peak 5	BNB	Ave	149429					0.500				
PCB-1268 Peak 1	BNB	Ave	1189588					0.500				
PCB-1268 Peak 2	BNB	Ave	1235035					0.500				
PCB-1268 Peak 3	BNB	Ave	1074388					0.500				
PCB-1268 Peak 4	BNB	Ave	262027					0.500				
PCB-1268 Peak 5	BNB	Ave	429211					0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_174.D
 Lims ID: IC AR4268
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2018 11:37:01 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-011
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub25

Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:37 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 11:37:01
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 11:52:19
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 12:54:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.136	1.140	-0.004	162134H	0.0200	0.0200	
2	1.592	1.592	0.000	38806H	0.0200	0.0200	
						RPD = 0.00	

14 PCB-1242

1	3.644	3.644	0.000	132515H	0.5000	0.5000	
1	3.804	3.804	0.000	127985H	0.5000	0.5000	
1	4.028	4.028	0.000	340865H	0.5000	0.5000	
1	4.112	4.112	0.000	170402H	0.5000	0.5000	
1	4.568	4.568	0.000	149429H	0.5000	0.5000	
						Average of Peak Amounts =	0.5000
2	3.664	3.664	0.000	24750H	0.5000	0.5000	
2	4.032	4.032	0.000	61877H	0.5000	0.5000	
2	4.144	4.144	0.000	28446H	0.5000	0.5000	
2	4.596	4.596	0.000	24132H	0.5000	0.5000	
2	4.816	4.816	0.000	27396H	0.5000	0.5000	
						Average of Peak Amounts =	0.5000
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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16 PCB-1268

1	6.536	6.536	0.000	1189588H	0.5000	0.5000	
1	6.572	6.572	0.000	1235035H	0.5000	0.5000	
1	6.768	6.768	0.000	1074388H	0.5000	0.5000	
1	6.824	6.824	0.000	262027H	0.5000	0.5000	
1	6.908	6.908	0.000	429211H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	6.484	6.484	0.000	206788H	0.5000	0.5000	
2	6.516	6.516	0.000	212526H	0.5000	0.5000	
2	6.692	6.692	0.000	213644H	0.5000	0.5000	
2	6.760	6.760	0.000	50887H	0.5000	0.5000	
2	6.880	6.880	0.000	91681H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	

RPD = 0.00

S 12 Polychlorinated biphenyls, Total

1						0.5000	
Average of Peak Amounts =						0.5000	

Reagents:

AR4268-4_00005	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_174.D

Injection Date: 16-Aug-2018 11:37:01

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR4268

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

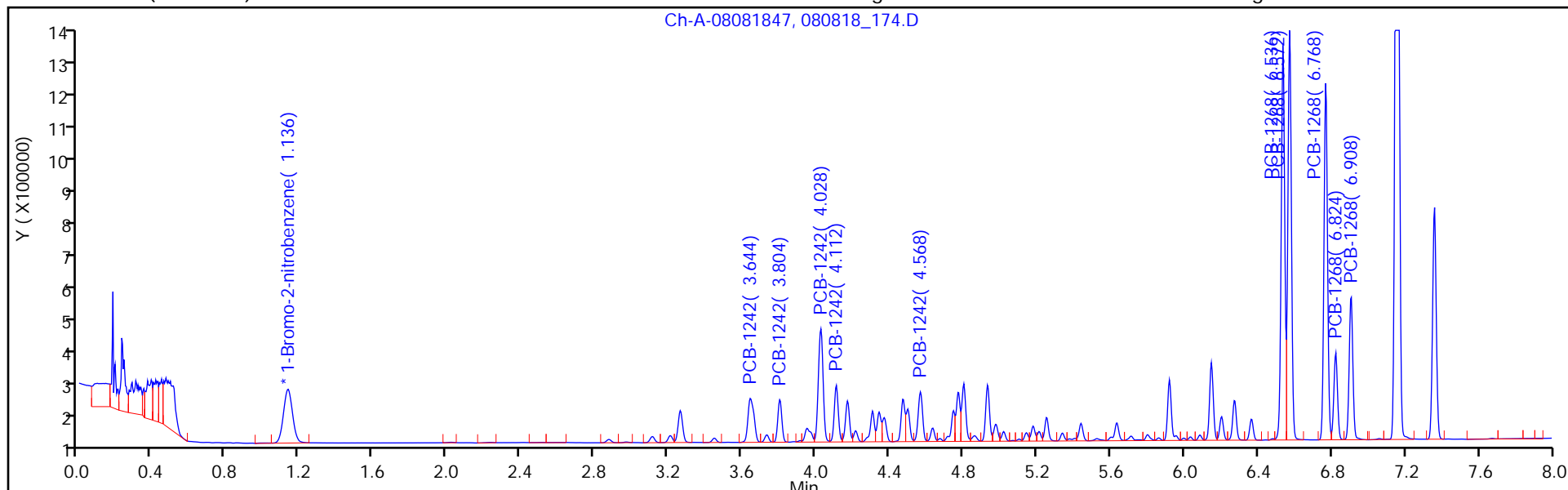
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

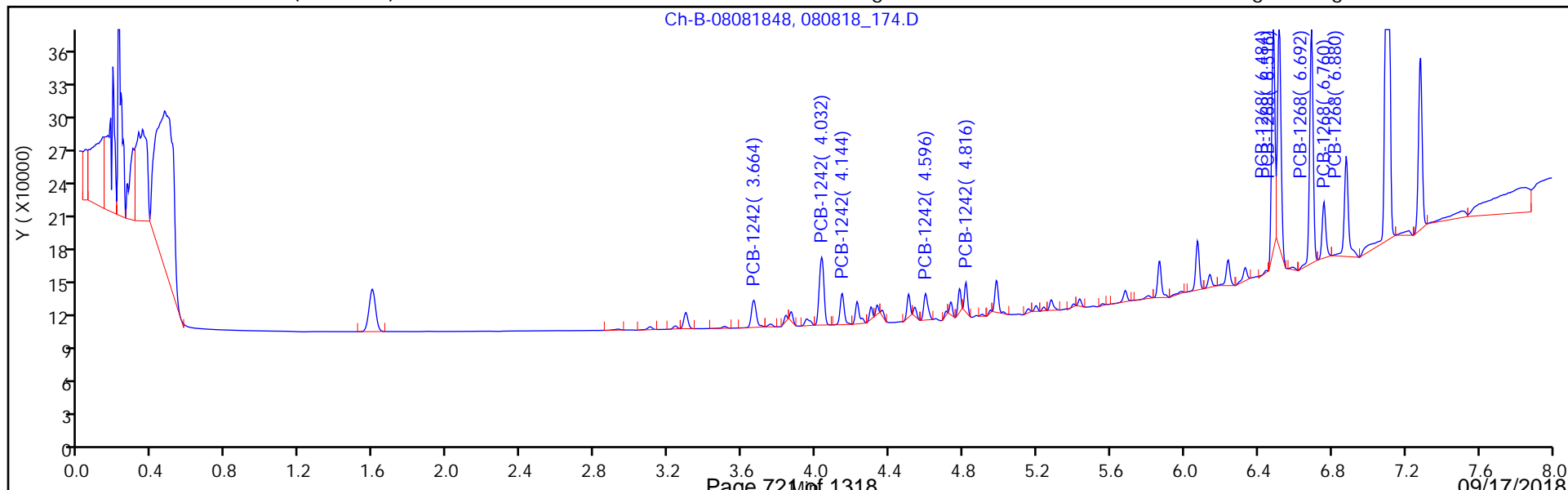
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:52 Calibration End Date: 08/16/2018 11:52 Calibration ID: 29720

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/12	080818_175.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	0.0334				Ave		0.0334						20.0			
PCB-1232 Peak 2	0.0206				Ave		0.0206						20.0			
PCB-1232 Peak 3	0.0499				Ave		0.0499						20.0			
PCB-1232 Peak 4	0.0204				Ave		0.0204						20.0			
PCB-1232 Peak 5	0.0297				Ave		0.0297						20.0			
PCB-1262 Peak 1	0.1125				Ave		0.1125						20.0			
PCB-1262 Peak 2	0.0981				Ave		0.0981						20.0			
PCB-1262 Peak 3	0.2369				Ave		0.2369						20.0			
PCB-1262 Peak 4	0.1144				Ave		0.1144						20.0			

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 Chicago Job No.: 500-150867-1 Analy Batch No.: 445590

SDG No.: _____

Instrument ID: INST47-48 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2018 11:52 Calibration End Date: 08/16/2018 11:52 Calibration ID: 29720

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445590/12	080818_175.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)					
			LVL 1						LVL 1				
PCB-1232 Peak 1	BNB	Ave	133468						0.500				
PCB-1232 Peak 2	BNB	Ave	82361						0.500				
PCB-1232 Peak 3	BNB	Ave	199396						0.500				
PCB-1232 Peak 4	BNB	Ave	81511						0.500				
PCB-1232 Peak 5	BNB	Ave	118662						0.500				
PCB-1262 Peak 1	BNB	Ave	449828						0.500				
PCB-1262 Peak 2	BNB	Ave	392036						0.500				
PCB-1262 Peak 3	BNB	Ave	947118						0.500				
PCB-1262 Peak 4	BNB	Ave	457463						0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Lims ID: IC AR3262
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2018 11:52:19 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-012
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub24
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:21:39 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1: ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 11:52:19
 Column 2: ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 12:07:53
 Process Host: XAWRK005

First Level Reviewer: hamnerb Date: 16-Aug-2018 12:59:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.136	1.140	-0.004	159891H	0.0200	0.0200	
2	1.588	1.592	-0.004	33075H	0.0200	0.0200	
						RPD = 0.00	

11 PCB-1232

1	3.264	3.264	0.000	133468H	0.5000	0.5000	
1	3.644	3.644	0.000	82361H	0.5000	0.5000	
1	4.028	4.028	0.000	199396H	0.5000	0.5000	
1	4.568	4.568	0.000	81511H	0.5000	0.5000	
1	4.804	4.804	0.000	118662H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.292	3.292	0.000	20033H	0.5000	0.5000	
2	3.664	3.664	0.000	12929H	0.5000	0.5000	
2	4.032	4.032	0.000	32533H	0.5000	0.5000	
2	4.596	4.596	0.000	11321H	0.5000	0.5000	
2	4.816	4.816	0.000	17647H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	5.920	5.920	0.000	449828H	0.5000	0.5000	
1	6.084	6.084	0.000	392036H	0.5000	0.5000	
1	6.272	6.272	0.000	947118H	0.5000	0.5000	
1	6.572	6.572	0.000	457463H	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.552	5.552	0.000	58417H	0.5000	0.5000	
2	5.672	5.672	0.000	38717H	0.5000	0.5000	
2	6.236	6.236	0.000	178424H	0.5000	0.5000	
2	6.488	6.488	0.000	103211H	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

S 12 Polychlorinated biphenyls, Total

1						0.5000	
							Average of Peak Amounts = 0.5000

Reagents:

AR3262-4_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Injection Date: 16-Aug-2018 11:52:19

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: IC AR3262

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

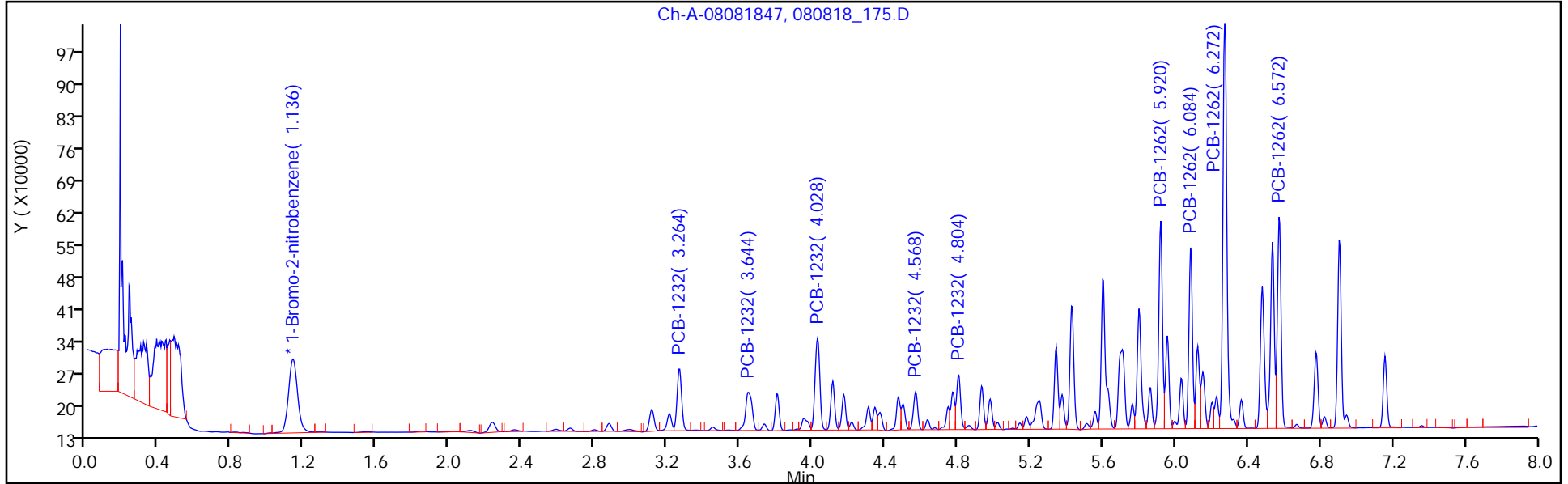
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

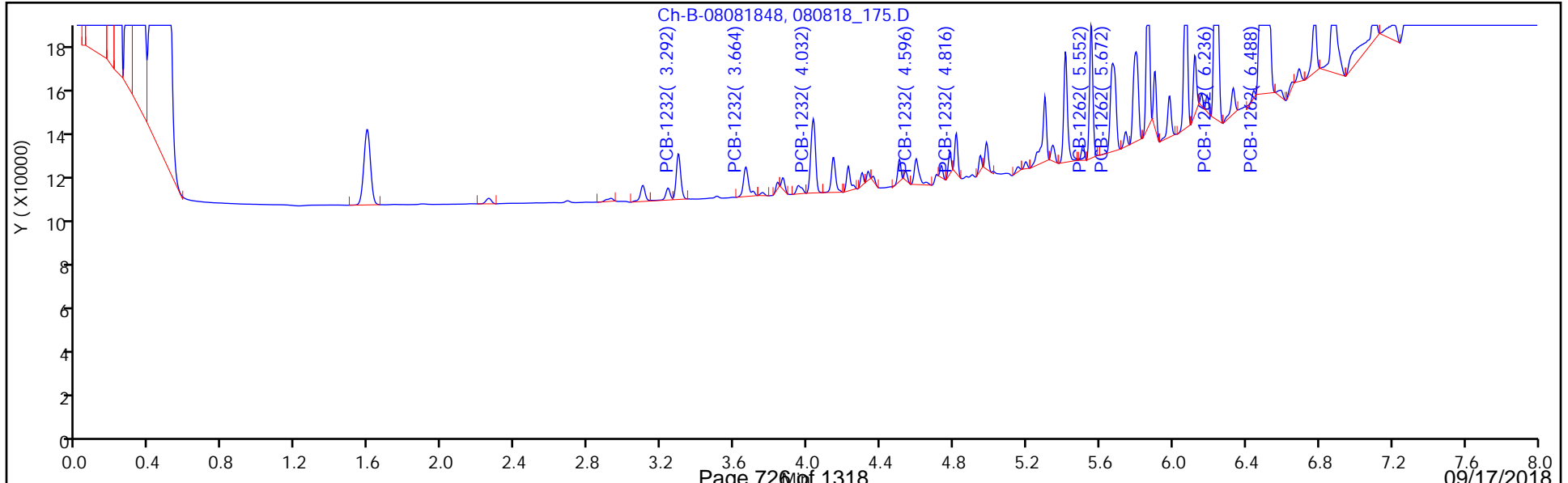
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-445590/7 Calibration Date: 08/16/2018 10:35
 Instrument ID: INST47-48 Calib Start Date: 08/16/2018 09:03
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 08/16/2018 10:20
 Lab File ID: 080818_170.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0909	0.0984		0.271	0.250	8.2	20.0
PCB-1016 Peak 2	Ave	0.0452	0.0502		0.278	0.250	11.0	20.0
PCB-1016 Peak 3	Ave	0.0327	0.0373		0.285	0.250	14.0	20.0
PCB-1016 Peak 4	Ave	0.0340	0.0369		0.271	0.250	8.3	20.0
PCB-1016 Peak 5	Ave	0.0405	0.0380		0.234	0.250	-6.3	20.0
PCB-1260 Peak 1	Ave	0.0950	0.0921		0.242	0.250	-3.0	20.0
PCB-1260 Peak 2	Ave	0.0488	0.0480		0.246	0.250	-1.7	20.0
PCB-1260 Peak 3	Ave	0.0639	0.0762		0.298	0.250	19.2	20.0
PCB-1260 Peak 4	Ave	0.1624	0.1924		0.296	0.250	18.4	20.0
PCB-1260 Peak 5	Ave	0.0869	0.0898		0.258	0.250	3.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICV 500-445590/7 Calibration Date: 08/16/2018 10:35
 Instrument ID: INST47-48 Calib Start Date: 08/16/2018 09:03
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 08/16/2018 10:20
 Lab File ID: 080818_170.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.03	4.00	4.06
PCB-1016 Peak 2	4.11	4.08	4.14
PCB-1016 Peak 3	4.17	4.14	4.20
PCB-1016 Peak 4	4.47	4.44	4.50
PCB-1016 Peak 5	4.57	4.54	4.60
PCB-1260 Peak 1	5.60	5.57	5.63
PCB-1260 Peak 2	5.70	5.67	5.73
PCB-1260 Peak 3	6.08	6.05	6.11
PCB-1260 Peak 4	6.27	6.24	6.30
PCB-1260 Peak 5	6.48	6.45	6.51

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_170.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2018 10:35:29 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 080818,pcb47,500-0054381-007
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist:

Method: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 16-Aug-2018 13:39:01 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 16-Aug-2018 10:35:29
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 16-Aug-2018 10:50:46
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 16-Aug-2018 15:06:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.136	1.136	0.000	161246H	0.0200	0.0200	
2	1.596	1.592	0.004	32474H	0.0200	0.0200	
						RPD = 0.00	

1 PCB-1016

1	4.028	4.028	0.000	198360H	0.2500	0.2705	
1	4.112	4.112	0.000	101129H	0.2500	0.2775	
1	4.172	4.172	0.000	75103H	0.2500	0.2850	
1	4.472	4.472	0.000	74279H	0.2500	0.2709	
1	4.568	4.568	0.000	76520H	0.2500	0.2344	
Average of Peak Amounts =						0.2677	
2	3.664	3.664	0.000	11616H	0.2500	0.2738	
2	4.032	4.032	0.000	30915H	0.2500	0.2781	
2	4.144	4.144	0.000	15328H	0.2500	0.2697	
2	4.504	4.504	0.000	10251H	0.2500	0.2779	
2	4.596	4.596	0.000	10695H	0.2500	0.2509	
Average of Peak Amounts =						0.2701	
						RPD = 0.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260							M
1	5.600	5.600	0.000	185656H	0.2500	0.2425	
1	5.696	5.696	0.000	96673H	0.2500	0.2458	
1	6.084	6.084	0.000	153566H	0.2500	0.2980	
1	6.272	6.272	0.000	387791H	0.2500	0.2961	
1	6.480	6.480	0.000	181020H	0.2500	0.2582	
Average of Peak Amounts =						0.2681	
2	5.412	5.412	0.000	24055H	0.2500	0.2572	
2	5.552	5.552	0.000	32068H	0.2500	0.2577	
2	5.668	5.668	0.000	22416H	0.2500	0.2456	
2	6.236	6.236	0.000	65446H	0.2500	0.2992	M
2	6.492	6.492	0.000	34958H	0.2500	0.2838	
Average of Peak Amounts =						0.2687	
RPD = 0.22							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ICV1660-3_00050

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_170.D

Injection Date: 16-Aug-2018 10:35:29

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: ICV

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

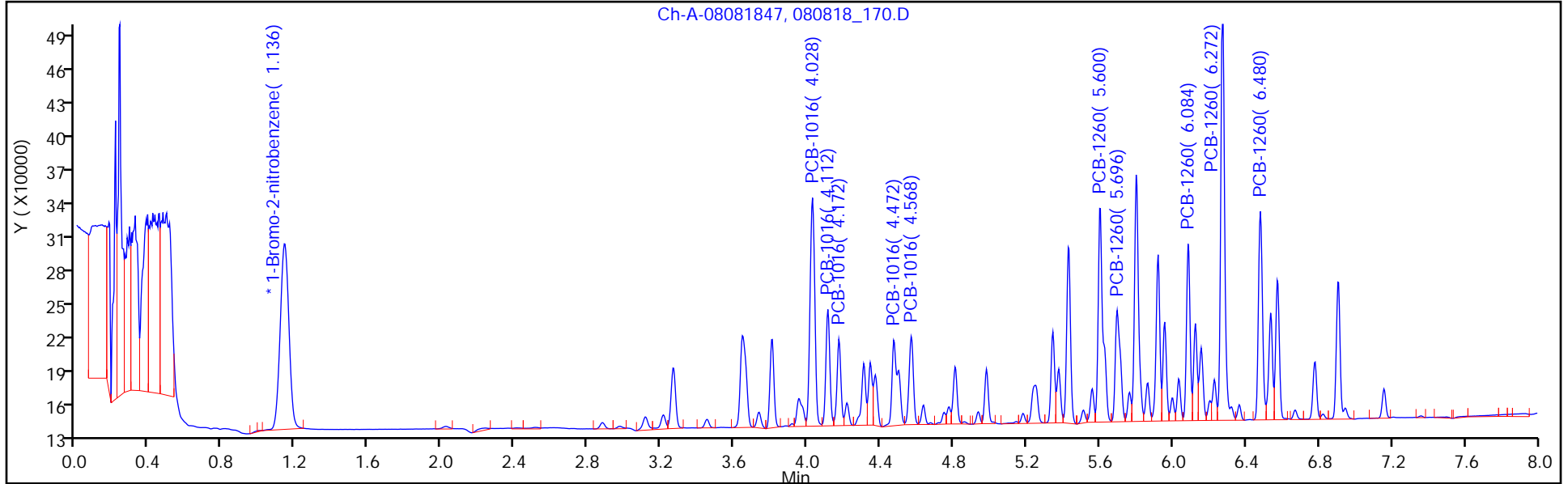
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

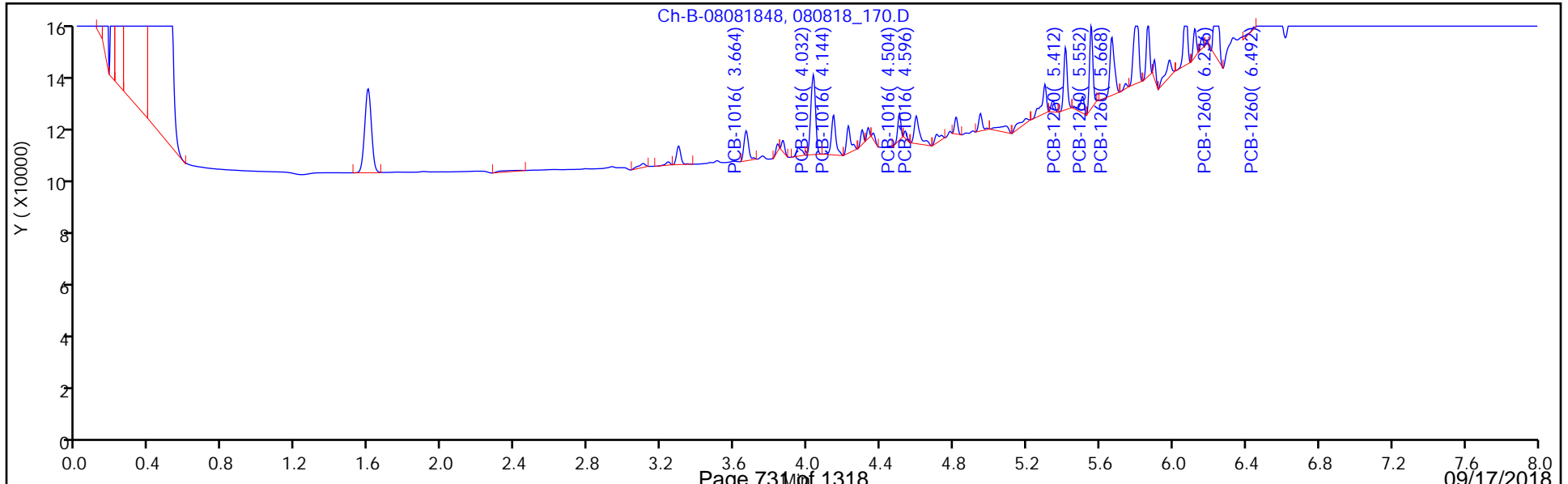
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448400/1 Calibration Date: 09/05/2018 09:59
 Instrument ID: INST47-48 Calib Start Date: 08/16/2018 09:03
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 08/16/2018 10:20
 Lab File ID: 083118_081.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0909	0.0810		0.445	0.500	-10.9	20.0
PCB-1016 Peak 2	Ave	0.0452	0.0406		0.449	0.500	-10.2	20.0
PCB-1016 Peak 3	Ave	0.0327	0.0299		0.458	0.500	-8.5	20.0
PCB-1016 Peak 4	Ave	0.0340	0.0292		0.429	0.500	-14.2	20.0
PCB-1016 Peak 5	Ave	0.0405	0.0367		0.453	0.500	-9.5	20.0
PCB-1260 Peak 1	Ave	0.0950	0.0892		0.470	0.500	-6.1	20.0
PCB-1260 Peak 2	Ave	0.0488	0.0445		0.456	0.500	-8.8	20.0
PCB-1260 Peak 3	Ave	0.0639	0.0590		0.462	0.500	-7.6	20.0
PCB-1260 Peak 4	Ave	0.1624	0.1542		0.475	0.500	-5.1	20.0
PCB-1260 Peak 5	Ave	0.0869	0.0800		0.460	0.500	-8.0	20.0
Tetrachloro-m-xylene	Ave	1.335	1.172		0.0351	0.0400	-12.2	20.0
DCB Decachlorobiphenyl	Ave	1.989	1.999		0.0402	0.0400	0.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448400/1 Calibration Date: 09/05/2018 09:59
 Instrument ID: INST47-48 Calib Start Date: 08/16/2018 09:03
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 08/16/2018 10:20
 Lab File ID: 083118_081.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.02	3.99	4.05
PCB-1016 Peak 2	4.10	4.07	4.13
PCB-1016 Peak 3	4.16	4.13	4.19
PCB-1016 Peak 4	4.46	4.43	4.49
PCB-1016 Peak 5	4.55	4.52	4.58
PCB-1260 Peak 1	5.58	5.55	5.61
PCB-1260 Peak 2	5.67	5.64	5.70
PCB-1260 Peak 3	6.06	6.03	6.09
PCB-1260 Peak 4	6.25	6.22	6.28
PCB-1260 Peak 5	6.45	6.42	6.48
Tetrachloro-m-xylene	2.88	2.85	2.91
DCB Decachlorobiphenyl	7.33	7.30	7.36

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_081.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Sep-2018 09:59:54 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-001
 Operator ID: hamnerb Instrument ID: INST47-48
 Sublist: chrom-8082IS_47-48*sub17
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 10:32:58 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 09:59:54
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 10:15:12
 Process Host: XAWRK002

First Level Reviewer: hamnerb Date: 05-Sep-2018 10:32:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene							
1	1.144	1.144	0.000	236179H	0.0200	0.0200	
2	1.584	1.584	0.000	53159H	0.0200	0.0200	
						RPD = 0.00	
\$ 4 Tetrachloro-m-xylene							
1	2.884	2.884	0.000	553699H	0.0400	0.0351	
2	2.740	2.740	0.000	101873H	0.0400	0.0388	
						RPD = 9.91	
1 PCB-1016							
1	4.016	4.016	0.000	478346H	0.5000	0.4454	
1	4.096	4.096	0.000	239741H	0.5000	0.4492	
1	4.156	4.156	0.000	176633H	0.5000	0.4577	
1	4.456	4.456	0.000	172244H	0.5000	0.4288	M
1	4.552	4.552	0.000	216448H	0.5000	0.4526	
Average of Peak Amounts =						0.4467	
2	3.644	3.644	0.000	32098H	0.5000	0.4622	
2	4.008	4.008	0.000	93321H	0.5000	0.5129	
2	4.120	4.120	0.000	43115H	0.5000	0.4634	
2	4.480	4.480	0.000	29464H	0.5000	0.4879	M
2	4.572	4.572	0.000	35400H	0.5000	0.5073	
Average of Peak Amounts =						0.4867	
						RPD = 8.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260

1	5.580	5.580	0.000	526719H	0.5000	0.4697	
1	5.672	5.672	0.000	262722H	0.5000	0.4561	
1	6.060	6.060	0.000	348605H	0.5000	0.4618	
1	6.248	6.248	0.000	910541H	0.5000	0.4746	
1	6.452	6.452	0.000	472309H	0.5000	0.4600	

Average of Peak Amounts = 0.4644

2	5.388	5.388	0.000	78971H	0.5000	0.5159	
2	5.528	5.528	0.000	96448H	0.5000	0.4734	
2	5.640	5.640	0.000	77406H	0.5000	0.5181	
2	6.208	6.208	0.000	190828H	0.5000	0.5329	
2	6.460	6.460	0.000	104951H	0.5000	0.5205	

Average of Peak Amounts = 0.5122

RPD = 9.77

8 1260 Res 1

1		6.480			ND	ND	
2		0.000					

2 1260 Res 2

1		6.536			ND	ND	
2		0.000					

5 1260 Res 3

1	6.548	6.548	0.000	262561H	0.5000	0.4352	
2	0.020	0.020	0.000	61156H	0.5000	0.0426	

RPD = 164.32

\$ 10 DCB Decachlorobiphenyl

1	7.332	7.332	0.000	944099H	0.0400	0.0402	
2	7.248	7.248	0.000	197450H	0.0400	0.0416	

RPD = 3.56

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

M - Manually Integrated

Reagents:

AR1660CCV4_00207

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_081.D

Injection Date: 05-Sep-2018 09:59:54

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: CCVIS

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

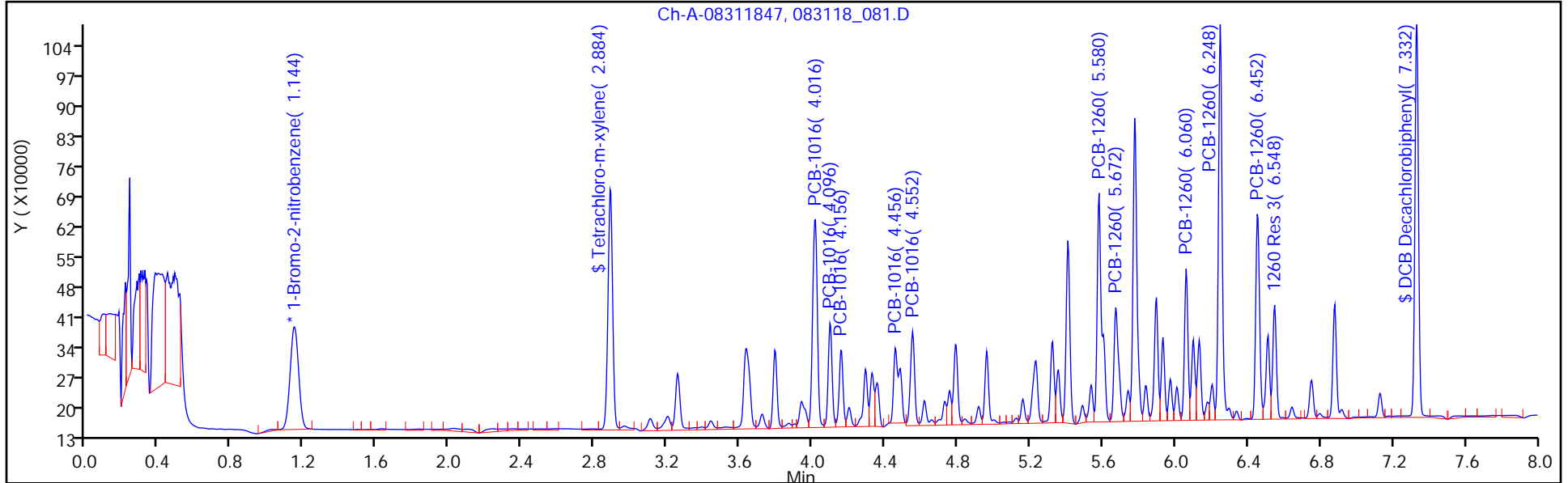
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

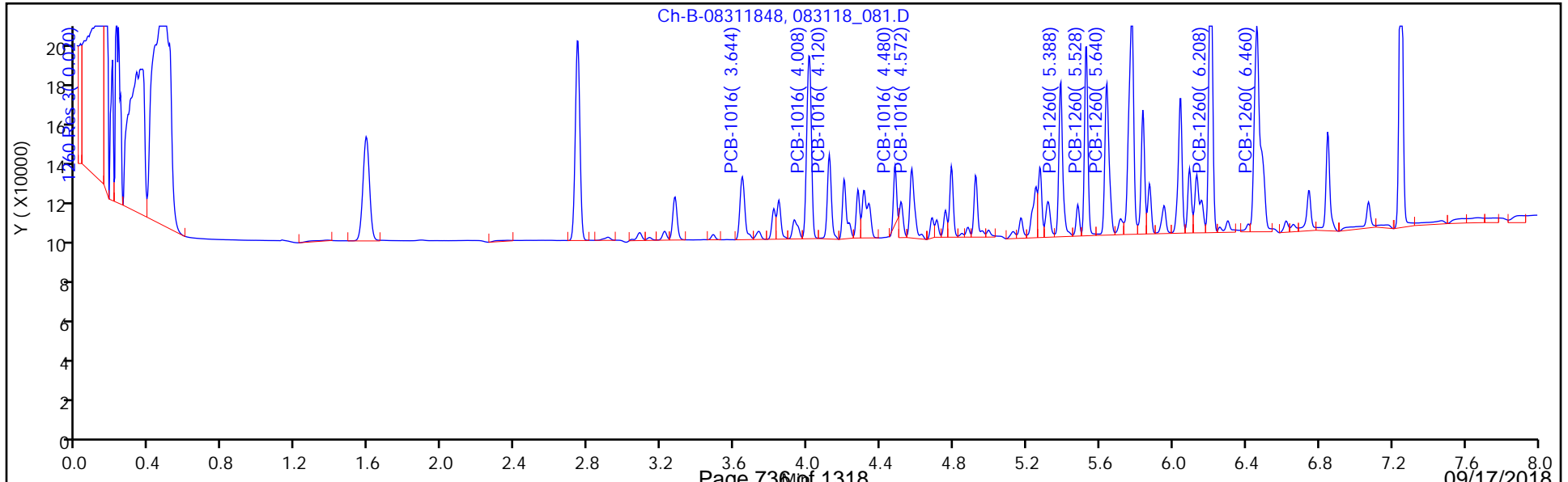
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_081.D

Injection Date: 05-Sep-2018 09:59:54

Instrument ID: INST47-48

Lims ID: CCVIS

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

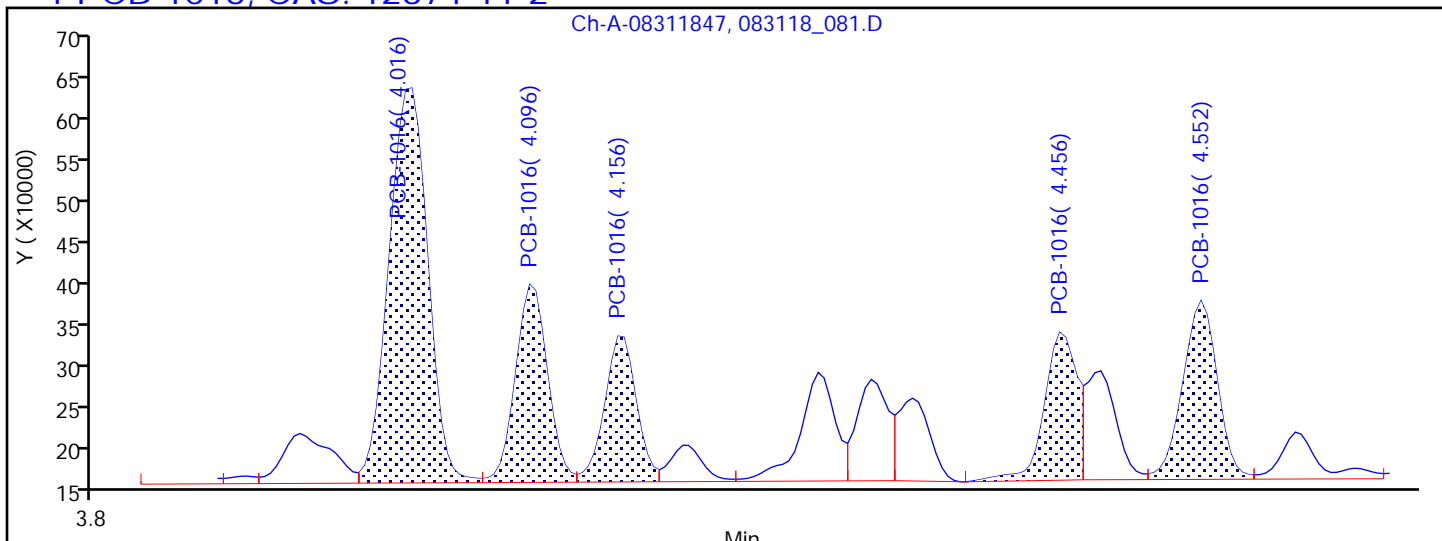
Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.50 mm)

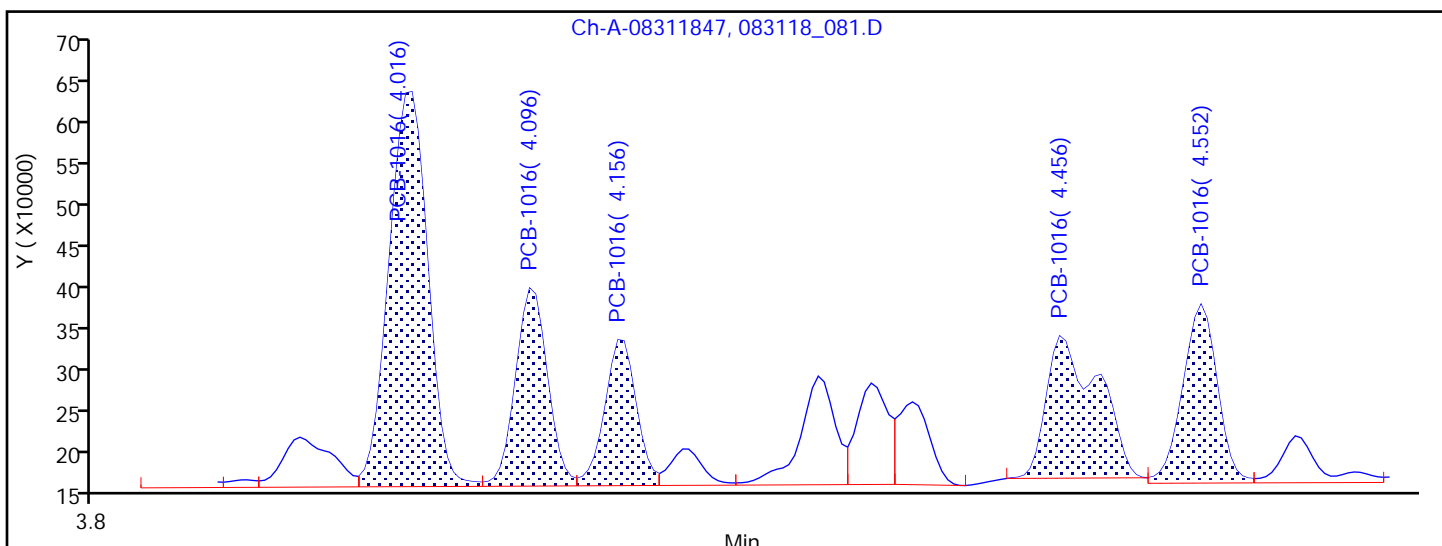
Detector: Ch-A-04091547

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.016	Response = 478346
4.096	Response = 239741
4.156	Response = 176633
4.456	Response = 179178
4.552	Response = 216448



Manual Integration Results

4.016	Response = 478346
4.096	Response = 239741
4.156	Response = 176633
4.456	Response = 172244
4.552	Response = 216448

M

Reviewer: hamnerb, 05-Sep-2018 10:31:06

Audit Action: Manually Integrated

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-448233/1-A
 Matrix: Solid Lab File ID: 083118_082.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3541 Date Extracted: 09/04/2018 11:14
 Sample wt/vol: 15.0000 (g) Date Analyzed: 09/05/2018 10:15
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448400 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
12674-11-2	PCB-1016	<5.9		17	5.9
11104-28-2	PCB-1221	<7.3		17	7.3
11141-16-5	PCB-1232	<7.3		17	7.3
53469-21-9	PCB-1242	<5.5		17	5.5
12672-29-6	PCB-1248	<6.6		17	6.6
11097-69-1	PCB-1254	<3.6		17	3.6
11096-82-5	PCB-1260	<8.2		17	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		49-129
2051-24-3	DCB Decachlorobiphenyl	113		37-121

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_082.D
 Lims ID: MB 500-448233/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2018 10:15:12 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-002
 Operator ID: hamnerb Instrument ID: INST47-48
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 10:58:16 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 10:15:12
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 10:30:33
 Process Host: XAWRK002

First Level Reviewer: hamnerb Date: 05-Sep-2018 10:58:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene

1	1.152	1.144	0.008	189385H	0.0200	0.0200	
2	1.584	1.584	0.000	41820H	0.0200	0.0200	
							RPD = 0.00

\$ 4 Tetrachloro-m-xylene

1	2.888	2.884	0.004	416355H	0.0400	0.0329	
2	2.744	2.740	0.004	79970H	0.0400	0.0387	
							RPD = 16.09

6 PCB-1221

1		3.100				ND	
1		3.196					
1		3.252					
2		3.088					
2		3.224					
2		3.284					

11 PCB-1232

1		3.264				ND	U
1		3.644					
1		4.028					
1		4.568					
1		4.804					
2		3.292					
2		3.664					
2		4.032					
2		4.596					
2		4.816					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

14 PCB-1242

1	3.644					ND	U
1	3.804						
1	4.028						
1	4.112						
1	4.568						
2	3.664						
2	4.032						
2	4.144						
2	4.596						
2	4.816						

7 PCB-1248

1	4.008					ND	
1	4.540						
1	4.776						
1	4.904						
1	5.220						
2	4.024						
2	4.584						
2	4.800						
2	4.968						
2	5.264						

1 PCB-1016

1	4.016					ND	U
1	4.096						
1	4.156						
1	4.456						
1	4.552						
2	3.644						
2	4.008						
2	4.120						
2	4.480						
2	4.572						

13 PCB-1254

1	4.784					ND	U
1	4.952						
1	5.224						
1	5.408						
1	5.600						
2	4.800						
2	4.932						
2	5.260						
2	5.536						
2	5.656						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260							
							U
1		5.580				ND	
1		5.672					
1		6.060					
1		6.248					
1		6.452					
2		5.388					
2		5.528					
2		5.640					
2		6.208					
2		6.460					
9 PCB-1262							
							U
1		5.920				ND	
1		6.084					
1		6.272					
1		6.572					
2		5.552					
2		5.672					
2		6.236					
2		6.488					
8 1260 Res 1							
1		6.480				ND	
2		0.000					
2 1260 Res 2							
1		6.536				ND	
2		0.000					
5 1260 Res 3							
1		6.548				ND	
2		0.020					
16 PCB-1268							
							U
1		6.552				ND	
1		6.512					
1		6.748					
1		6.800					
1		6.884					
2		6.472					
2		6.504					
2		6.680					
2		6.748					
2		6.868					
\$ 10 DCB Decachlorobiphenyl							
1	7.328	7.332	-0.004	852334H	0.0400	0.0452	
2	7.252	7.248	0.004	179960H	0.0400	0.0482	
						RPD =	6.42
S 12 Polychlorinated biphenyls, Total							
1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_082.D

Injection Date: 05-Sep-2018 10:15:12

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: MB 500-448233/1-A

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

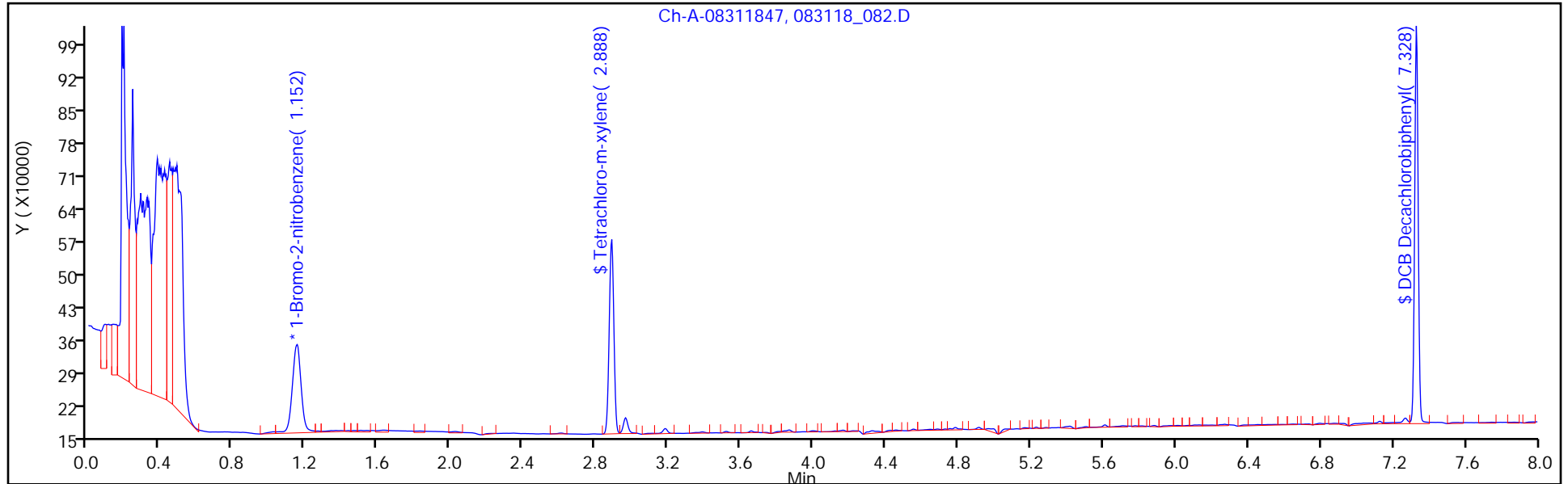
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

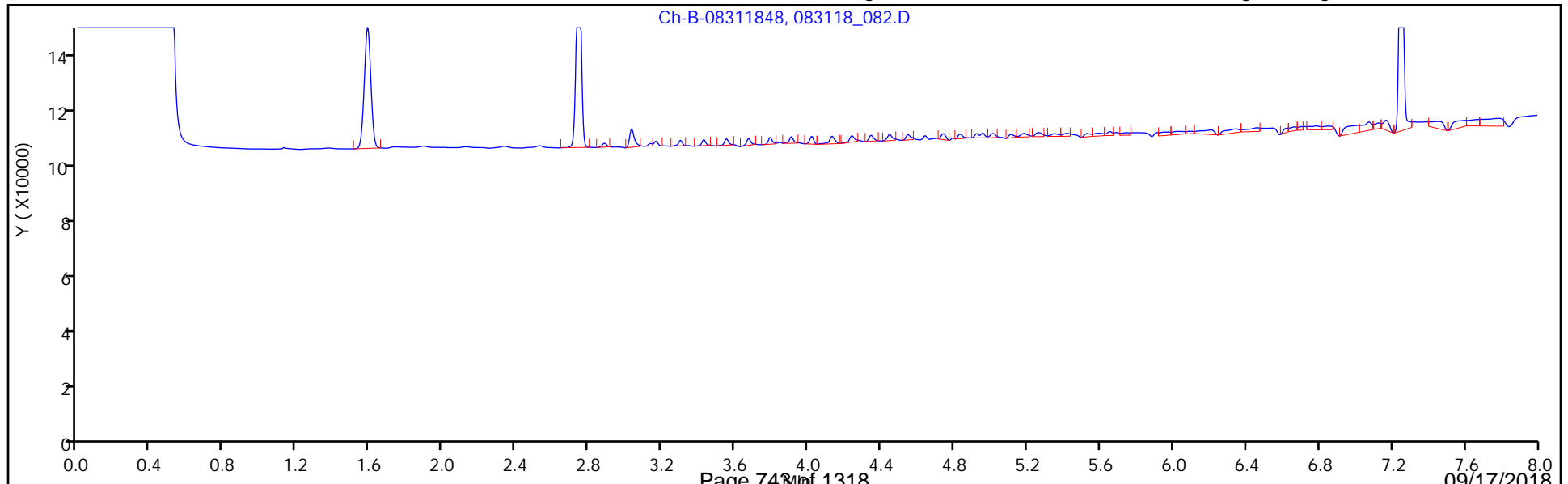
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_082.D
 Lims ID: MB 500-448233/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2018 10:15:12 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-002
 Operator ID: hamnerb Instrument ID: INST47-48
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 10:58:16 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 10:15:12
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 10:30:33
 Process Host: XAWRK002
 First Level Reviewer: hamnerb Date: 05-Sep-2018 10:58:16

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0329	82.31
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0452	113.11

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0387	96.72
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0482	120.61

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448233/2-A
 Matrix: Solid Lab File ID: 083118_083.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3541 Date Extracted: 09/04/2018 11:14
 Sample wt/vol: 15.0000 (g) Date Analyzed: 09/05/2018 10:30
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448400 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
12674-11-2	PCB-1016	171		17	5.9
11096-82-5	PCB-1260	173		17	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	85		49-129
2051-24-3	DCB Decachlorobiphenyl	104		37-121

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_083.D
 Lims ID: LCS 500-448233/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2018 10:30:33 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-003
 Operator ID: hamnerb Instrument ID: INST47-48
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 10:58:16 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 10:30:33
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 10:45:52
 Process Host: XAWRK002

First Level Reviewer: hamnerb Date: 05-Sep-2018 11:07:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene

1	1.152	1.144	0.008	192198H	0.0200	0.0200	
2	1.588	1.584	0.004	43875H	0.0200	0.0200	
						RPD = 0.00	

\$ 4 Tetrachloro-m-xylene

1	2.888	2.884	0.004	435710H	0.0400	0.0340	
2	2.744	2.740	0.004	82062H	0.0400	0.0378	
						RPD = 10.84	

1 PCB-1016

1	4.012	4.016	-0.004	431611H	0.5000	0.4938	
1	4.096	4.096	0.000	217697H	0.5000	0.5012	
1	4.156	4.156	0.000	160691H	0.5000	0.5117	
1	4.456	4.456	0.000	176237H	0.5000	0.5392	
1	4.552	4.552	0.000	204466H	0.5000	0.5254	
Average of Peak Amounts =						0.5143	
2	3.644	3.644	0.000	33184H	0.5000	0.5789	
2	4.008	4.008	0.000	78195H	0.5000	0.5207	
2	4.120	4.120	0.000	35579H	0.5000	0.4633	
2	4.480	4.480	0.000	33900H	0.5000	0.6802	
2	4.572	4.572	0.000	34163H	0.5000	0.5932	
Average of Peak Amounts =						0.5673	
						RPD = 9.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260

1	5.576	5.580	-0.004	441930H	0.5000	0.4842	
1	5.672	5.672	0.000	229351H	0.5000	0.4892	
1	6.060	6.060	0.000	340318H	0.5000	0.5540	
1	6.248	6.248	0.000	883910H	0.5000	0.5662	
1	6.452	6.452	0.000	420424H	0.5000	0.5032	

Average of Peak Amounts = 0.5194

2	5.388	5.388	0.000	68335H	0.5000	0.5409	
2	5.528	5.528	0.000	86727H	0.5000	0.5158	
2	5.640	5.640	0.000	65310H	0.5000	0.5296	
2	6.208	6.208	0.000	183710H	0.5000	0.6216	
2	6.460	6.460	0.000	99878H	0.5000	0.6001	

Average of Peak Amounts = 0.5616

RPD = 7.81

8 1260 Res 1

1		6.480			ND	ND	
2		0.000					

2 1260 Res 2

1		6.536			ND	ND	
2		0.000					

5 1260 Res 3

1		6.548			ND	ND	
2		0.020					

\$ 10 DCB Decachlorobiphenyl

1	7.328	7.332	-0.004	794551H	0.0400	0.0416	
2	7.252	7.248	0.004	165409H	0.0400	0.0423	

RPD = 1.69

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_083.D

Injection Date: 05-Sep-2018 10:30:33

Instrument ID: INST47-48

Operator ID: hamnerb

Lims ID: LCS 500-448233/2-A

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

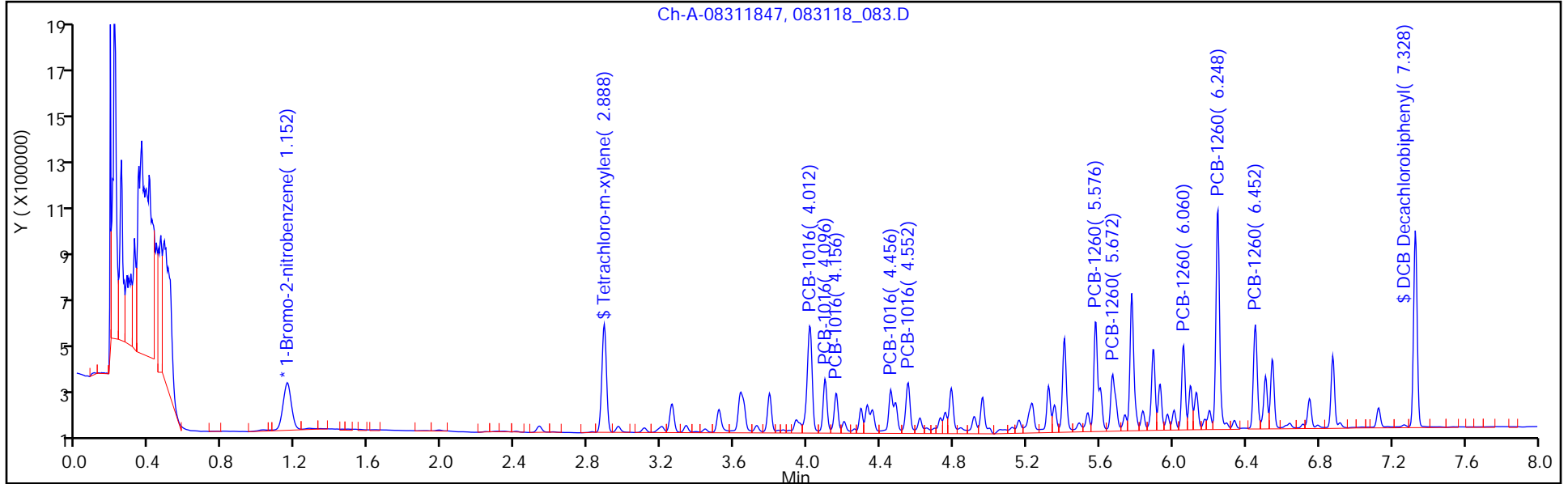
ALS Bottle#: 0

Method: 8082IS_47-48

Limit Group: GC_PCB_8082A_IS

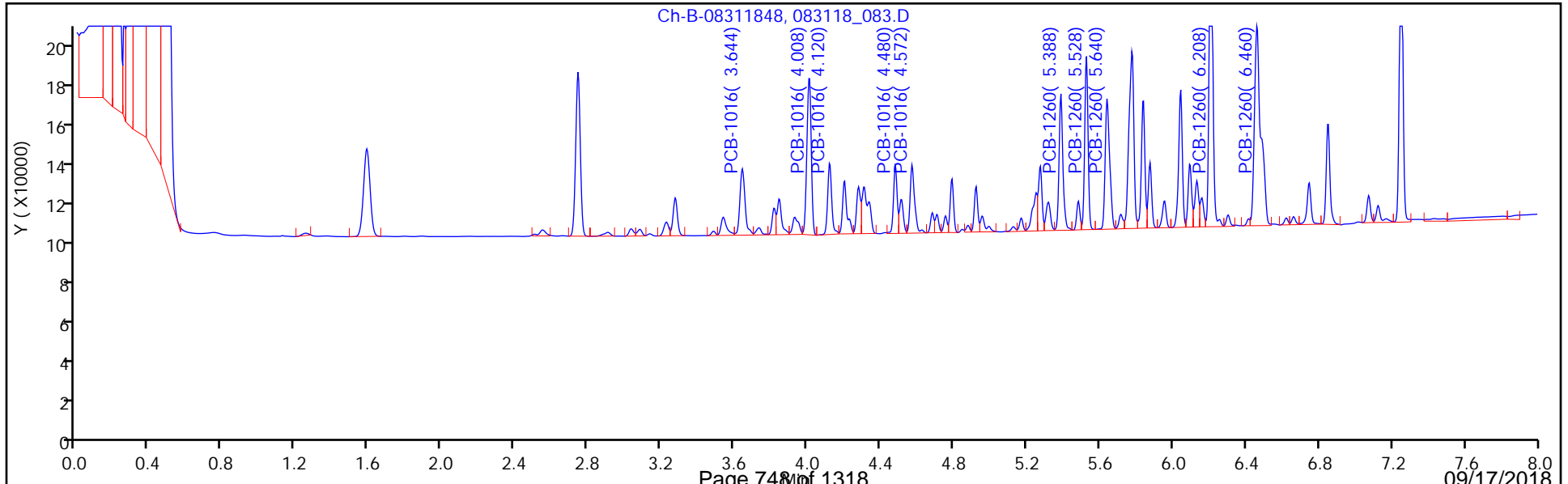
Column: ZB-5 (0.50 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 3



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_083.D
 Lims ID: LCS 500-448233/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2018 10:30:33 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 083118,pcb47,500-0054841-003
 Operator ID: hamnerb Instrument ID: INST47-48
 Method: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\8082IS_47-48.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 10:58:16 Calib Date: 16-Aug-2018 11:52:19
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC47-48\20180815-54381.b\080818_175.D
 Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 05-Sep-2018 10:30:33
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 10:45:52
 Process Host: XAWRK002
 First Level Reviewer: hamnerb Date: 05-Sep-2018 11:07:16

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0340	84.88
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0416	103.90

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0378	94.60
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0423	105.67

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_083.D

Injection Date: 05-Sep-2018 10:30:33

Instrument ID: INST47-48

Lims ID: LCS 500-448233/2-A

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082IS_47-48

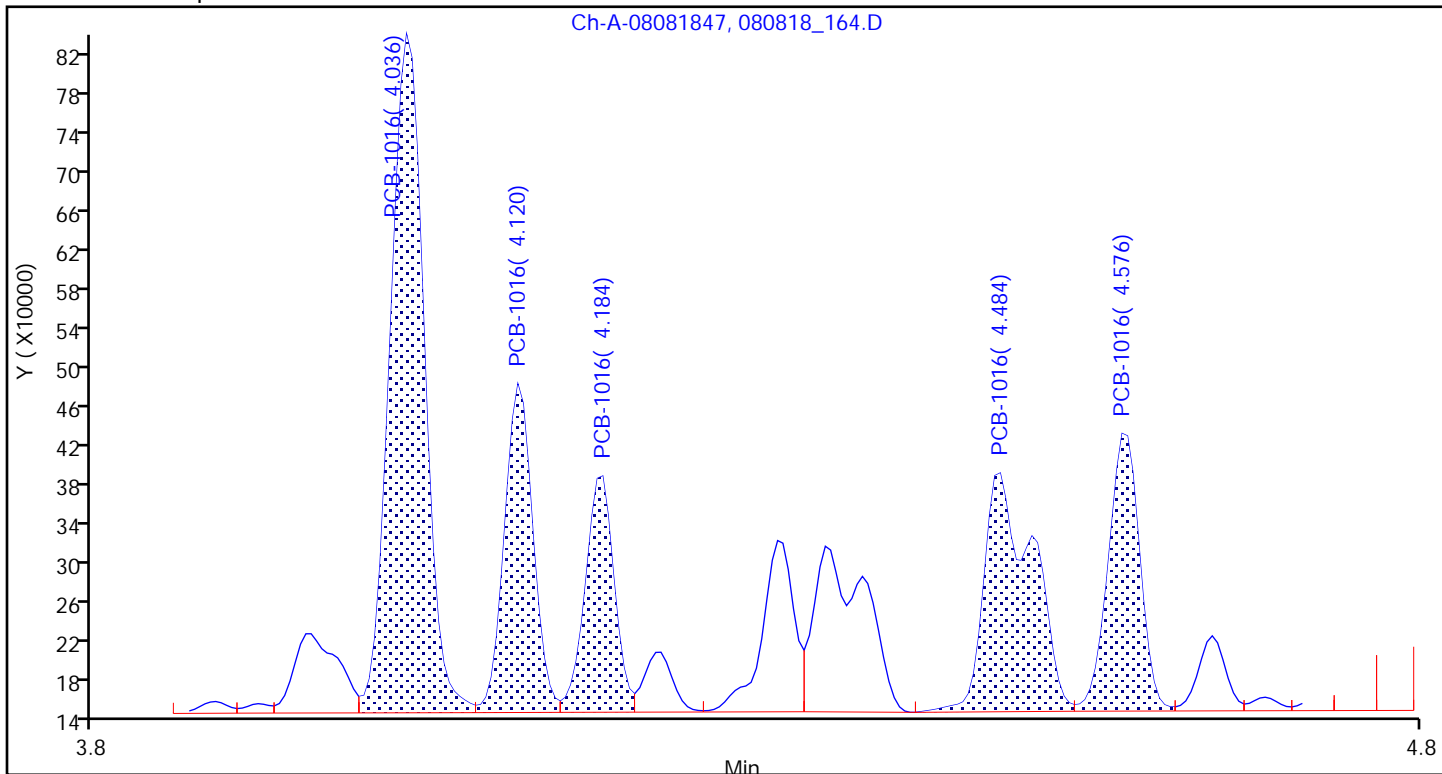
Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.50 mm)

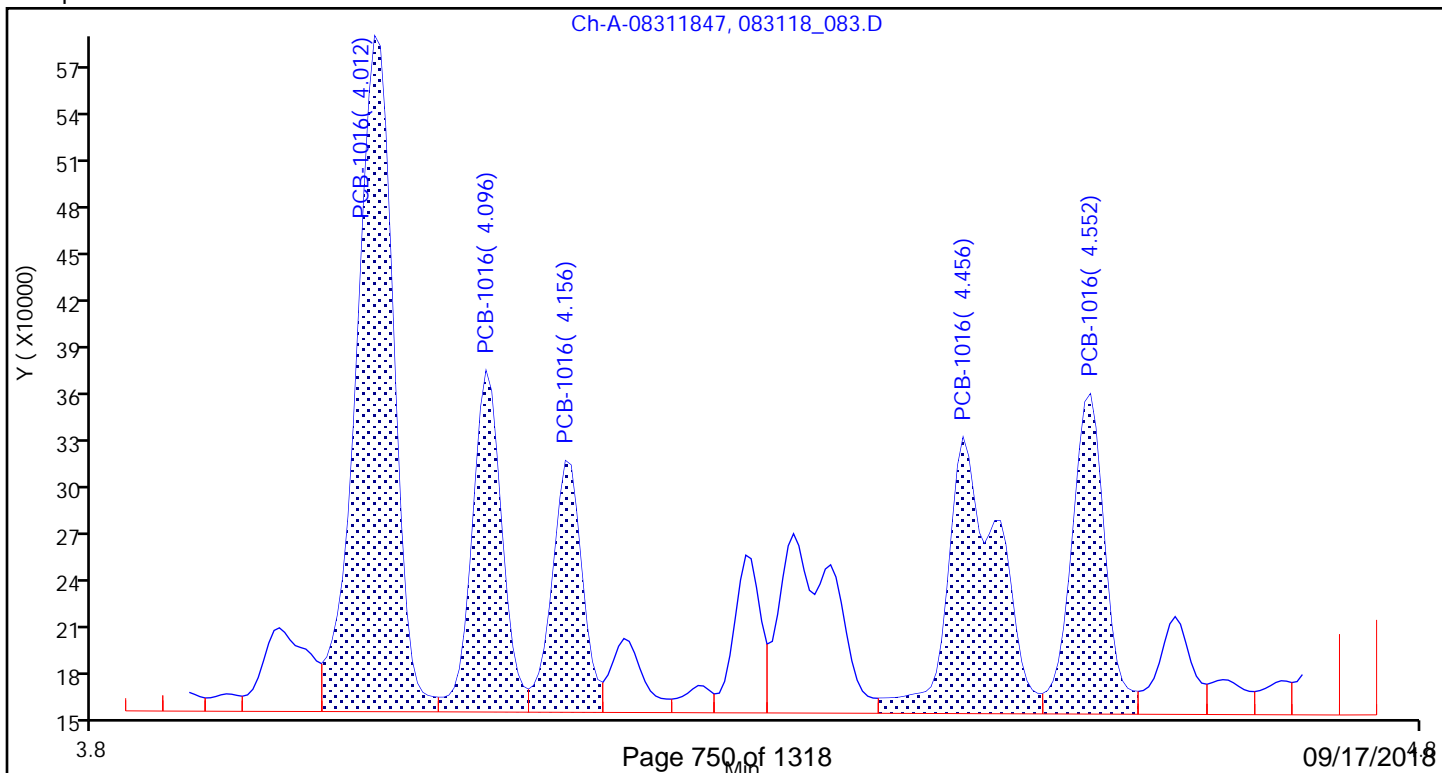
Detector: Ch-A-04091547

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC47-48\20180905-54841.b\083118_083.D

Injection Date: 05-Sep-2018 10:30:33

Instrument ID: INST47-48

Lims ID: LCS 500-448233/2-A

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082IS_47-48

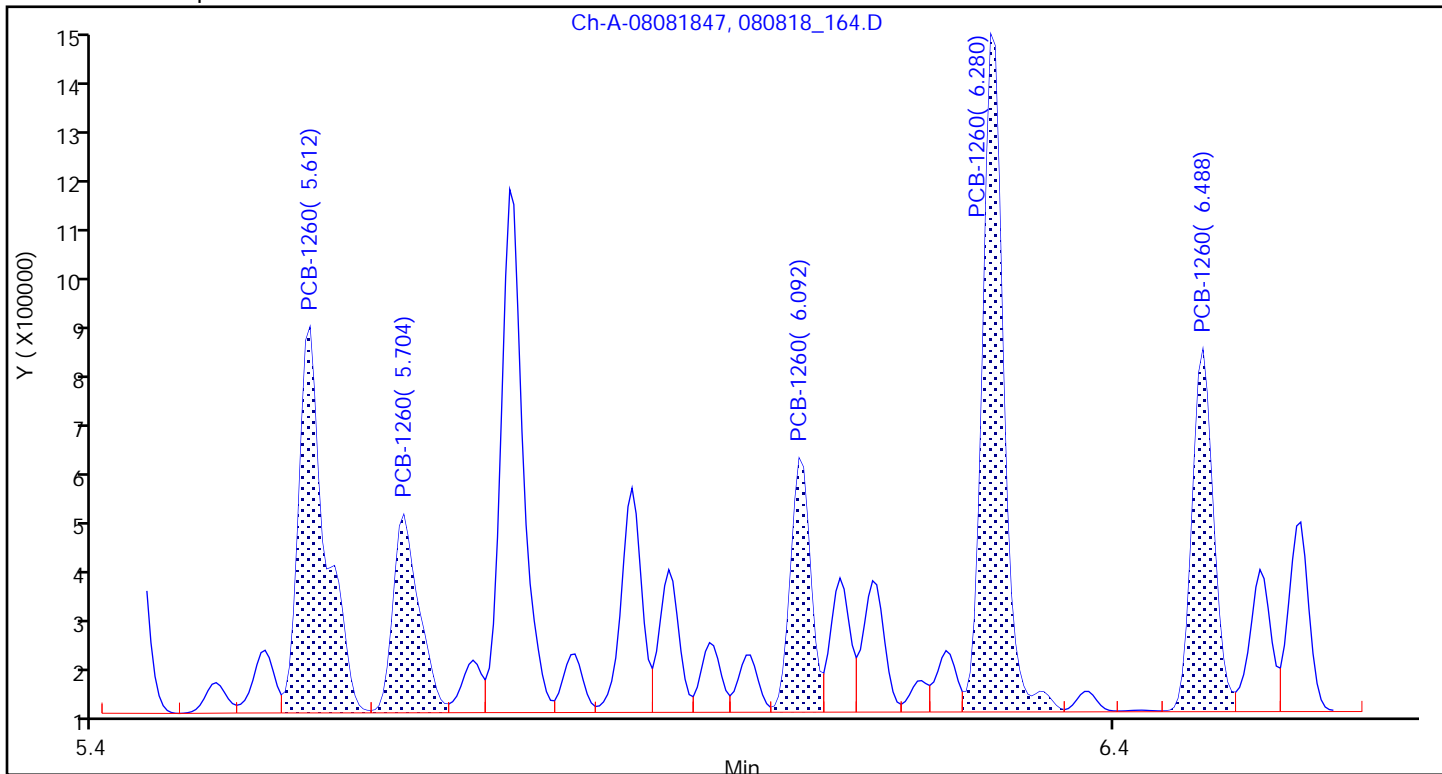
Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.50 mm)

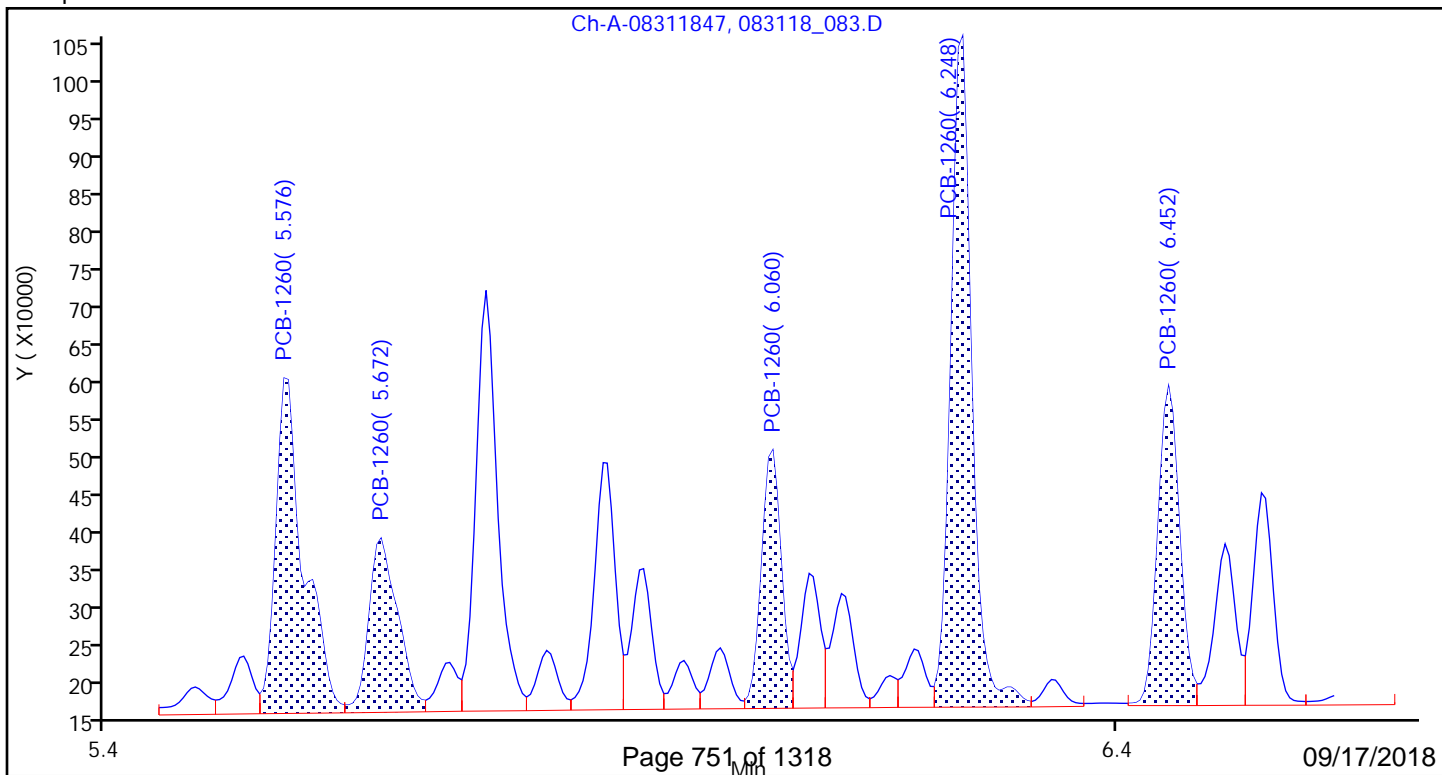
Detector: Ch-A-04091547

15 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: INST47-48 Start Date: 08/16/2018 09:03

Analysis Batch Number: 445590 End Date: 08/16/2018 11:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 500-445590/1		08/16/2018 09:03	1	080818_164.D	ZB-5 0.53 (mm)
IC 500-445590/1		08/16/2018 09:03	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/2		08/16/2018 09:18	1	080818_165.D	ZB-5 0.53 (mm)
IC 500-445590/2		08/16/2018 09:18	1		ZB-CLP-Pest2 0.53 (mm)
ICIS 500-445590/3		08/16/2018 09:33	1	080818_166.D	ZB-5 0.53 (mm)
ICIS 500-445590/3		08/16/2018 09:33	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/4		08/16/2018 09:49	1	080818_167.D	ZB-5 0.53 (mm)
IC 500-445590/4		08/16/2018 09:49	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/5		08/16/2018 10:04	1	080818_168.D	ZB-5 0.53 (mm)
IC 500-445590/5		08/16/2018 10:04	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/6		08/16/2018 10:20	1	080818_169.D	ZB-5 0.53 (mm)
IC 500-445590/6		08/16/2018 10:20	1		ZB-CLP-Pest2 0.53 (mm)
ICV 500-445590/7		08/16/2018 10:35	1	080818_170.D	ZB-5 0.53 (mm)
ICV 500-445590/7		08/16/2018 10:35	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/9		08/16/2018 11:06	1	080818_172.D	ZB-5 0.53 (mm)
IC 500-445590/9		08/16/2018 11:06	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/10		08/16/2018 11:21	1	080818_173.D	ZB-5 0.53 (mm)
IC 500-445590/10		08/16/2018 11:21	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/11		08/16/2018 11:37	1	080818_174.D	ZB-5 0.53 (mm)
IC 500-445590/11		08/16/2018 11:37	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-445590/12		08/16/2018 11:52	1	080818_175.D	ZB-5 0.53 (mm)
IC 500-445590/12		08/16/2018 11:52	1		ZB-CLP-Pest2 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: INST47-48 Start Date: 09/05/2018 09:59

Analysis Batch Number: 448400 End Date: 09/05/2018 10:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 500-448400/1		09/05/2018 09:59	1	083118_081.D	ZB-5 0.53 (mm)
CCVIS 500-448400/1		09/05/2018 09:59	1		ZB-CLP-Pest2 0.53 (mm)
MB 500-448233/1-A		09/05/2018 10:15	1	083118_082.D	ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 10:15	1		ZB-CLP-Pest2 0.53 (mm)
LCS 500-448233/2-A		09/05/2018 10:30	1	083118_083.D	ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 10:30	1		ZB-CLP-Pest2 0.53 (mm)
500-150867-4		09/05/2018 10:45	5	083118_084.D	ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 10:45	5		ZB-CLP-Pest2 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448233 Batch Start Date: 09/04/18 11:14 Batch Analyst: Corona, Dayamara X

Batch Method: 3541 Batch End Date: 09/04/18 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Position	EXCPPSUW 00979	EXPCBSPW66 00162	
MB 500-448233/1		3541, 8082A		15.0000 g	5.0 mL	25	500 uL		
LCS 500-448233/2		3541, 8082A		15.0000 g	5.0 mL	26	500 uL	500 uL	
500-150867-A-4	Total Solids	3541, 8082A	T	15.5640 g	5.0 mL	47	500 uL		

Batch Notes	
Acid used for Clean Up ID	4917702
Balance ID	C-1951
Blank Matrix ID	4908352
Analyst ID - Concentration	DC
Corrected Temperature	136.2, 135.1, 136.6, 134.0 Degrees C
Concentration 1 Corrected Temperature	30.0 Degrees C
Analyst ID - Clean Up	DC
Equipment ID - Concentration 1	C-0655
Exchange Solvent ID	Hexane: 4916155
Analyst ID - Extraction	DC
Extraction 1 End Time	09/04/2018 14:04
Extraction 1 Start Time	09/04/2018 12:04
Glass Wool ID	4634864
Na2SO4 ID	4908352
Pipette/Syringe/Dispenser ID	A99, A101
Prep Solvent ID	Hexane:Acteone 4923699
Soxtherm Unit ID	C-2290, C-2291, C-2292,C-2293.
Analyst ID - Spike Analyst	Dc
Sufficient Volume for Batch QC	Y
Thermometer ID - Concentration 1	VEEGEE 4
Thermometer ID	C2241, C-2484
Uncorrected Temperature	136.2, 135.1, 136.6, 134.0 Degrees C
Concentration 1 Uncorrected Temperature	30.0 Degrees C

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 Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448233 Batch Start Date: 09/04/18 11:14 Batch Analyst: Corona, Dayamara X

Batch Method: 3541 Batch End Date: 09/04/18 15:00

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.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

Project: Rock River Sediment Removal, Janesville

Client Sample ID	Lab Sample ID
R1	500-150867-1
G1-01	500-150867-2
G2-01	500-150867-3
Total Solids	500-150867-4

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: R1 _____

Lab Sample ID: 500-150867-1 _____

Lab Name: TestAmerica Chicago _____

Job No.: 500-150867-1 _____

SDG ID.: _____

Matrix: Water _____

Date Sampled: 08/31/2018 15:15 _____

Reporting Basis: WET _____

Date Received: 09/01/2018 10:28 _____

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7439-92-1	Lead	190	2.5	1.3	ug/L			1	200.7 Rev 4.4
7440-38-2	Arsenic	9.7	5.0	2.1	ug/L			1	200.7 Rev 4.4
7440-66-6	Zinc	340	10	3.6	ug/L			1	200.7 Rev 4.4

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: G1-01

Lab Sample ID: 500-150867-2

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG ID.: _____

Matrix: Water

Date Sampled: 08/31/2018 15:25

Reporting Basis: WET

Date Received: 09/01/2018 10:28

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7439-92-1	Lead	45	2.5	1.3	ug/L			1	200.7 Rev 4.4
7440-38-2	Arsenic	8.9	5.0	2.1	ug/L			1	200.7 Rev 4.4
7440-66-6	Zinc	95	10	3.6	ug/L			1	200.7 Rev 4.4

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: G2-01

Lab Sample ID: 500-150867-3

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG ID.: _____

Matrix: Water

Date Sampled: 08/31/2018 15:35

Reporting Basis: WET

Date Received: 09/01/2018 10:28

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7439-92-1	Lead	19	2.5	1.3	ug/L			1	200.7 Rev 4.4
7440-38-2	Arsenic	2.9	5.0	2.1	ug/L	J		1	200.7 Rev 4.4
7440-66-6	Zinc	120	10	3.6	ug/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Total Solids

Lab Sample ID: 500-150867-4

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/31/2018 15:50

Reporting Basis: DRY

Date Received: 09/01/2018 10:28

% Solids: 69.0

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.7	1.3	0.45	mg/Kg			1	6010B
7440-39-3	Barium	48	1.3	0.15	mg/Kg		B	1	6010B
7440-43-9	Cadmium	0.50	0.26	0.047	mg/Kg		B	1	6010B
7440-47-3	Chromium	9.9	1.3	0.65	mg/Kg			1	6010B
7439-92-1	Lead	71	0.65	0.30	mg/Kg			1	6010B
7782-49-2	Selenium	<0.77	1.3	0.77	mg/Kg			1	6010B
7440-22-4	Silver	<0.17	0.65	0.17	mg/Kg			1	6010B
7439-97-6	Mercury	4600	580	190	ug/Kg			25	7471B

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18HICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00002

Analyte	ICV 500-448353/7 09/04/2018 15:55				CCV 500-448353/52 09/04/2018 18:56				CCV 500-448353/64 09/04/2018 19:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.406		0.400	101	0.506		0.500	101	0.501		0.500	100
Barium	0.397		0.400	99	0.476		0.500	95	0.472		0.500	94
Cadmium	0.406		0.400	101	0.501		0.500	100	0.500		0.500	100
Chromium	0.390		0.400	97	0.482		0.500	96	0.485		0.500	97
Lead	0.402		0.400	101	0.495		0.500	99	0.495		0.500	99
Selenium	0.399		0.400	100	0.487		0.500	97	0.481		0.500	96
Zinc	0.394		0.400	98								
<i>Silver</i>	0.391		0.400	98	0.475		0.500	95	0.477		0.500	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18HICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00002

Analyte	CCV 500-448353/76 09/04/2018 20:34				CCV 500-448353/88 09/04/2018 21:23				CCV 500-448353/100 09/04/2018 22:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.501		0.500	100	0.495		0.500	99	0.515		0.500	103
Barium	0.468		0.500	94								
Cadmium	0.500		0.500	100								
Chromium	0.490		0.500	98								
Lead	0.497		0.500	99	0.496		0.500	99	0.492		0.500	98
Selenium	0.478		0.500	96								
Zinc					0.508		0.500	102	0.487		0.500	97
<i>Silver</i>	0.480		0.500	96								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18HICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00002

Analyte	CCV 500-448353/112 09/04/2018 23:02											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.513		0.500	103								
Barium												
Cadmium												
Chromium												
Lead	0.488		0.500	98								
Selenium												
Zinc	0.503		0.500	101								
<i>Silver</i>												

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18HICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00002

Analyte	ICV 500-448467/7 09/05/2018 12:23				CCV 500-448467/14 09/05/2018 12:51				CCV 500-448467/27 09/05/2018 13:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Silver	0.392		0.400	98	0.488		0.500	98	0.476		0.500	95
<i>Arsenic</i>	0.410		0.400	102	0.513		0.500	103	0.507		0.500	101
<i>Barium</i>	0.404		0.400	101	0.511		0.500	102	0.516		0.500	103
<i>Cadmium</i>	0.410		0.400	102	0.517		0.500	103	0.517		0.500	103
<i>Chromium</i>	0.398		0.400	100	0.501		0.500	100	0.513		0.500	103
<i>Lead</i>	0.413		0.400	103	0.527		0.500	105	0.535		0.500	107
<i>Selenium</i>	0.404		0.400	101	0.497		0.500	99	0.491		0.500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18HICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00002

Analyte	CCV 500-448467/39 09/05/2018 14:34											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Silver	0.473		0.500	95								
<i>Arsenic</i>	0.512		0.500	102								
<i>Barium</i>	0.519		0.500	104								
<i>Cadmium</i>	0.521		0.500	104								
<i>Chromium</i>	0.505		0.500	101								
<i>Lead</i>	0.531		0.500	106								
<i>Selenium</i>	0.499		0.500	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18ESTKHG_00001 Concentration Units: ug/L

CCV Source: M18ESTKHG_00001

Analyte	ICV 500-448468/7 09/05/2018 11:33				CCV 500-448468/20 09/05/2018 12:12				CCV 500-448468/92 09/05/2018 14:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.04		2.00	102	0.983		1.00	98	0.940		1.00	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICV Source: M18ESTKHG_00001 Concentration Units: ug/L

CCV Source: M18ESTKHG_00001

Analyte	CCV 500-448468/102 09/05/2018 14:42											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.944		1.00	94								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Method: 6010B Instrument ID: ICP6
 Lab Sample ID: CRI 500-448353/10 Concentration Units: mg/L
 CRQL Check Standard Source: M18FCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Zinc	0.0400	0.0396		99	50-150
Arsenic	0.0200	0.0189		95	50-150
Barium	0.0200	0.0203		101	50-150
Cadmium	0.00400	0.00430		108	50-150
Chromium	0.0200	0.0201		101	50-150
Lead	0.0100	0.00808		81	50-150
Selenium	0.0200	0.0207		103	50-150
Silver	0.0100	0.0105		105	50-150

Lab Sample ID: CRI 500-448467/10 Concentration Units: mg/L
 CRQL Check Standard Source: M18FCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0219		109	50-150
Barium	0.0200	0.0206		103	50-150
Cadmium	0.00400	0.00444		111	50-150
Chromium	0.0200	0.0202		101	50-150
Lead	0.0100	0.00981		98	50-150
Selenium	0.0200	0.0205		103	50-150
Silver	0.0100	0.0106		106	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Method: 7471B Instrument ID: HG6
 Lab Sample ID: CRA 500-448468/9 Concentration Units: ug/L
 CRQL Check Standard Source: M18BSTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.198	J	99	50-150

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICBIS 500-448353/8 09/04/2018 15:58		CCB 500-448353/53 09/04/2018 19:00		CCB 500-448353/65 09/04/2018 19:50		CCB 500-448353/77 09/04/2018 20:38	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
Barium	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
Cadmium	0.0020	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
Lead	0.0050	<0.0025		<0.0025		<0.0025		<0.0025	
Selenium	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
Zinc	0.020	<0.010							
<i>Silver</i>	0.0050	<0.0025		<0.0025		<0.0025		<0.0025	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	CCB 500-448353/89 09/04/2018 21:27		CCB 500-448353/101 09/04/2018 22:18		CCB 500-448353/113 09/04/2018 23:06		Found	C
		Found	C	Found	C	Found	C		
Arsenic	0.010	<0.0050		<0.0050		<0.0050			
Barium	0.010								
Cadmium	0.0020								
Chromium	0.010								
Lead	0.0050	<0.0025		<0.0025		<0.0025			
Selenium	0.010								
Zinc	0.020	<0.010		<0.010		<0.010			
<i>Silver</i>	0.0050								

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICBIS 500-448467/8 09/05/2018 12:27		CCB 500-448467/15 09/05/2018 12:55		CCB 500-448467/28 09/05/2018 13:47		CCB 500-448467/40 09/05/2018 14:37	
		Found	C	Found	C	Found	C	Found	C
Silver	0.0050	<0.0025		<0.0025		<0.0025		<0.0025	
<i>Arsenic</i>	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
<i>Barium</i>	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
<i>Cadmium</i>	0.0020	<0.0010		<0.0010		<0.0010		<0.0010	
<i>Chromium</i>	0.010	<0.0050		<0.0050		<0.0050		<0.0050	
<i>Lead</i>	0.0050	<0.0025		<0.0025		<0.0025		<0.0025	
<i>Selenium</i>	0.010	<0.0050		<0.0050		<0.0050		<0.0050	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 500-448468/8 09/05/2018 11:36		CCB 500-448468/21 09/05/2018 12:14		CCB 500-448468/93 09/05/2018 14:25		CCB 500-448468/103 09/05/2018 14:44	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	<0.098		<0.098		<0.098		<0.098	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 500-448179/1-A
Instrument Code: ICP6 Batch No.: 448353

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	<1.3			200.7
7440-38-2	Arsenic	<2.1			200.7
7440-66-6	Zinc	<3.6			200.7

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
SDG No.: _____
Concentration Units: mg/Kg Lab Sample ID: MB 500-448202/1-A
Instrument Code: ICP6 Batch No.: 448353

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.34			6010B
7440-39-3	Barium	0.279	J		6010B
7440-43-9	Cadmium	0.102	J		6010B
7440-47-3	Chromium	<0.50			6010B
7439-92-1	Lead	<0.23			6010B
7782-49-2	Selenium	<0.59			6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
SDG No.: _____
Concentration Units: mg/Kg Lab Sample ID: MB 500-448202/1-A
Instrument Code: ICP6 Batch No.: 448467

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	<0.13			6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
SDG No.: _____
Concentration Units: ug/Kg Lab Sample ID: MB 500-448270/12-A
Instrument Code: HG6 Batch No.: 448468

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<5.6			7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Lab Sample ID: ICSA 500-448353/11 Instrument ID: ICP6
 Lab File ID: _____ ICS Source: M18GISAIC_00001
 Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		-0.0046	
Barium		-0.0003	
Cadmium		0.0009	
Chromium		0.0015	
Lead		0.0002	
Selenium		0.0019	
Zinc		0.0007	
<i>Aluminum</i>	<i>500</i>	<i>509</i>	<i>102</i>
<i>Antimony</i>		<i>0.0000</i>	
<i>Beryllium</i>		<i>-0.0001</i>	
<i>Bismuth</i>		<i>-0.0007</i>	
<i>Boron</i>		<i>0.0003</i>	
<i>Calcium</i>	<i>500</i>	<i>483</i>	<i>97</i>
<i>Cobalt</i>		<i>-0.0015</i>	
<i>Copper</i>		<i>0.0009</i>	
<i>Iron</i>	<i>200</i>	<i>189</i>	<i>95</i>
<i>Li</i>		<i>-0.0002</i>	
<i>Magnesium</i>	<i>500</i>	<i>511</i>	<i>102</i>
<i>Manganese</i>		<i>-0.0007</i>	
<i>Molybdenum</i>		<i>-0.0038</i>	
<i>Nickel</i>		<i>0.0009</i>	
<i>Potassium</i>		<i>-0.0361</i>	
<i>Silicon</i>		<i>-0.0043</i>	
<i>Silver</i>		<i>0.0003</i>	
<i>Sodium</i>		<i>0.0923</i>	
<i>Strontium</i>		<i>0.0046</i>	
<i>Thallium</i>		<i>0.0016</i>	
<i>Tin</i>		<i>0.0087</i>	
<i>Titanium</i>		<i>-0.0023</i>	
<i>Vanadium</i>		<i>0.0034</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Lab Sample ID: ICSAB 500-448353/12

Instrument ID: ICP6

Lab File ID: _____

ICS Source: M18GISBIC_00003

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.0912	91
Barium	0.500	0.498	100
Cadmium	1.00	1.01	101
Chromium	0.500	0.457	91
Lead	0.0500	0.0525	105
Selenium	0.0500	0.0463	93
Zinc	1.00	0.941	94
<i>Aluminum</i>	<i>500</i>	<i>510</i>	<i>102</i>
<i>Antimony</i>	<i>0.600</i>	<i>0.556</i>	<i>93</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.504</i>	<i>101</i>
<i>Bismuth</i>		<i>-0.0031</i>	
<i>Boron</i>		<i>-0.0001</i>	
<i>Calcium</i>	<i>500</i>	<i>484</i>	<i>97</i>
<i>Cobalt</i>	<i>0.500</i>	<i>0.500</i>	<i>100</i>
<i>Copper</i>	<i>0.500</i>	<i>0.561</i>	<i>112</i>
<i>Iron</i>	<i>200</i>	<i>190</i>	<i>95</i>
<i>Li</i>		<i>-0.0004</i>	
<i>Magnesium</i>	<i>500</i>	<i>513</i>	<i>103</i>
<i>Manganese</i>	<i>0.500</i>	<i>0.463</i>	<i>93</i>
<i>Molybdenum</i>		<i>-0.0032</i>	
<i>Nickel</i>	<i>1.00</i>	<i>0.963</i>	<i>96</i>
<i>Potassium</i>		<i>-0.0434</i>	
<i>Silicon</i>		<i>-0.0051</i>	
<i>Silver</i>	<i>0.200</i>	<i>0.209</i>	<i>104</i>
<i>Sodium</i>		<i>0.104</i>	
<i>Strontium</i>		<i>0.0045</i>	
<i>Thallium</i>	<i>0.100</i>	<i>0.0967</i>	<i>97</i>
<i>Tin</i>		<i>0.0122</i>	
<i>Titanium</i>		<i>-0.0022</i>	
<i>Vanadium</i>	<i>0.500</i>	<i>0.479</i>	<i>96</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Lab Sample ID: ICSA 500-448467/11

Instrument ID: ICP6

Lab File ID: _____

ICS Source: M18GISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Silver		0.0005	
<i>Aluminum</i>	500	520	104
<i>Antimony</i>		0.0029	
<i>Arsenic</i>		-0.0028	
<i>Barium</i>		-0.0003	
<i>Beryllium</i>		0.0004	
<i>Bismuth</i>		-0.0020	
<i>Boron</i>		0.0003	
<i>Cadmium</i>		0.0007	
<i>Calcium</i>	500	498	100
<i>Chromium</i>		0.0009	
<i>Cobalt</i>		-0.0012	
<i>Copper</i>		0.0007	
<i>Iron</i>	200	196	98
<i>Lead</i>		0.0025	
<i>Li</i>		0.0003	
<i>Magnesium</i>	500	531	106
<i>Manganese</i>		-0.0011	
<i>Molybdenum</i>		-0.0029	
<i>Nickel</i>		0.0068	
<i>Potassium</i>		-0.0687	
<i>Selenium</i>		0.0058	
<i>Silicon</i>		-0.0026	
<i>Sodium</i>		0.0276	
<i>Strontium</i>		0.0046	
<i>Thallium</i>		-0.0019	
<i>Tin</i>		0.0074	
<i>Titanium</i>		-0.0027	
<i>Vanadium</i>		-0.0012	
<i>Zinc</i>		0.0005	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Lab Sample ID: ICSAB 500-448467/13

Instrument ID: ICP6

Lab File ID: _____

ICS Source: M18GISBIC_00003

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Silver	0.200	0.208	104
<i>Aluminum</i>	<i>500</i>	<i>522</i>	<i>104</i>
<i>Antimony</i>	<i>0.600</i>	<i>0.567</i>	<i>95</i>
<i>Arsenic</i>	<i>0.100</i>	<i>0.0964</i>	<i>96</i>
<i>Barium</i>	<i>0.500</i>	<i>0.516</i>	<i>103</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.540</i>	<i>108</i>
<i>Bismuth</i>		<i>0.0001</i>	
<i>Boron</i>		<i>-0.0018</i>	
<i>Cadmium</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Calcium</i>	<i>500</i>	<i>501</i>	<i>100</i>
<i>Chromium</i>	<i>0.500</i>	<i>0.472</i>	<i>94</i>
<i>Cobalt</i>	<i>0.500</i>	<i>0.514</i>	<i>103</i>
<i>Copper</i>	<i>0.500</i>	<i>0.555</i>	<i>111</i>
<i>Iron</i>	<i>200</i>	<i>199</i>	<i>100</i>
<i>Lead</i>	<i>0.0500</i>	<i>0.0585</i>	<i>117</i>
<i>Li</i>		<i>-0.0001</i>	
<i>Magnesium</i>	<i>500</i>	<i>537</i>	<i>107</i>
<i>Manganese</i>	<i>0.500</i>	<i>0.489</i>	<i>98</i>
<i>Molybdenum</i>		<i>-0.0032</i>	
<i>Nickel</i>	<i>1.00</i>	<i>0.991</i>	<i>99</i>
<i>Potassium</i>		<i>-0.105</i>	
<i>Selenium</i>	<i>0.0500</i>	<i>0.0423</i>	<i>85</i>
<i>Silicon</i>		<i>-0.0015</i>	
<i>Sodium</i>		<i>0.0150</i>	
<i>Strontium</i>		<i>0.0045</i>	
<i>Thallium</i>	<i>0.100</i>	<i>0.0908</i>	<i>91</i>
<i>Tin</i>		<i>0.0033</i>	
<i>Titanium</i>		<i>-0.0030</i>	
<i>Vanadium</i>	<i>0.500</i>	<i>0.475</i>	<i>95</i>
<i>Zinc</i>	<i>1.00</i>	<i>0.980</i>	<i>98</i>

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 500-448179/2-A

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

Sample Matrix: Water

LCS Source: M18HSPKIC_00002

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	50.0	46.3		93	85	115		200.7 Rev 4.4
Arsenic	50.0	49.6		99	85	115		200.7 Rev 4.4
Zinc	250	242		97	85	115		200.7 Rev 4.4

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-448202/2-A ^2

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

Sample Matrix: Solid

LCS Source: M18HSPKIC_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	10.0	8.90		89	80	120		6010B
Barium	200	179		90	80	120		6010B
Cadmium	5.00	4.68		94	80	120		6010B
Chromium	20.0	20.5		102	80	120		6010B
Lead	10.0	8.28		83	80	120		6010B
Selenium	10.0	8.02		80	80	120		6010B

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-448202/2-A ^2

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

Sample Matrix: Solid

LCS Source: M18HSPKIC_00002

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Silver	5.00	4.21		84	80 120		6010B

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-448270/13-A

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

Sample Matrix: Solid

LCS Source: M18ESTKHG_00001

Analyte	Solid(ug/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	167	168		101	80	120	7471B

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Water

Instrument ID: ICP6

Method: 200.7 Rev 4.4

LOQ Date: 11/01/2005 12:38

Prep Method: 200.7

Analyte	Wavelength/ Mass	LOQ (mg/L)	
Arsenic		0.01	
Lead		0.005	
Zinc		0.02	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Water

Instrument ID: ICP6

Method: 200.7 Rev 4.4

XMDL Date: 05/25/2006 08:57

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Lead		0.005	0.0025
Zinc		0.02	0.01

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP6

Method: 6010B

LOQ Date: 11/01/2005 15:20

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	
Arsenic		1	
Barium		1	
Cadmium		0.2	
Chromium		1	
Lead		0.5	
Selenium		1	
Silver		0.5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP6

Method: 6010B

XMDL Date: 05/25/2006 09:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Solid

Instrument ID: HG6

Method: 7471B

LOQ Date: 11/01/2005 10:16

Prep Method: 7471B

Analyte	Wavelength/ Mass	LOQ (ug/Kg)	
Mercury		16.7	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1
SDG Number: _____
Matrix: Solid Instrument ID: HG6
Method: 7471B XMDL Date: 03/29/2017 08:57

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.0984

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG No.: _____

ICP-AES Instrument ID: ICP6

Date: 09/04/2018

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Aluminum	308.215										0.005751				
Antimony	206.833		0.000010								-0.000353		0.006348	0.002026	0.000013
Arsenic	189.042		-0.000007		0.000130						-0.000753		-0.005052		-0.000007
Barium	455.403										-0.000181				
Beryllium	234.861														0.000009
Bismuth	223.061														0.000024
Boron	208.959														
Cadmium	228.802			0.009326		-0.000228					0.000042				-0.000000
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616					-0.000350							-0.000258		0.000010
Copper	324.754														0.000014
Iron	271.441										-0.012159	0.082285			
Lead	220.353		-0.000060	0.000149							0.000241	0.000144		0.002446	0.000069
Lithium	670.784										0.000120				
Magnesium	279.079										-0.007529				-0.000045
Manganese	257.610														0.000010
Molybdenum	202.030		-0.000003												-0.000021
Nickel	231.604		0.000014									0.000272			0.000043
Potassium	766.490														
Selenium	196.090		0.000003								0.000307				-0.000008
Silicon	212.412														
Silver	328.068										-0.007037				-0.000001
Sodium	589.592														
Strontium	421.552												0.000173		
Thallium	190.856		-0.000009								-0.006310	0.002256	0.000276		0.000004
Tin	189.989														
Titanium	334.941	0.008939							0.000006				0.000189		
Vanadium	292.402														0.000020
Zinc	206.200		-0.000005										-0.000534		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

ICP-AES Instrument ID: ICP6 Date: 09/04/2018

Analyte	Wave Length	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215					0.007252									
Antimony	206.833														-0.002346
Arsenic	189.042					0.000592						-0.000128			
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														-0.007347
Boron	208.959					0.030203									
Cadmium	228.802											0.000017			
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														0.002231
Copper	324.754														
Iron	271.441														
Lead	220.353					-0.000314				-0.000229		0.000234		0.001527	
Lithium	670.784	0.000008		0.000009											
Magnesium	279.079				-0.003611	-0.001592									
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000006										-0.000071			
Potassium	766.490														
Selenium	196.090														
Silicon	212.412					0.014343									0.065294
Silver	328.068	0.000003													
Sodium	589.592														
Strontium	421.552														
Thallium	190.856														-0.000140
Tin	189.989														
Titanium	334.941														
Vanadium	292.402					-0.000716									0.000604
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

ICP-AES Instrument ID: ICP6 Date: 09/04/2018

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215		0.057034												
Antimony	206.833		-0.000255												
Arsenic	189.042														
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802		0.000071												
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754		-0.000275												
Iron	271.441		-0.000293												
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000816													
Potassium	766.490														
Selenium	196.090														
Silicon	212.412														
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856		-0.000102												
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

ICP-AES Instrument ID: ICP6 Date: 09/05/2018

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Aluminum	308.215										0.005751				
Antimony	206.833		0.000010								-0.000353		0.006348	0.002026	0.000013
Arsenic	189.042		-0.000007		0.000130						-0.000753		-0.005052		-0.000007
Barium	455.403										-0.000181				
Beryllium	234.861														0.000009
Bismuth	223.061														0.000024
Boron	208.959														
Cadmium	228.802			0.009326		-0.000228					0.000042				-0.000000
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616					-0.000350							-0.000258		0.000010
Copper	324.754														0.000014
Iron	271.441										-0.012159	0.082285			
Lead	220.353		-0.000060	0.000149							0.000241	0.000144		0.002446	0.000048
Lithium	670.784										0.000120				
Magnesium	279.079										-0.007529				-0.000045
Manganese	257.610														0.000010
Molybdenum	202.030		-0.000003												-0.000021
Nickel	231.604		0.000014									0.000272			0.000043
Potassium	766.490														
Selenium	196.090		0.000003								0.000307				-0.000008
Silicon	212.412														
Silver	328.068										-0.007037				-0.000001
Sodium	589.592														
Strontium	421.552												0.000173		
Thallium	190.856		-0.000009								-0.006310	0.002256	0.000276		0.000004
Tin	189.989														
Titanium	334.941	0.008939							0.000006				0.000189		
Vanadium	292.402														0.000020
Zinc	206.200		-0.000005										-0.000534		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

ICP-AES Instrument ID: ICP6 Date: 09/05/2018

Analyte	Wave Length	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215					0.007252									
Antimony	206.833														-0.002346
Arsenic	189.042					0.000592						-0.000128			
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														-0.007347
Boron	208.959					0.030203									
Cadmium	228.802											0.000017			
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														0.002231
Copper	324.754														
Iron	271.441														
Lead	220.353					-0.000314				-0.000229		0.000234		0.001527	
Lithium	670.784	0.000008		0.000009											
Magnesium	279.079				-0.003611	-0.001592									
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000006										-0.000071			
Potassium	766.490														
Selenium	196.090														
Silicon	212.412					0.014343									0.065294
Silver	328.068	0.000003													
Sodium	589.592														
Strontium	421.552														
Thallium	190.856														-0.000140
Tin	189.989														
Titanium	334.941														
Vanadium	292.402					-0.000716									0.000604
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

ICP-AES Instrument ID: ICP6 Date: 09/05/2018

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215		0.057034												
Antimony	206.833		-0.000255												
Arsenic	189.042														
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802		0.000071												
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754		-0.000275												
Iron	271.441		-0.000293												
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000816													
Potassium	766.490														
Selenium	196.090														
Silicon	212.412														
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856		-0.000102												
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago

Job No: 500-150867-1

SDG No.: _____

Instrument ID: ICP6

Date: 07/10/2018 08:49

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010B
Lead		100	200.7 Rev 4.4
Arsenic		20	200.7 Rev 4.4
Barium		20	6010B
Cadmium		10	6010B
Zinc		20	200.7 Rev 4.4
Chromium		20	6010B
Lead		100	6010B
Selenium		20	6010B
Silver		10	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago

Job No: 500-150867-1

SDG No.: _____

Instrument ID: HG6

Date: 11/01/2010 11:39

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-448179/1-A	09/04/2018 08:08	448179		50	25
LCS 500-448179/2-A	09/04/2018 08:08	448179		50	25
500-150867-1	09/04/2018 08:08	448179		50	25
500-150867-2	09/04/2018 08:08	448179		50	25
500-150867-3	09/04/2018 08:08	448179		50	25

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 500-448202/1-A	09/04/2018 08:42	448202	1		100
LCS 500-448202/2-A ^2	09/04/2018 08:42	448202	1		100
500-150867-4	09/04/2018 08:42	448202	1.1069		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 500-448270/12-A	09/04/2018 16:55	448270	0.6		50
LCS 500-448270/13-A	09/04/2018 16:55	448270	0.6		50
500-150867-4	09/04/2018 16:55	448270	0.6236		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/04/2018 15:31 End Date: 09/04/2018 23:27

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	B	C	C	P	S	Z																					
ZZZZZZ			15:31																												
ZZZZZZ			15:35																												
ZZZZZZ			15:39																												
ZZZZZZ			15:43																												
ZZZZZZ			15:47																												
ZZZZZZ			15:51																												
ICV 500-448353/7	1		15:55	X	X	X	X	X	X																						
ICBIS 500-448353/8	1		15:58	X	X	X	X	X	X																						
ICVL 500-448353/9			16:03																												
CRI 500-448353/10	1		16:07	X	X	X	X	X	X																						
ICSA 500-448353/11	1		16:11	X	X	X	X	X	X																						
ICSAB 500-448353/12	1		16:15	X	X	X	X	X	X																						
ZZZZZZ			16:19																												
ZZZZZZ			16:23																												
CCV 500-448353/15			16:28																												
CCB 500-448353/16			16:32																												
ZZZZZZ			16:36																												
ZZZZZZ			16:42																												
ZZZZZZ			16:46																												
ZZZZZZ			16:50																												
ZZZZZZ			16:54																												
ZZZZZZ			16:58																												
ZZZZZZ			17:01																												
ZZZZZZ			17:05																												
ZZZZZZ			17:09																												
ZZZZZZ			17:13																												
ZZZZZZ			17:17																												
CCV 500-448353/28			17:21																												
CCB 500-448353/29			17:25																												
ZZZZZZ			17:29																												
ZZZZZZ			17:33																												
ZZZZZZ			17:37																												
ZZZZZZ			17:41																												
ZZZZZZ			17:45																												
ZZZZZZ			17:49																												
ZZZZZZ			17:53																												
ZZZZZZ			17:57																												
ZZZZZZ			18:00																												
ZZZZZZ			18:04																												
CCV 500-448353/40			18:08																												
CCB 500-448353/41			18:12																												
ZZZZZZ			18:16																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/04/2018 15:31 End Date: 09/04/2018 23:27

Lab Sample Id	D/F	Type	Time	Analytes															
				A	B	C	C	P	S	Z									
ZZZZZZ			18:20																
ZZZZZZ			18:24																
ZZZZZZ			18:28																
ZZZZZZ			18:32																
ZZZZZZ			18:36																
ZZZZZZ			18:40																
ZZZZZZ			18:44																
ZZZZZZ			18:48																
ZZZZZZ			18:52																
CCV 500-448353/52	1		18:56	X	X	X	X	X	X										
CCB 500-448353/53	1		19:00	X	X	X	X	X	X										
ZZZZZZ			19:04																
ZZZZZZ			19:08																
ZZZZZZ			19:12																
ZZZZZZ			19:16																
ZZZZZZ			19:20																
ZZZZZZ			19:24																
MB 500-448202/1-A	1	T	19:30	X	X	X	X	X	X										
ZZZZZZ			19:34																
LCS 500-448202/2-A ^2	2	T	19:38	X	X	X	X	X	X										
ZZZZZZ			19:42																
CCV 500-448353/64	1		19:46	X	X	X	X	X	X										
CCB 500-448353/65	1		19:50	X	X	X	X	X	X										
ZZZZZZ			19:54																
ZZZZZZ			19:58																
ZZZZZZ			20:02																
ZZZZZZ			20:06																
500-150867-4	1	T	20:10	X	X	X	X	X	X										
ZZZZZZ			20:14																
ZZZZZZ			20:18																
ZZZZZZ			20:22																
ZZZZZZ			20:26																
ZZZZZZ			20:30																
CCV 500-448353/76	1		20:34	X	X	X	X	X	X										
CCB 500-448353/77	1		20:38	X	X	X	X	X	X										
ZZZZZZ			20:42																
ZZZZZZ			20:46																
ZZZZZZ			20:50																
ZZZZZZ			20:54																
ZZZZZZ			20:58																
ZZZZZZ			21:02																
ZZZZZZ			21:06																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/04/2018 15:31 End Date: 09/04/2018 23:27

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	B	C	C	P	S	Z																					
ZZZZZZ			21:11																												
ZZZZZZ			21:15																												
ZZZZZZ			21:19																												
CCV 500-448353/88	1		21:23	X					X		X																				
CCB 500-448353/89	1		21:27	X					X		X																				
ZZZZZZ			21:31																												
ZZZZZZ			21:35																												
ZZZZZZ			21:39																												
MB 500-448179/1-A	1	R	21:45	X					X		X																				
LCS 500-448179/2-A	1	R	21:49	X					X		X																				
ZZZZZZ			21:53																												
ZZZZZZ			21:57																												
ZZZZZZ			22:01																												
ZZZZZZ			22:06																												
ZZZZZZ			22:10																												
CCV 500-448353/100	1		22:14	X					X		X																				
CCB 500-448353/101	1		22:18	X					X		X																				
ZZZZZZ			22:22																												
ZZZZZZ			22:26																												
ZZZZZZ			22:30																												
500-150867-1	1	R	22:34	X					X		X																				
500-150867-2	1	R	22:38	X					X		X																				
500-150867-3	1	R	22:42	X					X		X																				
ZZZZZZ			22:46																												
ZZZZZZ			22:50																												
ZZZZZZ			22:54																												
ZZZZZZ			22:58																												
CCV 500-448353/112	1		23:02	X					X		X																				
CCB 500-448353/113	1		23:06	X					X		X																				
ZZZZZZ			23:10																												
CCV 500-448353/115			23:15																												
CCB 500-448353/116			23:18																												
CCVL 500-448353/117			23:23																												
LRC 500-448353/118			23:27																												

Prep Types:
 R = Total Recoverable
 T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/05/2018 11:59 End Date: 09/05/2018 14:42

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	g																										
ZZZZZZ			11:59																												
ZZZZZZ			12:03																												
ZZZZZZ			12:07																												
ZZZZZZ			12:11																												
ZZZZZZ			12:15																												
ZZZZZZ			12:19																												
ICV 500-448467/7	1		12:23	X																											
ICBIS 500-448467/8	1		12:27	X																											
ICVL 500-448467/9			12:31																												
CRI 500-448467/10	1		12:35	X																											
ICSA 500-448467/11	1		12:39	X																											
ZZZZZZ			12:43																												
ICSAB 500-448467/13	1		12:47	X																											
CCV 500-448467/14	1		12:51	X																											
CCB 500-448467/15	1		12:55	X																											
ZZZZZZ			12:59																												
ZZZZZZ			13:03																												
LCS 500-448202/2-A ^2	2	T	13:07	X																											
ZZZZZZ			13:11																												
ZZZZZZ			13:15																												
ZZZZZZ			13:19																												
MB 500-448202/1-A	1	T	13:24	X																											
ZZZZZZ			13:28																												
ZZZZZZ			13:31																												
ZZZZZZ			13:35																												
ZZZZZZ			13:39																												
CCV 500-448467/27	1		13:43	X																											
CCB 500-448467/28	1		13:47	X																											
ZZZZZZ			13:51																												
ZZZZZZ			13:57																												
500-150867-4	1	T	14:00	X																											
ZZZZZZ			14:04																												
ZZZZZZ			14:08																												
ZZZZZZ			14:12																												
ZZZZZZ			14:16																												
ZZZZZZ			14:20																												
ZZZZZZ			14:24																												
ZZZZZZ			14:30																												
CCV 500-448467/39	1		14:34	X																											
CCB 500-448467/40	1		14:37	X																											
CCVL 500-448467/41			14:42																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Instrument ID: HG6 Analysis Method: 7471B
 Start Date: 09/05/2018 11:22 End Date: 09/05/2018 14:44

Lab Sample Id	D/F	Type	Time	Analytes																											
				Hg																											
ZZZZZZ			11:22																												
ZZZZZZ			11:24																												
ZZZZZZ			11:26																												
ZZZZZZ			11:27																												
ZZZZZZ			11:29																												
ZZZZZZ			11:31																												
ICV 500-448468/7	1		11:33	X																											
ICB 500-448468/8	1		11:36	X																											
CRA 500-448468/9	1		11:38	X																											
ZZZZZZ			11:49																												
MB 500-448270/12-A	1	T	11:56	X																											
LCS 500-448270/13-A	1	T	11:57	X																											
ZZZZZZ			11:59																												
ZZZZZZ			12:01																												
ZZZZZZ			12:03																												
ZZZZZZ			12:05																												
ZZZZZZ			12:06																												
ZZZZZZ			12:08																												
ZZZZZZ			12:10																												
CCV 500-448468/20	1		12:12	X																											
CCB 500-448468/21	1		12:14	X																											
ZZZZZZ			12:16																												
ZZZZZZ			12:18																												
ZZZZZZ			12:19																												
ZZZZZZ			12:21																												
ZZZZZZ			12:23																												
ZZZZZZ			12:25																												
ZZZZZZ			12:27																												
ZZZZZZ			12:29																												
ZZZZZZ			12:31																												
ZZZZZZ			12:32																												
CCV 500-448468/32			12:34																												
CCB 500-448468/33			12:36																												
ZZZZZZ			12:38																												
ZZZZZZ			12:40																												
ZZZZZZ			12:42																												
ZZZZZZ			12:44																												
ZZZZZZ			12:46																												
ZZZZZZ			12:48																												
ZZZZZZ			12:50																												
ZZZZZZ			12:51																												
ZZZZZZ			12:53																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: HG6 Analysis Method: 7471B

Start Date: 09/05/2018 11:22 End Date: 09/05/2018 14:44

Lab Sample Id	D/F	Type	Time	Analytes																											
				Hg																											
ZZZZZZ			12:55																												
CCV 500-448468/44			12:57																												
CCB 500-448468/45			12:58																												
ZZZZZZ			13:00																												
ZZZZZZ			13:02																												
ZZZZZZ			13:03																												
ZZZZZZ			13:05																												
ZZZZZZ			13:07																												
ZZZZZZ			13:08																												
ZZZZZZ			13:11																												
ZZZZZZ			13:13																												
ZZZZZZ			13:15																												
ZZZZZZ			13:17																												
CCV 500-448468/56			13:19																												
CCB 500-448468/57			13:21																												
ZZZZZZ			13:23																												
ZZZZZZ			13:25																												
ZZZZZZ			13:27																												
ZZZZZZ			13:29																												
ZZZZZZ			13:31																												
ZZZZZZ			13:32																												
ZZZZZZ			13:34																												
ZZZZZZ			13:36																												
ZZZZZZ			13:37																												
ZZZZZZ			13:39																												
CCV 500-448468/68			13:41																												
CCB 500-448468/69			13:42																												
ZZZZZZ			13:44																												
ZZZZZZ			13:46																												
ZZZZZZ			13:48																												
ZZZZZZ			13:50																												
ZZZZZZ			13:51																												
ZZZZZZ			13:53																												
ZZZZZZ			13:55																												
ZZZZZZ			13:57																												
ZZZZZZ			13:58																												
ZZZZZZ			14:00																												
CCV 500-448468/80			14:02																												
CCB 500-448468/81			14:04																												
ZZZZZZ			14:06																												
ZZZZZZ			14:07																												
ZZZZZZ			14:09																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: HG6 Analysis Method: 7471B

Start Date: 09/05/2018 11:22 End Date: 09/05/2018 14:44

Lab Sample Id	D/F	Type	Time	Analytes																											
				Hg																											
ZZZZZZ			14:11																												
ZZZZZZ			14:13																												
ZZZZZZ			14:15																												
ZZZZZZ			14:16																												
ZZZZZZ			14:18																												
ZZZZZZ			14:20																												
ZZZZZZ			14:21																												
CCV 500-448468/92	1		14:23	X																											
CCB 500-448468/93	1		14:25	X																											
ZZZZZZ			14:27																												
ZZZZZZ			14:29																												
ZZZZZZ			14:30																												
ZZZZZZ			14:32																												
500-150867-4	25	T	14:34	X																											
ZZZZZZ			14:36																												
ZZZZZZ			14:38																												
ZZZZZZ			14:40																												
CCV 500-448468/102	1		14:42	X																											
CCB 500-448468/103	1		14:44	X																											

Prep Types: _____
T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICP Instrument ID: ICP6 Start Date: 09/04/2018 End Date: 09/04/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606 Q	Element Y 224.306 Q	Element Y 360.073 Q	Element Y 371.030 Q	Element Q	Element Q	Element Q	Element Q	Element Q	Element Q
ICV 500-448353/7	15:55										
ICBIS 500-448353/8	15:58										
CRI 500-448353/10	16:07	97	96	100	100						
ICSA 500-448353/11	16:11	75	85	88	93						
ICSAB 500-448353/12	16:15	75	85	88	93						
CCV 500-448353/52	18:56	94	98	99	99						
CCB 500-448353/53	19:00	102	102	103	99						
MB 500-448202/1-A	19:30	99	98	101	97						
LCS 500-448202/2-A ^2	19:38	99	100	103	100						
CCV 500-448353/64	19:46	95	99	101	99						
CCB 500-448353/65	19:50	105	106	104	100						
500-150867-4	20:10	81	92	94	96						
CCV 500-448353/76	20:34	95	100	101	100						
CCB 500-448353/77	20:38	104	105	104	101						
CCV 500-448353/88	21:23	95	100	101	102						
CCB 500-448353/89	21:27	105	106	104	102						
MB 500-448179/1-A	21:45	104	105	106	105						
LCS 500-448179/2-A	21:49	100	100	103	103						
CCV 500-448353/100	22:14	91	93	96	101						
CCB 500-448353/101	22:18	100	99	101	103						
500-150867-1	22:34	87	95	99	104						
500-150867-2	22:38	92	98	96	103						
500-150867-3	22:42	94	100	97	102						
CCV 500-448353/112	23:02	94	98	99	102						
CCB 500-448353/113	23:06	103	104	103	103						

15-IN
 ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

ICP Instrument ID: ICP6 Start Date: 09/05/2018 End Date: 09/05/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606 Q	Element Y 224.306 Q	Element Y 360.073 Q	Element Y 371.030 Q	Element	Element	Element	Element	Element	Element
ICV 500-448467/7	12:23										
ICBIS 500-448467/8	12:27										
CRI 500-448467/10	12:35	98	97	100	100						
ICSA 500-448467/11	12:39	74	87	87	92						
ICSAB 500-448467/13	12:47	73	86	87	91						
CCV 500-448467/14	12:51	89	94	96	97						
CCB 500-448467/15	12:55	100	100	101	98						
LCS 500-448202/2-A ^2	13:07	95	96	99	97						
MB 500-448202/1-A	13:24	95	94	98	95						
CCV 500-448467/27	13:43	89	95	98	96						
CCB 500-448467/28	13:47	100	100	101	97						
500-150867-4	14:00	75	87	90	92						
CCV 500-448467/39	14:34	87	92	96	97						
CCB 500-448467/40	14:37	101	101	100	98						

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448179 Batch Start Date: 09/04/18 08:08 Batch Analyst: Heiligstedt, Stephanie A

Batch Method: 200.7 Batch End Date: 09/04/18 08:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18HSPKIC 00002			
MB 500-448179/1		200.7, 200.7 Rev 4.4		50 mL	25 mL				
LCS 500-448179/2		200.7, 200.7 Rev 4.4		50 mL	25 mL	0.25 mL			
500-150867-C-1	R1	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				
500-150867-C-2	G1-01	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				
500-150867-C-3	G2-01	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				

Batch Notes	
Batch Comment	Pipet ID 3000
Digestion Tubes ID	1804377
First End time	0838
Filter Paper ID	80405755
Lot # of hydrochloric acid	198300
Lot # of Nitric Acid	200458
Hot Block ID	1567
Oven, Bath or Block Temperature 1	92.8 Degrees C
First Start time	0808
Thermometer ID	m62169
Uncorrected Temperature	93 Degrees C

Basis	Basis Description
R	Total Recoverable

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448202 Batch Start Date: 09/04/18 08:42 Batch Analyst: Heiligstedt, Stephanie A

Batch Method: 3050B Batch End Date: 09/04/18 09:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18HSPKIC 00002			
MB 500-448202/1		3050B, 6010B		1 g	100 mL				
LCS 500-448202/2		3050B, 6010B		1 g	100 mL	1 mL			
500-150867-A-4	Total Solids	3050B, 6010B	T	1.1069 g	100 mL				

Batch Notes	
Balance ID	3022
Batch Comment	snap caps 09118004
Temperature - Corrected - End	91 Degrees C
Temperature - Corrected - Start	91 Degrees C
Digestion Unit ID	2494
Digestion Tube/Cup ID	1804377
Filter ID	16824705
Hydrogen Peroxide ID	199872
Hydrochloric Acid ID	198300
Nitric Acid ID	200458
Pipette/Syringe/Dispenser ID	1752
Thermometer ID	2104173
Temperature - Uncorrected - End	92 Degrees C
Temperature - Uncorrected - Start	92 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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448270 Batch Start Date: 09/04/18 16:55 Batch Analyst: Gomez, Martin J

Batch Method: 7471B Batch End Date: 09/04/18 17:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18ESTKHG 00001			
MB 500-448270/12		7471B, 7471B		0.6 g	50 mL				
LCS 500-448270/13		7471B, 7471B		0.6 g	50 mL	0.0001 mL			
500-150867-A-4	Total Solids	7471B, 7471B	T	0.6236 g	50 mL				

Batch Notes	
Balance ID	F-30597
Batch Comment	STOCKID: M18ESTKHG_00001 (QC), M18BSTKHG00001 (Curve)
Temperature - Corrected - End	97.4 Degrees C
Temperature - Corrected - Start	97.4 Degrees C
Digestion End Time	09/04/2018 17:25
Digestion Start Time	09/04/2018 16:55
Digestion Unit ID	C1566
Nitric Acid ID	200458
Hydroxylamine ID	199595
Potassium Permanganate ID	176389
Pipette/Syringe/Dispenser ID	2240,1631,1630
Thermometer ID	M62232
Digestion Tube/Cup ID	1804377
Temperature - Uncorrected - End	97.6 Degrees C
Temperature - Uncorrected - Start	97.6 Degrees C

Basis	Basis Description
T	Total/NA

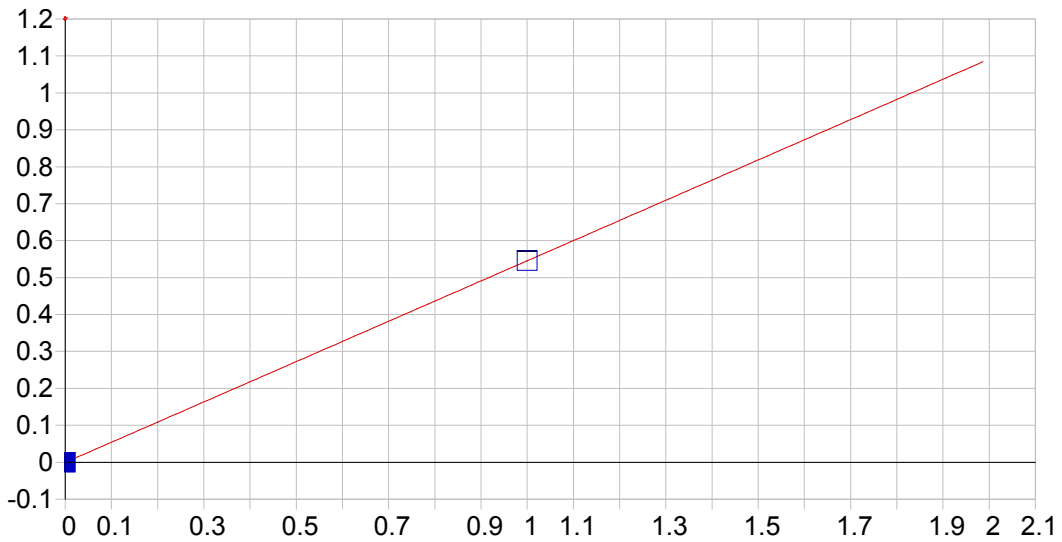
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

	Pos ID	Rack	Row	Col	Type	Samplename	MSA	Comment	CorrFact	Check
1	---	---	---	---	Cal	---	---	---	---	---
2	1	1	1	1	QC	S1	---	P6090418B	1	<input checked="" type="checkbox"/>
3	2	1	2	1	QC	S2	---		1	<input checked="" type="checkbox"/>
4	3	1	3	1	QC	ICV	---		1	<input checked="" type="checkbox"/>
5	4	1	4	1	QC	ICB	---		1	<input checked="" type="checkbox"/>
6	5	1	5	1	QC	ICVL	---		1	<input checked="" type="checkbox"/>
7	6	1	6	1	QC	CRI	---		1	<input checked="" type="checkbox"/>
8	7	1	7	1	QC	ICSA	---		1	<input checked="" type="checkbox"/>
9	8	1	8	1	QC	ICSAB	---		1	<input checked="" type="checkbox"/>
10	113	2	5	5	QC	AL	---		1	<input checked="" type="checkbox"/>
11	114	2	6	5	QC	FE	---		1	<input checked="" type="checkbox"/>
12	9	1	9	1	QC	CCV	---		1	<input checked="" type="checkbox"/>
13	10	1	10	1	QC	CCB	---		1	<input checked="" type="checkbox"/>
14	11	1	11	1	QC	MRL	---		1	<input checked="" type="checkbox"/>
15	12	1	12	1	Unk	b 500-447908/1-a	---		1	<input checked="" type="checkbox"/>
16	13	1	1	2	Unk	lcs 500-447908/2-a	---		1	<input checked="" type="checkbox"/>
17	14	1	2	2	Unk	500-150676-c-1-a	---		1	<input checked="" type="checkbox"/>
18	15	1	3	2	Unk	500-150676-c-2-a	---		1	<input checked="" type="checkbox"/>
19	16	1	4	2	Unk	500-150676-c-3-a	---		1	<input checked="" type="checkbox"/>
20	17	1	5	2	Unk	500-150676-c-4-a	---		1	<input checked="" type="checkbox"/>
21	18	1	6	2	Unk	500-150676-c-5-a	---		1	<input checked="" type="checkbox"/>
22	19	1	7	2	Unk	500-150676-c-6-a	---		1	<input checked="" type="checkbox"/>
23	20	1	8	2	Unk	500-150676-c-7-a	---		1	<input checked="" type="checkbox"/>
24	21	1	9	2	Unk	500-150676-c-8-a	---		1	<input checked="" type="checkbox"/>
25	22	1	10	2	QC	CCV	---		1	<input checked="" type="checkbox"/>
26	23	1	11	2	QC	CCB	---		1	<input checked="" type="checkbox"/>
27	24	1	12	2	Unk	500-150676-c-9-a	---		1	<input checked="" type="checkbox"/>
28	25	1	1	3	Unk	500-150676-c-10-a	---		1	<input checked="" type="checkbox"/>
29	26	1	2	3	Unk	500-150676-c-11-a	---		1	<input checked="" type="checkbox"/>
30	27	1	3	3	Unk	500-150676-c-12-a	---		1	<input checked="" type="checkbox"/>
31	28	1	4	3	Unk	500-150680-e-1-c	---		1	<input checked="" type="checkbox"/>
32	29	1	5	3	Unk	500-150680-e-1-c@5	---		1	<input checked="" type="checkbox"/>
33	30	1	6	3	Unk	500-150680-e-1-cSD@5	---		1	<input checked="" type="checkbox"/>
34	31	1	7	3	Unk	150680-e-1-cSD@25	---		1	<input checked="" type="checkbox"/>
35	32	1	8	3	Unk	500-150680-e-1-d du	---		1	<input checked="" type="checkbox"/>
36	33	1	9	3	Unk	150680-e-1-d du@5	---		1	<input checked="" type="checkbox"/>
37	34	1	10	3	QC	CCV	---		1	<input checked="" type="checkbox"/>
38	35	1	11	3	QC	CCB	---		1	<input checked="" type="checkbox"/>
39	36	1	12	3	Unk	500-150680-e-1-e ms	---		1	<input checked="" type="checkbox"/>
40	37	1	1	4	Unk	150680-e-1-e ms@5	---		1	<input checked="" type="checkbox"/>
41	38	1	2	4	Unk	500-150680-e-1-f msd	---		1	<input checked="" type="checkbox"/>
42	39	1	3	4	Unk	150680-e-1-f msd@5	---		1	<input checked="" type="checkbox"/>
43	40	1	4	4	Unk	500-150680-e-2-c	---		1	<input checked="" type="checkbox"/>
44	41	1	5	4	Unk	500-150680-e-2-c@5	---		1	<input checked="" type="checkbox"/>
45	42	1	6	4	Unk	500-150680-e-3-c	---		1	<input checked="" type="checkbox"/>
46	43	1	7	4	Unk	500-150680-e-3-c@5	---		1	<input checked="" type="checkbox"/>
47	44	1	8	4	Unk	500-150680-e-4-c	---		1	<input checked="" type="checkbox"/>
48	45	1	9	4	Unk	500-150680-e-4-c@5	---		1	<input checked="" type="checkbox"/>
49	46	1	10	4	QC	CCV	---		1	<input checked="" type="checkbox"/>
50	47	1	11	4	QC	CCB	---		1	<input checked="" type="checkbox"/>
51	48	1	12	4	Unk	500-150680-e-5-c	---		1	<input checked="" type="checkbox"/>
52	49	1	1	5	Unk	500-150680-e-5-c@5	---		1	<input checked="" type="checkbox"/>
53	50	1	2	5	Unk	500-150680-e-6-c	---		1	<input checked="" type="checkbox"/>
54	51	1	3	5	Unk	500-150680-e-6-c@5	---		1	<input checked="" type="checkbox"/>
55	52	1	4	5	Unk	500-150680-e-7-c	---		1	<input checked="" type="checkbox"/>
56	53	1	5	5	Unk	500-150680-e-7-c@5	---		1	<input checked="" type="checkbox"/>
57	54	1	6	5	Unk	mb 500-448202/1-a	---		1	<input checked="" type="checkbox"/>
58	55	1	7	5	Unk	lcs 500-448202/2-a	---		1	<input checked="" type="checkbox"/>
59	56	1	8	5	Unk	lcs 500-448202/2-a@2	---		1	<input checked="" type="checkbox"/>
60	57	1	9	5	Unk	500-150814-a-11-b	---		1	<input checked="" type="checkbox"/>
61	58	1	10	5	QC	CCV	---		1	<input checked="" type="checkbox"/>
62	59	1	11	5	QC	CCB	---		1	<input checked="" type="checkbox"/>
63	60	1	12	5	Unk	500-150814-a-12-b	---		1	<input checked="" type="checkbox"/>

	Check Table	Fail Action
1	---	None
2	S1	None
3	S2	None
4	ICV	None
5	ICB	None
6	CCVLL	None
7	CRI	None
8	ICSA	None
9	ICSAB	None
10	IEC	None
11	IEC	None
12	CCV	None
13	CCB	None
14	CCVLL	None
15	RLTABLE	---
16	RLTABLE	---
17	RLTABLE	---
18	RLTABLE	---
19	RLTABLE	---
20	RLTABLE	---
21	RLTABLE	---
22	RLTABLE	---
23	RLTABLE	---
24	RLTABLE	---
25	CCV	None
26	CCB	None
27	RLTABLE	---
28	RLTABLE	---
29	RLTABLE	---
30	RLTABLE	---
31	RLTABLE	---
32	RLTABLE	---
33	RLTABLE	---
34	RLTABLE	---
35	RLTABLE	---
36	RLTABLE	---
37	CCV	None
38	CCB	None
39	RLTABLE	---
40	RLTABLE	---
41	RLTABLE	---
42	RLTABLE	---
43	RLTABLE	---
44	RLTABLE	---
45	RLTABLE	---
46	RLTABLE	---
47	RLTABLE	---
48	RLTABLE	---
49	CCV	None
50	CCB	None
51	RLTABLE	---
52	RLTABLE	---
53	RLTABLE	---
54	RLTABLE	---
55	RLTABLE	---
56	RLTABLE	---
57	RLTABLE	---
58	RLTABLE	---
59	RLTABLE	---
60	RLTABLE	---
61	CCV	None
62	CCB	None
63	RLTABLE	---

	Pos ID	Rack	Row	Col	Type	Samplename	MSA	Comment	CorrFact	Check
64	61	2	1	1	Unk	500-150814-a-13-b	---		1	<input checked="" type="checkbox"/>
65	62	2	2	1	Unk	500-150814-a-14-b	---		1	<input checked="" type="checkbox"/>
66	63	2	3	1	Unk	500-150814-a-15-b	---		1	<input checked="" type="checkbox"/>
67	64	2	4	1	Unk	500-150867-a-4-b	---		1	<input checked="" type="checkbox"/>
68	65	2	5	1	Unk	500-150873-a-1-b	---		1	<input checked="" type="checkbox"/>
69	66	2	6	1	Unk	500-150761-e-1-a	---		1	<input checked="" type="checkbox"/>
70	67	2	7	1	Unk	500-150761-e-2-a	---		1	<input checked="" type="checkbox"/>
71	68	2	8	1	Unk	500-150761-e-3-a	---		1	<input checked="" type="checkbox"/>
72	69	2	9	1	Unk	500-150761-e-4-a	---		1	<input checked="" type="checkbox"/>
73	70	2	10	1	QC	CCV	---		1	<input checked="" type="checkbox"/>
74	71	2	11	1	QC	CCB	---		1	<input checked="" type="checkbox"/>
75	72	2	12	1	Unk	500-150761-e-5-a	---		1	<input checked="" type="checkbox"/>
76	73	2	1	2	Unk	500-150761-e-6-a	---		1	<input checked="" type="checkbox"/>
77	74	2	2	2	Unk	500-150761-e-7-a	---		1	<input checked="" type="checkbox"/>
78	75	2	3	2	Unk	500-150761-e-8-a	---		1	<input checked="" type="checkbox"/>
79	76	2	4	2	Unk	500-150761-e-9-a	---		1	<input checked="" type="checkbox"/>
80	77	2	5	2	Unk	500-150761-e-10-a	---		1	<input checked="" type="checkbox"/>
81	78	2	6	2	Unk	150761-e-10-aSD@5	---		1	<input checked="" type="checkbox"/>
82	79	2	7	2	Unk	500-150761-e-10-b du	---		1	<input checked="" type="checkbox"/>
83	80	2	8	2	Unk	500-150761-e-10-c ms	---		1	<input checked="" type="checkbox"/>
84	81	2	9	2	Unk	150761-e-10-d msd	---		1	<input checked="" type="checkbox"/>
85	82	2	10	2	QC	CCV	---		1	<input checked="" type="checkbox"/>
86	83	2	11	2	QC	CCB	---		1	<input checked="" type="checkbox"/>
87	84	2	12	2	Unk	500-150761-e-11-a	---		1	<input checked="" type="checkbox"/>
88	85	2	1	3	Unk	500-150761-e-12-a	---		1	<input checked="" type="checkbox"/>
89	86	2	2	3	Unk	500-150761-e-13-a	---		1	<input checked="" type="checkbox"/>
90	87	2	3	3	Unk	mb 500-448179/1-a	---		1	<input checked="" type="checkbox"/>
91	88	2	4	3	Unk	lcs 500-448179/2-a	---		1	<input checked="" type="checkbox"/>
92	89	2	5	3	Unk	500-150778-e-2-a	---		1	<input checked="" type="checkbox"/>
93	90	2	6	3	Unk	500-150827-a-1-a	---		1	<input checked="" type="checkbox"/>
94	91	2	7	3	Unk	500-150827-a-1-aSD@5	---		1	<input checked="" type="checkbox"/>
95	92	2	8	3	Unk	500-150827-a-1-b du	---		1	<input checked="" type="checkbox"/>
96	93	2	9	3	Unk	500-150827-a-1-c ms	---		1	<input checked="" type="checkbox"/>
97	94	2	10	3	QC	CCV	---		1	<input checked="" type="checkbox"/>
98	95	2	11	3	QC	CCB	---		1	<input checked="" type="checkbox"/>
99	96	2	12	3	Unk	500-150829-c-1-a	---		1	<input checked="" type="checkbox"/>
100	97	2	1	4	Unk	500-150830-c-1-a	---		1	<input checked="" type="checkbox"/>
101	98	2	2	4	Unk	500-150833-c-1-a	---		1	<input checked="" type="checkbox"/>
102	99	2	3	4	Unk	500-150867-c-1-a	---		1	<input checked="" type="checkbox"/>
103	100	2	4	4	Unk	500-150867-c-2-a	---		1	<input checked="" type="checkbox"/>
104	101	2	5	4	Unk	500-150867-c-3-a	---		1	<input checked="" type="checkbox"/>
105	102	2	6	4	Unk	500-150628-e-3-a@5	---		1	<input checked="" type="checkbox"/>
106	103	2	7	4	Unk	500-150602-a-1-a@50	---		1	<input checked="" type="checkbox"/>
107	104	2	8	4	Unk	150602-a-1-aSD@250	---		1	<input checked="" type="checkbox"/>
108	105	2	9	4	Unk	150602-a-1-b du@50	---		1	<input checked="" type="checkbox"/>
109	106	2	10	4	QC	CCV	---		1	<input checked="" type="checkbox"/>
110	107	2	11	4	QC	CCB	---		1	<input checked="" type="checkbox"/>
111	108	2	12	4	Unk	150602-a-1-c ms@50	---		1	<input checked="" type="checkbox"/>
112	109	2	1	5	QC	CCV	---		1	<input checked="" type="checkbox"/>
113	110	2	2	5	QC	CCB	---		1	<input checked="" type="checkbox"/>
114	111	2	3	5	QC	CCVL	---		1	<input checked="" type="checkbox"/>
115	112	2	4	5	QC	LRC	---		1	<input checked="" type="checkbox"/>

	Check Table	Fail Action
64	RLTABLE	---
65	RLTABLE	---
66	RLTABLE	---
67	RLTABLE	---
68	RLTABLE	---
69	RLTABLE	---
70	RLTABLE	---
71	RLTABLE	---
72	RLTABLE	---
73	CCV	None
74	CCB	None
75	RLTABLE	---
76	RLTABLE	---
77	RLTABLE	---
78	RLTABLE	---
79	RLTABLE	---
80	RLTABLE	---
81	RLTABLE	---
82	RLTABLE	---
83	RLTABLE	---
84	RLTABLE	---
85	CCV	None
86	CCB	None
87	RLTABLE	---
88	RLTABLE	---
89	RLTABLE	---
90	RLTABLE	---
91	RLTABLE	---
92	RLTABLE	---
93	RLTABLE	---
94	RLTABLE	---
95	RLTABLE	---
96	RLTABLE	---
97	CCV	None
98	CCB	None
99	RLTABLE	---
100	RLTABLE	---
101	RLTABLE	---
102	RLTABLE	---
103	RLTABLE	---
104	RLTABLE	---
105	RLTABLE	---
106	RLTABLE	---
107	RLTABLE	---
108	RLTABLE	---
109	CCV	None
110	CCB	None
111	RLTABLE	---
112	CCV	None
113	CCB	None
114	CCVLL	None
115	LRC	None

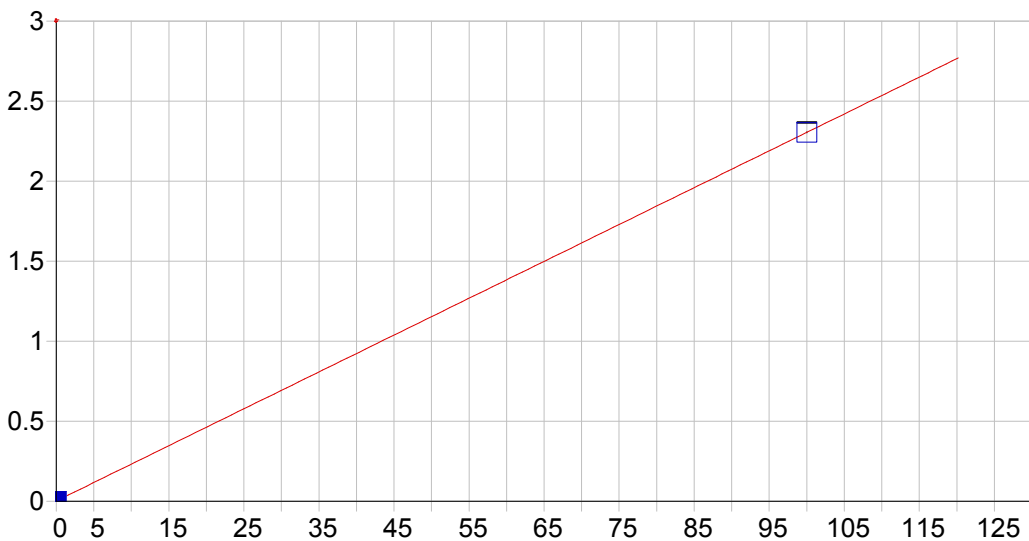


Ag 328.068 (103)

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000561 Re-Slope: 1.000000
 A1 (Gain): 0.546074 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000733
 Predicted MQL: 0.002443

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00056	.000	1
S1	1.0000	1.0000	.000	.000	.54551	.000	1



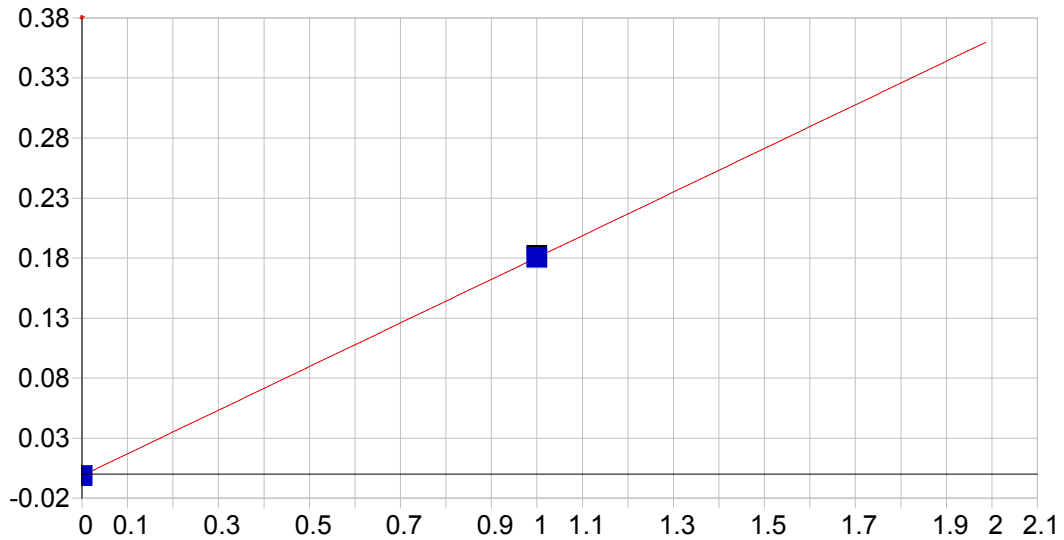
Al 308.215 (109)

Date of Fit: 9/4/2018 15:43:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002028 Re-Slope: 1.000000
 A1 (Gain): 0.023028 Y-int: 0.000000
 A2 (Curvature): 0.000000

n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.022290
 Predicted MQL: 0.074302

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00203	.001	1
S2	100.00	100.00	.000	.000	2.3048	.003	1

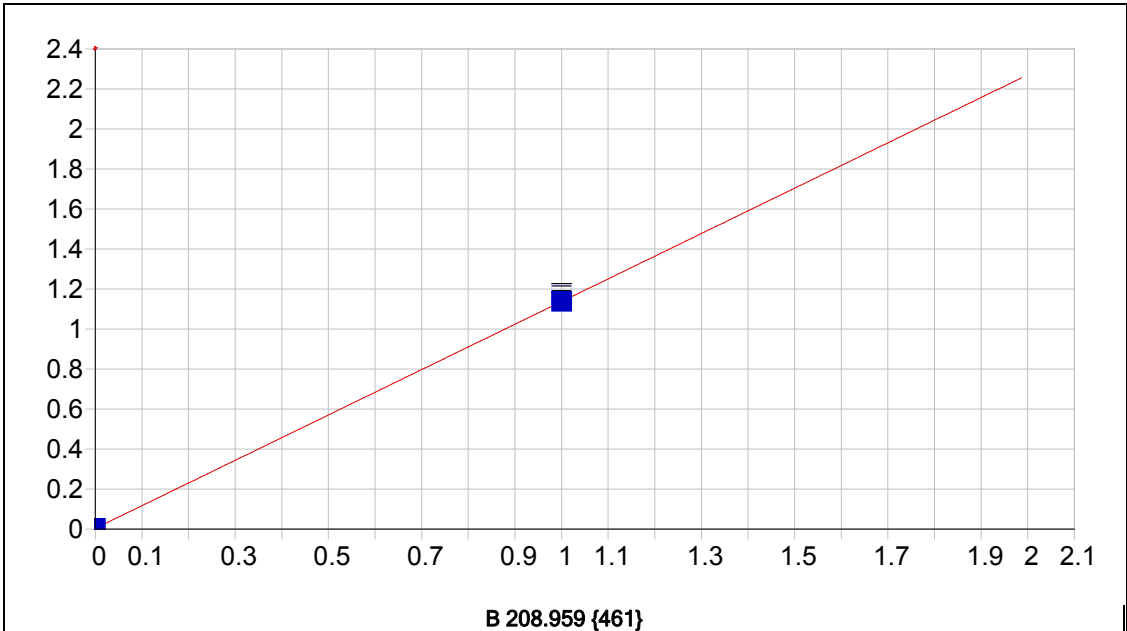


As 189.042 {478}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001260 Re-Slope: 1.000000
 A1 (Gain): 0.181712 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002984
 Predicted MQL: 0.009948

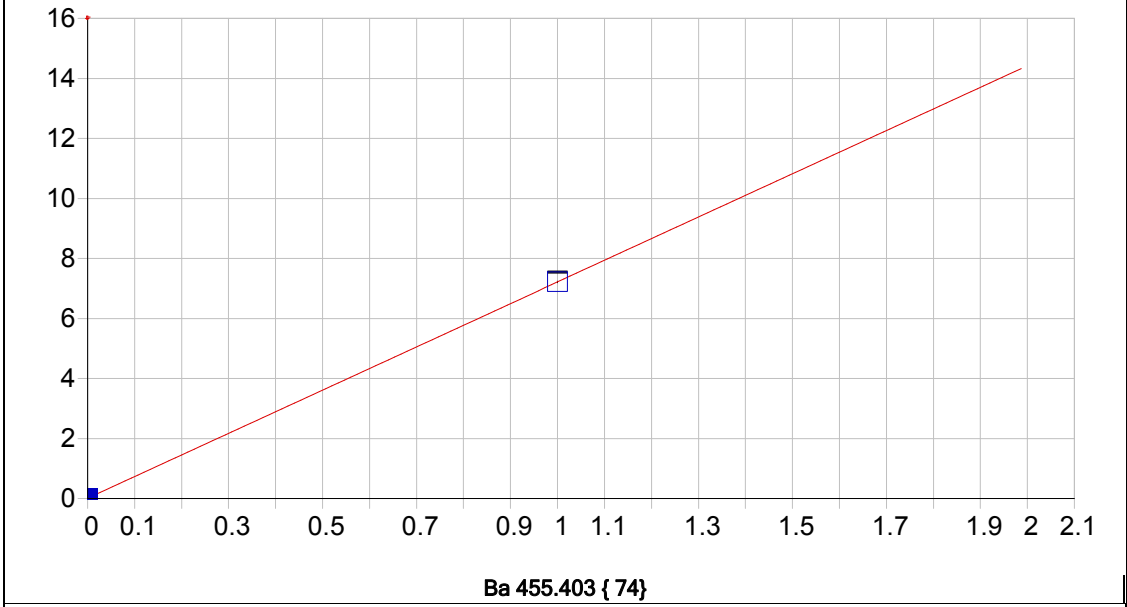
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00126	.000	1
S1	1.0000	1.0000	.000	.000	.17964	.002	1



Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003698 Re-Slope: 1.000000
 A1 (Gain): 1.133564 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000463
 Predicted MQL: 0.001544

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00370	.000	1
S1	1.0000	1.00000	.000	.000	1.1715	.006	1

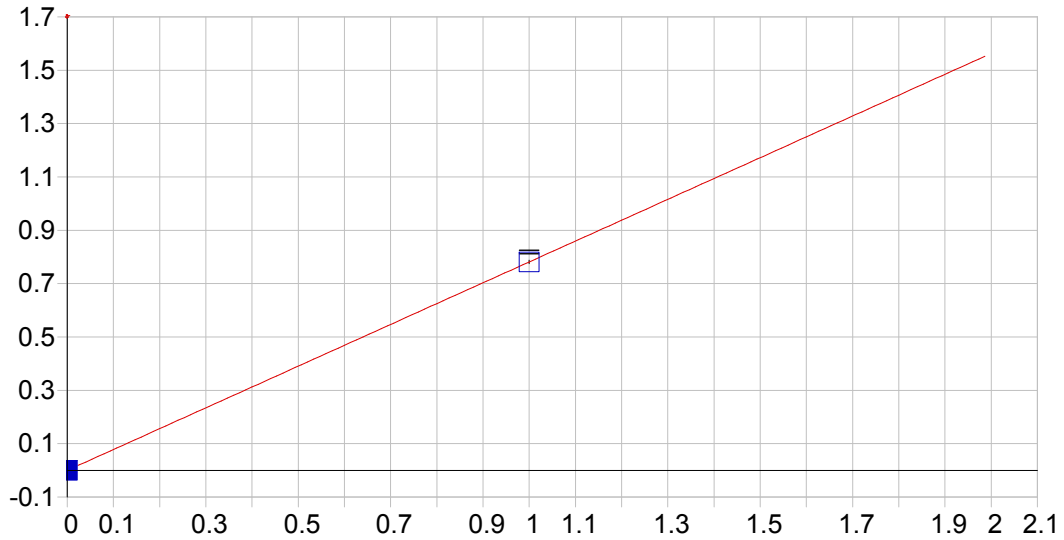


Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.008544 Re-Slope: 1.000000
 A1 (Gain): 7.207697 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000156
 Predicted MQL: 0.000521

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00854	.000	1
S1	1.0000	1.0000	.000	.000	7.2162	.028	1

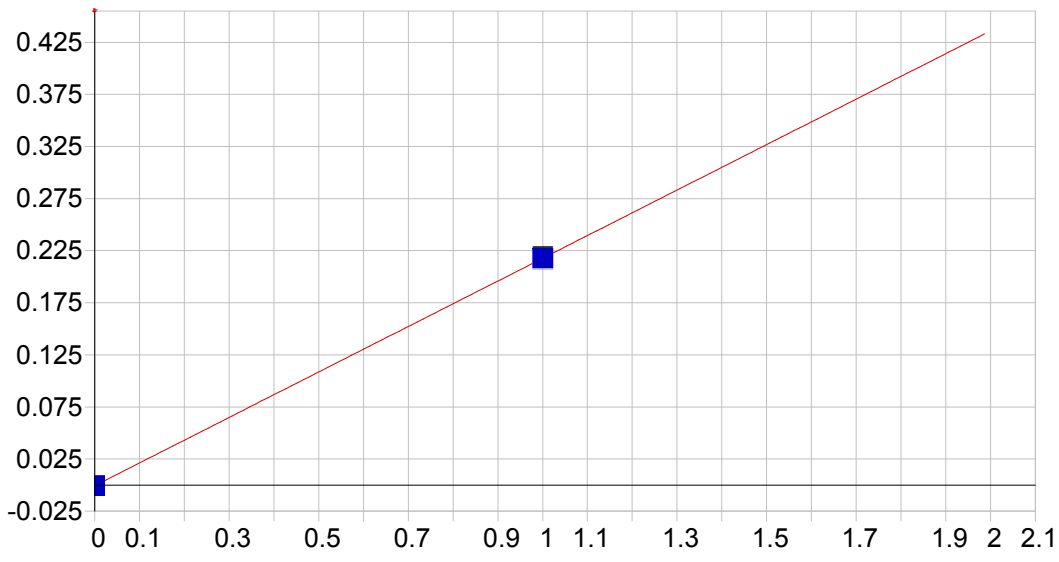


Be 234.861 {143}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000087 Re-Slope: 1.000000
 A1 (Gain): 0.781471 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000427
 Predicted MQL: 0.001425

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00009	.000	1
S1	1.0000	1.0000	.000	.000	.78138	.006	1

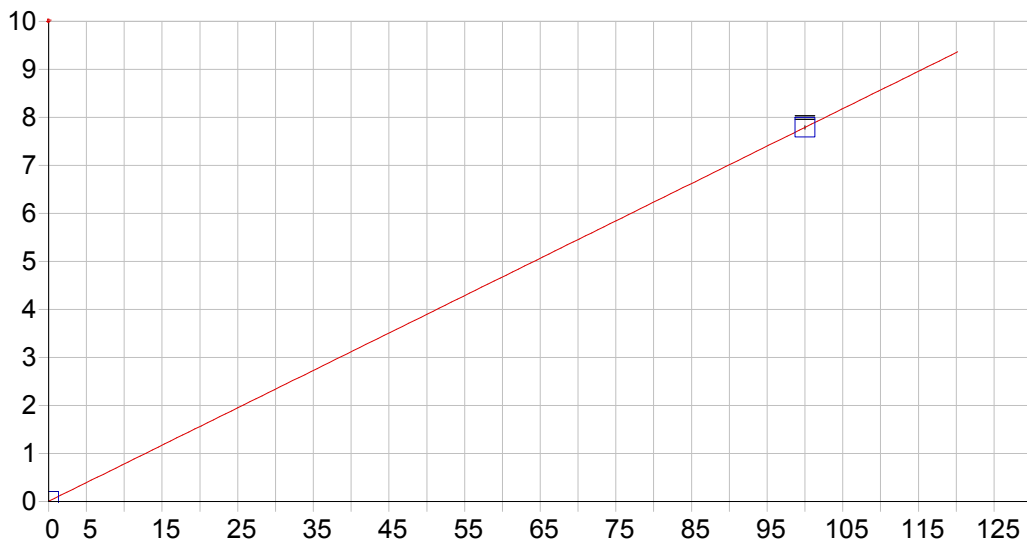


Bi 223.061 {451}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000600 Re-Slope: 1.000000
 A1 (Gain): 0.218291 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001974
 Predicted MQL: 0.006581

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00060	.000	1
S1	1.0000	1.0000	.000	.000	.21609	.001	1



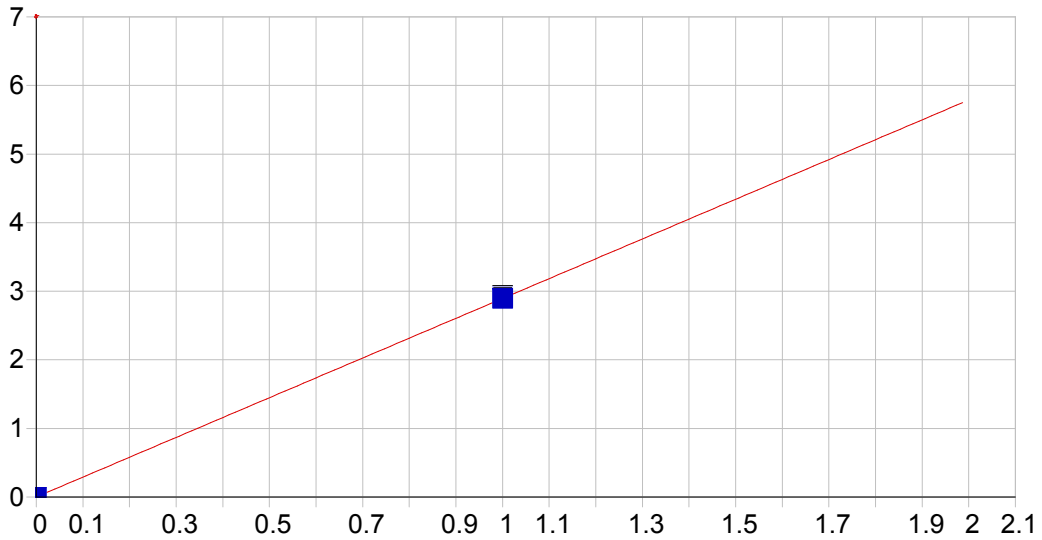
Ca 317.933 {106}

Date of Fit: 9/4/2018 15:43:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004426 Re-Slope: 1.000000
 A1 (Gain): 0.077874 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.005318
 Predicted MQL: 0.017726

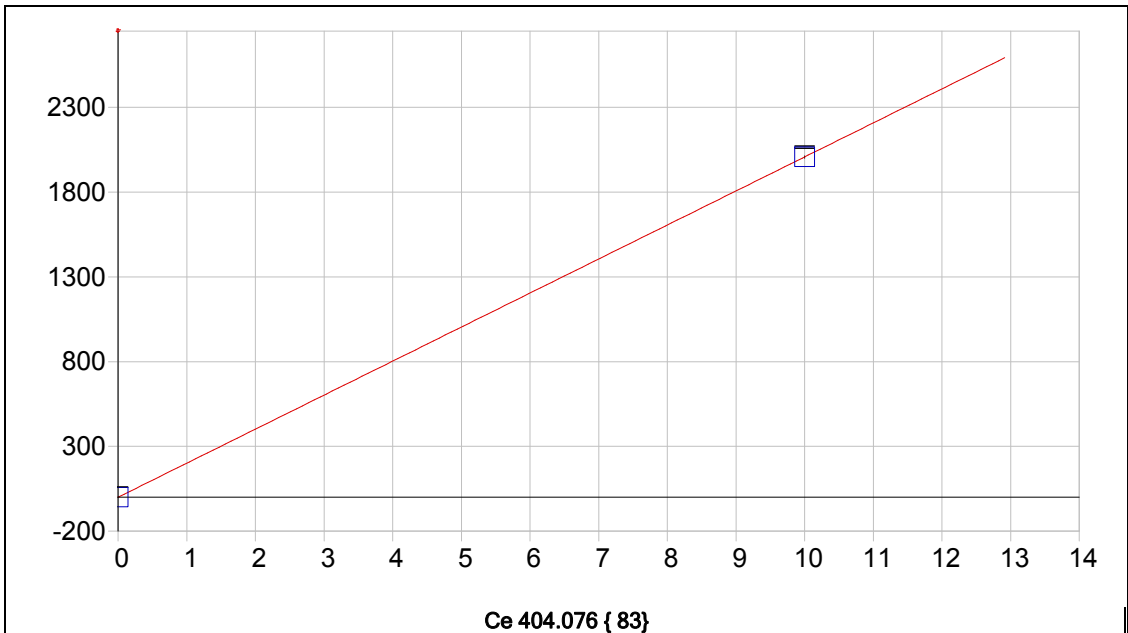
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00443	.000	1
S2	100.00	100.00	.000	.000	7.7918	.038	1



Cd 228.802 {447}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.001109 Re-Slope: 1.000000
 A1 (Gain): 2.893511 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000252
 Predicted MQL: 0.000841

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00111	.000	1
S1	1.0000	1.00000	.000	.000	2.9212	.015	1

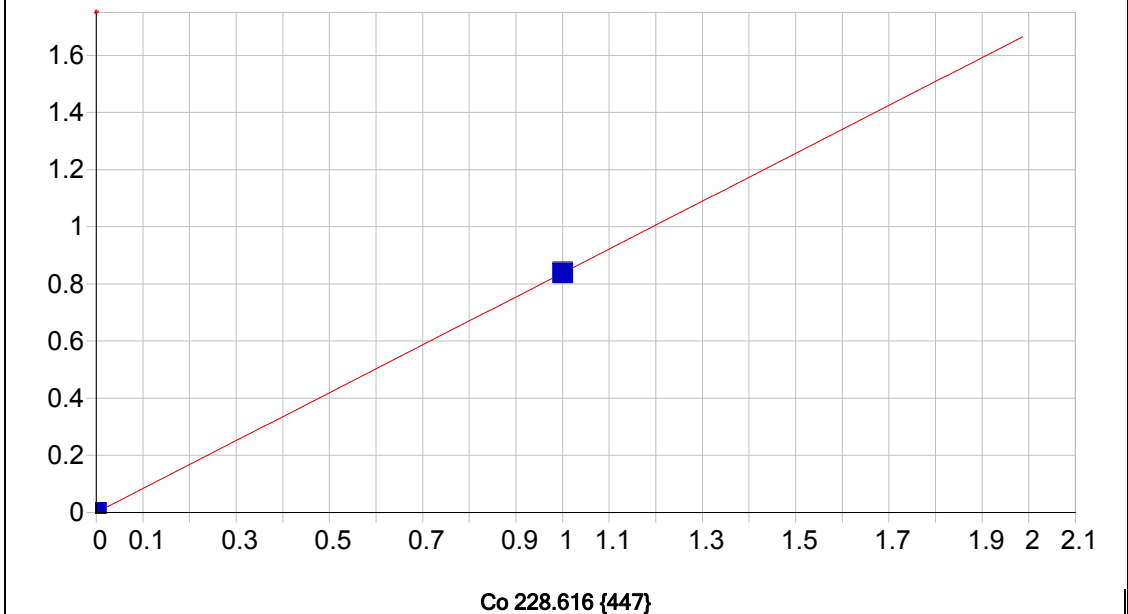


Ce 404.076 { 83}

Date of Fit: 9/4/2018 15:47:11 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.093727 Re-Slope: 1.000000
 A1 (Gain): 200.759966 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.018840
 Predicted MQL: 0.062801

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.09373	2.14	1
CE	10.000	10.000	.000	.000	2007.5	6.48	1



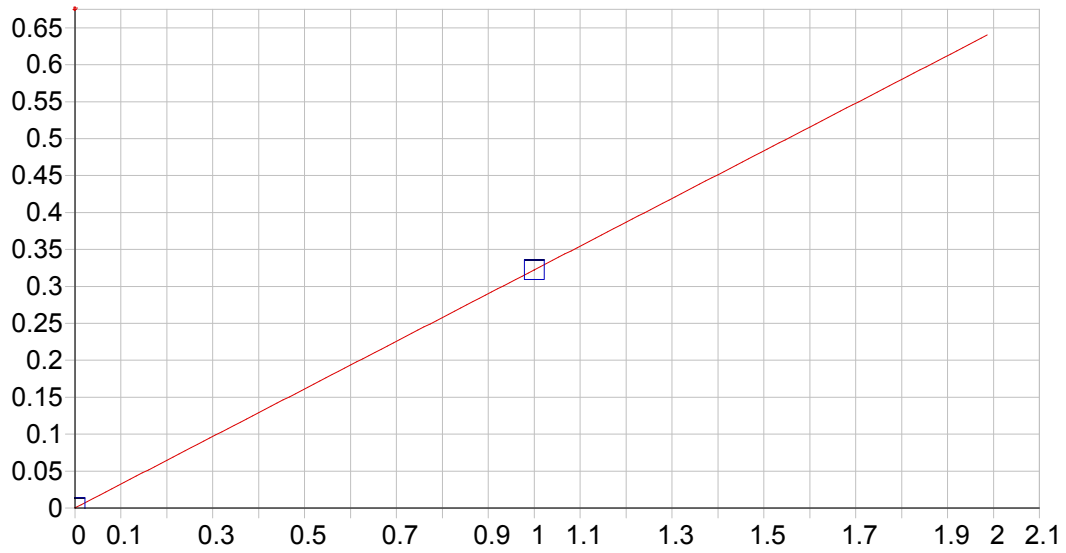
Co 228.616 {447}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000287 Re-Slope: 1.000000
 A1 (Gain): 0.837949 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000486
 Predicted MQL: 0.001620

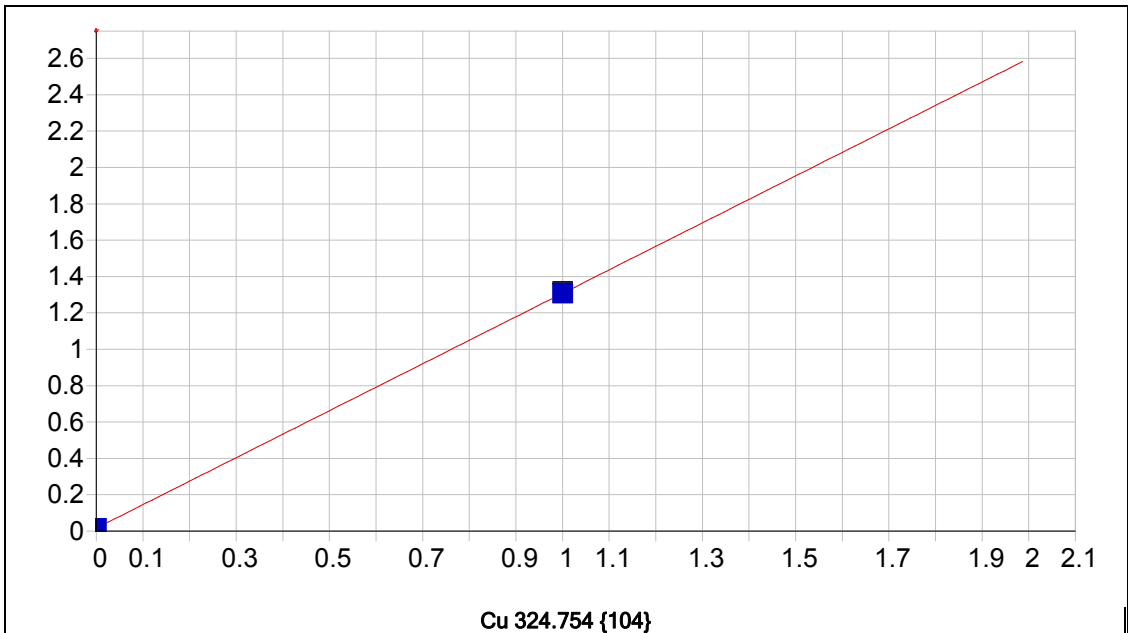
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00029	.000	1
S1	1.0000	1.0000	.000	.000	.83960	.002	1



Cr 267.716 (126)

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000228 Re-Slope: 1.000000
 A1 (Gain): 0.322116 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000832
 Predicted MQL: 0.002773

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00023	.000	1
S1	1.0000	1.0000	.000	.000	.32234	.000	1

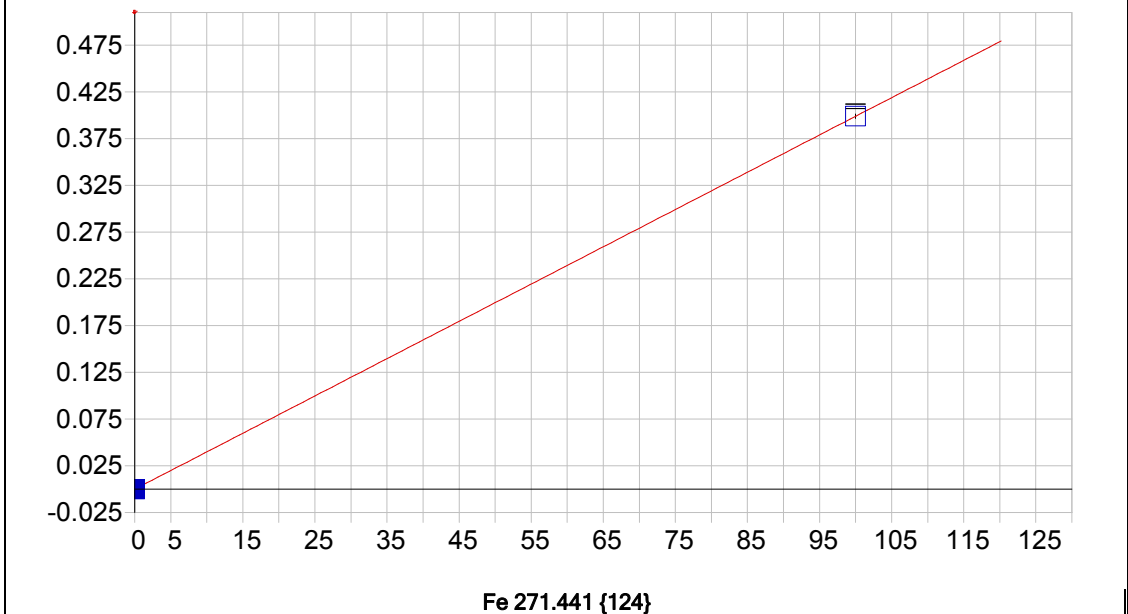


Cu 324.754 {104}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.016319 Re-Slope: 1.000000
 A1 (Gain): 1.291631 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000322
 Predicted MQL: 0.001073

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01632	.000	1
S1	1.0000	1.00000	.000	.000	1.3076	.007	1



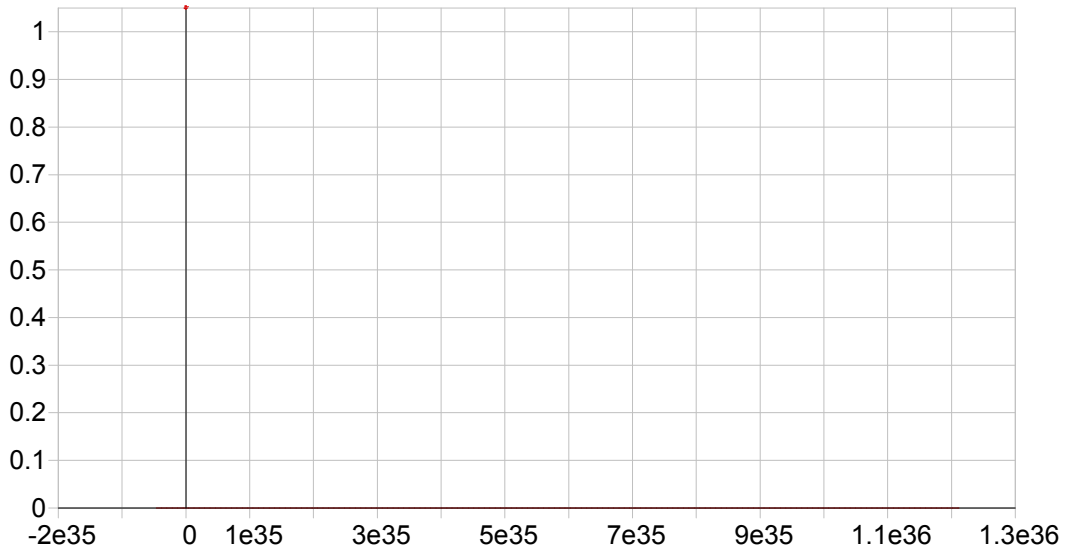
Fe 271.441 {124}

Date of Fit: 9/4/2018 15:43:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000024 Re-Slope: 1.000000
 A1 (Gain): 0.003990 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.073769
 Predicted MQL: 0.245896

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00002	.000	1
S2	100.00	100.00	.000	.000	.39896	.002	1

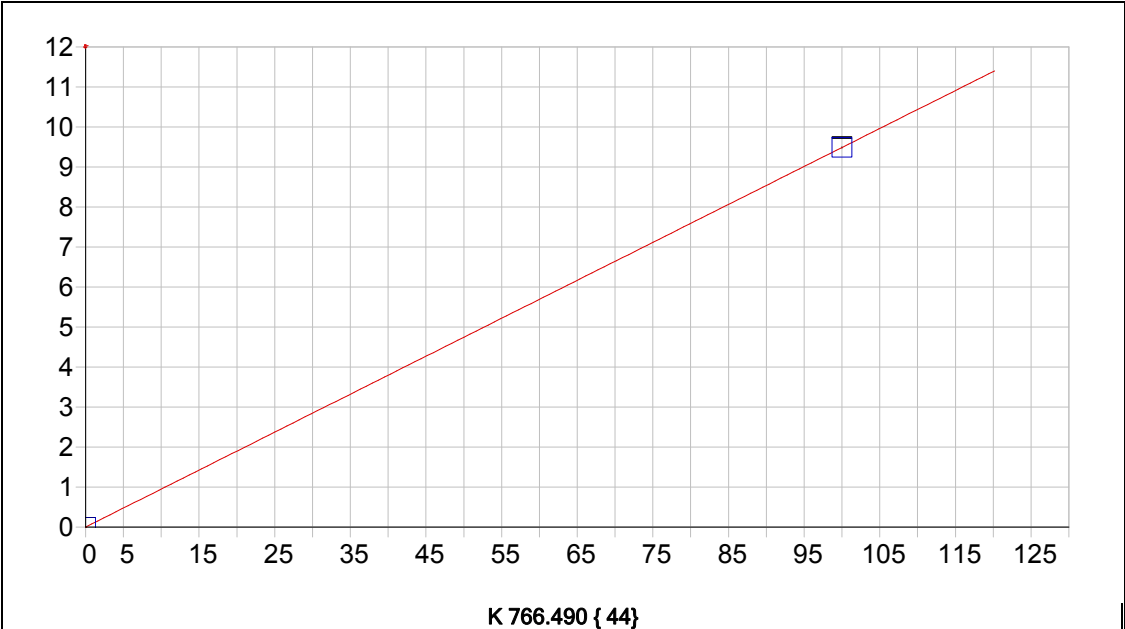


In 230.606 {446}*

Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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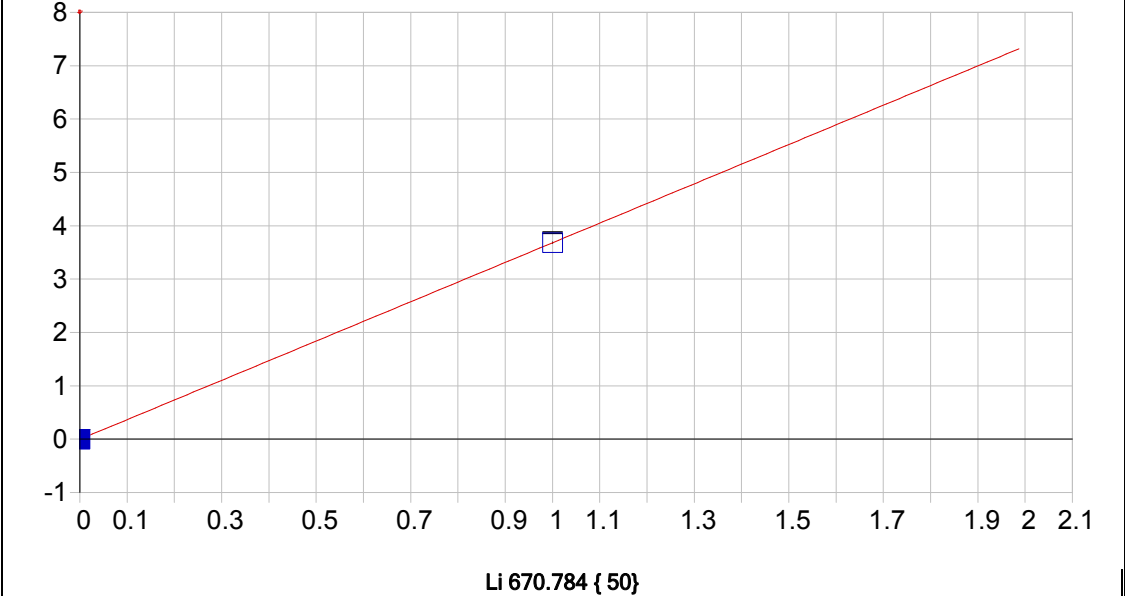


K 766.490 { 44}

Date of Fit: 9/4/2018 15:43:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001187 Re-Slope: 1.000000
 A1 (Gain): 0.094865 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.022402
 Predicted MQL: 0.074673

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00119	.001	1
S2	100.00	100.00	.000	.000	9.4877	.015	1



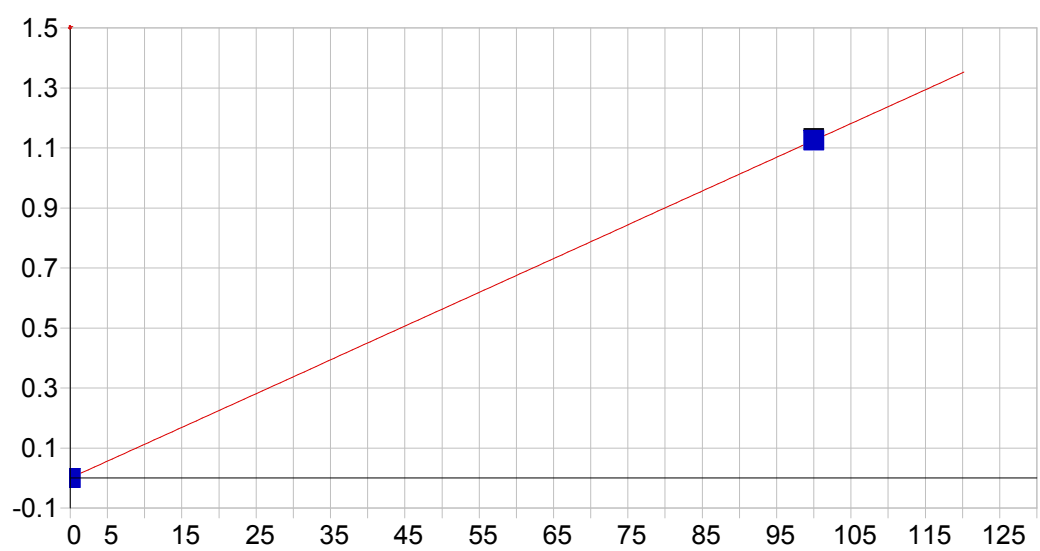
Li 670.784 { 50}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.003100 Re-Slope: 1.000000
 A1 (Gain): 3.683988 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000577
 Predicted MQL: 0.001924

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00310	.001	1
S1	1.0000	1.0000	.000	.000	3.6809	.015	1

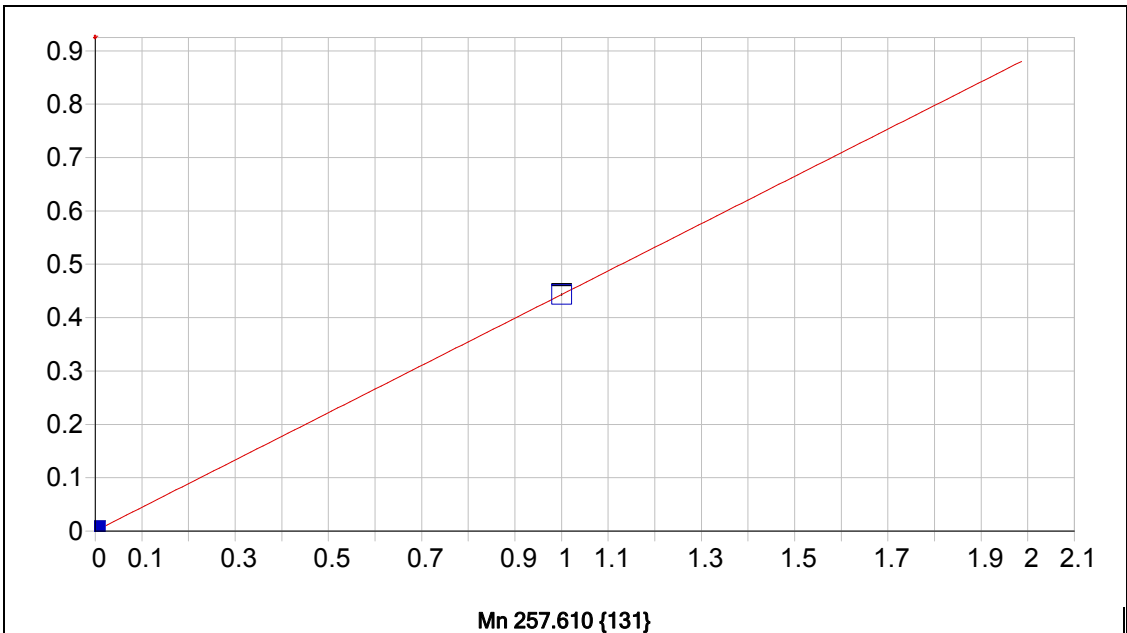


Mg 279.079 {121}

Date of Fit: 9/4/2018 15:43:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000157 Re-Slope: 1.000000
 A1 (Gain): 0.011252 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.027851
 Predicted MQL: 0.092837

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00016	.000	1
S2	100.00	100.00	.000	.000	1.1250	.005	1

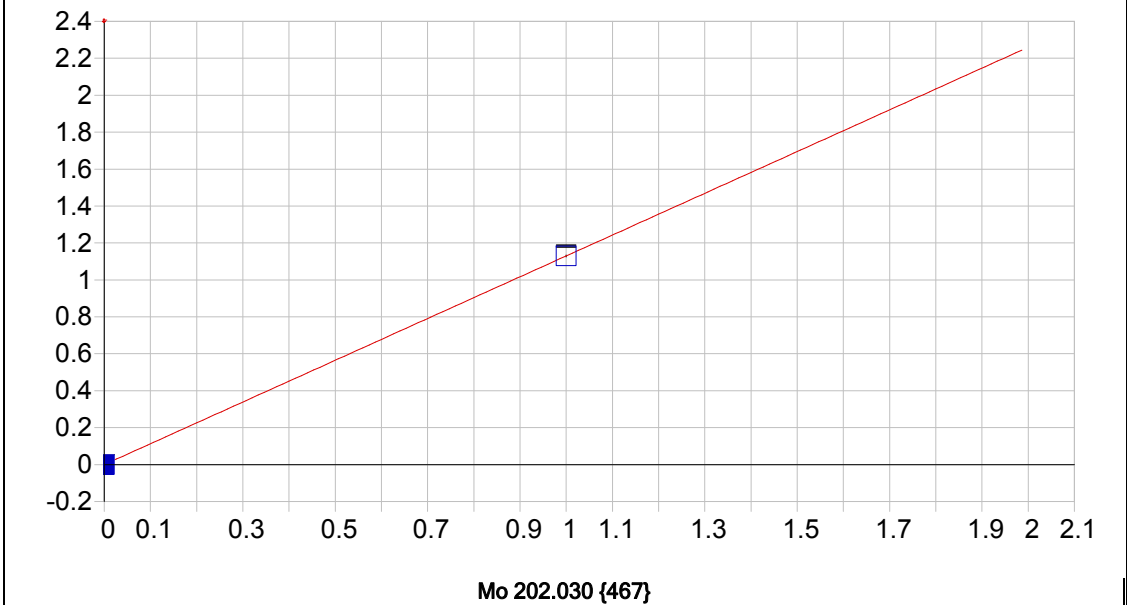


Mn 257.610 {131}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000334 Re-Slope: 1.000000
 A1 (Gain): 0.442936 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000700
 Predicted MQL: 0.002333

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00033	.000	1
S1	1.0000	1.0000	.000	.000	.44327	.002	1



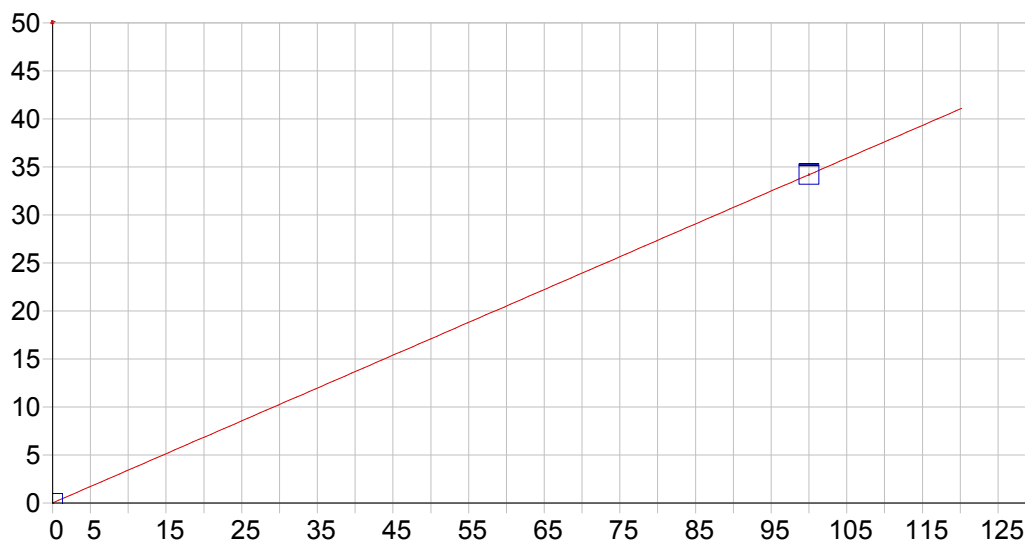
Mo 202.030 {467}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000247 Re-Slope: 1.000000
 A1 (Gain): 1.130086 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000486
 Predicted MQL: 0.001619

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00025	.000	1
S1	1.0000	1.0000	.000	.000	1.1298	.005	1

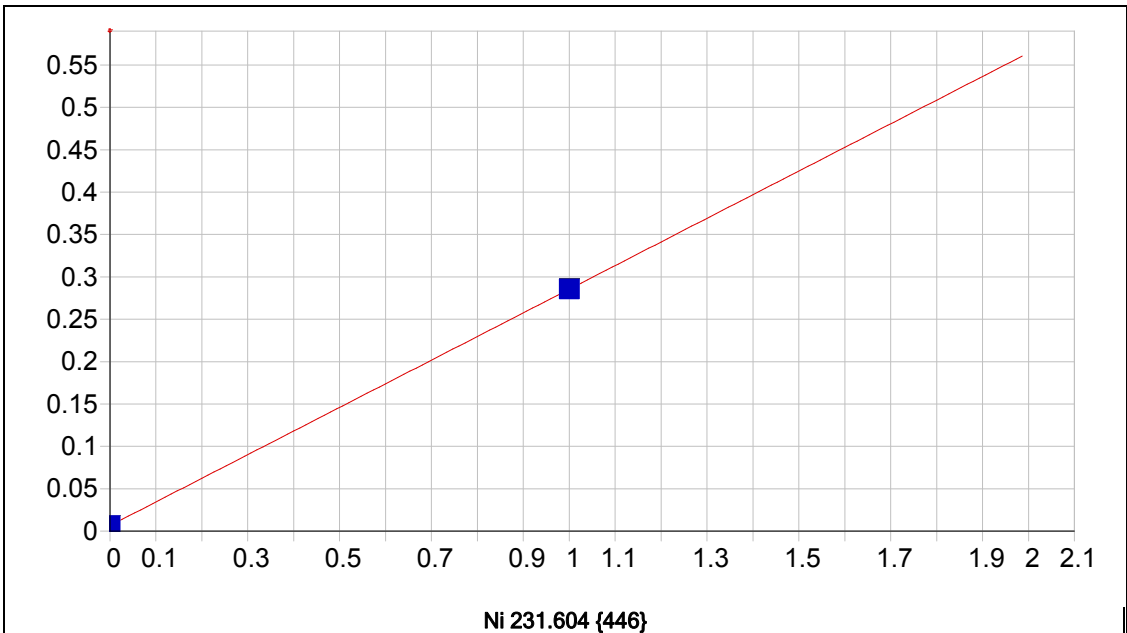


Na 589.592 { 57}

Date of Fit: 9/4/2018 15:43:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.009012 Re-Slope: 1.000000
 A1 (Gain): 0.341871 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.005776
 Predicted MQL: 0.019254

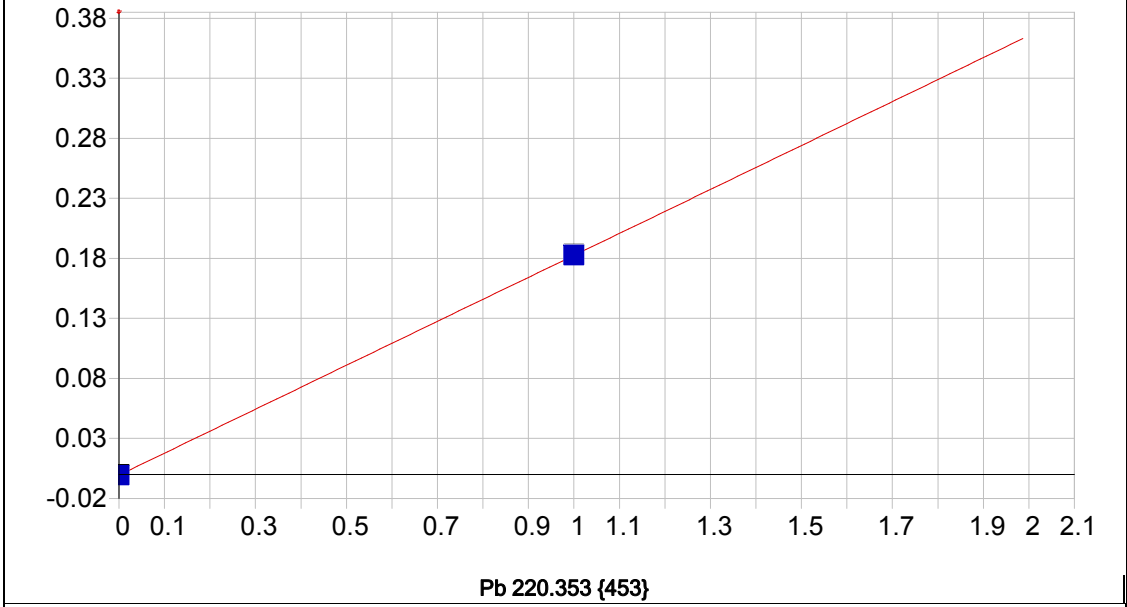
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00901	.002	1
S2	100.00	100.00	.000	.000	34.196	.098	1



Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.006514 Re-Slope: 1.000000
 A1 (Gain): 0.278902 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001162
 Predicted MQL: 0.003874

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00651	.000	1
S1	1.0000	1.0000	.000	.000	.28570	.001	1

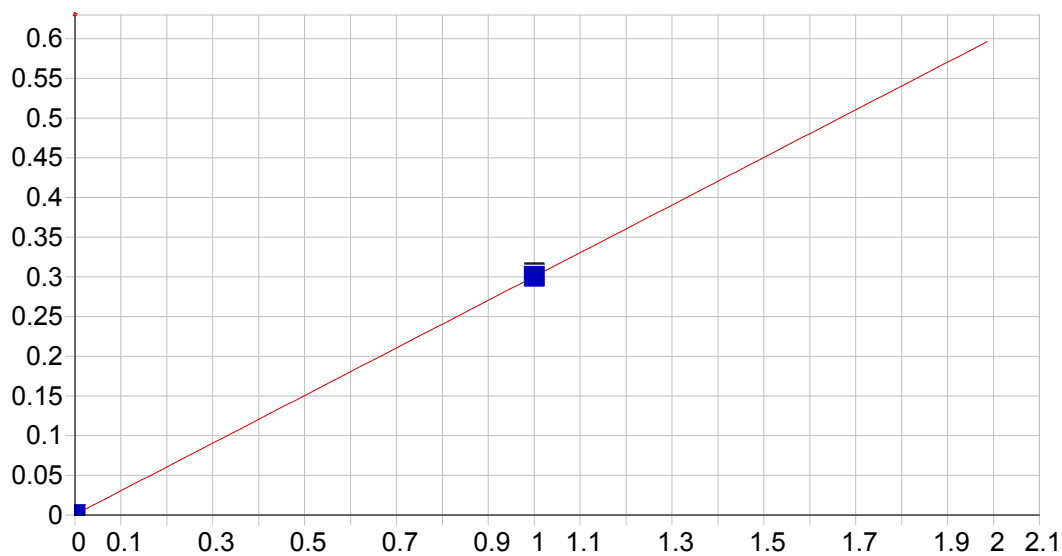


Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000523 Re-Slope: 1.000000
 A1 (Gain): 0.183025 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002452
 Predicted MQL: 0.008175

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00052	.000	1
S1	1.0000	1.00000	.000	.000	.18323	.000	1

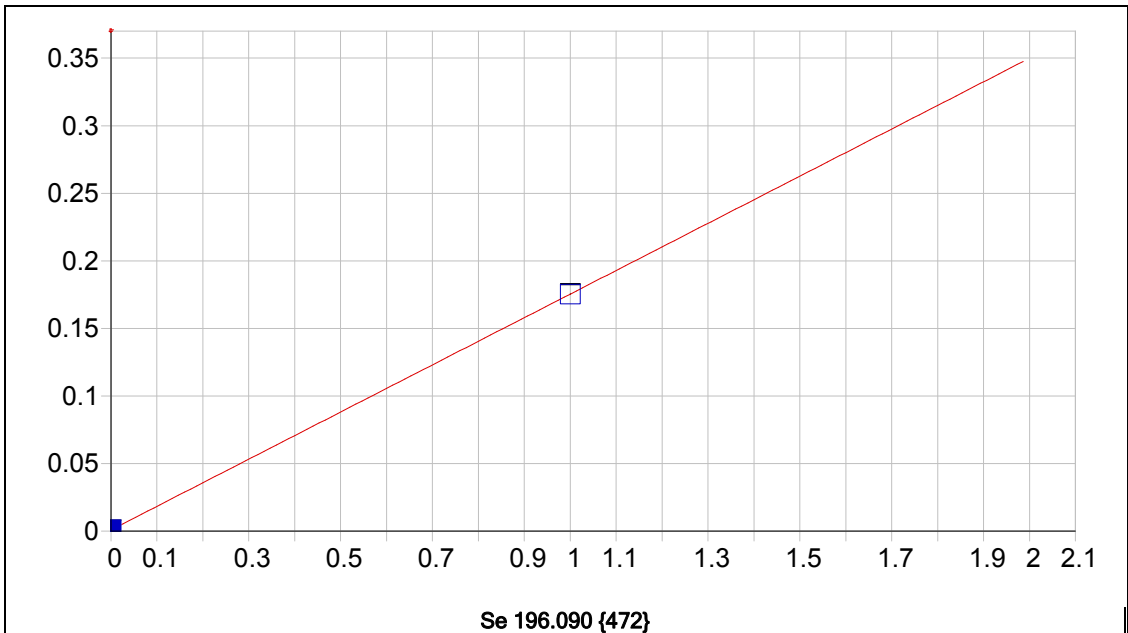


Sb 206.833 {463}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000602 Re-Slope: 1.000000
 A1 (Gain): 0.299966 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001846
 Predicted MQL: 0.006154

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00060	.000	1
S1	1.0000	1.0000	.000	.000	.30230	.003	1

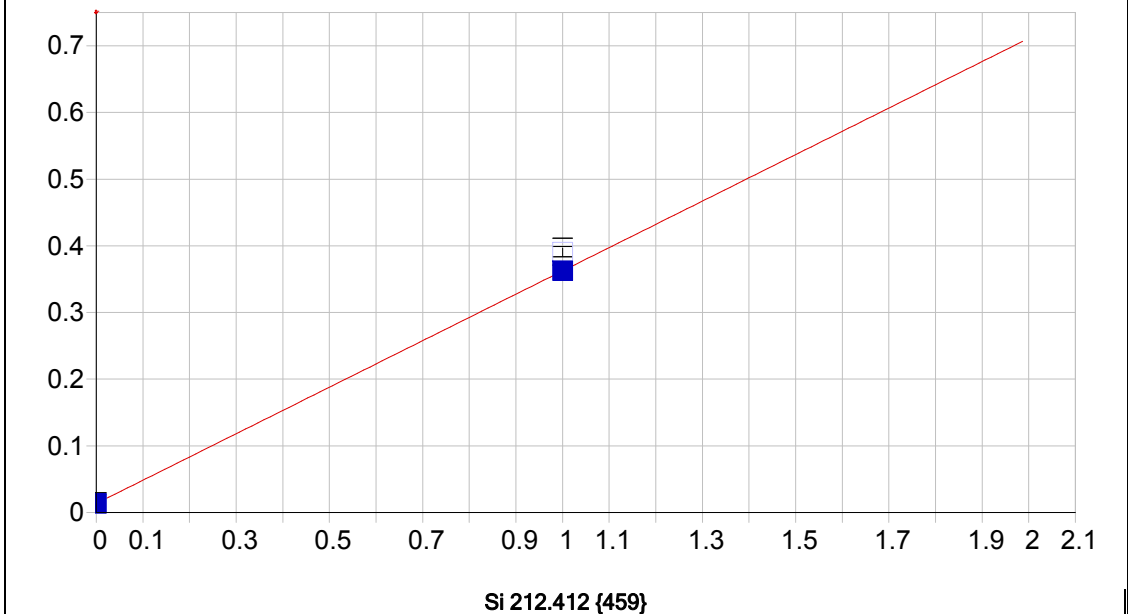


Se 196.090 {472}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000866 Re-Slope: 1.000000
 A1 (Gain): 0.174517 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002970
 Predicted MQL: 0.009899

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00087	.000	1
S1	1.0000	1.0000	.000	.000	.17538	.000	1



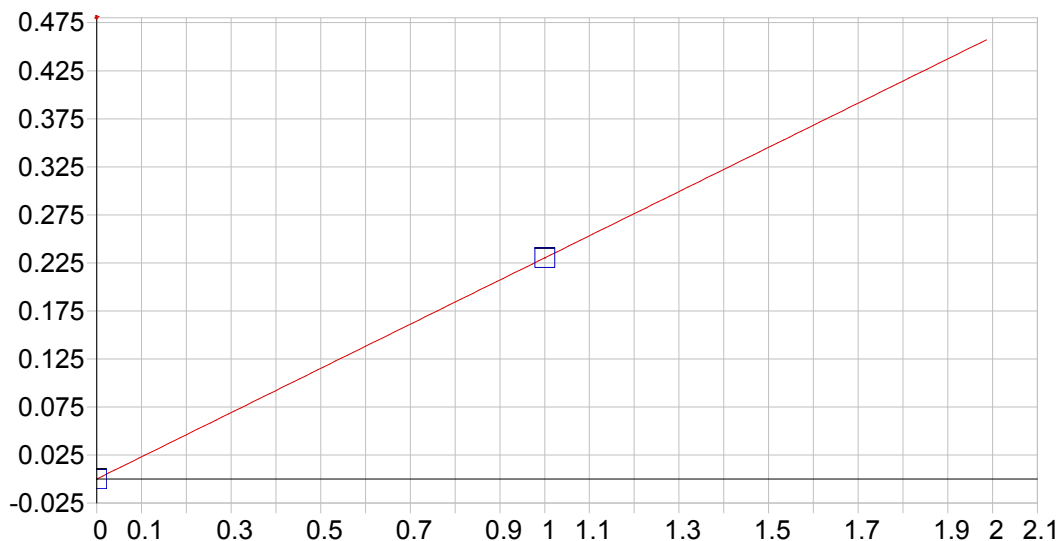
Si 212.412 {459}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.013503 Re-Slope: 1.000000
 A1 (Gain): 0.348930 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001229
 Predicted MQL: 0.004095

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01350	.001	1
S1	1.0000	1.0000	.000	.000	.39022	.006	1

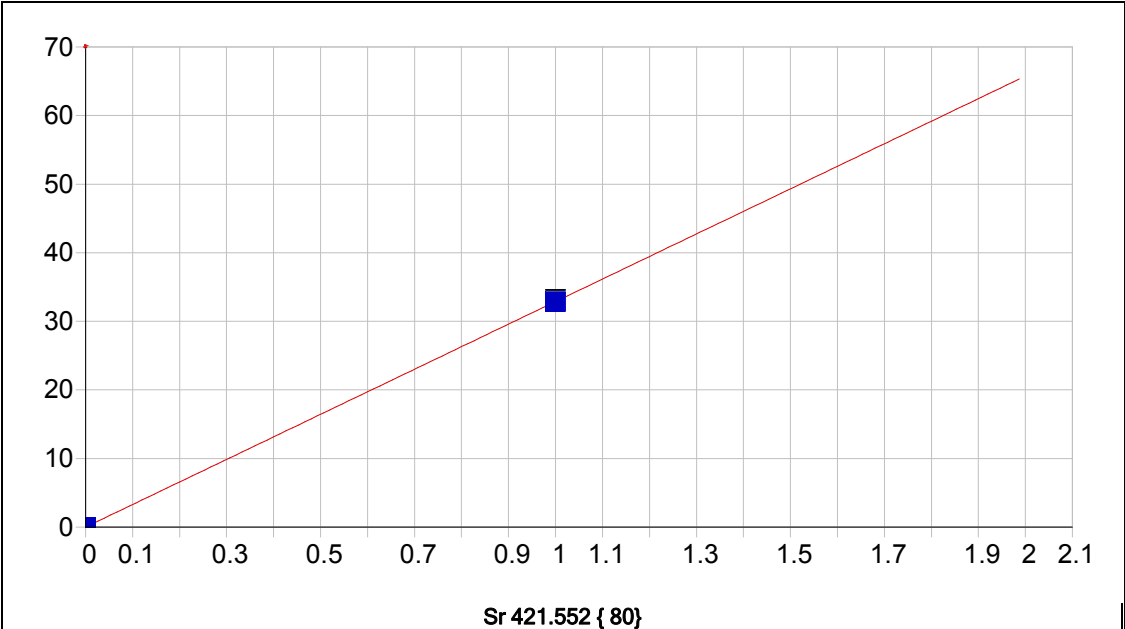


Sn 189.989 (477)

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000042 Re-Slope: 1.000000
 A1 (Gain): 0.230160 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001733
 Predicted MQL: 0.005775

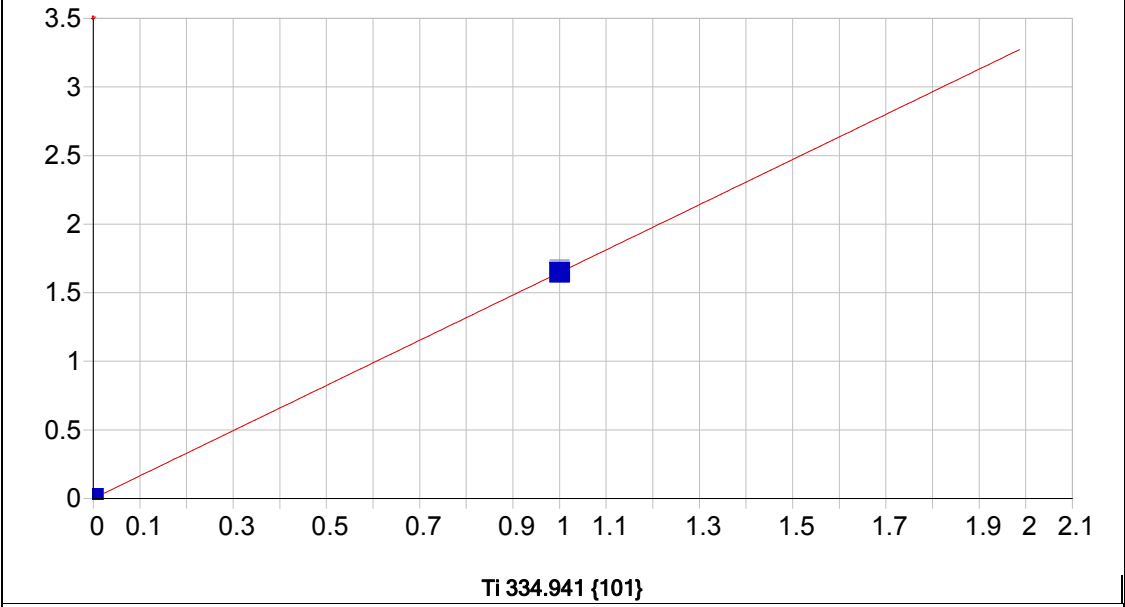
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00004	.000	1
S1	1.0000	1.0000	.000	.000	.23020	.000	1



Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001087 Re-Slope: 1.000000
 A1 (Gain): 32.875314 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000015
 Predicted MQL: 0.000049

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00109	.000	1
S1	1.0000	1.00000	.000	.000	32.882	.265	1

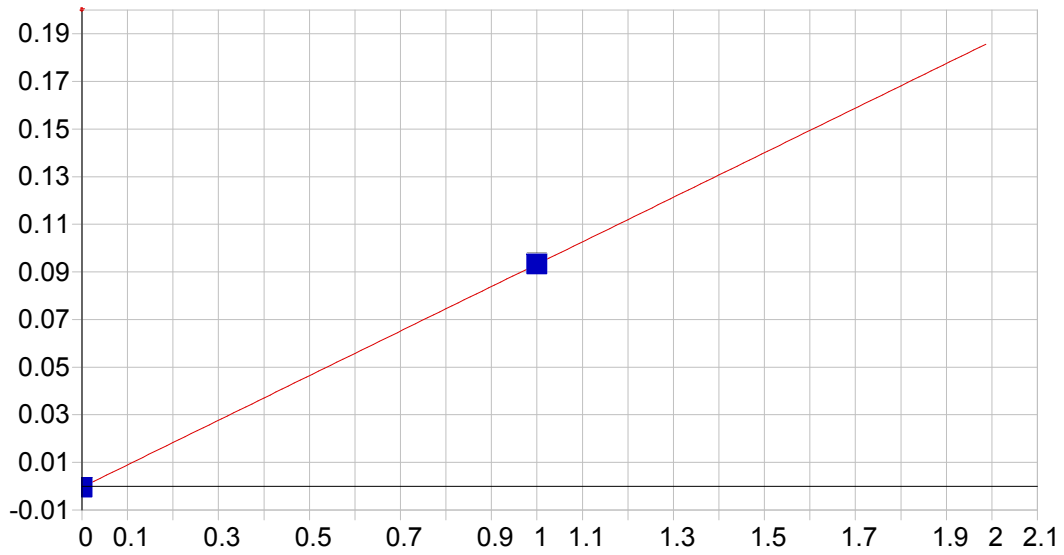


Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000607 Re-Slope: 1.000000
 A1 (Gain): 1.646890 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000173
 Predicted MQL: 0.000576

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00061	.000	1
S1	1.0000	1.00000	.000	.000	1.6625	.001	1

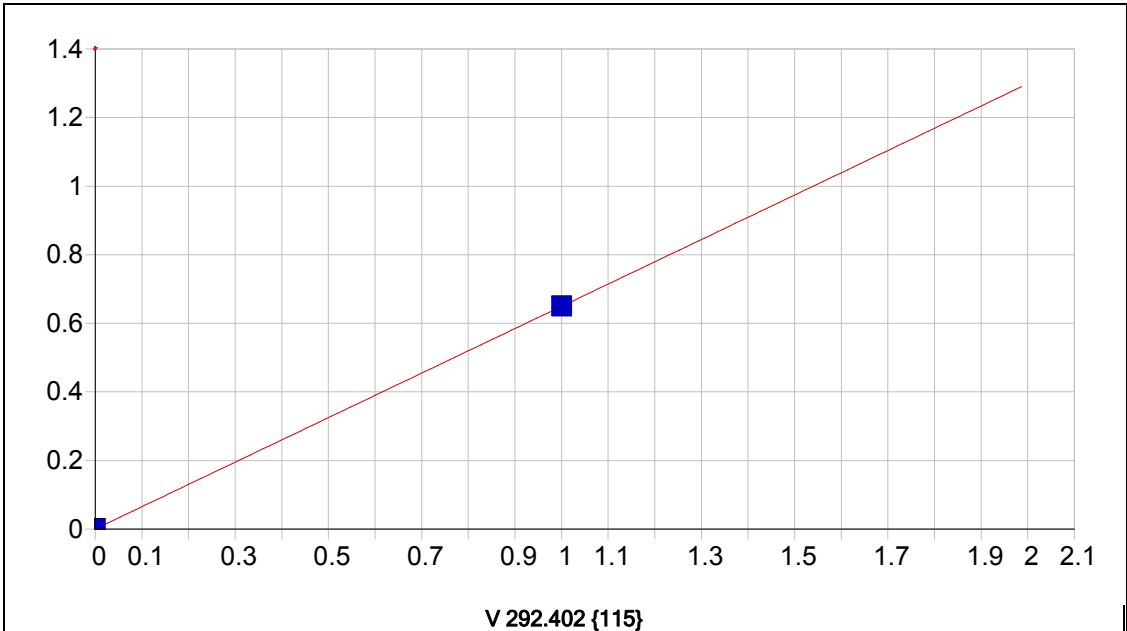


TI 190.856 {477}

Date of Fit: 9/4/2018 15:39:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000394 Re-Slope: 1.000000
 A1 (Gain): 0.093645 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002390
 Predicted MQL: 0.007968

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00039	.000	1
S1	1.0000	1.0000	.000	.000	.09347	.000	1

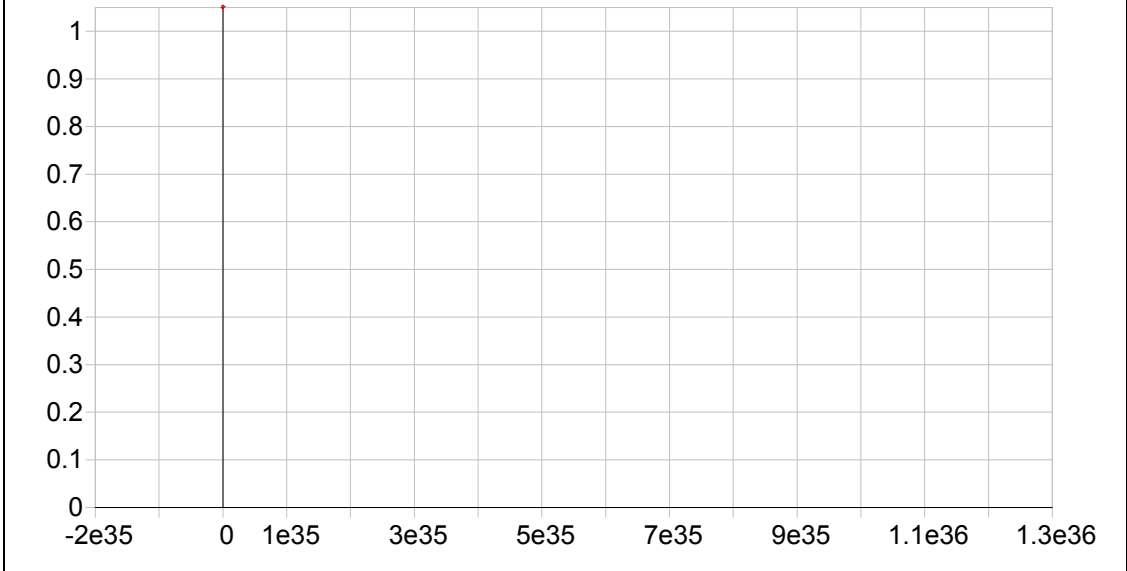


V 292.402 {115}

Date of Fit: 9/4/2018 15:39:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000442 Re-Slope: 1.000000
 A1 (Gain): 0.649074 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000567
 Predicted MQL: 0.001891

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00044	.000	1
S1	1.0000	1.00000	.000	.000	.64944	.001	1



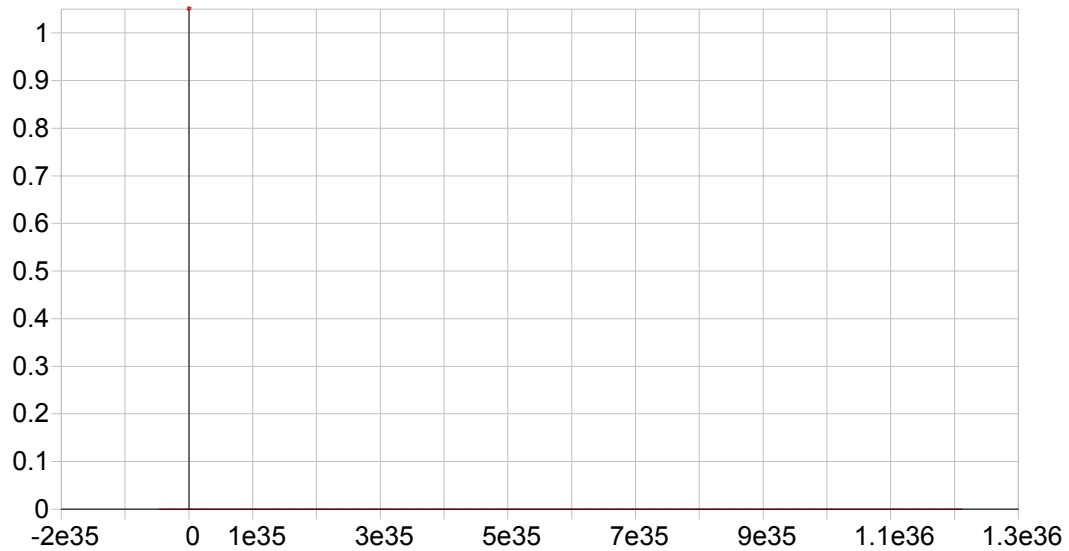
Y 224.306 {450}*

Date of Fit: 5/31/2018 15:53:17 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

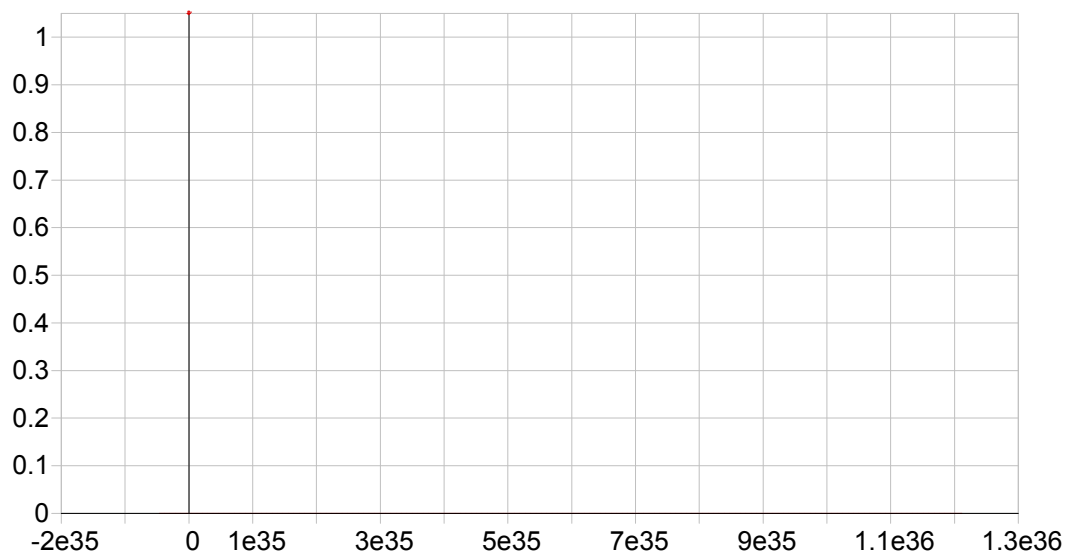
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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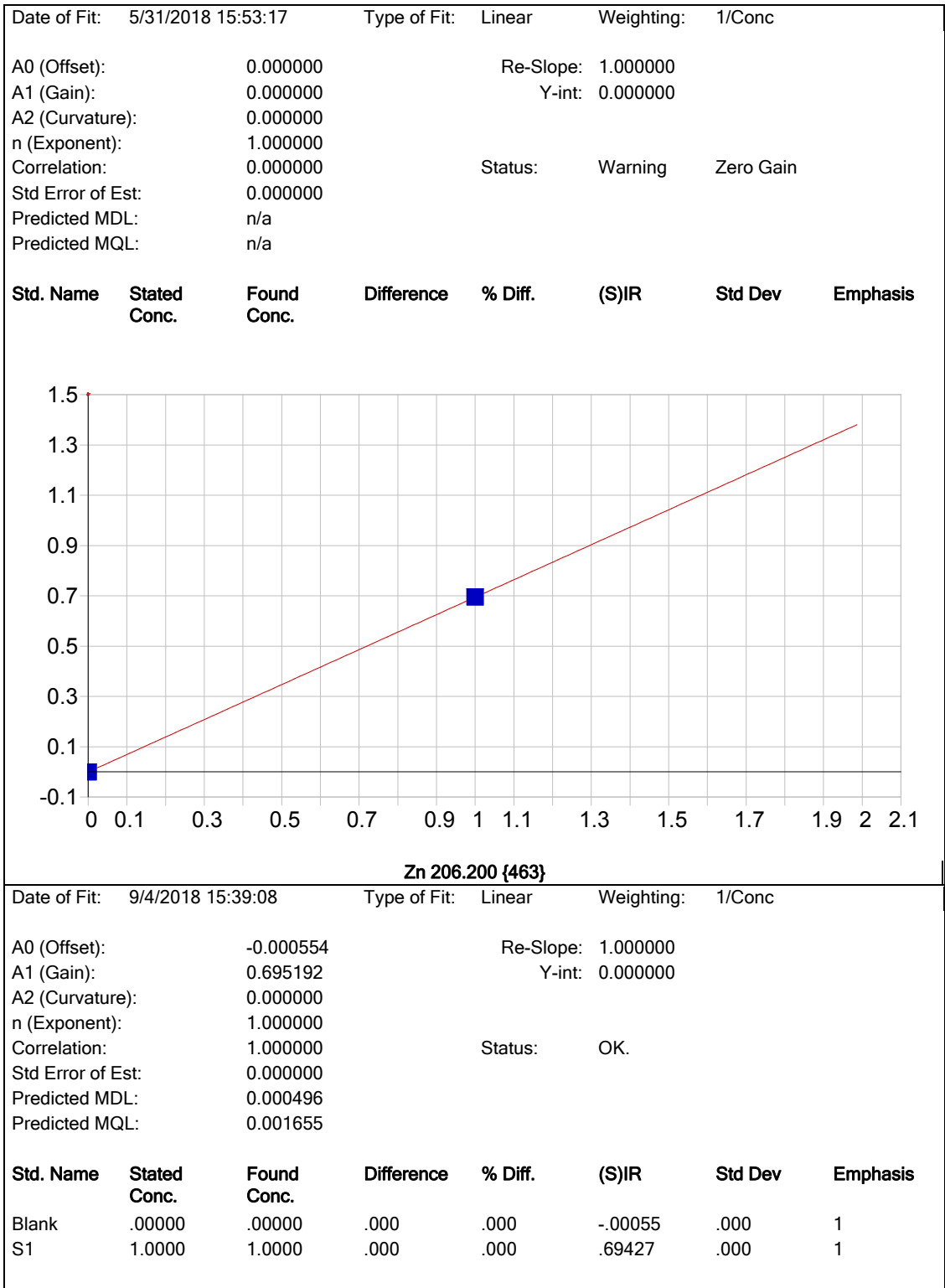
Y 360.073 { 94}*

Date of Fit: 5/31/2018 15:53:17 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Y 371.030 { 91}*



Sample Name: Blank Acquired: 9/4/2018 15:31:15 Type: Cal
 Method: P6090418AAA Mode: IR Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00056	.00203	-.00126	.00370	.00854	-.00009	-.00060
Stddev	.00012	.00068	.00016	.00020	.00043	.00009	.00035
%RSD	21.422	33.509	12.439	5.4661	4.9913	101.65	57.750

#1	-.00065	.00251	-.00137	.00384	.00824	-.00002	-.00084
#2	-.00048	.00155	-.00115	.00355	.00885	-.00015	-.00035

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00443	.0011	-.0937	.00029	.00023	.01632	-.00002
Stddev	.00012	.0003	2.143	.00009	.00002	.00005	.00005
%RSD	2.6810	24.21	2286.	32.744	9.4467	.30350	208.59

#1	.00434	.0009	-1.609	.00022	.00024	.01628	.00001
#2	.00451	.0013	1.422	.00035	.00021	.01635	-.00006

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00119	-.0031	-.00016	.00033	-.00025	.00901	.00651
Stddev	.00072	.0013	.00012	.00009	.00035	.00199	.00010
%RSD	61.012	41.54	73.974	25.689	141.42	22.096	1.4990

#1	.00067	-.0022	-.00024	.00039	.00000	.00760	.00658
#2	.00170	-.0040	-.00007	.00027	-.00049	.01042	.00644

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00052	.00060	.00087	.01350	.00004	.00109	.00061
Stddev	.00031	.00002	.00008	.00084	.00013	.00032	.00027
%RSD	60.213	2.7209	9.1156	6.2351	296.90	29.759	44.161

#1	-.00075	.00061	.00081	.01291	-.00005	.00132	.00042
#2	-.00030	.00059	.00092	.01410	.00013	.00086	.00080

Elem	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	-.00039	.00044	-.00055
Stddev	.00010	.00009	.00013
%RSD	24.277	20.058	23.011

#1	-.00046	.00051	-.00046
#2	-.00033	.00038	-.00064

Sample Name: Blank Acquired: 9/4/2018 15:31:15 Type: Cal
Method: P6090418AAA Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2106.7	1208.8	11167.	4290.9
Stddev	26.6	43.4	206.	43.2
%RSD	1.2639	3.5908	1.8421	1.0067
#1	2125.5	1239.5	11312.	4260.4
#2	2087.9	1178.2	11022.	4321.5

Sample Name: S1 Acquired: 9/4/2018 15:35:16 Type: Cal
 Method: P6090418AAA Mode: IR Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.54551	.17964	1.1715	7.2162	.78138	.21609	2.921	.83960
Stddev	.00047	.00172	.0057	.0280	.00640	.00122	.015	.00226
%RSD	.08695	.95984	.48346	.38780	.81955	.56258	.5219	.26905

#1	.54518	.17842	1.1675	7.1965	.77686	.21523	2.910	.83800
#2	.54585	.18086	1.1755	7.2360	.78591	.21695	2.932	.84119

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.32234	1.3076	3.681	.44327	1.1298	.28570	.18323	.30230
Stddev	.00045	.0067	.015	.00158	.0050	.00062	.00016	.00280
%RSD	.14063	.51255	.4021	.35651	.43938	.21659	.08704	.92545

#1	.32202	1.3123	3.670	.44215	1.1263	.28526	.18334	.30032
#2	.32266	1.3029	3.691	.44439	1.1333	.28614	.18311	.30428

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.17538	.39022	.23020	32.882	1.6625	.09347	.64944	.69427
Stddev	.00037	.00624	.00007	.265	.0006	.00014	.00058	.00017
%RSD	.20846	1.5990	.02833	.80475	.03411	.15457	.08956	.02517

#1	.17512	.38581	.23025	33.069	1.6629	.09357	.64985	.69439
#2	.17564	.39463	.23016	32.695	1.6621	.09336	.64903	.69414

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.6	1024.2	9679.0	4291.7
Stddev	6.6	6.4	28.2	7.9
%RSD	.34759	.62422	.29153	.18385

#1	1917.3	1028.7	9659.1	4297.3
#2	1907.9	1019.7	9699.0	4286.1

Sample Name: S2 Acquired: 9/4/2018 15:39:11 Type: Cal
 Method: P6090418AAA Mode: IR Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3048	7.7918	.39896	9.4877	1.1250	34.196
Stddev	.0030	.0378	.00238	.0151	.0049	.098
%RSD	.13072	.48536	.59569	.15939	.43511	.28732
#1	2.3027	7.7651	.39728	9.4984	1.1216	34.266
#2	2.3070	7.8186	.40064	9.4770	1.1285	34.127

Int. Std.	Y_3710
Units	Cts/S
Avg	4128.0
Stddev	7.1
%RSD	.17127
#1	4123.0
#2	4133.0

Sample Name: CE Acquired: 9/4/2018 15:43:11 Type: Cal
Method: P6090418AAA Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ce4040
Units	Cts/S
Avg	2008.
Stddev	6.
%RSD	.3230
#1	2003.
#2	2012.

Sample Name: S1 Acquired: 9/4/2018 15:47:14 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090418B

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000395	-.024768	.9989332	1.006038	1.003739	.9925423
Stddev	.000884	.001845	.0066366	.007378	.003661	.0041340
%RSD	.0883179	7.448489	.6643668	.7333261	.3647263	.4165029
#1	.999770	-.023463	.9942404	1.000822	1.001151	.9896191
#2	1.001020	-.026072	1.003626	1.011255	1.006328	.9954654

Check ? **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.004545	.0215187	1.002126	F -.012711	.9964644	.9966649
Stddev	.004438	.0007371	.004877	.003342	.0000227	.0020582
%RSD	.4418365	3.425490	.4866620	26.29360	.0022807	.2065124
#1	1.007684	.0209975	.998678	-.010347	.9964805	.9981203
#2	1.001407	.0220399	1.005575	-.015074	.9964484	.9952095

Check ? **Chk Pass** None **Chk Pass** **Chk Fail**
 Value **1.000000**
 Range **-5.00000%**

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.004407	.0574738	-.034137	1.007513	-.012722	.9932693
Stddev	.000817	.0278105	.007324	.004945	.004790	.0033091
%RSD	.0813458	48.38808	21.45368	.4908402	37.65303	.3331504
#1	1.004985	.0771387	-.039315	1.004017	-.016110	.9909294
#2	1.003829	.0378088	-.028958	1.011010	-.009335	.9956092

Check ? **Chk Pass** None None **Chk Pass** None **Chk Pass**
 Value
 Range

Sample Name: S1 Acquired: 9/4/2018 15:47:14 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090418B

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.005324	.0239025	.9961122	.9972540	1.005510	1.005486
Stddev	.004780	.0000537	.0002923	.0008793	.002035	.005195
%RSD	.4754410	.2248064	.0293493	.0881755	.2023836	.5166168

#1	1.001944	.0239405	.9959054	.9978758	1.004071	1.001813
#2	1.008704	.0238645	.9963189	.9966322	1.006949	1.009160

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9968175	1.000066	1.003599	.9996131	.9982675	.9926085
Stddev	.0130962	.000528	.002240	.0010005	.0010724	.0005082
%RSD	1.313800	.0528360	.2232042	.1000875	.1074294	.0511969

#1	.9875571	1.000440	1.005183	1.000321	.9990258	.9929678
#2	1.006078	.999693	1.002015	.998906	.9975092	.9922491

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9944967
Stddev	.0010279
%RSD	.1033636

#1	.9937698
#2	.9952235

Check ?	Chk Pass
Value	
Range	

Sample Name: S1 Acquired: 9/4/2018 15:47:14 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090418B

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1903.398	1014.314	9607.327	4276.809
Stddev	1.302	3.639	25.594	16.676
%RSD	.0683936	.3587939	.2663980	.3899073
#1	1902.477	1016.888	9589.229	4288.600
#2	1904.319	1011.741	9625.424	4265.017

Sample Name: S2 Acquired: 9/4/2018 15:51:09 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005634	100.2471	.0010073	.0010274	-.000261	.0002999	-.000095
Stddev	.0001262	.1285	.0031369	.0003003	.000106	.0001821	.000791
%RSD	22.39653	.1281998	311.4271	29.23075	40.77441	60.71065	833.7697
#1	.0006526	100.1563	.0032254	.0012398	-.000186	.0004287	-.000654
#2	.0004742	100.3380	-.001211	.0008151	-.000336	.0001712	.000464

Check ? None **Chk Pass** None None None None None
 Value Range

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.99031	.0009804	.0173708	-.000687	-.000191	.0015031	100.0372
Stddev	.36806	.0000286	.0103709	.000111	.000637	.0000262	.4655
%RSD	.3680949	2.914267	59.70309	16.12799	332.4119	1.744242	.4653657
#1	99.73006	.0009602	.0247041	-.000766	-.000642	.0015217	99.7080
#2	100.2506	.0010006	.0100375	-.000609	.000259	.0014846	100.3664

Check ? **Chk Pass** None None None None None **Chk Pass**
 Value Range

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.88479	-.000536	99.84581	-.000074	-.000765	99.24636	.0024418
Stddev	.03202	.000038	.24197	.000237	.001139	.09545	.0000029
%RSD	.0320588	7.006655	.2423428	318.8727	148.9014	.0961771	.1181545
#1	99.90743	-.000563	99.67471	-.000242	.000040	99.31386	.0024398
#2	99.86214	-.000510	100.0169	.000093	-.001570	99.17887	.0024439

Check ? **Chk Pass** None **Chk Pass** None None **Chk Pass** None
 Value Range

Sample Name: S2 Acquired: 9/4/2018 15:51:09 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000290	.0065495	.0005404	-.001499	.0043405	.0011710	.0017963
Stddev	.003221	.0020241	.0014856	.000597	.0003398	.0000158	.0000420
%RSD	1112.478	30.90527	274.9244	39.86940	7.827722	1.352216	2.335680
#1	-.002567	.0079808	.0015909	-.001921	.0041002	.0011822	.0017667
#2	.001988	.0051182	-.000510	-.001076	.0045807	.0011598	.0018260

Check ? None None None None None None None
 Value
 Range

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002439	.0015944	.0023334
Stddev	.001416	.0001971	.0002383
%RSD	58.07281	12.36040	10.21417
#1	-.001437	.0014551	.0021649
#2	-.003441	.0017338	.0025019

Check ? None None None
 Value
 Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1654.691	958.2663	8924.656	4128.350
Stddev	4.306	2.3627	17.282	4.128
%RSD	.2602029	.2465598	.1936477	.0999900
#1	1651.646	956.5956	8912.435	4125.432
#2	1657.735	959.9370	8936.877	4131.269

Sample Name: ICV Acquired: 9/4/2018 15:55:08 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3911827	40.23547	.4058183	.4050554	.3965429	.3924753
Stddev	.0002225	.15357	.0004448	.0003041	.0020204	.0015068
%RSD	.0568711	.3816880	.1096137	.0750719	.5095058	.3839194
#1	.3913400	40.12688	.4061329	.4048404	.3951143	.3935407
#2	.3910253	40.34406	.4055038	.4052705	.3979716	.3914098

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4083423	20.37825	.4058656	F -.039924	.3975268	.3898434
Stddev	.0005509	.08197	.0014287	.003476	.0014107	.0007725
%RSD	.1349220	.4022294	.3520145	8.706814	.3548822	.1981459
#1	.4079527	20.43621	.4048553	-.042382	.3965293	.3903896
#2	.4087319	20.32029	.4068758	-.037466	.3985244	.3892972

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Fail** **Chk Pass** **Chk Pass**
 Value
 Range **.4000000**
 -10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4091882	20.44586	39.92520	3.113018	19.90520	3.872356
Stddev	.0023832	.00635	.10722	.017279	.05741	.008693
%RSD	.5824119	.0310377	.2685613	.5550694	.2884267	.2244872
#1	.4075030	20.45034	39.84938	3.100799	19.86460	3.878503
#2	.4108733	20.44137	40.00102	3.125236	19.94580	3.866209

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Sample Name: ICV Acquired: 9/4/2018 15:55:08 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3886372	19.87517	.3948846	.4023561	.3877517	.3985359
Stddev	.0021242	.07845	.0024840	.0019812	.0045268	.0020198
%RSD	.5465641	.3946984	.6290374	.4923959	1.167439	.5068034

#1	.3871352	19.81970	.3931282	.4009552	.3845508	.3971077
#2	.3901392	19.93064	.3966410	.4037570	.3909526	.3999641

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .3541422	.4072300	.4054640	.3982109	.3989971	3.904756
Stddev	.0039807	.0007353	.0012894	.0001658	.0034087	.011566
%RSD	1.124028	.1805637	.3180030	.0416461	.8543245	.2961947

#1	.3513274	.4077500	.4045523	.3983281	.3965868	3.896578
#2	.3569569	.4067101	.4063758	.3980936	.4014075	3.912934

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.4000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.3939243
Stddev	.0012300
%RSD	.3122545

#1	.3930545
#2	.3947940

Check ?	Chk Pass
Value	
Range	

Sample Name: ICV Acquired: 9/4/2018 15:55:08 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1785.182	984.0520	9275.484	4236.232
Stddev	5.402	2.3756	37.090	26.650
%RSD	.3025785	.2414051	.3998714	.6291052
#1	1789.002	985.7318	9301.710	4217.388
#2	1781.363	982.3723	9249.257	4255.077

Sample Name: ICB Acquired: 9/4/2018 15:58:58 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0008616	-.024309	.0004819	.0004875	.0002165	.0003675	.0007321
Stddev	.0000569	.008502	.0010203	.0003690	.0001213	.0005046	.0006031
%RSD	6.600484	34.97661	211.7350	75.69923	56.05077	137.2948	82.37001

#1	.0009018	-.018297	.0012034	.0007484	.0003023	.0000107	.0003057
#2	.0008213	-.030321	-.000240	.0002265	.0001307	.0007243	.0011585

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0152220	.0003215	.0011282	-.000137	-.000184	.0012617	.0486958
Stddev	.0030135	.0000606	.0075377	.000108	.000150	.0002007	.0163101
%RSD	19.79685	18.85522	668.0940	79.23273	81.56514	15.90481	33.49394

#1	.0130911	.0003644	-.004202	-.000213	-.000290	.0011198	.0602287
#2	.0173529	.0002787	.006458	-.000060	-.000078	.0014035	.0371628

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.007179	.0009441	.0114525	-.000375	.0003306	.0225847	-.000474
Stddev	.006931	.0000846	.0033871	.000015	.0001070	.0014622	.000689
%RSD	96.54782	8.958108	29.57505	3.968238	32.35030	6.474062	145.1560

#1	-.002278	.0010039	.0138475	-.000365	.0004062	.0236186	.000013
#2	-.012080	.0008843	.0090574	-.000386	.0002550	.0215508	-.000962

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: ICB Acquired: 9/4/2018 15:58:58 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008401	.0043987	-.000688	.0095733	-.000390	.0002826	.0012242
Stddev	.0005077	.0004759	.000553	.0016858	.000542	.0000118	.0001385
%RSD	60.42982	10.81824	80.38427	17.60986	138.7199	4.167739	11.31721
#1	.0011991	.0040622	-.001078	.0083812	-.000773	.0002909	.0013221
#2	.0004811	.0047352	-.000297	.0107654	-.000007	.0002743	.0011262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0007714	.0002488	-.000120
Stddev	.0008410	.0000076	.000044
%RSD	109.0194	3.065483	36.22859
#1	.0013661	.0002542	-.000090
#2	.0001767	.0002434	-.000151
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1978.257	1067.109	9538.571	4262.283
Stddev	117.417	76.780	8.607	6.193
%RSD	5.935395	7.195162	.0902330	.1452978
#1	1895.230	1012.817	9532.485	4266.663
#2	2061.284	1121.401	9544.657	4257.904

Sample Name: ICVL Acquired: 9/4/2018 16:03:01 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055102	.1676355	.0085158	.0492738	.0098950	.0041453
Stddev	.0000761	.0043576	.0004850	.0024037	.0001448	.0000880
%RSD	1.380764	2.599449	5.695142	4.878204	1.463249	2.122964

#1	.0054564	.1645542	.0088588	.0509734	.0099974	.0040831
#2	.0055640	.1707168	.0081729	.0475741	.0097926	.0042075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0488583	.2080609	.0021786	.0037738	.0047001	.0100129
Stddev	.0018949	.0025576	.0002430	.0032462	.0002423	.0001043
%RSD	3.878361	1.229262	11.15287	86.01918	5.154340	1.041691

#1	.0501982	.2098694	.0023505	.0060692	.0045288	.0100867
#2	.0475184	.2062524	.0020068	.0014784	.0048714	.0099392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115288	.2399125	.4791147	.0107687	.1180767	.0099125
Stddev	.0000284	.0115542	.0246615	.0002815	.0188329	.0002196
%RSD	.2463534	4.816020	5.147299	2.614337	15.94972	2.215544

#1	.0115489	.2480826	.4965531	.0109678	.1047598	.0100678
#2	.0115088	.2317425	.4616765	.0105697	.1313935	.0097572

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 9/4/2018 16:03:01 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098501	1.031171	.0102608	F .0027523	.0204811	.0087646
Stddev	.0005183	.005400	.0024257	.0002594	.0017583	.0015863
%RSD	5.261755	.5237228	23.64086	9.423298	8.584890	18.09913

#1	.0102166	1.034990	.0119761	.0025689	.0217244	.0098863
#2	.0094836	1.027352	.0085455	.0029357	.0192378	.0076429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1605876	.0383912	.0059691	.0052066	.0100716	.0052655
Stddev	.0046290	.0009762	.0000140	.0002148	.0019416	.0000986
%RSD	2.882530	2.542786	.2340491	4.124942	19.27764	1.872544

#1	.1638608	.0390815	.0059593	.0050547	.0114445	.0051958
#2	.1573144	.0377009	.0059790	.0053584	.0086987	.0053353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0190149
Stddev	.0007956
%RSD	4.183987

#1	.0195775
#2	.0184523

Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 9/4/2018 16:03:01 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1942.703	1036.941	9571.391	4275.504
Stddev	63.037	38.084	12.614	4.949
%RSD	3.244832	3.672705	.1317882	.1157410
#1	1898.128	1010.012	9580.310	4272.005
#2	1987.277	1063.871	9562.471	4279.003

Sample Name: CRI Acquired: 9/4/2018 16:07:04 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104927	.3622219	.0189396	.1010789	.0202651	.0079306
Stddev	.0004970	.0112708	.0003451	.0016636	.0000100	.0000996
%RSD	4.736196	3.111561	1.821866	1.645831	.0494182	1.256136

#1	.0108441	.3701915	.0191836	.1022552	.0202721	.0080011
#2	.0101413	.3542523	.0186957	.0999026	.0202580	.0078602

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0975485	.4087739	.0043001	F .0040072	.0105141	.0201060
Stddev	.0040620	.0026231	.0003029	.0066574	.0001565	.0012728
%RSD	4.164086	.6417122	7.044300	166.1358	1.488631	6.330657

#1	.1004207	.4069190	.0045143	-.000700	.0104034	.0210060
#2	.0946762	.4106287	.0040859	.008715	.0106247	.0192059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0100000		
Range				-50.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218105	.4517607	.9975142	.0209883	.2176918	.0199646
Stddev	.0003251	.0209057	.0034091	.0000126	.0120274	.0002811
%RSD	1.490764	4.627601	.3417594	.0597959	5.524954	1.408132

#1	.0220404	.4665433	.9999248	.0209794	.2091872	.0197658
#2	.0215806	.4369782	.9951036	.0209971	.2261965	.0201633

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRI Acquired: 9/4/2018 16:07:04 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193802	2.058002	.0211291	.0080835	.0381409	.0206743
Stddev	.0005761	.012050	.0014920	.0003100	.0010605	.0011018
%RSD	2.972822	.5855175	7.061298	3.834378	2.780605	5.329334

#1	.0197876	2.049481	.0221841	.0078644	.0373910	.0198952
#2	.0189728	2.066522	.0200741	.0083027	.0388909	.0214534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3330512	.0791936	.0105893	.0102638	.0214428	.0103018
Stddev	.0006264	.0019564	.0000395	.0000965	.0022859	.0004241
%RSD	.1880685	2.470430	.3733557	.9400471	10.66029	4.116680

#1	.3334941	.0805770	.0106173	.0103320	.0230592	.0100019
#2	.3326083	.0778102	.0105614	.0101955	.0198265	.0106016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0396104
Stddev	.0009259
%RSD	2.337450

#1	.0402651
#2	.0389557

Check ?	Chk Pass
Value	
Range	

Sample Name: CRI Acquired: 9/4/2018 16:07:04 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1927.245	1026.637	9574.767	4280.440
Stddev	21.414	10.372	21.056	5.611
%RSD	1.111095	1.010278	.2199089	.1310907
#1	1912.104	1019.303	9559.878	4284.408
#2	1942.387	1033.971	9589.656	4276.472

Sample Name: ICSA Acquired: 9/4/2018 16:11:07 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002604	508.5040	-.004618	.0002737	-.000346	-.000113
Stddev	.0003397	2.5633	.004834	.0001795	.000064	.000009
%RSD	130.4535	.5040865	104.6843	65.59714	18.53068	7.646330

#1	.0000202	506.6915	-.001199	.0001467	-.000301	-.000119
#2	.0005006	510.3166	-.008036	.0004006	-.000392	-.000107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000739	483.3951	.0008710	F .0292207	-.001482	.0015044
Stddev	.001144	.8891	.0001228	.0047483	.000306	.0008924
%RSD	154.7710	.1839213	14.09944	16.24996	20.65662	59.32068

#1	-.001549	482.7665	.0007842	.0258631	-.001699	.0021355
#2	.000070	484.0238	.0009578	.0325782	-.001266	.0008734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008941	189.3751	-.036139	-.000229	511.3523	-.000692
Stddev	.0007390	.6572	.008329	.000254	1.1973	.000101
%RSD	82.64889	.3470397	23.04627	110.7092	.2341531	14.58190

#1	.0003716	188.9104	-.042028	-.000409	510.5057	-.000621
#2	.0014167	189.8399	-.030249	-.000050	512.1990	-.000764

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 9/4/2018 16:11:07 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003777	.0922752	.0008714	.0002279	.0000265	.0019014
Stddev	.000149	.0008678	.0017093	.0020139	.0046978	.0123432
%RSD	3.946231	.9404904	196.1416	883.8234	17703.33	649.1583

#1	-.003882	.0928889	.0020801	-.001196	.0033484	.0106293
#2	-.003671	.0916616	-.000337	.001652	-.003295	-.006827

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004284	.0086551	.0045955	-.002319	.0015968	.0033818
Stddev	.003285	.0002173	.0000110	.000130	.0035899	.0002708
%RSD	76.68598	2.510800	.2400554	5.598134	224.8176	8.008627

#1	-.006606	.0088088	.0045877	-.002228	-.000942	.0031903
#2	-.001961	.0085014	.0046033	-.002411	.004135	.0035733

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0007202
Stddev	.0004965
%RSD	68.93625

#1	.0010714
#2	.0003692

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICSA Acquired: 9/4/2018 16:11:07 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1476.273	906.9387	8404.567	3959.501
Stddev	7.340	2.0907	13.175	1.792
%RSD	.4972081	.2305180	.1567585	.0452501
#1	1471.082	905.4604	8413.883	3958.235
#2	1481.463	908.4170	8395.251	3960.768

Sample Name: ICSAB Acquired: 9/4/2018 16:15:09 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2089966	510.2419	.0912297	-.000096	.4975763	.5038657
Stddev	.0006914	3.6815	.0029901	.001087	.0011206	.0061841
%RSD	.3308274	.7215213	3.277514	1128.013	.2252094	1.227339
#1	.2094855	507.6387	.0933440	.000672	.4967839	.4994928
#2	.2085077	512.8451	.0891154	-.000865	.4983687	.5082385

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003145	484.2105	1.012174	F .0296133	.5003564	.4573228
Stddev	.000594	5.6039	.000389	.0079438	.0015770	.0002154
%RSD	18.89532	1.157327	.0384422	26.82521	.3151705	.0470975
#1	-.003565	480.2479	1.011899	.0239962	.5014715	.4571705
#2	-.002724	488.1730	1.012449	.0352305	.4992413	.4574751

Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.2000000		
Range				-20.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5612404	189.7849	-.043388	-.000367	513.2142	.4628143
Stddev	.0009401	2.4459	.006969	.000006	4.7923	.0047957
%RSD	.1675102	1.288783	16.06302	1.605015	.9337737	1.036197
#1	.5619051	188.0554	-.038459	-.000362	509.8256	.4594233
#2	.5605756	191.5144	-.048316	-.000371	516.6029	.4662054

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICSAB Acquired: 9/4/2018 16:15:09 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003243	.1044158	.9633021	.0525148	.5557725	.0463327
Stddev	.000858	.0065712	.0055586	.0007835	.0000722	.0042775
%RSD	26.45193	6.293291	.5770325	1.491970	.0129920	9.232074

#1	-.002637	.0997693	.9672326	.0519608	.5557214	.0493573
#2	-.003850	.1090624	.9593716	.0530689	.5558235	.0433081

Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005120	.0121566	.0045350	-.002202	.0967162	.4794168
Stddev	.001046	.0037328	.0000253	.000059	.0025866	.0011447
%RSD	20.42844	30.70569	.5568050	2.675358	2.674456	.2387668

#1	-.005859	.0095172	.0045528	-.002244	.0985453	.4786074
#2	-.004380	.0147961	.0045171	-.002161	.0948872	.4802262

Check ?	None	None	None	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9414961
Stddev	.0042092
%RSD	.4470713

#1	.9444724
#2	.9385198

Check ?	Chk Pass
Value	
Range	

Sample Name: ICSAB Acquired: 9/4/2018 16:15:09 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1474.384	904.4860	8416.822	3945.014
Stddev	4.509	.4545	7.577	21.026
%RSD	.3058341	.0502471	.0900188	.5329862
#1	1471.195	904.8073	8411.465	3959.882
#2	1477.572	904.1646	8422.180	3930.146

Sample Name: AL Acquired: 9/4/2018 16:19:02 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004034	F 479.8272	.0009042	.0006170	-.000204	-.000158
Stddev	.0004832	1.7881	.0034060	.0011118	.000035	.000058
%RSD	119.7751	.3726601	376.6953	180.2038	17.00987	36.72388

#1	.0007451	478.5628	-.001504	.0014032	-.000179	-.000199
#2	.0000617	481.0916	.003313	-.000169	-.000228	-.000117

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.1000000				
Low Limit		-.1000000				

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	.0450365	.0007814	F -.002677	-.000488	.0005860
Stddev	.001316	.0099045	.0000085	.010717	.000256	.0002438
%RSD	6401.810	21.99224	1.083347	400.3887	52.42085	41.60379

#1	-.000951	.0520401	.0007754	-.010255	-.000307	.0004136
#2	.000910	.0380330	.0007874	.004901	-.000669	.0007584

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.0025000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039813	F .1015999	-.033908	.0004535	F .0562899	.0001028
Stddev	.0000671	.0512671	.009594	.0005230	.0152162	.0003392
%RSD	1.685215	50.45972	28.29513	115.3317	27.03188	329.9348

#1	.0039339	.0653487	-.027124	.0008234	.0670494	-.000137
#2	.0040288	.1378512	-.040693	.0000837	.0455304	.000343

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		.1000000			.0500000	
Low Limit		-.1000000			-.0500000	

Sample Name: AL Acquired: 9/4/2018 16:19:02 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001727	.0504084	-.004156	F .0095885	.0053953	.0038078
Stddev	.000214	.0008506	.000685	.0008912	.0051353	.0021720
%RSD	12.36905	1.687426	16.47623	9.294766	95.18233	57.04126

#1	-.001576	.0510099	-.003672	.0102187	.0090265	.0053437
#2	-.001878	.0498070	-.004640	.0089583	.0017640	.0022720

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.002500		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003777	.0043756	.0000610	.0000695	.0022818	.0003386
Stddev	.000457	.0010338	.0000000	.0000943	.0014194	.0002483
%RSD	12.11097	23.62654	.0423483	135.6107	62.20334	73.33459

#1	-.003454	.0036446	.0000610	.0001362	.0012782	.0001630
#2	-.004101	.0051066	.0000611	.0000029	.0032854	.0005142

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0019884
Stddev	.0009802
%RSD	49.29483

#1	.0026815
#2	.0012953

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: AL Acquired: 9/4/2018 16:19:02 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1789.355	1047.986	9247.617	4218.555
Stddev	38.257	23.599	3.403	11.926
%RSD	2.138050	2.251856	.0367996	.2827037
#1	1762.303	1031.299	9245.210	4210.122
#2	1816.407	1064.673	9250.023	4226.988

Sample Name: FE Acquired: 9/4/2018 16:23:07 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004857	-.013608	.0012265	-.001793	-.000331	.0001777
Stddev	.0004914	.018666	.0000150	.000430	.000035	.0000119
%RSD	101.1813	137.1680	1.221777	23.95939	10.60448	6.668826
#1	.0001382	-.000409	.0012371	-.001489	-.000356	.0001861
#2	.0008332	-.026806	.0012159	-.002097	-.000306	.0001693

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001024	.0035928	.0000300	F .0233040	-.001611	.0009735
Stddev	.000607	.0031560	.0002226	.0079779	.000379	.0006047
%RSD	59.29767	87.84268	741.6318	34.23388	23.52734	62.11480
#1	-.001453	.0058245	-.000127	.0176628	-.001878	.0014011
#2	-.000595	.0013612	.000187	.0289452	-.001343	.0005460

Check ? Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit .0025000
Low Limit -.002500

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000253	F 206.9288	-.064818	.0008125	-.021410	.0000386
Stddev	.000192	1.4238	.008463	.0000194	.013447	.0003455
%RSD	75.63689	.6880847	13.05604	2.387828	62.80756	894.3683
#1	-.000389	205.9220	-.058834	.0007987	-.030919	-.000206
#2	-.000118	207.9356	-.070802	.0008262	-.011902	.000283

Check ? Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass
High Limit .1000000
Low Limit -.100000

Sample Name: FE Acquired: 9/4/2018 16:23:07 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000587	.0224901	-.002201	F -.002707	.0019240	-.000974
Stddev	.001234	.0005873	.002057	.000591	.0002966	.000592
%RSD	210.3887	2.611359	93.44677	21.81197	15.41283	60.78811

#1	-.001459	.0229054	-.000747	-.002290	.0021337	-.000556
#2	.000286	.0220748	-.003656	-.003125	.0017143	-.001393

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.002500		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001032	.0028805	.0000978	-.000301	.0007623	F .0036965
Stddev	.002974	.0003335	.0000015	.000032	.0012556	.0000363
%RSD	288.2409	11.57861	1.505617	10.57209	164.6996	.9829453

#1	-.003135	.0026446	.0000988	-.000324	-.000125	.0036708
#2	.001071	.0031163	.0000967	-.000279	.001650	.0037222

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.0025000
Low Limit						-.002500

Elem	Zn2062
Units	ppm
Avg	-.000049
Stddev	.000228
%RSD	465.4208

#1	-.000211
#2	.000112

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: FE Acquired: 9/4/2018 16:23:07 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1939.052	1041.260	9450.116	4214.801
Stddev	92.698	60.046	14.939	3.122
%RSD	4.780579	5.766708	.1580794	.0740788
#1	1873.505	998.800	9460.679	4217.008
#2	2004.600	1083.719	9439.553	4212.593

Sample Name: CCV Acquired: 9/4/2018 16:28:11 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4938804	51.14915	.5114070	.5108932	.4981472	.5009669
Stddev	.0022874	.09988	.0025496	.0030460	.0000590	.0000946
%RSD	.4631494	.1952808	.4985513	.5962204	.0118353	.0188880

#1	.4954978	51.07852	.5096041	.5087394	.4981889	.5009000
#2	.4922629	51.21978	.5132098	.5130471	.4981055	.5010338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5171572	25.78187	.5126351	F -.050064	.5054568	.4871682
Stddev	.0029594	.00758	.0026440	.009885	.0016720	.0011776
%RSD	.5722518	.0293957	.5157637	19.74501	.3307828	.2417244

#1	.5150645	25.77651	.5107655	-.057054	.5042745	.4863356
#2	.5192498	25.78723	.5145047	-.043074	.5066390	.4880009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5174924	25.89717	49.83964	3.960781	24.99999	4.912294
Stddev	.0006036	.18310	.03830	.001530	.10780	.011811
%RSD	.1166470	.7070118	.0768458	.0386228	.4312072	.2404280

#1	.5170656	25.76770	49.81256	3.959699	24.92377	4.903943
#2	.5179193	26.02663	49.86672	3.961862	25.07622	4.920646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 16:28:11 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4900198	25.16593	.4993158	.5108911	.4838539	.5025365
Stddev	.0017420	.00235	.0025048	.0007092	.0070118	.0044789
%RSD	.3555026	.0093200	.5016544	.1388247	1.449150	.8912555

#1	.4887880	25.16428	.4975446	.5113926	.4788959	.4993694
#2	.4912516	25.16759	.5010870	.5103896	.4888120	.5057035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4223912	.5182559	.5122086	.5042614	.5024465	4.928529
Stddev	.0014906	.0001898	.0004939	.0005864	.0028911	.003023
%RSD	.3529049	.0366129	.0964296	.1162900	.5754020	.0613402

#1	.4213371	.5181217	.5125579	.5038468	.5004022	4.926391
#2	.4234452	.5183900	.5118594	.5046761	.5044908	4.930667

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.4980580
Stddev	.0010229
%RSD	.2053672

#1	.4987813
#2	.4973348

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 16:28:11 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1769.066	984.9351	9232.583	4204.629
Stddev	6.123	5.5051	19.689	.146
%RSD	.3461001	.5589313	.2132538	.0034837
#1	1773.395	988.8278	9218.661	4204.526
#2	1764.737	981.0424	9246.505	4204.733

Sample Name: CCB Acquired: 9/4/2018 16:32:04 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0010262	-.025833	.0018707	-.000084	-.000276	.0001549	.0003037
Stddev	.0000254	.007882	.0030829	.000128	.000065	.0000801	.0005502
%RSD	2.475058	30.51116	164.8000	151.8772	23.42776	51.71465	181.1337

#1	.0010441	-.020260	-.000309	-.000174	-.000230	.0002116	-.000085
#2	.0010082	-.031406	.004051	.000006	-.000322	.0000983	.000693

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	-.002677	.0002862	.0040850	-.000021	.0001484	.0007229	.0478635
Stddev	.001999	.0002390	.0047867	.000061	.0002633	.0004174	.0153603
%RSD	74.67844	83.49778	117.1777	294.4488	177.4592	57.74529	32.09180

#1	-.004091	.0004552	.0007003	.000022	-.000038	.0010180	.0587249
#2	-.001263	.0001172	.0074697	-.000064	.000335	.0004277	.0370022

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.024080	.0012167	.0247523	.0000175	.0005506	.0190311	-.000157
Stddev	.002558	.0003760	.0136952	.0000312	.0002772	.0005102	.000600
%RSD	10.62425	30.90657	55.32880	177.9131	50.34230	2.681138	382.9646

#1	-.025889	.0014826	.0150684	.0000396	.0007466	.0193919	.000267
#2	-.022271	.0009508	.0344362	-.000005	.0003546	.0186703	-.000581

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: CCB Acquired: 9/4/2018 16:32:04 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001033	.0064481	.0004191	.0014462	.0007846	.0000138	.0004564
Stddev	.000307	.0012779	.0029856	.0009014	.0003691	.0000013	.0001545
%RSD	29.75857	19.81816	712.4469	62.32551	47.04652	9.275417	33.84249
#1	-.001250	.0073517	.0025302	.0008089	.0005236	.0000147	.0005656
#2	-.000815	.0055445	-.001692	.0020836	.0010456	.0000129	.0003472

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0005547	.0006892	.0000123
Stddev	.0015430	.0000237	.0000347
%RSD	278.1681	3.433741	282.0845
#1	.0016457	.0007059	.0000368
#2	-.000536	.0006724	-.000012

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1972.307	1056.488	9563.176	4226.022
Stddev	89.231	58.941	17.817	.803
%RSD	4.524212	5.578964	.1863041	.0189933
#1	1909.211	1014.810	9550.578	4226.589
#2	2035.403	1098.166	9575.774	4225.454

Sample Name: MRL Acquired: 9/4/2018 16:36:10 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053669	.1661560	F .0134228	.0487818	.0096716	.0040038
Stddev	.0000428	.0085355	.0019201	.0012439	.0000217	.0003179
%RSD	.7970199	5.137025	14.30463	2.549843	.2246503	7.939982

#1	.0053971	.1601205	.0120651	.0496614	.0096562	.0042286
#2	.0053366	.1721915	.0147805	.0479023	.0096869	.0037790

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			.0100000			
Range			30.00000%			

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509628	.1998802	.0021937	F .0013228	.0048202	.0102899
Stddev	.0004241	.0043363	.0001476	.0036313	.0000137	.0007429
%RSD	.8321937	2.169457	6.728736	274.5238	.2849973	7.219931

#1	.0512627	.2029464	.0020893	-.001245	.0048105	.0108152
#2	.0506630	.1968139	.0022981	.003890	.0048299	.0097645

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109911	.2226845	.4798381	.0111965	.1119641	.0096507
Stddev	.0002090	.0511233	.0074811	.0001819	.0215267	.0000716
%RSD	1.901108	22.95772	1.559095	1.624769	19.22641	.7424108

#1	.0111388	.1865348	.4851281	.0113252	.0967424	.0097013
#2	.0108433	.2588341	.4745481	.0110679	.1271858	.0096000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: MRL Acquired: 9/4/2018 16:36:10 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097439	1.022646	.0108634	F .0027812	.0208715	.0114349
Stddev	.0001688	.000476	.0009549	.0006124	.0021328	.0023323
%RSD	1.732083	.0465395	8.790012	22.02122	10.21897	20.39599

#1	.0096245	1.022309	.0115386	.0032143	.0193633	.0097857
#2	.0098632	1.022982	.0101882	.0023481	.0223796	.0130841

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1638831	.0383177	.0052429	.0048652	.0105479	.0049337
Stddev	.0017272	.0000129	.0000057	.0000187	.0011355	.0001242
%RSD	1.053930	.0335967	.1095583	.3835475	10.76556	2.518110

#1	.1626618	.0383268	.0052388	.0048520	.0113508	.0048459
#2	.1651045	.0383085	.0052469	.0048784	.0097449	.0050216

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0194577
Stddev	.0003651
%RSD	1.876127

#1	.0197158
#2	.0191995

Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 9/4/2018 16:36:10 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1925.960	1024.330	9572.483	4246.011
Stddev	21.796	10.331	1.845	7.187
%RSD	1.131670	1.008580	.0192704	.1692676
#1	1910.549	1017.025	9571.179	4251.093
#2	1941.372	1031.635	9573.787	4240.929

Sample Name: b 500-447908/1-a Acquired: 9/4/2018 16:42:14 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007742	-.003481	-.000633	.0019030	-.000240	-.000214
Stddev	.0001012	.014175	.000053	.0004972	.000067	.000081
%RSD	13.07929	407.1706	8.448264	26.12747	28.13322	37.94398

#1	.0008457	-.013505	-.000595	.0022546	-.000192	-.000271
#2	.0007026	.006542	-.000671	.0015514	-.000287	-.000156

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009232	.0715296	.0010595	.0047464	-.000885	.0006699
Stddev	.001579	.0014592	.0001372	.0151855	.000282	.0000894
%RSD	17.10149	2.040042	12.94957	319.9368	31.84522	13.34038

#1	-.010348	.0704977	.0011565	-.005991	-.001085	.0006067
#2	-.008116	.0725614	.0009625	.015484	-.000686	.0007331

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019530	.0614317	-.014371	.0008518	.0371005	-.000051
Stddev	.0004560	.0777531	.021985	.0001444	.0048929	.000151
%RSD	23.34974	126.5684	152.9863	16.94681	13.18822	293.5251

#1	.0016305	.0064520	.001175	.0007498	.0336407	.000055
#2	.0022755	.1164115	-.029916	.0009539	.0405603	-.000158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: b 500-447908/1-a Acquired: 9/4/2018 16:42:14 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009206	.0548906	-.002765	F -.005092	.0026117	.0039938
Stddev	.0005470	.0055317	.000428	.001385	.0000042	.0027268
%RSD	59.41861	10.07771	15.47766	27.21095	.1612457	68.27602

#1	.0005338	.0509791	-.002463	-.006071	.0026087	.0020656
#2	.0013073	.0588021	-.003068	-.004112	.0026146	.0059219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				100.0000		
Low Limit				-.005000		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0674118	.0132596	.0002505	.0004418	-.002611	.0003721
Stddev	.0001593	.0013596	.0000087	.0001000	.003247	.0001378
%RSD	.2363599	10.25402	3.467786	22.63404	124.3453	37.03215

#1	.0672991	.0142210	.0002566	.0003711	-.000315	.0004695
#2	.0675245	.0122982	.0002443	.0005126	-.004908	.0002746

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0117714
Stddev	.0002634
%RSD	2.237267

#1	.0119576
#2	.0115852

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: b 500-447908/1-a Acquired: 9/4/2018 16:42:14 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1943.427	1035.090	9462.021	4194.326
Stddev	118.678	74.962	41.711	11.252
%RSD	6.106615	7.242035	.4408306	.2682664
#1	1859.509	982.084	9432.527	4186.370
#2	2027.345	1088.096	9491.516	4202.283

Sample Name: lcs 500-447908/2-a Acquired: 9/4/2018 16:46:19 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0456172	1.942809	.0917967	.8661361	1.931143	.0475042	.4534605
Stddev	.0003110	.034203	.0027214	.0058463	.000647	.0006416	.0051477
%RSD	.6818124	1.760480	2.964543	.6749893	.0335282	1.350566	1.135206

#1	.0453973	1.918624	.0937210	.8702700	1.930685	.0479579	.4571005
#2	.0458371	1.966994	.0898725	.8620021	1.931601	.0470505	.4498206

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	9.859389	.0472868	.0057144	.4723670	.1892261	.2460099	1.007005
Stddev	.055171	.0000819	.0051140	.0027817	.0010487	.0003347	.029427
%RSD	.5595814	.1732244	89.49399	.5888935	.5542006	.1360640	2.922236

#1	9.820377	.0473447	.0020982	.4743340	.1884846	.2462466	.986197
#2	9.898401	.0472288	.0093305	.4704000	.1899677	.2457732	1.027813

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	9.520090	.4898225	9.511862	.4851000	.9568526	9.675155	.4678800
Stddev	.007045	.0011803	.064810	.0053206	.0031429	.015955	.0038066
%RSD	.0740042	.2409659	.6813575	1.096800	.3284639	.1649083	.8135871

#1	9.525072	.4906571	9.466034	.4813378	.9590750	9.686437	.4705717
#2	9.515108	.4889879	9.557689	.4888622	.9546303	9.663873	.4651883

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-447908/2-a Acquired: 9/4/2018 16:46:19 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0887490	.4619781	.0789167	2.582939	.9592833	.9796255	.9814351
Stddev	.0004412	.0045468	.0007982	.006850	.0025342	.0016776	.0016928
%RSD	.4971438	.9841948	1.011481	.2651987	.2641783	.1712486	.1724820

#1	.0890610	.4651931	.0794812	2.578095	.9610753	.9784392	.9802381
#2	.0884370	.4587630	.0783523	2.587782	.9574914	.9808117	.9826321

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0872327	.4801691	.4534911
Stddev	.0037337	.0021219	.0010104
%RSD	4.280198	.4418988	.2228140

#1	.0845925	.4786687	.4542056
#2	.0898728	.4816695	.4527766

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1847.099	993.0658	9406.403	4182.754
Stddev	13.124	7.6772	3.540	3.577
%RSD	.7105047	.7730772	.0376286	.0855220

#1	1837.819	987.6373	9403.900	4180.225
#2	1856.379	998.4944	9408.906	4185.283

Sample Name: 500-150676-c-1-a Acquired: 9/4/2018 16:50:19 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0021042	151.8160	.0746239	.1470057	.9103124	.0076390	.0028712
Stddev	.0004620	.2672	.0022972	.0014706	.0010799	.0000892	.0010311
%RSD	21.95624	.1759838	3.078416	1.000345	.1186320	1.167526	35.91347

#1	.0024308	151.6271	.0729995	.1459659	.9095487	.0075760	.0036003
#2	.0017775	152.0049	.0762483	.1480456	.9110760	.0077021	.0021420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	254.2213	.0038454	.5150039	.1031217	.1989336	.2337551	195.8046
Stddev	.6146	.0001126	.0011009	.0006995	.0012184	.0000536	.2133
%RSD	.2417532	2.927277	.2137656	.6783005	.6124499	.0229224	.1089341

#1	254.6558	.0039250	.5142255	.1036162	.1980721	.2337930	195.9554
#2	253.7867	.0037658	.5157824	.1026270	.1997951	.2337172	195.6537

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	32.43788	.1708381	149.3697	4.767120	.0198475	1.262487	.2345203
Stddev	.02018	.0008198	.2278	.008964	.0004911	.004591	.0012716
%RSD	.0621996	.4798633	.1525178	.1880442	2.474637	.3636206	.5422274

#1	32.45215	.1702584	149.2087	4.773459	.0201948	1.259241	.2354195
#2	32.42361	.1714178	149.5308	4.760782	.0195002	1.265733	.2336212

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150676-c-1-a Acquired: 9/4/2018 16:50:19 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2658814	.0121099	.0093948	2.308371	.0267670	.2216923	1.871190
Stddev	.0014206	.0017844	.0002191	.006080	.0007416	.0001270	.001689
%RSD	.5343033	14.73541	2.332275	.2633837	2.770515	.0572834	.0902805
#1	.2668859	.0108481	.0095497	2.304072	.0272914	.2217821	1.869996
#2	.2648769	.0133717	.0092398	2.312670	.0262426	.2216025	1.872385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0013286	.3079525	.7231169
Stddev	.0001433	.0007665	.0000715
%RSD	10.78802	.2488923	.0098853
#1	.0012273	.3074105	.7230664
#2	.0014300	.3084944	.7231675
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1581.207	1041.014	9880.929	4578.881
Stddev	5.523	1.045	31.069	27.285
%RSD	.3492878	.1004144	.3144386	.5958944
#1	1577.301	1041.753	9858.959	4559.588
#2	1585.112	1040.275	9902.898	4598.175

Sample Name: 500-150676-c-2-a Acquired: 9/4/2018 16:54:12 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019459	136.9150	.0657969	.1359848	.8225273	.0061809	.0011916
Stddev	.0000147	.0604	.0011465	.0005296	.0006136	.0002338	.0009724
%RSD	.7551021	.0441055	1.742530	.3894855	.0745970	3.781929	81.60451
#1	.0019562	136.8723	.0666076	.1363593	.8220934	.0060156	.0005040
#2	.0019355	136.9577	.0649862	.1356103	.8229611	.0063462	.0018792

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	204.7359	.0037658	.4630477	.0839197	.1807692	.2136247	167.9010
Stddev	.0547	.0000292	.0017629	.0000302	.0008868	.0002699	.2734
%RSD	.0267295	.7756737	.3807082	.0359441	.4905546	.1263289	.1628127
#1	204.7746	.0037451	.4642943	.0838984	.1813963	.2134338	167.7077
#2	204.6972	.0037864	.4618012	.0839411	.1801422	.2138155	168.0943

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.18986	.1415276	118.6817	4.193907	.0171671	1.208895	.1962128
Stddev	.05766	.0009910	.0531	.003627	.0003521	.006837	.0001308
%RSD	.1909992	.7001910	.0447536	.0864806	2.051075	.5655436	.0666845
#1	30.23064	.1422283	118.7192	4.191342	.0174161	1.213729	.1963053
#2	30.14909	.1408269	118.6441	4.196471	.0169182	1.204060	.1961203

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150676-c-2-a Acquired: 9/4/2018 16:54:12 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2413218	.0047798	.0070156	2.708059	.0251063	.2008457	1.903709
Stddev	.0058230	.0017251	.0015268	.000821	.0013235	.0002437	.001801
%RSD	2.412950	36.09210	21.76296	.0303339	5.271780	.1213218	.0946287
#1	.2372043	.0059997	.0080952	2.708640	.0241705	.2006734	1.904983
#2	.2454393	.0035600	.0059360	2.707478	.0260422	.2010180	1.902435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0018835	.2861616	.6682990
Stddev	.0010643	.0006199	.0015752
%RSD	56.50566	.2166303	.2356996
#1	.0026361	.2865999	.6671852
#2	.0011309	.2857233	.6694129
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1606.779	1037.326	9811.075	4517.297
Stddev	4.231	5.152	3.860	21.254
%RSD	.2632957	.4966297	.0393476	.4704957
#1	1603.788	1033.683	9813.804	4502.268
#2	1609.771	1040.969	9808.345	4532.325

Sample Name: 500-150676-c-3-a Acquired: 9/4/2018 16:58:05 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0011872	147.9702	.0649567	.1742263	.8349262	.0069716	.0026391
Stddev	.0002525	.5320	.0029322	.0004257	.0017977	.0000630	.0018010
%RSD	21.26837	.3595061	4.514112	.2443611	.2153106	.9043097	68.24305

#1	.0010087	147.5941	.0628833	.1745274	.8336551	.0070162	.0039126
#2	.0013658	148.3464	.0670301	.1739253	.8361974	.0069270	.0013656

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	360.0649	.0040698	.4885388	.1490549	.1960577	.2010581	185.6356
Stddev	1.6160	.0000010	.0062312	.0006823	.0010541	.0005100	.7724
%RSD	.4488179	.0232742	1.275483	.4577207	.5376560	.2536617	.4160741

#1	358.9222	.0040705	.4841326	.1485725	.1968031	.2006975	185.0894
#2	361.2076	.0040691	.4929449	.1495373	.1953123	.2014187	186.1817

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	34.92581	.1904738	210.0254	6.020733	.0206876	1.359278	.2806595
Stddev	.02269	.0004994	.6633	.020401	.0000436	.001175	.0016482
%RSD	.0649666	.2621921	.3158058	.3388506	.2108997	.0864180	.5872648

#1	34.90977	.1908269	209.5563	6.006307	.0207184	1.360108	.2794940
#2	34.94185	.1901207	210.4944	6.035159	.0206567	1.358447	.2818250

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: 500-150676-c-3-a Acquired: 9/4/2018 16:58:05 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2120291	.0054613	.0049966	2.785811	.0267192	.2515037	1.937757
Stddev	.0024405	.0036260	.0031609	.005387	.0023829	.0001432	.002615
%RSD	1.151019	66.39443	63.25952	.1933763	8.918355	.0569493	.1349580
#1	.2137548	.0028973	.0027616	2.782002	.0284042	.2514025	1.935908
#2	.2103034	.0080252	.0072317	2.789621	.0250342	.2516050	1.939606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0001243	.2929915	.6119904
Stddev	.0013975	.0008202	.0000865
%RSD	1124.724	.2799250	.0141415
#1	.0011125	.2935715	.6120516
#2	-.000864	.2924116	.6119292
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1536.367	1013.987	9592.554	4436.813
Stddev	2.895	2.091	12.011	8.918
%RSD	.1884549	.2061819	.1252105	.2010076
#1	1534.320	1012.508	9584.061	4430.507
#2	1538.414	1015.465	9601.047	4443.119

Sample Name: 500-150676-c-4-a Acquired: 9/4/2018 17:01:59 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018108	163.6005	.0796041	.1655101	.9329275	.0081402	.0036995
Stddev	.0000689	.5965	.0032909	.0010315	.0029158	.0000768	.0014206
%RSD	3.807403	.3645850	4.134067	.6232358	.3125438	.9433587	38.40036
#1	.0017621	163.1787	.0819312	.1662395	.9308657	.0080859	.0026950
#2	.0018596	164.0222	.0772771	.1647807	.9349892	.0081945	.0047040

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	324.5677	.0037113	.5519428	.1140579	.2143741	.2610921	212.4694
Stddev	.0737	.0004876	.0051899	.0001199	.0002516	.0012944	.5872
%RSD	.0227136	13.13687	.9403026	.1051272	.1173586	.4957740	.2763795
#1	324.6198	.0033665	.5482730	.1139731	.2145519	.2620074	212.0542
#2	324.5156	.0040560	.5556126	.1141427	.2141962	.2601768	212.8846

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.84714	.1954282	190.5406	5.032103	.0206736	1.331557	.2630689
Stddev	.07650	.0000027	.5681	.012584	.0001895	.005780	.0031741
%RSD	.2195285	.0013588	.2981428	.2500787	.9165647	.4340910	1.206583
#1	34.79304	.1954263	190.1389	5.023205	.0208076	1.327470	.2608244
#2	34.90123	.1954301	190.9423	5.041002	.0205396	1.335644	.2653133

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150676-c-4-a Acquired: 9/4/2018 17:01:59 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2427050	.0071164	.0091779	2.478837	.0309197	.2484096	2.038782
Stddev	.0051341	.0033318	.0027042	.003412	.0003287	.0002983	.000750
%RSD	2.115354	46.81849	29.46433	.1376642	1.063121	.1200633	.0368000
#1	.2390746	.0047605	.0072658	2.476424	.0311521	.2486205	2.039313
#2	.2463353	.0094724	.0110901	2.481250	.0306872	.2481987	2.038251

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0006335	.3519544	.7177788
Stddev	.0010484	.0007774	.0065817
%RSD	165.4774	.2208758	.9169508
#1	.0013748	.3525042	.7131248
#2	-.000108	.3514048	.7224327

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1547.235	1041.923	9889.499	4553.406
Stddev	.643	5.595	34.007	7.828
%RSD	.0415334	.5369952	.3438656	.1719225
#1	1546.781	1037.967	9865.453	4547.870
#2	1547.689	1045.879	9913.545	4558.941

Sample Name: 500-150676-c-5-a Acquired: 9/4/2018 17:05:54 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023088	138.5929	.0671625	.1358187	.8744176	.0063743	.0016918
Stddev	.0005204	.3811	.0012136	.0002059	.0024520	.0001939	.0031896
%RSD	22.54195	.2749815	1.806984	.1515721	.2804197	3.042216	188.5373
#1	.0019408	138.3235	.0663043	.1359643	.8726838	.0065114	.0039472
#2	.0026768	138.8624	.0680206	.1356732	.8761515	.0062372	-.000564

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	193.0009	.0039869	.4589824	.0849736	.1807725	.2142221	167.1861
Stddev	.1886	.0002772	.0033262	.0000677	.0004154	.0008842	.7178
%RSD	.0977308	6.952284	.7246931	.0796792	.2297947	.4127387	.4293396
#1	192.8675	.0037909	.4566304	.0849257	.1810663	.2148473	166.6785
#2	193.1343	.0041829	.4613344	.0850215	.1804788	.2135968	167.6936

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.32561	.1404641	107.5254	4.215700	.0164621	1.189900	.1970151
Stddev	.02281	.0004026	.1238	.008738	.0002749	.003667	.0013370
%RSD	.0752139	.2866473	.1151798	.2072829	1.669960	.3081755	.6786219
#1	30.34174	.1407488	107.4378	4.209521	.0162677	1.187307	.1960697
#2	30.30948	.1401794	107.6130	4.221879	.0166565	1.192493	.1979605

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150676-c-5-a Acquired: 9/4/2018 17:05:54 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2576740	.0056920	.0073953	2.482170	.0281303	.1995759	1.862217
Stddev	.0016079	.0008804	.0009813	.011110	.0007610	.0004511	.000004
%RSD	.6240126	15.46703	13.26949	.4475793	2.705451	.2260347	.0001995
#1	.2588110	.0050695	.0080892	2.474314	.0286684	.1998949	1.862220
#2	.2565371	.0063145	.0067014	2.490026	.0275921	.1992569	1.862215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000961	.2830758	.6888813
Stddev	.001973	.0005705	.0029180
%RSD	205.4077	.2015341	.4235916
#1	-.002356	.2826724	.6868179
#2	.000435	.2834792	.6909446
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1628.752	1052.485	9913.678	4521.422
Stddev	1.417	2.714	45.152	16.304
%RSD	.0870196	.2578658	.4554474	.3605881
#1	1629.754	1054.404	9881.751	4509.893
#2	1627.750	1050.566	9945.605	4532.950

Sample Name: 500-150676-c-6-a Acquired: 9/4/2018 17:09:49 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0017166	124.4985	.0668021	.1304482	.7664575	.0060541	.0002428
Stddev	.0004776	.5027	.0042437	.0002594	.0000714	.0000316	.0005630
%RSD	27.81969	.4038041	6.352630	.1988857	.0093136	.5213107	231.8340
#1	.0020543	124.1431	.0638014	.1302648	.7664070	.0060764	.0006409
#2	.0013790	124.8540	.0698029	.1306317	.7665080	.0060318	-.000155

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	218.7984	.0037239	.4436262	.0800777	.1718936	.2133170	167.4145
Stddev	1.5400	.0000827	.0071332	.0006843	.0001202	.0002445	1.2526
%RSD	.7038318	2.220272	1.607939	.8545493	.0699388	.1146142	.7481956
#1	217.7094	.0036654	.4486701	.0795938	.1718086	.2131441	166.5288
#2	219.8873	.0037824	.4385822	.0805616	.1719786	.2134899	168.3002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	28.06897	.1424392	123.3412	3.716470	.0189570	1.104431	.1991607
Stddev	.00226	.0002186	.4144	.018616	.0005595	.000902	.0015365
%RSD	.0080671	.1534881	.3359962	.5008957	2.951454	.0816853	.7714708
#1	28.06736	.1425938	123.0482	3.703307	.0185614	1.105069	.1980742
#2	28.07057	.1422846	123.6342	3.729633	.0193526	1.103793	.2002471

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-150676-c-6-a Acquired: 9/4/2018 17:09:49 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2291884	.0070275	.0076542	2.508735	.0263352	.2050559	1.624346
Stddev	.0032528	.0015463	.0010563	.020631	.0015507	.0003151	.001183
%RSD	1.419277	22.00292	13.80046	.8223858	5.888445	.1536661	.0728052

#1	.2268883	.0081209	.0084011	2.494146	.0252387	.2052787	1.623510
#2	.2314885	.0059342	.0069073	2.523323	.0274318	.2048331	1.625183

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0001497	.2570237	.6469881
Stddev	.0008132	.0004187	.0034197
%RSD	543.4384	.1628852	.5285494

#1	.0007247	.2573197	.6445700
#2	-.000425	.2567276	.6494061

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1621.171	1039.546	9781.526	4468.344
Stddev	.921	1.227	11.673	5.897
%RSD	.0568162	.1180711	.1193333	.1319688

#1	1621.822	1040.414	9773.272	4472.514
#2	1620.520	1038.679	9789.780	4464.174

Sample Name: 500-150676-c-7-a Acquired: 9/4/2018 17:13:44 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0021955	131.6120	.0724873	.1142275	.9183455	.0063213	.0015274
Stddev	.0007552	.6789	.0030960	.0001062	.0029617	.0000986	.0003646
%RSD	34.39672	.5158002	4.271075	.0929723	.3225078	1.559960	23.86813
#1	.0027295	131.1319	.0702981	.1141524	.9162512	.0062515	.0017852
#2	.0016615	132.0920	.0746765	.1143026	.9204397	.0063910	.0012696

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	152.7430	.0040713	.4341104	.0876514	.1752048	.2167972	165.7311
Stddev	.7540	.0001813	.0042782	.0006357	.0015364	.0002026	.7789
%RSD	.4936433	4.454171	.9855088	.7252186	.8769079	.0934475	.4699547
#1	152.2098	.0039431	.4310852	.0872019	.1741184	.2166539	165.1803
#2	153.2761	.0041995	.4371355	.0881009	.1762912	.2169404	166.2818

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	28.85360	.1207352	90.83452	5.337769	.0169906	1.165043	.1806660
Stddev	.01253	.0004852	.37552	.023664	.0003781	.010354	.0003572
%RSD	.0434370	.4018280	.4134076	.4433331	2.225516	.8887510	.1977106
#1	28.86246	.1203921	90.56900	5.321036	.0172580	1.172364	.1804135
#2	28.84474	.1210782	91.10006	5.354502	.0167232	1.157721	.1809186

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-150676-c-7-a Acquired: 9/4/2018 17:13:44 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2831765	.0079304	.0048264	2.082411	.0260468	.1769684	1.748125
Stddev	.0001938	.0010545	.0006673	.005375	.0018210	.0001681	.004232
%RSD	.0684427	13.29647	13.82638	.2581118	6.991407	.0950176	.2420623
#1	.2833135	.0071847	.0052982	2.078610	.0273345	.1770873	1.745133
#2	.2830394	.0086760	.0043545	2.086212	.0247591	.1768495	1.751117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000487	.2740221	.7308854
Stddev	.004518	.0023814	.0044594
%RSD	926.9823	.8690706	.6101418
#1	-.003682	.2723381	.7277321
#2	.002708	.2757060	.7340387
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1659.543	1064.320	9999.385	4536.211
Stddev	3.649	.576	17.572	9.001
%RSD	.2198589	.0541393	.1757345	.1984243
#1	1662.123	1064.728	9986.959	4542.576
#2	1656.963	1063.913	10011.81	4529.847

Sample Name: 500-150676-c-8-a Acquired: 9/4/2018 17:17:39 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015779	129.1983	.0764875	.1112599	.8618251	.0062341	.0027949
Stddev	.0008967	.3499	.0014517	.0005927	.0022821	.0005961	.0016584
%RSD	56.83074	.2708020	1.898004	.5327505	.2648028	9.562190	59.33481
#1	.0009438	128.9509	.0754609	.1108408	.8602114	.0058126	.0039676
#2	.0022119	129.4457	.0775140	.1116790	.8634388	.0066556	.0016223

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	173.2602	.0048252	.4590241	.0865687	.1730126	.2193073	166.5570
Stddev	.1023	.0000033	.0071186	.0005442	.0001460	.0001625	.6588
%RSD	.0590260	.0675155	1.550816	.6286643	.0844129	.0741120	.3955259
#1	173.3326	.0048229	.4539905	.0861839	.1729093	.2194223	166.0911
#2	173.1879	.0048275	.4640577	.0869535	.1731159	.2191924	167.0228

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.64793	.1231111	101.8030	4.759198	.0161726	1.187970	.1917996
Stddev	.04298	.0000480	.0853	.008626	.0001199	.000624	.0018117
%RSD	.1500227	.0389897	.0837822	.1812550	.7413537	.0525475	.9445747
#1	28.67832	.1231451	101.7427	4.753099	.0160878	1.187528	.1930806
#2	28.61754	.1230772	101.8633	4.765298	.0162574	1.188411	.1905185

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150676-c-8-a Acquired: 9/4/2018 17:17:39 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3002438	.0066362	.0103114	2.279522	.0261351	.1830838	1.647667
Stddev	.0014932	.0004442	.0023500	.002335	.0038591	.0000237	.002075
%RSD	.4973398	6.694378	22.79051	.1024537	14.76603	.0129388	.1259103
#1	.3012997	.0063221	.0086497	2.277871	.0234063	.1830671	1.646200
#2	.2991879	.0069504	.0119731	2.281174	.0288639	.1831006	1.649134

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0014759	.2611095	.7558223
Stddev	.0020204	.0002295	.0007303
%RSD	136.8948	.0878909	.0966275
#1	.0029045	.2609472	.7553059
#2	.0000472	.2612718	.7563388

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1649.200	1066.296	10008.05	4552.779
Stddev	1.360	1.270	4.51	27.289
%RSD	.0824771	.1191269	.0450864	.5993964
#1	1650.162	1067.194	10004.86	4533.483
#2	1648.238	1065.397	10011.24	4572.076

Sample Name: CCV Acquired: 9/4/2018 17:21:35 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4904240	53.32954	.4994952	.4998505	.5065875	.5293777
Stddev	.0006794	2.29511	.0037935	.0023238	.0236619	.0229817
%RSD	.1385405	4.303631	.7594700	.4648948	4.670832	4.341273
#1	.4909044	54.95242	.4968128	.4982073	.5233190	.5456282
#2	.4899436	51.70665	.5021776	.5014937	.4898561	.5131271

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
Value
Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5140642	27.34997	.5077938	F -.046487	.5049627	.4876337
Stddev	.0004730	1.17765	.0012789	.003860	.0020729	.0006796
%RSD	.0920156	4.305841	.2518564	8.303907	.4104987	.1393672
#1	.5143987	28.18269	.5068894	-.043757	.5034969	.4871532
#2	.5137297	26.51724	.5086981	-.049216	.5064284	.4881143

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Fail** **Chk Pass** **Chk Pass**
Value
Range **.5000000**
 -10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5070245	27.37872	50.79725	4.013043	26.30030	5.141465
Stddev	.0011716	1.13762	2.28693	.180123	1.25679	.230039
%RSD	.2310802	4.155122	4.502077	4.488450	4.778631	4.474185
#1	.5078530	28.18313	52.41436	4.140409	27.18898	5.304127
#2	.5061960	26.57430	49.18015	3.885676	25.41161	4.978803

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
Value
Range

Sample Name: CCV Acquired: 9/4/2018 17:21:35 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4875675	25.40132	.4994367	.5076334	.4700050	.4877059
Stddev	.0020510	1.16693	.0026645	.0031326	.0016402	.0039625
%RSD	.4206597	4.593963	.5334964	.6171021	.3489656	.8124750

#1	.4861172	26.22646	.4975527	.5054183	.4688453	.4849040
#2	.4890178	24.57618	.5013208	.5098485	.4711648	.4905078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4313512	.5164299	.5077765	.5046628	.5000575	4.913391
Stddev	.0003941	.0070457	.0002123	.0011201	.0052918	.004259
%RSD	.0913572	1.364318	.0418097	.2219457	1.058243	.0866723

#1	.4310726	.5114478	.5076264	.5038707	.4963156	4.910379
#2	.4316299	.5214120	.5079266	.5054548	.5037994	4.916402

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5036775
Stddev	.0009890
%RSD	.1963646

#1	.5029781
#2	.5043768

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 17:21:35 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1812.461	1017.911	9438.980	4125.443
Stddev	6.208	2.881	9.821	146.834
%RSD	.3425410	.2830384	.1040430	3.559229
#1	1816.851	1019.948	9432.036	4021.616
#2	1808.071	1015.874	9445.924	4229.271

Sample Name: CCB Acquired: 9/4/2018 17:25:29 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010654	-.048786	-.000213	-.000260	-.000414	-.000124	.0006069
Stddev	.0000402	.007457	.001740	.000490	.000025	.000155	.0000370
%RSD	3.775179	15.28558	816.7267	188.8473	6.086056	125.5283	6.095092
#1	.0010370	-.054059	.001018	.000087	-.000432	-.000014	.0005807
#2	.0010939	-.043513	-.001444	-.000606	-.000396	-.000233	.0006330

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	.0003628	.0033458	.0001227	.0004232	.0002371	.0035779
Stddev	.000803	.0000591	.0074827	.0001669	.0002027	.0001776	.0411739
%RSD	8864.073	16.29899	223.6431	135.9845	47.89263	74.89939	1150.799
#1	.000558	.0004046	-.001945	.0002407	.0002799	.0003628	-.025536
#2	-.000577	.0003209	.008637	.0000047	.0005665	.0001116	.032692

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.028816	.0009379	.0286244	.0002521	.0004488	-.000896	-.000971
Stddev	.002996	.0002108	.0138589	.0002540	.0002613	.002637	.002257
%RSD	10.39540	22.47933	48.41631	100.7242	58.23580	294.2806	232.4694
#1	-.026698	.0010870	.0188247	.0000726	.0002640	.000968	.000625
#2	-.030934	.0007889	.0384241	.0004317	.0006335	-.002760	-.002566

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: CCB Acquired: 9/4/2018 17:25:29 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000712	.0031198	.0003349	.0071621	-.000093	.0000158	.0010518
Stddev	.000574	.0015821	.0003998	.0059489	.000064	.0000060	.0001097
%RSD	80.62427	50.71175	119.3968	83.06157	69.14175	37.89759	10.43103

#1	-.001118	.0042385	.0000522	.0029555	-.000048	.0000201	.0011294
#2	-.000306	.0020011	.0006176	.0113686	-.000139	.0000116	.0009742

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001177	.0007390	-.000174
Stddev	.000456	.0003833	.000078
%RSD	38.72055	51.87019	44.75271

#1	-.001499	.0010101	-.000229
#2	-.000854	.0004680	-.000119

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2080.934	1132.983	9728.727	4254.577
Stddev	195.221	126.054	4.395	3.881
%RSD	9.381402	11.12586	.0451734	.0912136

#1	1942.892	1043.850	9725.619	4251.833
#2	2218.976	1222.117	9731.834	4257.321

Sample Name: 500-150676-c-9-a Acquired: 9/4/2018 17:29:35 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022869	122.0974	.0716727	.1204907	.8921602	.0057007	.0017280
Stddev	.0003440	.4752	.0026606	.0006405	.0040787	.0002657	.0011169
%RSD	15.04410	.3892137	3.712098	.5315943	.4571702	4.661469	64.63357
#1	.0025302	121.7614	.0735540	.1209436	.8892761	.0055128	.0025177
#2	.0020436	122.4335	.0697914	.1200377	.8950443	.0058886	.0009382

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	155.1200	.0043712	.4225276	.0758767	.1654521	.2402904	153.5294
Stddev	.4519	.0001266	.0136323	.0003865	.0001446	.0005629	.3427
%RSD	.2912964	2.896549	3.226366	.5094261	.0873848	.2342682	.2232039
#1	154.8005	.0042817	.4321671	.0756034	.1655544	.2398923	153.2870
#2	155.4395	.0044608	.4128881	.0761500	.1653499	.2406884	153.7717

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.01185	.1128723	83.54648	4.148486	.0152242	1.170071	.1723523
Stddev	.00646	.0004034	.29740	.011916	.0004419	.001106	.0010894
%RSD	.0230469	.3574038	.3559693	.2872390	2.902568	.0945549	.6320907
#1	28.00728	.1125870	83.33619	4.140060	.0149118	1.170853	.1731227
#2	28.01641	.1131575	83.75677	4.156912	.0155367	1.169289	.1715820

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150676-c-9-a Acquired: 9/4/2018 17:29:35 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3035077	.0067375	.0034940	2.347902	.0292538	.2002020	1.700431
Stddev	.0004644	.0014981	.0019707	.003867	.0010202	.0001127	.002054
%RSD	.1530122	22.23500	56.40313	.1646972	3.487275	.0562898	.1207756
#1	.3038361	.0077968	.0021005	2.350636	.0285324	.2002817	1.698978
#2	.3031793	.0056782	.0048876	2.345167	.0299752	.2001223	1.701883

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001835	.2580222	.7616068
Stddev	.002200	.0000106	.0014723
%RSD	119.8864	.0040958	.1933102
#1	-.000279	.2580297	.7605657
#2	-.003391	.2580147	.7626478

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1650.922	1049.004	9859.213	4521.486
Stddev	4.438	4.749	30.804	10.609
%RSD	.2687982	.4527114	.3124355	.2346370
#1	1647.784	1045.646	9837.431	4513.984
#2	1654.060	1052.362	9880.994	4528.988

Sample Name: 500-150676-c-10-a Acquired: 9/4/2018 17:33:32 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012988	122.8087	.0638609	.1069745	.8208766	.0058927	.0007181
Stddev	.0001921	.6601	.0028577	.0005065	.0004315	.0003279	.0013249
%RSD	14.78869	.5374847	4.474905	.4734371	.0525677	5.564227	184.5167

#1	.0011630	122.3420	.0658816	.1073327	.8205715	.0056609	-.000219
#2	.0014346	123.2755	.0618402	.1066164	.8211817	.0061246	.001655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	169.1594	.0039154	.4110128	.0862098	.1630404	.2005125	156.0556
Stddev	1.5676	.0000945	.0017002	.0007458	.0003079	.0002401	1.5557
%RSD	.9266715	2.413081	.4136688	.8650672	.1888368	.1197327	.9969022

#1	168.0510	.0038486	.4098105	.0856825	.1628227	.2003427	154.9556
#2	170.2679	.0039822	.4122150	.0867371	.1632581	.2006822	157.1557

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.50103	.1150291	102.8061	4.465566	.0156795	1.072804	.1776711
Stddev	.00899	.0004110	.8230	.026692	.0004020	.001303	.0004538
%RSD	.0339123	.3572725	.8005412	.5977367	2.563673	.1214114	.2554180

#1	26.49468	.1147385	102.2241	4.446691	.0159637	1.071883	.1773502
#2	26.50739	.1153197	103.3880	4.484440	.0153953	1.073725	.1779920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150676-c-10-a Acquired: 9/4/2018 17:33:32 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2747047	.0093051	.0080383	2.006007	.0263723	.1769902	1.608233
Stddev	.0000159	.0019733	.0024192	.001340	.0011796	.0001984	.000584
%RSD	.0057853	21.20637	30.09586	.0667939	4.472941	.1120875	.0362999

#1	.2746935	.0079098	.0063277	2.005059	.0255381	.1768499	1.608646
#2	.2747159	.0107004	.0097490	2.006954	.0272064	.1771305	1.607821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0003888	.2497281	.6807436
Stddev	.0030964	.0006298	.0001358
%RSD	796.2814	.2521911	.0199543

#1	.0025783	.2501735	.6806475
#2	-.001801	.2492828	.6808396

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1661.560	1062.259	9908.086	4485.529
Stddev	3.295	2.905	12.770	17.496
%RSD	.1983204	.2734401	.1288893	.3900470

#1	1659.230	1060.205	9917.116	4497.901
#2	1663.890	1064.313	9899.056	4473.158

Sample Name: 500-150676-c-11-a Acquired: 9/4/2018 17:37:24 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022733	126.6728	.0717224	.1310624	.9965380	.0059257	.0008473
Stddev	.0002179	.1485	.0002501	.0004105	.0006530	.0001603	.0010323
%RSD	9.585475	.1172208	.3486650	.3131803	.0655281	2.705261	121.8322

#1	.0021192	126.5678	.0718992	.1313526	.9960762	.0060390	.0001174
#2	.0024274	126.7778	.0715456	.1307722	.9969997	.0058124	.0015773

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	203.1737	.0047429	.4379580	.0826533	.1782481	.2445634	164.6470
Stddev	.3092	.0000980	.0044488	.0001740	.0003258	.0004982	.3398
%RSD	.1521949	2.066233	1.015818	.2104702	.1827940	.2037201	.2063961

#1	202.9550	.0048122	.4348122	.0825303	.1784785	.2449157	164.4067
#2	203.3923	.0046736	.4411038	.0827763	.1780177	.2442111	164.8873

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.30950	.1172654	104.4740	4.480533	.0184566	1.292141	.1783163
Stddev	.00821	.0003442	.2538	.005670	.0001914	.000058	.0004732
%RSD	.0280058	.2935026	.2429128	.1265585	1.037166	.0045231	.2653481

#1	29.30369	.1175088	104.2946	4.476523	.0183212	1.292100	.1779817
#2	29.31530	.1170220	104.6535	4.484542	.0185919	1.292182	.1786509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150676-c-11-a Acquired: 9/4/2018 17:37:24 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3396039	.0078973	.0034057	2.676189	.0282635	.2485793	1.759282
Stddev	.0032633	.0007306	.0018416	.004319	.0015352	.0000307	.001965
%RSD	.9609264	9.251170	54.07363	.1613745	5.431595	.0123612	.1116856

#1	.3372964	.0084139	.0047080	2.679243	.0271780	.2486010	1.757892
#2	.3419114	.0073807	.0021035	2.673135	.0293491	.2485576	1.760671

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001800	.2646702	.8156778
Stddev	.000603	.0004361	.0018753
%RSD	33.47855	.1647775	.2299109

#1	-.002226	.2643618	.8143517
#2	-.001374	.2649786	.8170038

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1637.870	1053.952	9853.679	4487.809
Stddev	1.582	3.517	28.561	15.577
%RSD	.0965619	.3337221	.2898538	.3470850

#1	1636.752	1051.465	9833.483	4476.795
#2	1638.989	1056.440	9873.875	4498.823

Sample Name: 500-150676-c-12-a Acquired: 9/4/2018 17:41:18 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016618	137.4747	.0727151	.1208573	.9060225	.0060512	.0032556
Stddev	.0002546	.9695	.0006424	.0002616	.0024459	.0001258	.0025944
%RSD	15.32402	.7052108	.8834172	.2164923	.2699634	2.078687	79.68996

#1	.0014817	136.7892	.0731694	.1206723	.9042930	.0061401	.0050901
#2	.0018418	138.1603	.0722609	.1210424	.9077521	.0059622	.0014211

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	132.5044	.0046614	.4788004	.0878893	.1826957	.2225679	171.4090
Stddev	.3793	.0000661	.0001682	.0006163	.0010804	.0003161	.6173
%RSD	.2862520	1.418020	.0351270	.7012790	.5913596	.1420313	.3601053

#1	132.2362	.0047081	.4786815	.0874535	.1819318	.2227914	170.9726
#2	132.7726	.0046146	.4789194	.0883251	.1834597	.2223444	171.8455

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.64908	.1244994	73.19964	5.083192	.0190706	1.214489	.1866508
Stddev	.00291	.0001614	.37071	.018409	.0001186	.007654	.0023397
%RSD	.0098033	.1296620	.5064322	.3621528	.6219476	.6302201	1.253496

#1	29.64703	.1243852	72.93751	5.070175	.0191545	1.209077	.1883052
#2	29.65114	.1246135	73.46177	5.096209	.0189868	1.219901	.1849964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150676-c-12-a Acquired: 9/4/2018 17:41:18 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4051195	.0061423	.0051689	2.502486	.0287813	.1927773	1.873625
Stddev	.0039725	.0014769	.0005323	.001867	.0002384	.0000515	.001905
%RSD	.9805842	24.04547	10.29892	.0746188	.8282131	.0267354	.1016710

#1	.4023105	.0050979	.0047925	2.501166	.0286127	.1928138	1.872278
#2	.4079286	.0071866	.0055453	2.503807	.0289498	.1927409	1.874972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000228	.2877356	.7905944
Stddev	.000642	.0005303	.0012086
%RSD	281.2407	.1843095	.1528748

#1	.000226	.2881106	.7897398
#2	-.000682	.2873606	.7914490

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1689.291	1087.674	10071.38	4571.240
Stddev	.557	.696	22.63	7.205
%RSD	.0329687	.0640055	.2246481	.1576265

#1	1688.897	1088.166	10055.38	4566.145
#2	1689.685	1087.181	10087.37	4576.335

Sample Name: 500-150680-e-1-c Acquired: 9/4/2018 17:45:11 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026884	198.9996	.1190590	.2831287	1.031623	.0108041
Stddev	.0004190	1.1645	.0014887	.0012088	.003466	.0000882
%RSD	15.58636	.5851559	1.250400	.4269344	.3359742	.8159290

#1	.0023921	198.1762	.1201116	.2839835	1.029172	.0108664
#2	.0029847	199.8230	.1180063	.2822740	1.034074	.0107417

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032041	F 824.7659	.0063377	.6391892	.1893212	.3659088
Stddev	.0006931	10.5156	.0000558	.0129794	.0022661	.0018694
%RSD	21.63178	1.274977	.8799825	2.030609	1.196949	.5109037

#1	.0027140	817.3303	.0062983	.6483670	.1877189	.3645869
#2	.0036942	832.2016	.0063772	.6300113	.1909236	.3672306

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6654472	297.7404	46.54165	.3142668	509.6664	6.277616
Stddev	.0015841	1.1494	.00095	.0004870	1.4552	.021220
%RSD	.2380524	.3860300	.0020372	.1549661	.2855161	.3380293

#1	.6643271	296.9277	46.54232	.3139224	508.6375	6.262612
#2	.6665673	298.5532	46.54098	.3146111	510.6954	6.292621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-1-c Acquired: 9/4/2018 17:45:11 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0616454	5.358109	.4546236	.8833680	.0081193	.0065146
Stddev	.0004419	.014379	.0011753	.0047666	.0003993	.0051168
%RSD	.7168345	.2683518	.2585144	.5395985	4.918294	78.54420

#1	.0619578	5.347941	.4537926	.8799975	.0078370	.0101327
#2	.0613329	5.368276	.4554546	.8867386	.0084017	.0028964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.696095	.0529409	.5966865	2.003931	.0021701	.3930237
Stddev	.011335	.0037264	.0012001	.003396	.0027284	.0001611
%RSD	.4204288	7.038832	.2011263	.1694893	125.7278	.0409988

#1	2.704110	.0555759	.5958379	2.001529	.0002408	.3929097
#2	2.688080	.0503060	.5975351	2.006332	.0040993	.3931376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.735800
Stddev	.010949
%RSD	.6307753

#1	1.728058
#2	1.743542

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-1-c Acquired: 9/4/2018 17:45:11 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1406.368	1028.762	9666.294	4538.280
Stddev	.982	4.415	5.625	5.297
%RSD	.0698096	.4291370	.0581969	.1167188
#1	1405.674	1025.640	9670.272	4534.534
#2	1407.062	1031.884	9662.317	4542.025

Sample Name: 500-150680-e-1-c@5 Acquired: 9/4/2018 17:49:09 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009846	45.45473	.0270441	.0708123	.2378181	.0024990	.0026433
Stddev	.0001006	.22235	.0026051	.0002910	.0005161	.0001642	.0020469
%RSD	10.22200	.4891747	9.632864	.4109073	.2170013	6.569445	77.43901

#1	.0009134	45.29750	.0252020	.0706065	.2374531	.0023829	.0011959
#2	.0010558	45.61196	.0288862	.0710180	.2381830	.0026150	.0040907

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	207.0428	.0020651	.1516368	.0384412	.0910343	.1430442	72.89761
Stddev	.9557	.0001056	.0008526	.0000022	.0005779	.0014672	.57690
%RSD	.4615716	5.112884	.5622920	.0055828	.6348120	1.025714	.7913897

#1	206.3670	.0021397	.1522398	.0384427	.0914429	.1420067	72.48968
#2	207.7185	.0019904	.1510339	.0384397	.0906256	.1440817	73.30554

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.35434	.0699667	117.9651	1.536660	.0150702	1.203174	.0988791
Stddev	.01711	.0006302	.5923	.010493	.0004292	.002370	.0004591
%RSD	.1652467	.9007293	.5021047	.6828620	2.848127	.1970122	.4642670

#1	10.34224	.0704123	117.5463	1.529240	.0147667	1.201498	.0985545
#2	10.36644	.0695210	118.3839	1.544080	.0153737	1.204850	.0992037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-1-c@5 Acquired: 9/4/2018 17:49:09 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1898389	.0016674	.0036924	.6509416	.0107724	.1426553	.4841565
Stddev	.0008651	.0006463	.0026807	.0012794	.0013164	.0001014	.0006648
%RSD	.4556915	38.76218	72.60087	.1965411	12.22054	.0710552	.1373149

#1	.1904506	.0012104	.0017968	.6518463	.0117032	.1425836	.4846266
#2	.1892272	.0021245	.0055879	.6500370	.0098415	.1427270	.4836864

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0026370	.0949145	.3740436
Stddev	.0018101	.0001424	.0007185
%RSD	68.64386	.1500422	.1921030

#1	.0013570	.0948138	.3735355
#2	.0039170	.0950152	.3745517

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1713.235	1015.595	9477.676	4270.445
Stddev	4.388	1.457	9.613	8.242
%RSD	.2561041	.1434238	.1014264	.1930009

#1	1716.338	1016.625	9484.474	4276.273
#2	1710.133	1014.565	9470.879	4264.617

Sample Name: 500-150680-e-1-cSD@5 Acquired: 9/4/2018 17:53:04 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009357	45.67967	.0309267	.0707639	.2405411	.0026341	.0016947
Stddev	.0000828	.09665	.0031821	.0003979	.0001928	.0002721	.0012944
%RSD	8.853929	.2115833	10.28923	.5623246	.0801461	10.32892	76.37826
#1	.0009943	45.61133	.0286766	.0710452	.2404047	.0028265	.0007795
#2	.0008771	45.74801	.0331768	.0704825	.2406774	.0024417	.0026100

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	206.8664	.0022805	.1466222	.0394913	.0915015	.1435925	72.88844
Stddev	.0344	.0003661	.0189347	.0001262	.0002790	.0007466	.02586
%RSD	.0166169	16.05244	12.91396	.3196773	.3048833	.5199566	.0354759
#1	206.8907	.0025394	.1600110	.0394020	.0916987	.1430646	72.87015
#2	206.8421	.0020217	.1332333	.0395806	.0913042	.1441205	72.90672

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.47516	.0711604	118.5193	1.545027	.0154439	1.212221	.1000316
Stddev	.00793	.0004356	.0131	.001065	.0003187	.008141	.0004133
%RSD	.0757016	.6122034	.0110832	.0689072	2.063734	.6715876	.4131809
#1	10.48077	.0708524	118.5100	1.545780	.0152185	1.206464	.0997394
#2	10.46955	.0714685	118.5286	1.544274	.0156692	1.217977	.1003239

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150680-e-1-cSD@5 Acquired: 9/4/2018 17:53:04 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1922956	.0034865	-.000349	.7041275	.0100341	.1439167	.4865997
Stddev	.0001529	.0004499	.000729	.0026571	.0003869	.0000840	.0008478
%RSD	.0795184	12.90292	209.0188	.3773553	3.855377	.0583527	.1742376
#1	.1921875	.0038046	.000167	.7060063	.0097606	.1439761	.4860001
#2	.1924037	.0031684	-.000865	.7022487	.0103077	.1438573	.4871992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0028057	.0949287	.3762595
Stddev	.0008688	.0004921	.0002771
%RSD	30.96515	.5183448	.0736464
#1	.0021914	.0952766	.3760635
#2	.0034200	.0945808	.3764554
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1695.655	1003.925	9399.734	4256.987
Stddev	2.717	.366	8.549	15.264
%RSD	.1602245	.0364861	.0909490	.3585650
#1	1697.576	1003.666	9405.779	4246.193
#2	1693.734	1004.184	9393.689	4267.780

Sample Name: 150680-e-1-cSD@25 Acquired: 9/4/2018 17:57:00 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007901	9.227945	.0064996	.0136043	.0491140	.0001332	.0012410
Stddev	.0000034	.022207	.0004534	.0005418	.0000593	.0000594	.0001657
%RSD	.4281570	.2406544	6.975786	3.982354	.1208431	44.57678	13.35495

#1	.0007877	9.212242	.0061790	.0139874	.0491560	.0001752	.0013582
#2	.0007924	9.243649	.0068202	.0132212	.0490720	.0000912	.0011238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.06803	.0007251	.0419252	.0077725	.0186758	.0280978	15.48049
Stddev	.07613	.0000597	.0063501	.0003375	.0005186	.0003427	.16163
%RSD	.1767735	8.230688	15.14624	4.342882	2.777078	1.219508	1.044076

#1	43.01420	.0007673	.0374350	.0075338	.0183090	.0278555	15.36620
#2	43.12186	.0006829	.0464154	.0080112	.0190425	.0283401	15.59478

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.107108	.0148146	23.96865	.3240580	.0034423	.2565525	.0208226
Stddev	.007846	.0002520	.02003	.0001001	.0003981	.0024201	.0012218
%RSD	.3723817	1.700913	.0835823	.0308765	11.56514	.9433061	5.867489

#1	2.101560	.0146365	23.98281	.3239872	.0031608	.2548413	.0199587
#2	2.112657	.0149928	23.95448	.3241287	.0037238	.2582638	.0216865

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150680-e-1-cSD@25 Acquired: 9/4/2018 17:57:00 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382689	-.000056	.0010325	.1623386	.0024406	.0297822	.1018586
Stddev	.0039400	.002571	.0017924	.0039069	.0016773	.0000629	.0001334
%RSD	10.29558	4575.848	173.5955	2.406626	68.72562	.2113503	.1309443

#1	.0354829	.001762	.0022999	.1595760	.0036266	.0298267	.1019529
#2	.0410549	-.001874	-.000235	.1651012	.0012545	.0297377	.1017642

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0011030	.0194571	.0767501
Stddev	.0009801	.0003403	.0000472
%RSD	88.86490	1.748754	.0615535

#1	.0004099	.0192165	.0767167
#2	.0017960	.0196977	.0767835

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.884	1031.055	9593.149	4220.998
Stddev	4.266	2.089	20.283	3.250
%RSD	.2269439	.2025609	.2114358	.0769873

#1	1882.901	1032.532	9578.807	4223.296
#2	1876.868	1029.579	9607.492	4218.701

Sample Name: 500-150680-e-1-d du Acquired: 9/4/2018 18:00:59 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030396	238.9789	.1541510	.3629258	1.771816	.0125754
Stddev	.0008310	.8091	.0058981	.0002238	.002327	.0001847
%RSD	27.34020	.3385861	3.826199	.0616753	.1313280	1.468566

#1	.0036273	238.4068	.1583216	.3630841	1.773461	.0124448
#2	.0024520	239.5511	.1499804	.3627676	1.770171	.0127060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050526	F 858.5657	.0074589	.6991230	.2954115	.3737868
Stddev	.0011122	12.7061	.0001613	.0057164	.0004139	.0016177
%RSD	22.01303	1.479923	2.162674	.8176457	.1401005	.4327922

#1	.0058391	849.5811	.0073448	.7031650	.2951189	.3726429
#2	.0042662	867.5503	.0075729	.6950809	.2957042	.3749307

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7221981	355.1429	59.39657	.3814570	549.2688	12.18498
Stddev	.0044327	2.1072	.20911	.0010348	3.7084	.06708
%RSD	.6137740	.5933319	.3520612	.2712734	.6751525	.5505358

#1	.7253324	353.6529	59.54443	.3821887	546.6466	12.13755
#2	.7190637	356.6329	59.24870	.3807253	551.8911	12.23242

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-1-d du Acquired: 9/4/2018 18:00:59 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0833928	5.997358	.6064602	.9558535	.0117391	.0101669
Stddev	.0001124	.012080	.0045112	.0018272	.0020140	.0047783
%RSD	.1347314	.2014153	.7438602	.1911559	17.15603	46.99837

#1	.0834722	6.005899	.6032703	.9545615	.0131632	.0135456
#2	.0833133	5.988816	.6096501	.9571456	.0103150	.0067881

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.962975	.0567568	.6458807	2.156705	.0001409	.4712207
Stddev	.004321	.0005333	.0028352	.005984	.0014945	.0004800
%RSD	.1458426	.9396178	.4389681	.2774481	1060.502	.1018557

#1	2.959919	.0563797	.6478855	2.160936	.0011977	.4715601
#2	2.966031	.0571339	.6438759	2.152474	-.000916	.4708813

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.905017
Stddev	.011055
%RSD	.5803002

#1	1.897200
#2	1.912834

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-1-d du Acquired: 9/4/2018 18:00:59 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1373.328	1032.618	9721.817	4569.574
Stddev	3.074	3.892	54.251	5.230
%RSD	.2238260	.3769189	.5580301	.1144630
#1	1371.155	1029.866	9683.456	4565.876
#2	1375.502	1035.371	9760.178	4573.273

Sample Name: 150680-e-1-d du@5 Acquired: 9/4/2018 18:04:59 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009563	54.98873	.0363473	.0910422	.4119649	.0031566	.0021341
Stddev	.0000390	.11613	.0018891	.0005566	.0000589	.0002103	.0002987
%RSD	4.076801	.2111969	5.197437	.6113334	.0142851	6.661388	13.99782

#1	.0009287	54.90661	.0376831	.0906486	.4119233	.0030079	.0023453
#2	.0009839	55.07085	.0350115	.0914357	.4120065	.0033053	.0019228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	220.0433	.0020326	.1704245	.0609734	.0947101	.1559415	87.95276
Stddev	.8815	.0000995	.0032293	.0009811	.0004040	.0002476	.61244
%RSD	.4005986	4.892654	1.894878	1.609088	.4265742	.1587794	.6963333

#1	219.4200	.0021029	.1681410	.0602797	.0944244	.1557665	87.51969
#2	220.6666	.0019622	.1727080	.0616672	.0949957	.1561166	88.38582

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.41562	.0858150	129.2819	3.026244	.0209435	1.371182	.1312992
Stddev	.02460	.0005766	.4748	.012629	.0005642	.001313	.0000217
%RSD	.1833970	.6718945	.3672953	.4173112	2.694123	.0957499	.0165064

#1	13.43302	.0854073	128.9461	3.017314	.0213425	1.370254	.1313145
#2	13.39823	.0862227	129.6176	3.035174	.0205445	1.372111	.1312839

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150680-e-1-d du@5 Acquired: 9/4/2018 18:04:59 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2075221	.0041823	.0046862	.7241796	.0113519	.1576628	.5306182
Stddev	.0004384	.0012404	.0035885	.0021254	.0019269	.0001796	.0004727
%RSD	.2112388	29.65778	76.57582	.2934883	16.97388	.1139095	.0890855

#1	.2072121	.0050594	.0072237	.7256825	.0127144	.1575358	.5309524
#2	.2078321	.0033053	.0021488	.7226768	.0099894	.1577898	.5302839

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000417	.1164122	.4100842
Stddev	.002495	.0000390	.0021314
%RSD	598.6945	.0335283	.5197492

#1	.001347	.1163846	.4085771
#2	-.002181	.1164398	.4115913

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1699.947	1016.630	9466.889	4282.380
Stddev	2.460	2.654	16.502	5.788
%RSD	.1446990	.2610607	.1743075	.1351491

#1	1701.686	1014.753	9478.558	4286.473
#2	1698.207	1018.506	9455.221	4278.288

Sample Name: CCV Acquired: 9/4/2018 18:08:55 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4764454	52.25229	.5043189	.4907736	.4866760	.5123267
Stddev	.0001298	.19457	.0053677	.0014187	.0000987	.0032780
%RSD	.0272366	.3723676	1.064354	.2890679	.0202769	.6398348

#1	.4765371	52.11471	.5005233	.4897704	.4867457	.5100087
#2	.4763536	52.38987	.5081145	.4917767	.4866062	.5146446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5072738	26.53543	.5019768	F -.049726	.5041874	.4822051
Stddev	.0031847	.13148	.0001487	.009155	.0000405	.0013493
%RSD	.6278110	.4954937	.0296298	18.41079	.0080388	.2798207

#1	.5050219	26.44246	.5020819	-.056200	.5042160	.4831592
#2	.5095258	26.62840	.5018716	-.043253	.5041587	.4812510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5003607	26.43626	49.06848	3.902795	25.84955	4.964350
Stddev	.0008204	.22033	.18294	.007625	.14508	.028508
%RSD	.1639666	.8334472	.3728238	.1953752	.5612292	.5742556

#1	.4997806	26.28046	49.19784	3.908186	25.74697	4.944191
#2	.5009408	26.59206	48.93912	3.897403	25.95213	4.984508

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 18:08:55 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4819797	24.23447	.4961412	.4967498	.4605587	.4839788
Stddev	.0008408	.07415	.0001696	.0002273	.0025777	.0019337
%RSD	.1744568	.3059626	.0341772	.0457518	.5596926	.3995344

#1	.4813851	24.28690	.4960213	.4965891	.4587360	.4853461
#2	.4825743	24.18204	.4962611	.4969105	.4623814	.4826115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4218715	.5142060	.5069854	.5003589	.4937556	4.834411
Stddev	.0035484	.0013709	.0001593	.0012932	.0023096	.001186
%RSD	.8410963	.2666104	.0314200	.2584448	.4677539	.0245358

#1	.4193624	.5132366	.5068727	.4994445	.4921225	4.835250
#2	.4243806	.5151754	.5070980	.5012733	.4953887	4.833572

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5007534
Stddev	.0016416
%RSD	.3278364

#1	.5019142
#2	.4995926

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 18:08:55 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1822.849	1027.593	9433.561	4171.941
Stddev	3.049	2.530	4.456	4.197
%RSD	.1672587	.2461851	.0472338	.1006002
#1	1825.005	1029.382	9430.411	4168.973
#2	1820.693	1025.804	9436.712	4174.909

Sample Name: CCB Acquired: 9/4/2018 18:12:48 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007833	-.049958	.0012186	-.000591	-.000279	.0001238
Stddev	.0004572	.002451	.0006716	.000234	.000009	.0000982
%RSD	58.36668	4.905603	55.11321	39.58957	3.311839	79.36251

#1	.0011066	-.048225	.0007437	-.000426	-.000285	.0001932
#2	.0004600	-.051691	.0016935	-.000757	-.000272	.0000543

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010121	.0116577	.0002245	F .0065749	.0001505	.0003161
Stddev	.0003829	.0033692	.0000866	.0066574	.0002739	.0005350
%RSD	37.83092	28.90114	38.57762	101.2543	181.9231	169.2657

#1	.0007413	.0092753	.0002857	.0112824	.0003442	-.000062
#2	.0012828	.0140400	.0001632	.0018674	-.000043	.000694

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000463	.0188741	-.030616	.0007135	-.000898	-.000004
Stddev	.000233	.0041641	.000228	.0001656	.000599	.000366
%RSD	50.43752	22.06262	.7439673	23.21106	66.67305	9893.189

#1	-.000628	.0218186	-.030455	.0008306	-.001322	-.000263
#2	-.000298	.0159296	-.030777	.0005964	-.000475	.000255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/4/2018 18:12:48 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005466	.0195123	-.000396	-.000205	.0032446	.0004790
Stddev	.0001326	.0044244	.002542	.000321	.0019176	.0010262
%RSD	24.26046	22.67507	642.1836	156.3775	59.10014	214.2196

#1	.0004528	.0163837	.001402	-.000432	.0046005	-.000247
#2	.0006404	.0226408	-.002194	.000022	.0018887	.001205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000617	.0008678	.0000258	.0009948	.0011234	.0004090
Stddev	.001008	.0015291	.0000034	.0000819	.0001200	.0001270
%RSD	163.3914	176.2047	13.29316	8.228604	10.68141	31.05822

#1	-.001330	.0019490	.0000282	.0010527	.0012083	.0004989
#2	.000096	-.000213	.0000234	.0009369	.0010386	.0003192

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000068
Stddev	.000012
%RSD	17.40375

#1	-.000077
#2	-.000060

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/4/2018 18:12:48 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2070.662	1123.568	9764.246	4219.966
Stddev	134.647	82.874	14.551	7.791
%RSD	6.502593	7.376001	.1490204	.1846214
#1	1975.452	1064.967	9774.535	4214.457
#2	2165.872	1182.169	9753.957	4225.475

Sample Name: 500-150680-e-1-e ms Acquired: 9/4/2018 18:16:54 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0441592	278.1626	.2056445	1.127346	2.864643	.0535487
Stddev	.0000571	.2350	.0061908	.062577	.003296	.0006169
%RSD	.1292707	.0844994	3.010439	5.550804	.1150481	1.152054

#1	.0441189	277.9964	.2100220	1.171595	2.866973	.0539849
#2	.0441996	278.3288	.2012669	1.083098	2.862312	.0531124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5404064	F 1023.234	.0469977	.7302158	.6719403	.5382671
Stddev	.0333199	.518	.0027815	.0084646	.0387141	.0018067
%RSD	6.165715	.0506139	5.918395	1.159191	5.761536	.3356590

#1	.5639671	1023.600	.0489645	.7242304	.6993153	.5395447
#2	.5168457	1022.868	.0450308	.7362012	.6445653	.5369896

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8698989	315.7421	82.64774	.8067894	662.1952	8.036467
Stddev	.0023377	.2790	.07753	.0005853	2.4391	.020396
%RSD	.2687299	.0883637	.0938054	.0725510	.3683320	.2537896

#1	.8715519	315.9394	82.70256	.8063755	663.9199	8.050889
#2	.8682459	315.5448	82.59292	.8072033	660.4705	8.022045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-1-e ms Acquired: 9/4/2018 18:16:54 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7449117	14.18867	.9012212	1.062639	.1011383	.0698682
Stddev	.0362051	.02403	.0489229	.062796	.0050836	.0013800
%RSD	4.860316	.1693838	5.428510	5.909453	5.026418	1.975152

#1	.7705125	14.20566	.9358149	1.107043	.1047330	.0708440
#2	.7193108	14.17168	.8666275	1.018236	.0975437	.0688923

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.028986	.9423237	1.496571	3.291912	.0838009	.8818701
Stddev	.172690	.0460845	.006006	.003186	.0072821	.0005629
%RSD	5.701260	4.890516	.4013223	.0967937	8.689708	.0638247

#1	3.151096	.9749104	1.500818	3.289659	.0889501	.8814721
#2	2.906875	.9097371	1.492324	3.294165	.0786517	.8822681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	2.117449
Stddev	.102804
%RSD	4.855081

#1	2.190142
#2	2.044756

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-1-e ms Acquired: 9/4/2018 18:16:54 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1389.707	1053.429	9589.246	4546.551
Stddev	69.456	47.472	42.185	24.240
%RSD	4.997925	4.506473	.4399186	.5331441
#1	1340.594	1019.860	9559.417	4529.411
#2	1438.820	1086.997	9619.076	4563.691

Sample Name: 150680-e-1-e ms@5 Acquired: 9/4/2018 18:20:58 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101657	63.43405	.0515660	.2985371	.6624499	.0126783	.1056746
Stddev	.0004676	.19763	.0003021	.0002697	.0028328	.0001582	.0013878
%RSD	4.599443	.3115535	.5859115	.0903413	.4276232	1.247581	1.313294

#1	.0098351	63.29430	.0517797	.2987278	.6604469	.0125665	.1066560
#2	.0104963	63.57379	.0513524	.2983463	.6644530	.0127901	.1046933

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	263.1123	.0118873	.1602258	.1450937	.1384980	.1870200	78.06669
Stddev	.3244	.0000956	.0034089	.0003575	.0015834	.0003331	.04026
%RSD	.1232757	.8044874	2.127526	.2464127	1.143300	.1781115	.0515684

#1	263.3416	.0119549	.1626363	.1453465	.1396176	.1867845	78.09515
#2	262.8829	.0118197	.1578154	.1448409	.1373783	.1872555	78.03822

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.49010	.1811455	155.9384	1.989591	.1913096	3.203958	.2039467
Stddev	.01815	.0010725	.0993	.001561	.0002942	.005100	.0001958
%RSD	.0981497	.5920689	.0636654	.0784761	.1537749	.1591675	.0960206

#1	18.47727	.1803872	155.8682	1.990695	.1915176	3.200352	.2040852
#2	18.50293	.1819039	156.0086	1.988487	.1911016	3.207564	.2038083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150680-e-1-e ms@5 Acquired: 9/4/2018 18:20:58 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2394649	.0266605	.0165904	.7762284	.2065311	.3698202	.8129348
Stddev	.0006871	.0020815	.0007893	.0003628	.0003055	.0002412	.0014656
%RSD	.2869420	7.807434	4.757312	.0467345	.1479238	.0652173	.1802807

#1	.2389790	.0251886	.0171485	.7759718	.2063151	.3699907	.8118985
#2	.2399508	.0281323	.0160323	.7764849	.2067472	.3696496	.8139711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0211855	.2175523	.4740726
Stddev	.0010187	.0022029	.0003403
%RSD	4.808531	1.012562	.0717709

#1	.0204652	.2191099	.4743132
#2	.0219058	.2159946	.4738320

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1674.573	1007.590	9394.897	4274.116
Stddev	5.626	5.901	.592	10.061
%RSD	.3359957	.5856938	.0062965	.2354002

#1	1678.552	1011.763	9395.315	4267.002
#2	1670.595	1003.417	9394.478	4281.230

Sample Name: 500-150680-e-1-f msd Acquired: 9/4/2018 18:24:51 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0439890	261.8734	.1984413	1.069408	3.656653	.0539333
Stddev	.0000658	1.0570	.0131020	.080978	.009143	.0005169
%RSD	.1496406	.4036329	6.602457	7.572265	.2500507	.9584284

#1	.0440356	261.1259	.2077059	1.126669	3.650188	.0542988
#2	.0439425	262.6208	.1891768	1.012148	3.663119	.0535678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5293856	F 960.7043	.0466429	.5969459	.6837725	.5180596
Stddev	.0446889	13.8547	.0036470	.0018552	.0533187	.0012336
%RSD	8.441645	1.442144	7.818903	.3107770	7.797729	.2381127

#1	.5609854	950.9076	.0492217	.5982577	.7214745	.5189318
#2	.4977858	970.5011	.0440641	.5956341	.6460705	.5171873

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8881968	316.4332	77.78919	.8061113	623.0628	14.64671
Stddev	.0036566	1.8578	.14056	.0009204	1.7997	.03476
%RSD	.4116894	.5871191	.1806871	.1141737	.2888548	.2373218

#1	.8907824	315.1195	77.68981	.8054605	621.7901	14.62213
#2	.8856112	317.7469	77.88858	.8067621	624.3354	14.67129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-1-f msd Acquired: 9/4/2018 18:24:51 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7429359	14.27107	.9018556	.9930391	.0930873	.0713608
Stddev	.0506450	.03214	.0672660	.0766246	.0053159	.0014569
%RSD	6.816871	.2252114	7.458619	7.716169	5.710716	2.041658

#1	.7787473	14.24835	.9494198	1.047221	.0968462	.0723910
#2	.7071245	14.29380	.8542913	.938857	.0893283	.0703306

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.806976	.9336527	1.481986	3.197697	.0798451	.8740180
Stddev	.226641	.0675983	.003888	.009426	.0083267	.0028218
%RSD	8.074191	7.240197	.2623565	.2947696	10.42852	.3228571

#1	2.967235	.9814519	1.484735	3.191032	.0857329	.8720226
#2	2.646717	.8858535	1.479237	3.204362	.0739573	.8760133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	2.202591
Stddev	.149272
%RSD	6.777127

#1	2.308142
#2	2.097039

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-1-f msd Acquired: 9/4/2018 18:24:51 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1428.434	1075.362	9575.370	4498.668
Stddev	93.958	66.021	31.230	18.541
%RSD	6.577703	6.139384	.3261504	.4121510
#1	1361.996	1028.679	9553.287	4485.557
#2	1494.873	1122.046	9597.453	4511.778

Sample Name: 150680-e-1-f msd@5 Acquired: 9/4/2018 18:28:52 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100673	59.77179	.0512888	.2841991	.8427245	.0130580	.1040176
Stddev	.0007495	.15275	.0011426	.0027058	.0013682	.0004995	.0006471
%RSD	7.445264	.2555558	2.227705	.9520766	.1623530	3.825369	.6221502

#1	.0095373	59.66377	.0520967	.2822858	.8417571	.0127048	.1044752
#2	.0105973	59.87980	.0504809	.2861124	.8436920	.0134112	.1035600

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	247.7472	.0119566	.1613871	.1500071	.1301596	.1901211	78.36441
Stddev	.0374	.0000671	.0223111	.0009292	.0004424	.0001360	.23086
%RSD	.0150799	.5612050	13.82459	.6194602	.3398967	.0715544	.2946008

#1	247.7208	.0119092	.1456108	.1493501	.1298468	.1900250	78.20116
#2	247.7736	.0120041	.1771635	.1506642	.1304725	.1902174	78.52765

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.37622	.1782889	146.1511	3.637312	.1930863	3.191352	.2058205
Stddev	.03166	.0007551	.1535	.001580	.0004004	.005580	.0007910
%RSD	.1822023	.4235136	.1050594	.0434292	.2073864	.1748359	.3843217

#1	17.35384	.1777550	146.0425	3.636195	.1933695	3.187406	.2063798
#2	17.39861	.1788228	146.2596	3.638429	.1928032	3.195297	.2052612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150680-e-1-f msd@5 Acquired: 9/4/2018 18:28:52 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2308443	.0222794	.0169705	.7306860	.2058607	.3647222	.7804724
Stddev	.0024376	.0016147	.0035637	.0011056	.0003223	.0001452	.0011011
%RSD	1.055960	7.247552	20.99918	.1513062	.1565533	.0398063	.1410839

#1	.2291206	.0211376	.0144506	.7299042	.2056328	.3646195	.7796938
#2	.2325679	.0234211	.0194903	.7314677	.2060886	.3648248	.7812510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0226369	.2132127	.4979967
Stddev	.0007019	.0005209	.0049098
%RSD	3.100547	.2442929	.9859115

#1	.0221406	.2128444	.4945250
#2	.0231332	.2135810	.5014685

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1694.155	1018.026	9414.875	4240.973
Stddev	5.473	3.716	8.703	14.987
%RSD	.3230506	.3650678	.0924435	.3533742

#1	1698.025	1020.654	9421.029	4230.376
#2	1690.285	1015.398	9408.720	4251.570

Sample Name: 500-150680-e-2-c Acquired: 9/4/2018 18:32:46 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021524	200.8641	.1267320	.3298888	.9491758	.0117400
Stddev	.0003487	.7233	.0133896	.0360192	.0000149	.0000796
%RSD	16.20002	.3601042	10.56531	10.91858	.0015696	.6783981

#1	.0023990	200.3526	.1361999	.3553581	.9491863	.0116837
#2	.0019059	201.3755	.1172641	.3044194	.9491653	.0117964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034535	F 1254.696	.0040749	.5994610	.1948077	.3068612
Stddev	.0009919	1.496	.0005047	.0131202	.0210361	.0002433
%RSD	28.72142	.1191986	12.38477	2.188671	10.79839	.0792967

#1	.0041548	1255.753	.0044317	.5901836	.2096825	.3070332
#2	.0027521	1253.638	.0037181	.6087385	.1799330	.3066891

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5800695	336.2335	55.34036	.3910515	805.4426	5.812256
Stddev	.0017330	1.3997	.03988	.0006012	2.4890	.007449
%RSD	.2987559	.4162776	.0720573	.1537491	.3090194	.1281625

#1	.5788441	335.2438	55.36856	.3914766	803.6826	5.806989
#2	.5812949	337.2233	55.31217	.3906264	807.2026	5.817523

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-2-c Acquired: 9/4/2018 18:32:46 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0828960	5.943200	.5070204	.5946031	.0084387	.0077226
Stddev	.0069033	.000705	.0613518	.0660403	.0018235	.0027697
%RSD	8.327652	.0118558	12.10047	11.10663	21.60931	35.86466

#1	.0877773	5.942702	.5504027	.6413007	.0097281	.0096811
#2	.0780146	5.943699	.4636381	.5479055	.0071492	.0057642

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.215307	.0407632	.7696261	1.574518	.0059428	.3842143
Stddev	.259639	.0071060	.0015335	.001894	.0008362	.0008271
%RSD	11.72022	17.43246	.1992481	.1202876	14.07054	.2152806

#1	2.398900	.0457879	.7685417	1.573178	.0065341	.3847992
#2	2.031715	.0357384	.7707104	1.575857	.0053516	.3836294

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.025782
Stddev	.100804
%RSD	9.827028

#1	1.097061
#2	.954503

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-2-c Acquired: 9/4/2018 18:32:46 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1416.686	1062.773	9408.220	4478.881
Stddev	128.802	90.817	4.424	7.516
%RSD	9.091816	8.545308	.0470248	.1678168
#1	1325.609	998.555	9405.091	4473.566
#2	1507.763	1126.990	9411.348	4484.196

Sample Name: 500-150680-e-2-c@5 Acquired: 9/4/2018 18:36:49 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010066	45.83502	.0331362	.0900936	.2194226	.0028703	.0002005
Stddev	.0009021	.18438	.0009765	.0004688	.0001656	.0002332	.0017755
%RSD	89.61823	.4022606	2.946981	.5203558	.0754539	8.125777	885.3664

#1	.0003687	45.70464	.0324457	.0897621	.2193056	.0030352	-.001055
#2	.0016445	45.96539	.0338267	.0904251	.2195397	.0027054	.001456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	328.4125	.0016675	.1451389	.0442658	.0779791	.1240284	83.35020
Stddev	.5584	.0000174	.0123198	.0000782	.0005315	.0007114	.05688
%RSD	.1700330	1.041195	8.488303	.1766285	.6816058	.5735477	.0682457

#1	328.8074	.0016552	.1364274	.0443211	.0776033	.1245314	83.39042
#2	328.0177	.0016797	.1538503	.0442105	.0783549	.1235254	83.30997

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.33719	.0882976	191.2105	1.438732	.0219761	1.365133	.1207927
Stddev	.00048	.0003582	.0947	.003791	.0002323	.009627	.0000859
%RSD	.0039181	.4056475	.0495465	.2635173	1.057226	.7051947	.0710855

#1	12.33685	.0885509	191.1436	1.441413	.0221404	1.371941	.1207319
#2	12.33754	.0880443	191.2775	1.436051	.0218119	1.358326	.1208534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-2-c@5 Acquired: 9/4/2018 18:36:49 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1396675	.0036971	.0000193	.5706668	.0086600	.1880733	.3870651
Stddev	.0011472	.0003836	.0010140	.0020532	.0024313	.0003510	.0013407
%RSD	.8213491	10.37606	5266.817	.3597915	28.07556	.1866513	.3463619

#1	.1388563	.0034259	-.000698	.5692149	.0103792	.1883216	.3880131
#2	.1404786	.0039684	.000736	.5721186	.0069408	.1878251	.3861172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0002611	.0939752	.2401514
Stddev	.0004352	.0009718	.0002954
%RSD	166.6954	1.034075	.1230220

#1	-.000047	.0946624	.2403604
#2	.000569	.0932881	.2399426

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1661.645	1006.072	9298.355	4226.858
Stddev	1.674	2.723	19.363	18.359
%RSD	.1007665	.2706134	.2082429	.4343314

#1	1660.462	1007.997	9284.663	4213.877
#2	1662.830	1004.147	9312.047	4239.840

Sample Name: 500-150680-e-3-c Acquired: 9/4/2018 18:40:46 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028694	194.8583	.1121429	.3435444	1.911595	.0116889
Stddev	.0002233	.1297	.0141739	.0480402	.004069	.0000865
%RSD	7.783433	.0665580	12.63911	13.98370	.2128618	.7401801

#1	.0030273	194.7666	.1221653	.3775140	1.914472	.0117501
#2	.0027114	194.9500	.1021205	.3095749	1.908718	.0116277

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064955	F 933.4142	.0079038	.6089926	.1851719	.2782218
Stddev	.0029566	3.4004	.0009049	.0133565	.0267063	.0003460
%RSD	45.51839	.3642976	11.44953	2.193207	14.42242	.1243749

#1	.0085861	931.0098	.0085437	.5995481	.2040561	.2784665
#2	.0044048	935.8187	.0072639	.6184370	.1662877	.2779771

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.043137	309.0715	53.69349	.3626380	478.5964	5.282531
Stddev	.004153	.7778	.18413	.0011079	.2064	.005738
%RSD	.3980986	.2516670	.3429241	.3055053	.0431353	.1086260

#1	1.040200	308.5215	53.82369	.3634213	478.7423	5.278474
#2	1.046073	309.6215	53.56329	.3618546	478.4504	5.286589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-3-c Acquired: 9/4/2018 18:40:46 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0609055	6.720153	.4819426	3.514540	.0099717	.0066621
Stddev	.0077286	.047485	.0702489	.483370	.0019579	.0015504
%RSD	12.68956	.7066063	14.57619	13.75345	19.63477	23.27154

#1	.0663704	6.753730	.5316161	3.856335	.0113561	.0055658
#2	.0554405	6.686576	.4322692	3.172746	.0085872	.0077584

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.155045	.0927211	.8132519	2.205048	.0075108	.3603610
Stddev	.318780	.0140656	.0018511	.002160	.0013346	.0011740
%RSD	14.79227	15.16979	.2276143	.0979530	17.76907	.3257803

#1	2.380457	.1026670	.8119430	2.203521	.0065671	.3611912
#2	1.929633	.0827752	.8145608	2.206576	.0084545	.3595309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	2.109240
Stddev	.267804
%RSD	12.69670

#1	2.298606
#2	1.919874

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-3-c Acquired: 9/4/2018 18:40:46 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1528.812	1106.112	9547.845	4465.158
Stddev	173.108	116.558	14.235	16.640
%RSD	11.32301	10.53767	.1490963	.3726722
#1	1406.406	1023.693	9557.911	4453.392
#2	1651.217	1188.531	9537.779	4476.925

Sample Name: 500-150680-e-3-c@5 Acquired: 9/4/2018 18:44:51 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006267	44.03733	.0279795	.0937468	.4377696	.0026454	.0031631
Stddev	.0009943	.15951	.0002407	.0000017	.0005473	.0001504	.0027582
%RSD	158.6605	.3622122	.8603074	.0018026	.1250237	5.684262	87.19936

#1	.0013298	43.92454	.0278093	.0937480	.4373826	.0027517	.0012128
#2	-.000076	44.15012	.0281497	.0937457	.4381566	.0025391	.0051134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	236.5233	.0026172	.1301207	.0422683	.0692302	.2237090	75.54008
Stddev	.6199	.0000471	.0037959	.0000509	.0003848	.0002360	.35605
%RSD	.2620886	1.798737	2.917210	.1203768	.5558271	.1054942	.4713354

#1	236.0850	.0025839	.1328048	.0422323	.0689581	.2235421	75.28831
#2	236.9616	.0026505	.1274366	.0423043	.0695023	.2238759	75.79184

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.92262	.0801930	110.5417	1.290200	.0159249	1.519190	.1163781
Stddev	.00176	.0000274	.2616	.004326	.0000980	.003344	.0006530
%RSD	.0148030	.0341037	.2366753	.3352734	.6154767	.2201109	.5611486

#1	11.92387	.0802123	110.3567	1.287142	.0158556	1.516826	.1159163
#2	11.92137	.0801736	110.7267	1.293259	.0159942	1.521555	.1168399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-3-c@5 Acquired: 9/4/2018 18:44:51 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8472662	.0025805	.0022448	.5646576	.0218135	.1956308	.5332411
Stddev	.0048220	.0002700	.0064513	.0025491	.0007725	.0001370	.0003908
%RSD	.5691298	10.46207	287.3922	.4514378	3.541366	.0700413	.0732947

#1	.8438565	.0023896	-.002317	.5628552	.0212673	.1955339	.5329647
#2	.8506759	.0027714	.006807	.5664601	.0223597	.1957277	.5335175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0005956	.0866395	.5024635
Stddev	.0008661	.0004758	.0031862
%RSD	145.4182	.5491478	.6341187

#1	.0012081	.0863031	.5002105
#2	-.000017	.0869760	.5047165

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1724.068	1025.831	9471.110	4246.043
Stddev	2.371	.711	20.203	.766
%RSD	.1374977	.0693258	.2133133	.0180343

#1	1725.744	1026.334	9485.396	4245.502
#2	1722.391	1025.328	9456.824	4246.585

Sample Name: 500-150680-e-4-c Acquired: 9/4/2018 18:48:49 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029629	192.4105	.1782640	.3251080	.6332655	.0127702	.0026744
Stddev	.0000932	.2518	.0035011	.0002871	.0001222	.0010310	.0040650
%RSD	3.144945	.1308545	1.964000	.0883141	.0192975	8.073646	151.9954

#1	.0030288	192.2325	.1757883	.3249050	.6333520	.0134993	-.000200
#2	.0028970	192.5885	.1807396	.3253110	.6331791	.0120412	.005549

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	597.9473	.0030696	.6061172	.2429594	.2773855	.6940214	380.4720
Stddev	.2065	.0000130	.0223717	.0010566	.0004987	.0009103	.4244
%RSD	.0345387	.4249685	3.690992	.4348917	.1797922	.1311572	.1115384

#1	598.0933	.0030788	.5902980	.2422123	.2777381	.6946651	380.7721
#2	597.8013	.0030604	.6219364	.2437066	.2770328	.6933778	380.1720

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	53.51609	.4605588	373.6795	5.150689	.1451078	2.954503	.6692805
Stddev	.08963	.0017113	.6589	.004395	.0006016	.001327	.0004884
%RSD	.1674805	.3715629	.1763370	.0853356	.4145745	.0449267	.0729729

#1	53.57946	.4593487	374.1454	5.153797	.1455332	2.953564	.6689351
#2	53.45271	.4617688	373.2136	5.147581	.1446824	2.955441	.6696258

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 500-150680-e-4-c Acquired: 9/4/2018 18:48:49 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3499674	.0040061	.0089864	2.052483	.0314372	.6501178	1.159817
Stddev	.0046134	.0041153	.0021443	.005818	.0005997	.0005971	.000205
%RSD	1.318238	102.7266	23.86172	.2834783	1.907536	.0918475	.0176641
#1	.3532295	.0010961	.0074702	2.048368	.0318613	.6505400	1.159962
#2	.3467052	.0069161	.0105027	2.056597	.0310132	.6496955	1.159672

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0059393	.3559062	.9286208
Stddev	.0024799	.0015324	.0015972
%RSD	41.75376	.4305564	.1720028
#1	.0041857	.3569898	.9274914
#2	.0076928	.3548227	.9297502

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1483.940	1067.248	9933.472	4624.659
Stddev	1.653	1.662	20.757	19.571
%RSD	.1113901	.1557504	.2089590	.4231899
#1	1482.771	1066.073	9918.794	4610.820
#2	1485.108	1068.424	9948.149	4638.498

Sample Name: 500-150680-e-4-c@5 Acquired: 9/4/2018 18:52:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018377	43.74455	.0435041	.0804130	.1460556	.0028428	.0003818
Stddev	.0002913	.29429	.0008785	.0001344	.0001006	.0007111	.0001747
%RSD	15.85407	.6727449	2.019246	.1671292	.0688765	25.01447	45.75157

#1	.0020437	43.53646	.0428829	.0805081	.1459845	.0023400	.0002583
#2	.0016316	43.95264	.0441252	.0803180	.1461267	.0033456	.0005054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	147.9116	.0011960	.1429551	.0499263	.0695780	.1479763	92.80576
Stddev	.7728	.0000020	.0019966	.0000399	.0001019	.0002285	.32626
%RSD	.5224750	.1701885	1.396654	.0799911	.1464493	.1544343	.3515488

#1	147.3651	.0011974	.1443669	.0498980	.0696500	.1478147	92.57506
#2	148.4580	.0011945	.1415433	.0499545	.0695059	.1481379	93.03646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.01927	.1027999	85.90495	1.255842	.0347461	.6778378	.1434314
Stddev	.01581	.0002107	.46141	.005575	.0004501	.0028357	.0003125
%RSD	.1315667	.2049269	.5371159	.4439221	1.295264	.4183415	.2178677

#1	12.03045	.1029488	85.57869	1.251900	.0344278	.6798429	.1436523
#2	12.00808	.1026509	86.23122	1.259784	.0350643	.6758327	.1432104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-4-c@5 Acquired: 9/4/2018 18:52:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0754262	-.000180	.0026517	.4878486	.0060349	.1544580	.2792549
Stddev	.0020579	.001119	.0021047	.0000151	.0005955	.0000737	.0003659
%RSD	2.728381	621.7149	79.37244	.0031032	9.866977	.0476936	.1310329

#1	.0768814	-.000971	.0011634	.4878593	.0064560	.1544059	.2789961
#2	.0739710	.000611	.0041399	.4878379	.0056139	.1545101	.2795136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0029117	.0857123	.2017645
Stddev	.0016925	.0007948	.0012953
%RSD	58.12659	.9273362	.6419768

#1	.0041084	.0851503	.2008486
#2	.0017149	.0862744	.2026804

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1777.982	1049.103	9615.795	4305.562
Stddev	1.860	.506	.481	5.504
%RSD	.1046145	.0481867	.0050069	.1278434

#1	1779.297	1048.745	9615.455	4309.454
#2	1776.667	1049.460	9616.136	4301.670

Sample Name: CCV Acquired: 9/4/2018 18:56:46 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4751214	52.21281	.5061322	.4875341	.4756024	.5066333
Stddev	.0012518	.12308	.0020965	.0049455	.0001573	.0010741
%RSD	.2634631	.2357360	.4142195	1.014391	.0330634	.2120149

#1	.4760065	52.12578	.5046497	.4840371	.4754911	.5058738
#2	.4742362	52.29984	.5076146	.4910311	.4757135	.5073929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5050592	26.80320	.5007160	F -.049062	.5018389	.4817255
Stddev	.0007603	.03920	.0027212	.004726	.0003532	.0019446
%RSD	.1505361	.1462347	.5434656	9.633072	.0703784	.4036759

#1	.5045216	26.77549	.4987918	-.045720	.5020886	.4831006
#2	.5055968	26.83092	.5026402	-.052404	.5015891	.4803505

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4947408	26.46901	48.41870	3.800225	25.74824	4.953022
Stddev	.0012124	.00819	.01588	.010764	.10122	.000836
%RSD	.2450518	.0309472	.0328067	.2832407	.3931113	.0168874

#1	.4938835	26.46322	48.40747	3.792614	25.67667	4.952431
#2	.4955980	26.47480	48.42993	3.807836	25.81981	4.953614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 18:56:46 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4826438	23.52498	.4926624	.4947652	.4614654	.4867302
Stddev	.0016612	.01775	.0011214	.0027074	.0046628	.0051890
%RSD	.3441806	.0754615	.2276148	.5472112	1.010432	1.066102

#1	.4814692	23.51243	.4918694	.4928508	.4581683	.4830610
#2	.4838184	23.53753	.4934553	.4966796	.4647624	.4903994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4119783	.5131858	.5051767	.4979680	.4905629	4.802263
Stddev	.0058142	.0007998	.0001415	.0010392	.0001305	.000427
%RSD	1.411297	.1558562	.0280164	.2086952	.0266012	.0088837

#1	.4078670	.5126202	.5052768	.4972332	.4906552	4.801961
#2	.4160896	.5137514	.5050767	.4987029	.4904706	4.802565

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5019358
Stddev	.0002480
%RSD	.0494130

#1	.5017604
#2	.5021112

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 18:56:46 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1849.707	1041.613	9467.435	4202.469
Stddev	5.737	7.097	5.520	5.232
%RSD	.3101663	.6813153	.0583070	.1244944
#1	1853.764	1046.631	9463.532	4198.770
#2	1845.650	1036.594	9471.339	4206.169

Sample Name: CCB Acquired: 9/4/2018 19:00:40 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000662	-.035575	.0016683	.0005898	-.000183	.0002966
Stddev	.0001535	.010103	.0026446	.0001723	.000038	.0000944
%RSD	231.9736	28.39948	158.5168	29.20890	20.70030	31.83241

#1	.0001747	-.028431	-.000202	.0007116	-.000156	.0003634
#2	-.000042	-.042719	.003538	.0004680	-.000210	.0002299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001282	.0031558	.0002277	F .0087925	.0002493	-.000331
Stddev	.000377	.0035456	.0000764	.0061622	.0001260	.000126
%RSD	29.42111	112.3524	33.54634	70.08492	50.52759	38.07234

#1	-.001015	.0056629	.0002817	.0131499	.0003383	-.000242
#2	-.001549	.0006487	.0001737	.0044352	.0001602	-.000420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001116	.0627326	.0156853	.0007955	.0176706	-.000120
Stddev	.000137	.0928225	.0122199	.0004355	.0138324	.000174
%RSD	12.32325	147.9655	77.90677	54.74650	78.27896	144.7908

#1	-.001213	-.002903	.0243261	.0011035	.0078897	.000003
#2	-.001018	.128368	.0070445	.0004876	.0274516	-.000243

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/4/2018 19:00:40 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001285	.0253519	-.000030	.0004900	.0041200	-.000893
Stddev	.0005769	.0012125	.001258	.0025502	.0000645	.002642
%RSD	449.0300	4.782837	4253.469	520.4300	1.565352	295.8571

#1	-.000279	.0262093	.000860	-.001313	.0041656	-.002761
#2	.000536	.0244945	-.000919	.002293	.0040744	.000975

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016643	.0002900	.0000241	.0009076	.0004554	.0001674
Stddev	.0013121	.0001774	.0000016	.0001784	.0008930	.0003064
%RSD	78.84026	61.18165	6.551405	19.65532	196.1041	183.0582

#1	.0007365	.0001645	.0000230	.0010337	-.000176	-.000049
#2	.0025921	.0004155	.0000253	.0007814	.001087	.000384

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000091
Stddev	.000056
%RSD	61.10938

#1	-.000130
#2	-.000052

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/4/2018 19:00:40 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2011.055	1085.367	9797.738	4226.714
Stddev	32.677	15.509	9.505	1.694
%RSD	1.624880	1.428877	.0970134	.0400710
#1	1987.948	1074.401	9791.017	4227.912
#2	2034.161	1096.333	9804.459	4225.516

Sample Name: 500-150680-e-5-c Acquired: 9/4/2018 19:04:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029024	200.0571	.1279503	.3306678	.6137972	.0120718
Stddev	.0005045	.6547	.0152797	.0505004	.0000119	.0005204
%RSD	17.38104	.3272577	11.94190	15.27225	.0019346	4.311064

#1	.0032591	199.5942	.1387547	.3663770	.6137888	.0117038
#2	.0025457	200.5201	.1171459	.2949586	.6138056	.0124398

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002483	F 767.2556	.0025255	.6036833	.2100085	.2982076
Stddev	.0003382	2.2960	.0000631	.0074534	.0346521	.0007552
%RSD	136.2006	.2992526	2.496609	1.234659	16.50034	.2532492

#1	.0004875	765.6321	.0025701	.5984130	.2345112	.2976736
#2	.0000092	768.8792	.0024809	.6089537	.1855057	.2987417

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5317033	375.0542	58.06117	.4580716	425.5001	6.599638
Stddev	.0016758	1.3377	.06123	.0011411	1.5436	.026126
%RSD	.3151739	.3566795	.1054562	.2490995	.3627763	.3958692

#1	.5305183	374.1083	58.10447	.4572648	424.4086	6.581164
#2	.5328882	376.0001	58.01787	.4588784	426.5916	6.618112

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-5-c Acquired: 9/4/2018 19:04:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0939993	2.884702	.5414782	.2367581	.0077491	.0061818
Stddev	.0123053	.006050	.0888620	.0416767	.0027233	.0029103
%RSD	13.09087	.2097233	16.41101	17.60310	35.14395	47.07896

#1	.1027005	2.880424	.6043131	.2662280	.0096748	.0082397
#2	.0852981	2.888980	.4786432	.2072882	.0058234	.0041239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.922849	.0282391	.8793649	1.486884	.0070915	.3647761
Stddev	.309647	.0053257	.0000724	.000145	.0020795	.0001634
%RSD	16.10354	18.85934	.0082366	.0097627	29.32468	.0447988

#1	2.141803	.0320050	.8793136	1.486987	.0085619	.3646605
#2	1.703896	.0244733	.8794161	1.486782	.0056210	.3648916

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.7781069
Stddev	.1096542
%RSD	14.09244

#1	.8556441
#2	.7005696

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-5-c Acquired: 9/4/2018 19:04:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1577.622	1138.176	9813.982	4597.615
Stddev	194.103	133.504	14.344	2.564
%RSD	12.30354	11.72967	.1461551	.0557618
#1	1440.370	1043.774	9803.840	4595.802
#2	1714.874	1232.578	9824.125	4599.428

Sample Name: 500-150680-e-5-c@5 Acquired: 9/4/2018 19:08:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011100	45.40065	.0341856	.0918160	.1412272	.0028930	.0014608
Stddev	.0005245	.15597	.0016067	.0005009	.0003540	.0000818	.0007755
%RSD	47.25388	.3435386	4.699947	.5455032	.2506822	2.827695	53.08744

#1	.0014809	45.29036	.0353217	.0921701	.1409768	.0029508	.0009124
#2	.0007391	45.51094	.0330495	.0914618	.1414775	.0028351	.0020091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	193.2466	.0013574	.1161750	.0484118	.0732231	.1139715	91.55283
Stddev	.3859	.0000417	.0035881	.0002156	.0000993	.0007582	.20187
%RSD	.1996990	3.072381	3.088561	.4453867	.1356729	.6652672	.2204974

#1	192.9738	.0013279	.1187121	.0482593	.0731529	.1145077	91.41009
#2	193.5195	.0013869	.1136378	.0485643	.0732934	.1134354	91.69558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.02883	.1026682	98.03035	1.611309	.0246659	.6640543	.1292919
Stddev	.00125	.0006646	.32261	.000636	.0007115	.0016246	.0005223
%RSD	.0096012	.6473108	.3290900	.0394689	2.884393	.2446548	.4039571

#1	13.02794	.1021982	97.80223	1.610859	.0251690	.6629055	.1289226
#2	13.02971	.1031381	98.25847	1.611759	.0241629	.6652031	.1296612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-5-c@5 Acquired: 9/4/2018 19:08:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547536	.0024481	.0024044	.5126931	.0072835	.2124173	.3601643
Stddev	.0051297	.0016471	.0005062	.0024466	.0019168	.0004230	.0003652
%RSD	9.368678	67.28162	21.05058	.4772155	26.31646	.1991557	.1014050

#1	.0583808	.0036128	.0020465	.5109630	.0086388	.2127164	.3599060
#2	.0511263	.0012834	.0027623	.5144231	.0059281	.2121182	.3604225

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0014596	.0870647	.1869883
Stddev	.0017534	.0003232	.0014517
%RSD	120.1260	.3712318	.7763526

#1	.0002198	.0868361	.1859618
#2	.0026994	.0872932	.1880148

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1744.238	1032.902	9541.376	4300.713
Stddev	7.197	.741	13.478	1.311
%RSD	.4126354	.0717547	.1412572	.0304824

#1	1749.327	1033.426	9531.845	4301.640
#2	1739.149	1032.378	9550.906	4299.786

Sample Name: 500-150680-e-6-c Acquired: 9/4/2018 19:12:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020235	150.6567	.0955738	.3395192	.7149564	.0092578
Stddev	.0000973	.8125	.0070981	.0434539	.0021644	.0002360
%RSD	4.808239	.5392829	7.426860	12.79864	.3027364	2.548834

#1	.0020923	150.0822	.1005929	.3702457	.7134259	.0090910
#2	.0019547	151.2312	.0905547	.3087927	.7164869	.0094247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057958	F 1541.156	.0050712	.4993224	.1324872	.2639562
Stddev	.0018615	13.142	.0005512	.0043744	.0192457	.0023877
%RSD	32.11738	.8527459	10.86878	.8760592	14.52643	.9045764

#1	.0044796	1531.863	.0054610	.5024155	.1460959	.2656445
#2	.0071121	1550.449	.0046815	.4962293	.1188785	.2622679

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7723376	241.0810	45.05609	.3040169	882.0119	5.094772
Stddev	.0028942	1.5219	.01453	.0001972	5.2332	.040794
%RSD	.3747337	.6312651	.0322379	.0648638	.5933291	.8006958

#1	.7702910	240.0049	45.06637	.3038774	878.3115	5.065927
#2	.7743841	242.1571	45.04582	.3041563	885.7124	5.123618

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-6-c Acquired: 9/4/2018 19:12:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464995	11.42941	.3621718	.9806122	.0086063	.0065050
Stddev	.0045122	.01139	.0516106	.1296573	.0012852	.0069480
%RSD	9.703845	.0996330	14.25032	13.22208	14.93341	106.8117

#1	.0496901	11.42135	.3986660	1.072294	.0076975	.0114180
#2	.0433089	11.43746	.3256776	.888931	.0095150	.0015919

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.251624	.0508777	1.091233	1.931296	.0027373	.3299619
Stddev	.312330	.0051947	.001127	.000760	.0060783	.0001968
%RSD	13.87132	10.21011	.1032426	.0393501	222.0569	.0596501

#1	2.472475	.0545509	1.092030	1.931834	.0070353	.3301010
#2	2.030773	.0472045	1.090437	1.930759	-.001561	.3298227

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.064626
Stddev	.131024
%RSD	12.30706

#1	1.157274
#2	.971978

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-6-c Acquired: 9/4/2018 19:12:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1400.814	1034.313	9027.835	4310.503
Stddev	148.891	96.530	4.773	3.425
%RSD	10.62892	9.332769	.0528735	.0794508
#1	1295.532	966.056	9024.459	4312.924
#2	1506.097	1102.570	9031.210	4308.081

Sample Name: 500-150680-e-6-c@5 Acquired: 9/4/2018 19:16:51 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008599	33.10212	.0244320	.0899964	.1610681	.0021341	.0028797
Stddev	.0002194	.24508	.0009894	.0006613	.0002875	.0002864	.0029060
%RSD	25.51312	.7403762	4.049761	.7347879	.1785130	13.42175	100.9113

#1	.0010150	32.92882	.0251316	.0895288	.1608648	.0023366	.0008249
#2	.0007047	33.27542	.0237324	.0904640	.1612715	.0019315	.0049346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	393.6046	.0018187	.1175042	.0304738	.0664973	.1588763	57.69459
Stddev	1.2598	.0000360	.0131870	.0004214	.0008809	.0004226	.37033
%RSD	.3200569	1.979359	11.22258	1.382932	1.324732	.2660179	.6418861

#1	392.7138	.0017932	.1081796	.0301758	.0658744	.1585775	57.43273
#2	394.4954	.0018441	.1268288	.0307718	.0671202	.1591752	57.95646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.697858	.0660838	202.9766	1.223439	.0120030	2.493171	.0878583
Stddev	.016449	.0007445	.6557	.005830	.0001179	.005178	.0006347
%RSD	.1696160	1.126541	.3230192	.4765222	.9819924	.2077011	.7224584

#1	9.709489	.0666102	202.5130	1.219317	.0120863	2.496833	.0883072
#2	9.686227	.0655574	203.4402	1.227562	.0119197	2.489509	.0874095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-6-c@5 Acquired: 9/4/2018 19:16:51 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2326403	.0018370	.0003947	.5699091	.0116443	.2606776	.4594104
Stddev	.0016030	.0021488	.0035411	.0031044	.0000026	.0001975	.0002470
%RSD	.6890429	116.9749	897.0795	.5447173	.0221886	.0757507	.0537564

#1	.2315068	.0033564	-.002109	.5677140	.0116461	.2605380	.4592358
#2	.2337738	.0003175	.002899	.5721043	.0116424	.2608173	.4595850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000607	.0785076	.2489915
Stddev	.000410	.0000560	.0018443
%RSD	67.61230	.0712910	.7407173

#1	-.000897	.0785472	.2476874
#2	-.000317	.0784680	.2502957

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1652.563	995.9074	9222.439	4214.211
Stddev	7.508	2.3734	3.294	1.895
%RSD	.4543212	.2383163	.0357166	.0449576

#1	1657.872	997.5856	9224.768	4212.872
#2	1647.254	994.2291	9220.110	4215.551

Sample Name: 500-150680-e-7-c Acquired: 9/4/2018 19:20:48 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024333	188.4474	.1138033	.3040337	.5933360	.0112859
Stddev	.0002533	.3621	.0119359	.0409195	.0004189	.0004610
%RSD	10.41056	.1921646	10.48814	13.45888	.0705940	4.084720

#1	.0022541	188.1913	.1222432	.3329681	.5936322	.0109600
#2	.0026124	188.7034	.1053634	.2750992	.5930398	.0116119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037012	F 780.4916	.0027882	.6077877	.2000529	.2725837
Stddev	.0021770	9.8688	.0005579	.0020887	.0282742	.0006025
%RSD	58.82027	1.264433	20.00891	.3436506	14.13336	.2210485

#1	.0052406	773.5133	.0031827	.6092646	.2200458	.2721576
#2	.0021618	787.4699	.0023938	.6063108	.1800600	.2730097

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5129880	320.4274	55.53933	.4224044	456.5662	5.876265
Stddev	.0006385	1.4815	.12788	.0012225	1.7349	.019612
%RSD	.1244647	.4623528	.2302458	.2894072	.3799859	.3337457

#1	.5134395	319.3799	55.62975	.4232688	455.3394	5.862398
#2	.5125365	321.4750	55.44891	.4215400	457.7929	5.890133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150680-e-7-c Acquired: 9/4/2018 19:20:48 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0825695	9.856008	.5209775	.2291553	.0062438	.0071659
Stddev	.0085283	.006988	.0783671	.0311563	.0027457	.0004207
%RSD	10.32864	.0709012	15.04232	13.59615	43.97402	5.870931

#1	.0885999	9.860949	.5763915	.2511861	.0081853	.0074634
#2	.0765391	9.851067	.4655636	.2071244	.0043023	.0068684

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.997696	.0298537	.8266649	1.766875	.0086542	.3471430
Stddev	.284474	.0029545	.0010311	.003472	.0008669	.0002174
%RSD	14.24010	9.896443	.1247293	.1965219	10.01759	.0626132

#1	2.198850	.0319429	.8273940	1.764420	.0092672	.3469893
#2	1.796543	.0277646	.8259359	1.769331	.0080411	.3472967

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.6914044
Stddev	.0893406
%RSD	12.92161

#1	.7545777
#2	.6282311

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150680-e-7-c Acquired: 9/4/2018 19:20:48 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1565.979	1129.669	9731.150	4537.796
Stddev	178.045	114.817	15.020	4.708
%RSD	11.36956	10.16376	.1543447	.1037543
#1	1440.082	1048.482	9720.530	4534.467
#2	1691.876	1210.857	9741.771	4541.126

Sample Name: 500-150680-e-7-c@5 Acquired: 9/4/2018 19:24:52 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011513	42.57878	.0304869	.0829679	.1361034	.0027814	.0008942
Stddev	.0002302	.06305	.0019201	.0004432	.0003278	.0003764	.0004709
%RSD	19.99760	.1480880	6.298237	.5341699	.2408280	13.53142	52.66506

#1	.0009885	42.53419	.0291292	.0832813	.1358716	.0030476	.0012272
#2	.0013141	42.62336	.0318446	.0826545	.1363351	.0025153	.0005612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	194.4890	.0013767	.1474673	.0454970	.0680505	.1095113	77.85429
Stddev	.3107	.0002657	.0048241	.0002514	.0000372	.0005815	.06374
%RSD	.1597639	19.29814	3.271319	.5526204	.0546808	.5310204	.0818757

#1	194.7088	.0015646	.1440561	.0456748	.0680242	.1099225	77.80921
#2	194.2693	.0011888	.1508785	.0453192	.0680768	.1091001	77.89936

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.44075	.0933478	104.7287	1.428815	.0217151	2.200793	.1237480
Stddev	.01633	.0000572	.1139	.000530	.0001854	.004923	.0001639
%RSD	.1312719	.0612298	.1087109	.0370941	.8536434	.2236962	.1324467

#1	12.42920	.0933882	104.6482	1.429189	.0218462	2.197312	.1236321
#2	12.45229	.0933074	104.8092	1.428440	.0215840	2.204274	.1238639

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150680-e-7-c@5 Acquired: 9/4/2018 19:24:52 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0538576	.0020743	.0034596	.5245484	.0068379	.1983929	.4249515
Stddev	.0004263	.0015301	.0036299	.0001688	.0010121	.0003663	.0000192
%RSD	.7915835	73.76266	104.9221	.0321783	14.80166	.1846364	.0045134

#1	.0541591	.0009924	.0060264	.5246677	.0061222	.1986520	.4249650
#2	.0535561	.0031562	.0008929	.5244290	.0075535	.1981339	.4249379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0024126	.0826162	.1621543
Stddev	.0004059	.0005560	.0008868
%RSD	16.82491	.6730091	.5468986

#1	.0026996	.0822230	.1615272
#2	.0021255	.0830093	.1627814

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1746.013	1036.366	9544.738	4308.929
Stddev	3.152	.593	17.434	10.457
%RSD	.1805490	.0572532	.1826566	.2426748

#1	1748.242	1035.946	9532.410	4301.535
#2	1743.783	1036.785	9557.066	4316.323

Sample Name: mb 500-448202/1-a Acquired: 9/4/2018 19:30:49 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007728	1.085993	-.002502	.0052263	.0027938	-.000147	-.011690
Stddev	.0003683	.035207	.001261	.0006843	.0000230	.000292	.000240
%RSD	47.65503	3.241912	50.41345	13.09411	.8232504	198.0431	2.057264

#1	.0010332	1.061098	-.003394	.0057102	.0028101	.000059	-.011520
#2	.0005124	1.110888	-.001610	.0047424	.0027775	-.000354	-.011860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.227366	.0010242	.0028012	.0002528	.0031498	.0085507	2.122020
Stddev	.042794	.0000275	.0029711	.0000363	.0001894	.0000449	.010556
%RSD	1.325987	2.689939	106.0660	14.34680	6.013253	.5249617	.4974578

#1	3.197105	.0010436	.0049020	.0002272	.0032837	.0085190	2.129484
#2	3.257626	.0010047	.0007003	.0002785	.0030159	.0085824	2.114555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3454745	.0028663	1.806360	.0282994	.0019691	.0927141	.0003570
Stddev	.0015191	.0000069	.019776	.0000377	.0003463	.0034910	.0006578
%RSD	.4397082	.2415530	1.094815	.1331246	17.58759	3.765393	184.2574

#1	.3444003	.0028614	1.820344	.0283260	.0022140	.0951826	-.000108
#2	.3465486	.0028712	1.792376	.0282728	.0017242	.0902455	.000822

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-448202/1-a Acquired: 9/4/2018 19:30:49 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002103	.0018973	.0042084	.1116633	.0142337	.0034658	.0109935
Stddev	.001572	.0014132	.0008497	.0050748	.0024341	.0000250	.0001795
%RSD	74.72729	74.48576	20.18988	4.544688	17.10077	.7221555	1.633131

#1	-.003215	.0008980	.0048092	.1080749	.0125126	.0034835	.0111204
#2	-.000992	.0028965	.0036076	.1152517	.0159549	.0034481	.0108665

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002525	.0022580	.0121299
Stddev	.000908	.0004722	.0000938
%RSD	35.95297	20.91024	.7729448

#1	-.001883	.0019241	.0121962
#2	-.003167	.0025918	.0120636

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1949.526	1049.633	9647.370	4129.082
Stddev	22.677	13.028	21.295	3.078
%RSD	1.163223	1.241201	.2207302	.0745466

#1	1933.491	1040.420	9632.313	4126.906
#2	1965.562	1058.845	9662.428	4131.259

Sample Name: lcs 500-448202/2-a Acquired: 9/4/2018 19:34:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0369472	1.921383	.0869729	.8191943	1.795771	.0465612	.4338657
Stddev	.0000004	.049066	.0001178	.0042990	.007924	.0003621	.0000142
%RSD	.0011896	2.553681	.1353892	.5247898	.4412308	.7776049	.0032768

#1	.0369476	1.886688	.0870561	.8222342	1.790169	.0463052	.4338556
#2	.0369469	1.956077	.0868896	.8161544	1.801374	.0468173	.4338757

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.894499	.0453451	-.001858	.4663201	.1877870	.2422660	1.122219
Stddev	.040483	.0002419	.011758	.0006369	.0010081	.0001266	.055015
%RSD	.4091486	.5335073	632.8369	.1365783	.5368375	.0522675	4.902307

#1	9.865873	.0455162	.006456	.4667705	.1884998	.2423555	1.083318
#2	9.923125	.0451740	-.010172	.4658698	.1870742	.2421764	1.161121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.951560	.4674506	9.492374	.4851275	.9331704	9.789787	.4568469
Stddev	.005673	.0030514	.123193	.0020509	.0057605	.013402	.0015868
%RSD	.0633707	.6527631	1.297808	.4227519	.6173007	.1369022	.3473416

#1	8.947549	.4652930	9.405264	.4836773	.9372436	9.780310	.4579690
#2	8.955571	.4696083	9.579484	.4865777	.9290971	9.799264	.4557249

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-448202/2-a Acquired: 9/4/2018 19:34:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0832438	.4132916	.0738658	3.650297	.9403656	.9601419	.9601567
Stddev	.0006422	.0022007	.0013855	.036671	.0009711	.0007121	.0010200
%RSD	.7714471	.5324749	1.875669	1.004598	.1032681	.0741694	.1062296

#1	.0827897	.4148477	.0728861	3.624367	.9396789	.9606454	.9594355
#2	.0836979	.4117355	.0748455	3.676228	.9410522	.9596383	.9608780

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0843323	.4657883	.4503315
Stddev	.0012429	.0009369	.0001337
%RSD	1.473800	.2011400	.0296923

#1	.0852111	.4664508	.4504261
#2	.0834534	.4651258	.4502370

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1925.216	1048.877	9593.074	4154.016
Stddev	3.677	7.075	19.089	13.055
%RSD	.1910027	.6745544	.1989856	.3142778

#1	1922.616	1043.874	9579.576	4144.784
#2	1927.816	1053.880	9606.572	4163.247

Sample Name: lcs 500-448202/2-a@2 Acquired: 9/4/2018 19:38:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192699	.9455308	.0444885	.4259364	.8965915	.0237564	.2201601
Stddev	.0000606	.0126347	.0025155	.0020210	.0036122	.0003889	.0012108
%RSD	.3145388	1.336254	5.654173	.4744898	.4028853	1.636985	.5499813

#1	.0193128	.9544648	.0462672	.4245073	.8940373	.0240314	.2210163
#2	.0192270	.9365967	.0427098	.4273654	.8991457	.0234814	.2193039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.997578	.0234093	.0000780	.2353139	.1023809	.1195584	.5929953
Stddev	.016632	.0001216	.0024164	.0000474	.0009789	.0002551	.0090750
%RSD	.3328001	.5194513	3096.745	.0201392	.9561144	.2133506	1.530366

#1	4.985818	.0233233	-.001631	.2353474	.1016887	.1197387	.5994123
#2	5.009339	.0234953	.001787	.2352804	.1030731	.1193780	.5865783

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.475559	.2308005	4.801709	.2449355	.4648270	4.877405	.2321624
Stddev	.003795	.0008352	.043904	.0000524	.0018224	.019346	.0006993
%RSD	.0847836	.3618487	.9143502	.0213816	.3920667	.3966548	.3012245

#1	4.472875	.2302100	4.770664	.2448985	.4635383	4.863725	.2326569
#2	4.478242	.2313910	4.832754	.2449726	.4661156	4.891085	.2316679

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-448202/2-a@2 Acquired: 9/4/2018 19:38:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0414168	.2151793	.0401152	1.811264	.4768720	.4849084	.4785541
Stddev	.0009381	.0039408	.0005878	.009221	.0029004	.0000855	.0002332
%RSD	2.265083	1.831423	1.465365	.5091174	.6082044	.0176269	.0487356

#1	.0407535	.2123927	.0396996	1.804743	.4748211	.4849688	.4783892
#2	.0420802	.2179659	.0405309	1.817784	.4789228	.4848479	.4787190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0431778	.2318295	.2325146
Stddev	.0006424	.0002367	.0006073
%RSD	1.487811	.1021041	.2612018

#1	.0427235	.2319969	.2320852
#2	.0436320	.2316622	.2329441

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1968.336	1071.253	9798.261	4242.552
Stddev	2.603	2.960	2.356	1.098
%RSD	.1322239	.2763432	.0240440	.0258895

#1	1970.176	1073.346	9799.927	4241.776
#2	1966.496	1069.160	9796.596	4243.329

Sample Name: 500-150814-a-11-b Acquired: 9/4/2018 19:42:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025565	155.3565	.0936411	.1518648	.8559566	.0087578	.0026367
Stddev	.0001999	.5842	.0002472	.0008188	.0027224	.0000801	.0014758
%RSD	7.818555	.3760641	.2639418	.5391427	.3180565	.9145932	55.97077

#1	.0026979	154.9434	.0938159	.1524437	.8540315	.0088144	.0036802
#2	.0024152	155.7696	.0934663	.1512858	.8578816	.0087011	.0015932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	306.5682	.0041770	.5064121	.1015248	.1996548	.2565654	225.4195
Stddev	.2318	.0000945	.0154790	.0006395	.0007057	.0009122	.3650
%RSD	.0756261	2.262818	3.056604	.6298973	.3534606	.3555303	.1619003

#1	306.4043	.0041101	.4954668	.1010726	.1991558	.2572104	225.1615
#2	306.7322	.0042438	.5173574	.1019770	.2001538	.2559204	225.6776

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.35370	.1737512	189.5704	4.534235	.0259627	2.882788	.2610657
Stddev	.00873	.0002913	.2723	.017676	.0001028	.000256	.0011188
%RSD	.0409009	.1676522	.1436502	.3898415	.3961231	.0088975	.4285494

#1	21.34752	.1735452	189.3779	4.521736	.0258900	2.882970	.2602746
#2	21.35987	.1739572	189.7630	4.546734	.0260354	2.882607	.2618568

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150814-a-11-b Acquired: 9/4/2018 19:42:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2541927	.0140653	.0048568	3.605723	.0286125	.2744775	1.947166
Stddev	.0043047	.0025008	.0016222	.007375	.0000025	.0002390	.000042
%RSD	1.693494	17.77963	33.40122	.2045274	.0086235	.0870659	.0021583

#1	.2511488	.0158336	.0060039	3.610938	.0286142	.2746465	1.947196
#2	.2572366	.0122970	.0037097	3.600509	.0286108	.2743085	1.947136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000143	.3124675	1.087618
Stddev	.001568	.0001270	.006330
%RSD	1093.807	.0406363	.5819832

#1	.000965	.3123777	1.083142
#2	-.001252	.3125573	1.092094

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1624.920	1093.349	10057.74	4573.491
Stddev	.139	4.426	36.33	11.592
%RSD	.0085687	.4047663	.3611953	.2534623

#1	1624.821	1090.220	10032.06	4565.294
#2	1625.018	1096.478	10083.43	4581.688

Sample Name: CCV Acquired: 9/4/2018 19:46:43 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4768801	52.21262	.5014931	.4844499	.4716309	.5072161
Stddev	.0002909	.43402	.0020039	.0008146	.0026476	.0035275
%RSD	.0610023	.8312516	.3995799	.1681467	.5613675	.6954692

#1	.4770858	51.90572	.5029101	.4838739	.4697587	.5047218
#2	.4766744	52.51951	.5000762	.4850259	.4735030	.5097105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5044197	27.17278	.5003896	F -.052744	.5035489	.4850376
Stddev	.0028648	.11223	.0005772	.002459	.0026643	.0005510
%RSD	.5679301	.4130353	.1153569	4.663076	.5291144	.1135985

#1	.5023941	27.09342	.4999814	-.054483	.5016650	.4846480
#2	.5064454	27.25214	.5007978	-.051005	.5054329	.4854272

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4930652	26.80289	48.02184	3.750354	25.72551	4.983951
Stddev	.0000373	.18569	.10092	.019923	.13238	.027596
%RSD	.0075587	.6927983	.2101468	.5312241	.5145974	.5536928

#1	.4930388	26.67159	47.95048	3.736266	25.63190	4.964438
#2	.4930915	26.93420	48.09320	3.764441	25.81912	5.003464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 19:46:43 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4816593	23.22413	.4930989	.4947839	.4593139	.4812376
Stddev	.0011647	.08743	.0040137	.0012829	.0046831	.0017678
%RSD	.2418018	.3764821	.8139663	.2592840	1.019581	.3673386

#1	.4808358	23.16230	.4902608	.4938767	.4560025	.4824876
#2	.4824829	23.28595	.4959370	.4956910	.4626253	.4799876

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4157374	.5133374	.5024855	.4983430	.4926021	4.810499
Stddev	.0021873	.0039999	.0005154	.0001335	.0038515	.002812
%RSD	.5261224	.7791931	.1025708	.0267989	.7818757	.0584508

#1	.4141908	.5105091	.5021211	.4984374	.4898786	4.808511
#2	.4172841	.5161658	.5028500	.4982486	.4953255	4.812488

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5074918
Stddev	.0030638
%RSD	.6037079

#1	.5053254
#2	.5096582

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 19:46:43 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.573	1060.123	9609.168	4240.932
Stddev	7.472	1.487	11.595	5.851
%RSD	.3990360	.1402284	.1206663	.1379693
#1	1877.857	1061.175	9617.367	4245.069
#2	1867.290	1059.072	9600.969	4236.795

Sample Name: CCB Acquired: 9/4/2018 19:50:36 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005432	-.044156	.0010486	.0002067	-.000278	.0003756
Stddev	.0002506	.000002	.0023893	.0002574	.000079	.0000395
%RSD	46.12700	.0046711	227.8502	124.4912	28.43329	10.51895

#1	.0007204	-.044155	-.000641	.0003887	-.000334	.0003477
#2	.0003660	-.044158	.002738	.0000247	-.000222	.0004035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001271	.0061481	.0001299	F .0072752	-.000238	.0002495
Stddev	.000257	.0017938	.0000352	.0059972	.000426	.0004790
%RSD	20.22672	29.17643	27.12376	82.43277	179.3760	192.0018

#1	-.001090	.0074166	.0001050	.0115158	-.000539	.0005881
#2	-.001453	.0048797	.0001548	.0030346	.000064	-.000089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001239	.0307313	.0357646	.0008521	.0157530	.0002536
Stddev	.000226	.0119171	.0129072	.0001878	.0039020	.0005032
%RSD	18.19905	38.77850	36.08940	22.03665	24.77003	198.4157

#1	-.001080	.0391580	.0266378	.0007193	.0185121	.0006094
#2	-.001399	.0223046	.0448914	.0009848	.0129938	-.000102

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/4/2018 19:50:36 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003243	.0149635	.0001696	-.001515	.0058902	-.002269
Stddev	.0002221	.0014884	.0006910	.000826	.0005765	.001062
%RSD	68.49876	9.946969	407.4905	54.52265	9.787842	46.81433

#1	.0001672	.0139110	.0006582	-.000931	.0062978	-.003020
#2	.0004814	.0160159	-.000319	-.002099	.0054825	-.001518

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033321	.0000080	.0000324	.0011525	-.000897	.0003978
Stddev	.0040161	.0008276	.0000090	.0000283	.000783	.0000690
%RSD	120.5283	10345.72	27.80524	2.456460	87.27595	17.33928

#1	.0004923	-.000577	.0000260	.0011725	-.000344	.0004466
#2	.0061719	.000593	.0000388	.0011324	-.001451	.0003491

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0001699
Stddev	.0000243
%RSD	14.28499

#1	.0001871
#2	.0001527

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/4/2018 19:50:36 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2082.764	1131.714	9877.948	4279.847
Stddev	111.884	67.045	3.462	3.785
%RSD	5.371885	5.924158	.0350502	.0884382
#1	2003.650	1084.307	9880.396	4277.170
#2	2161.878	1179.122	9875.500	4282.523

Sample Name: 500-150814-a-12-b Acquired: 9/4/2018 19:54:43 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025396	176.1803	.0507488	.1427099	1.040034	.0083808	.0027437
Stddev	.0003958	1.0087	.0020166	.0003614	.002134	.0002611	.0010522
%RSD	15.58643	.5725242	3.973625	.2532402	.2051883	3.115490	38.34907

#1	.0028195	175.4671	.0493228	.1424544	1.038525	.0081962	.0019997
#2	.0022597	176.8936	.0521747	.1429654	1.041543	.0085655	.0034877

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	60.83306	.0040590	.5027069	.1111880	.2343614	.2274011	201.9228
Stddev	.62179	.0003987	.0032946	.0003074	.0013031	.0010979	1.6629
%RSD	1.022124	9.823232	.6553778	.2764906	.5560298	.4827954	.8235509

#1	60.39339	.0043410	.5003773	.1114054	.2352828	.2281774	200.7469
#2	61.27273	.0037771	.5050366	.1109706	.2334399	.2266248	203.0987

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.14374	.2245253	67.59706	6.536869	.0175785	2.169182	.3101159
Stddev	.05828	.0006076	.59616	.046649	.0004500	.008506	.0017244
%RSD	.2317979	.2706268	.8819373	.7136218	2.559734	.3921105	.5560447

#1	25.10252	.2249550	67.17551	6.503883	.0172604	2.175197	.3088966
#2	25.18495	.2240957	68.01861	6.569854	.0178967	2.163168	.3113352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150814-a-12-b Acquired: 9/4/2018 19:54:43 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1640581	.0085997	.0059061	3.208921	.0278542	.2391138	1.950177
Stddev	.0005472	.0011369	.0020728	.023826	.0004453	.0003554	.001803
%RSD	.3335278	13.21970	35.09604	.7424928	1.598730	.1486222	.0924609

#1	.1644450	.0077958	.0073718	3.192073	.0281690	.2393651	1.951452
#2	.1636711	.0094036	.0044404	3.225768	.0275393	.2388625	1.948902

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0002698	.3105074	.6652020
Stddev	.0001406	.0010873	.0017095
%RSD	52.10123	.3501771	.2569931

#1	.0001704	.3112762	.6639932
#2	.0003692	.3097385	.6664108

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1737.594	1146.211	10402.02	4685.910
Stddev	8.511	4.691	34.10	.016
%RSD	.4898236	.4092724	.3278036	.0003381

#1	1731.575	1142.894	10377.91	4685.921
#2	1743.612	1149.528	10426.14	4685.899

Sample Name: 500-150814-a-13-b Acquired: 9/4/2018 19:58:39 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012559	66.17087	.0436427	.1595536	.3686564	.0041715
Stddev	.0004128	.37704	.0029715	.0007420	.0005330	.0001609
%RSD	32.87374	.5697992	6.808591	.4650628	.1445836	3.857446

#1	.0015478	65.90426	.0457438	.1600783	.3682795	.0042853
#2	.0009639	66.43748	.0415415	.1590289	.3690333	.0040577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003025	F 882.7303	.0033702	.2535230	.0511319	.1007401
Stddev	.002374	.3289	.0002592	.0038584	.0002173	.0002336
%RSD	78.49158	.0372647	7.690355	1.521910	.4249548	.2318658

#1	-.001346	882.4977	.0035535	.2562513	.0512856	.1009053
#2	-.004703	882.9629	.0031870	.2507947	.0509783	.1005750

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1480917	118.3259	14.66945	.0936916	543.7659	4.235282
Stddev	.0003657	1.1402	.02014	.0000821	2.7126	.015137
%RSD	.2469469	.9635867	.1372709	.0876390	.4988525	.3573928

#1	.1478331	117.5196	14.65521	.0936335	541.8478	4.224579
#2	.1483503	119.1321	14.68368	.0937496	545.6840	4.245985

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150814-a-13-b Acquired: 9/4/2018 19:58:39 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148490	1.729239	.1336304	.1846842	.0096411	.0066237
Stddev	.0006201	.000482	.0035462	.0016964	.0001079	.0027243
%RSD	4.176241	.0279010	2.653747	.9185442	1.118723	41.12936

#1	.0144105	1.728898	.1361379	.1834847	.0097174	.0085501
#2	.0152875	1.729580	.1311228	.1858838	.0095648	.0046973

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.345246	.0216772	.4222930	1.153531	-.005144	.1598110
Stddev	.017287	.0021113	.0001773	.000472	.001311	.0010698
%RSD	.5167507	9.739873	.0419821	.0409002	25.48246	.6694282

#1	3.357470	.0231701	.4221676	1.153198	-.006071	.1605674
#2	3.333023	.0201842	.4224184	1.153865	-.004217	.1590545

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4251038
Stddev	.0034391
%RSD	.8090120

#1	.4275357
#2	.4226720

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150814-a-13-b Acquired: 9/4/2018 19:58:39 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.073	986.8193	9097.350	4241.050
Stddev	9.811	4.1513	18.701	1.981
%RSD	.6682680	.4206772	.2055609	.0467019
#1	1461.136	983.8839	9084.127	4239.650
#2	1475.010	989.7548	9110.574	4242.451

Sample Name: 500-150814-a-14-b Acquired: 9/4/2018 20:02:39 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018487	153.1882	.1197761	.1606731	.6514771	.0082895	.0006442
Stddev	.0003577	.4350	.0025173	.0011401	.0005035	.0003122	.0021740
%RSD	19.34861	.2839535	2.101683	.7095519	.0772884	3.765841	337.4700

#1	.0015958	152.8806	.1215561	.1614793	.6518331	.0080688	-.000893
#2	.0021017	153.4958	.1179961	.1598670	.6511210	.0085103	.002181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	311.4120	.0034066	.4938050	.0942309	.2128752	.2975651	271.0724
Stddev	1.4438	.0000959	.0073827	.0002383	.0023015	.0001063	1.2822
%RSD	.4636389	2.815294	1.495064	.2528688	1.081173	.0357377	.4730028

#1	310.3910	.0033387	.4990253	.0940624	.2112478	.2974899	270.1658
#2	312.4329	.0034744	.4885846	.0943994	.2145027	.2976403	271.9790

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.98742	.1844837	215.7050	3.721768	.0424471	1.782132	.2951488
Stddev	.08419	.0003063	.7992	.012502	.0002937	.005841	.0028053
%RSD	.3369338	.1660422	.3705256	.3359088	.6919811	.3277382	.9504582

#1	25.04695	.1842671	215.1399	3.712928	.0426548	1.778002	.2931651
#2	24.92789	.1847003	216.2702	3.730608	.0422394	1.786262	.2971324

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150814-a-14-b Acquired: 9/4/2018 20:02:39 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1577576	.0094221	.0054507	3.759897	.0269648	.2707505	1.681091
Stddev	.0003924	.0017897	.0003630	.003651	.0001881	.0000229	.000173
%RSD	.2487251	18.99453	6.660141	.0970966	.6974535	.0084417	.0102881

#1	.1574802	.0106876	.0057074	3.757315	.0270978	.2707667	1.681213
#2	.1580351	.0081566	.0051940	3.762478	.0268318	.2707343	1.680969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0003261	.3293919	.7655424
Stddev	.0007141	.0001216	.0019364
%RSD	218.9939	.0369028	.2529447

#1	.0008310	.3294778	.7641731
#2	-.000179	.3293059	.7669116

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1613.863	1098.497	10091.81	4588.504
Stddev	3.467	4.676	31.26	14.571
%RSD	.2148000	.4256842	.3097526	.3175500

#1	1611.412	1095.191	10069.71	4578.200
#2	1616.314	1101.804	10113.92	4598.807

Sample Name: 500-150814-a-15-b Acquired: 9/4/2018 20:06:34 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027384	117.4855	.0975410	.2079362	.3748878	.0068814	-.001117
Stddev	.0002414	.3683	.0027405	.0011201	.0002082	.0005128	.003076
%RSD	8.813493	.3134895	2.809590	.5386712	.0555284	7.452322	275.3715

#1	.0025677	117.2251	.0956032	.2087283	.3747406	.0065188	-.003292
#2	.0029090	117.7460	.0994789	.2071442	.3750350	.0072440	.001058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	360.7981	.0083307	.4423877	.1201429	.1734771	.5333990	204.9432
Stddev	1.3478	.0001516	.0037964	.0005943	.0004148	.0003822	.5605
%RSD	.3735574	1.819561	.8581544	.4946407	.2391027	.0716594	.2735014

#1	359.8451	.0082235	.4397032	.1197227	.1737704	.5331287	204.5469
#2	361.7512	.0084379	.4450721	.1205631	.1731838	.5336693	205.3396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.65831	.2091990	201.0937	2.688999	.0527138	1.309716	.3678438
Stddev	.05406	.0000816	.8391	.007805	.0003234	.001010	.0006743
%RSD	.1606244	.0389817	.4172720	.2902471	.6134641	.0771543	.1832972

#1	33.69654	.2092567	200.5004	2.683480	.0529424	1.310430	.3673671
#2	33.62008	.2091414	201.6871	2.694518	.0524851	1.309001	.3683206

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150814-a-15-b Acquired: 9/4/2018 20:06:34 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2057551	.0065965	.0070436	3.401548	.0229607	.3878915	1.347019
Stddev	.0081127	.0005481	.0019628	.001481	.0007857	.0000415	.000853
%RSD	3.942883	8.309159	27.86699	.0435450	3.421895	.0107032	.0633064

#1	.2000186	.0069841	.0056556	3.402595	.0235162	.3878622	1.346416
#2	.2114917	.0062089	.0084315	3.400500	.0224051	.3879209	1.347622

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0041043	.2316967	.8904714
Stddev	.0034156	.0001453	.0061337
%RSD	83.22011	.0627217	.6888094

#1	.0016891	.2315939	.8861342
#2	.0065194	.2317995	.8948085

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1612.346	1044.992	9666.091	4445.524
Stddev	4.470	6.212	11.299	10.398
%RSD	.2772221	.5944537	.1168914	.2338929

#1	1609.185	1040.599	9658.102	4438.172
#2	1615.506	1049.384	9674.081	4452.876

Sample Name: 500-150867-a-4-b Acquired: 9/4/2018 20:10:28 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013521	31.31444	.0129621	.0344113	.3647662	.0014810	.0011011
Stddev	.0011349	.10091	.0005339	.0003215	.0003191	.0000945	.0029995
%RSD	83.93355	.3222478	4.118722	.9343409	.0874921	6.383587	272.4223

#1	.0021546	31.24308	.0133396	.0346386	.3645406	.0014141	-.001020
#2	.0005496	31.38579	.0125846	.0341839	.3649919	.0015478	.003222

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	522.4247	.0037964	.1560866	.0226837	.0757691	.0789330	48.83904
Stddev	5.0965	.0001404	.0107570	.0006980	.0005109	.0001667	.33171
%RSD	.9755497	3.699393	6.891690	3.076860	.6742700	.2111260	.6791885

#1	518.8209	.0036970	.1484802	.0231772	.0761303	.0788151	48.60448
#2	526.0285	.0038957	.1636929	.0221902	.0754078	.0790508	49.07359

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.902883	.0260723	241.5057	1.544755	.0010560	1.331807	.0538167
Stddev	.002096	.0008133	.6339	.011151	.0001671	.002497	.0006465
%RSD	.0537016	3.119499	.2624703	.7218868	15.82386	.1874738	1.201302

#1	3.904365	.0266474	241.0575	1.536870	.0011741	1.330041	.0542738
#2	3.901401	.0254972	241.9539	1.552640	.0009378	1.333572	.0533595

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150867-a-4-b Acquired: 9/4/2018 20:10:28 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5429443	.0140243	.0044619	3.957907	.0702303	.2262443	1.483210
Stddev	.0065213	.0010236	.0013687	.052715	.0013905	.0002453	.003947
%RSD	1.201097	7.298781	30.67500	1.331897	1.979969	.1084064	.2660818

#1	.5475555	.0133005	.0034941	3.995182	.0692471	.2264178	1.486001
#2	.5383330	.0147481	.0054297	3.920632	.0712136	.2260709	1.480420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.005028	.1021726	.4381547
Stddev	.000583	.0000663	.0026175
%RSD	11.60384	.0648774	.5974005

#1	-.004616	.1022194	.4400055
#2	-.005441	.1021257	.4363038

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1610.197	978.1357	8967.401	4103.092
Stddev	14.463	10.4554	17.184	7.081
%RSD	.8981830	1.068913	.1916255	.1725786

#1	1599.971	970.7426	8955.251	4098.084
#2	1620.424	985.5289	8979.552	4108.099

Sample Name: 500-150873-a-1-b Acquired: 9/4/2018 20:14:29 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0019920	149.9243	.0543978	.0324854	.8157287	.0058400	.0009333
Stddev	.0003534	.3507	.0004441	.0007508	.0029444	.0001238	.0003061
%RSD	17.74249	.2338942	.8163875	2.311332	.3609503	2.120086	32.79819
#1	.0022419	149.6763	.0540838	.0319545	.8136467	.0057525	.0011498
#2	.0017421	150.1723	.0547119	.0330163	.8178107	.0059276	.0007169

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	14.20050	.0018860	.6461499	.1249208	.1559696	.1067156	167.8448
Stddev	.01799	.0000875	.0146619	.0001388	.0008171	.0003191	.4075
%RSD	.1266509	4.639991	2.269116	.1110764	.5239075	.2990024	.2428058
#1	14.21321	.0018241	.6357824	.1250189	.1553918	.1069413	167.5566
#2	14.18778	.0019478	.6565174	.1248227	.1565474	.1064900	168.1329

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	9.914268	.1026168	17.04012	11.54965	.0113851	.3894819	.1212455
Stddev	.018962	.0009631	.00070	.00366	.0005713	.0035399	.0006908
%RSD	.1912553	.9385825	.0040917	.0316897	5.018314	.9088684	.5697765
#1	9.900860	.1032978	17.03962	11.54706	.0109811	.3869788	.1207570
#2	9.927676	.1019357	17.04061	11.55224	.0117891	.3919849	.1217339

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150873-a-1-b Acquired: 9/4/2018 20:14:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1431835	.0048047	.0068545	2.812090	.0255461	.1010098	1.916588
Stddev	.0004385	.0019690	.0017434	.020112	.0003201	.0000681	.001144
%RSD	.3062482	40.98072	25.43411	.7151818	1.253122	.0674267	.0597062

#1	.1434935	.0034124	.0080872	2.797869	.0253197	.1010579	1.917398
#2	.1428734	.0061971	.0056217	2.826311	.0257724	.1009616	1.915779

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004059	.2921138	.4063417
Stddev	.001545	.0006617	.0033163
%RSD	38.05109	.2265313	.8161460

#1	-.002967	.2925817	.4039966
#2	-.005151	.2916458	.4086867

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.420	1178.802	10583.21	4685.733
Stddev	2.360	2.393	23.39	25.284
%RSD	.1278756	.2029762	.2210467	.5396038

#1	1843.752	1177.110	10566.67	4667.854
#2	1847.089	1180.494	10599.75	4703.611

Sample Name: 500-150761-e-1-a Acquired: 9/4/2018 20:18:25 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026789	173.9151	.1268566	.2797179	1.224274	.0106478
Stddev	.0006391	.9375	.0097205	.0229571	.001658	.0001723
%RSD	23.85546	.5390449	7.662613	8.207214	.1354629	1.618590

#1	.0022270	173.2522	.1337301	.2959510	1.223102	.0107696
#2	.0031308	174.5780	.1199832	.2634848	1.225447	.0105259

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040863	F 796.5060	.0044907	.5701455	.1907725	.2743197
Stddev	.0001531	9.6601	.0002576	.0146037	.0166806	.0010123
%RSD	3.745993	1.212815	5.736031	2.561393	8.743722	.3690209

#1	.0039780	789.6752	.0046729	.5598191	.2025675	.2736039
#2	.0041945	803.3367	.0043086	.5804718	.1789775	.2750356

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6272143	309.4445	43.81008	.3221226	425.7373	7.532519
Stddev	.0015537	1.7646	.02634	.0002168	2.0358	.024738
%RSD	.2477168	.5702481	.0601255	.0672884	.4781801	.3284170

#1	.6261156	308.1968	43.82870	.3222759	424.2978	7.515027
#2	.6283129	310.6923	43.79145	.3219693	427.1768	7.550012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150761-e-1-a Acquired: 9/4/2018 20:18:25 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0661056	3.844745	.4339990	1.221729	.0100566	.0056740
Stddev	.0042870	.006213	.0389173	.101281	.0061012	.0022029
%RSD	6.485147	.1615892	8.967142	8.289983	60.66887	38.82465

#1	.0691370	3.849138	.4615177	1.293345	.0143708	.0072316
#2	.0630742	3.840352	.4064803	1.150112	.0057424	.0041163

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.478593	.0772139	.7576948	2.187330	.0030019	.3548273
Stddev	.311438	.0040311	.0018468	.002978	.0007800	.0008791
%RSD	8.952974	5.220738	.2437438	.1361492	25.98230	.2477395

#1	3.698813	.0800644	.7590008	2.189436	.0035534	.3542058
#2	3.258374	.0743635	.7563889	2.185224	.0024504	.3554489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.281991
Stddev	.102625
%RSD	8.005135

#1	1.354558
#2	1.209424

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-1-a Acquired: 9/4/2018 20:18:25 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1554.864	1128.635	9874.913	4584.030
Stddev	110.745	70.123	24.461	3.694
%RSD	7.122477	6.213053	.2477054	.0805900
#1	1476.555	1079.051	9857.616	4586.642
#2	1633.172	1178.219	9892.209	4581.418

Sample Name: 500-150761-e-2-a Acquired: 9/4/2018 20:22:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041967	198.8804	.1115346	.3364878	1.508727	.0116735
Stddev	.0000200	1.1496	.0041402	.0006227	.003114	.0001452
%RSD	.4763995	.5780198	3.712017	.1850548	.2063686	1.243674

#1	.0041826	198.0675	.1144622	.3360475	1.506525	.0115708
#2	.0042108	199.6932	.1086071	.3369281	1.510929	.0117761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044705	F 699.7353	.0052663	.6432090	.1878661	.2769310
Stddev	.0033440	7.7918	.0004157	.0153702	.0001676	.0009483
%RSD	74.80203	1.113536	7.893064	2.389607	.0891914	.3424318

#1	.0021059	694.2256	.0049723	.6323407	.1877476	.2762604
#2	.0068350	705.2449	.0055602	.6540774	.1879846	.2776015

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6471517	312.3918	51.93490	.3462066	382.8260	4.900639
Stddev	.0010515	1.2096	.18339	.0014479	1.6202	.007976
%RSD	.1624793	.3871970	.3531211	.4182275	.4232338	.1627565

#1	.6478952	311.5365	51.80522	.3451828	381.6803	4.894999
#2	.6464082	313.2471	52.06458	.3472305	383.9717	4.906279

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150761-e-2-a Acquired: 9/4/2018 20:22:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0737664	4.326555	.5040104	1.404118	.0089368	.0081939
Stddev	.0006762	.013365	.0024074	.006918	.0033716	.0042319
%RSD	.9166875	.3089040	.4776400	.4927232	37.72709	51.64770

#1	.0732882	4.317105	.5023081	1.399226	.0065527	.0111863
#2	.0742445	4.336006	.5057127	1.409010	.0113208	.0052014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.919811	.0861857	.6978116	2.121949	.0012473	.3619860
Stddev	.006724	.0003605	.0006311	.003894	.0023649	.0003442
%RSD	.2302721	.4182739	.0904406	.1835295	189.6086	.0950955

#1	2.915057	.0859308	.6982578	2.119196	.0029195	.3622294
#2	2.924566	.0864406	.6973653	2.124703	-.000425	.3617426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.630904
Stddev	.007575
%RSD	.4644897

#1	1.625548
#2	1.636261

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-2-a Acquired: 9/4/2018 20:22:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1493.250	1066.068	9867.558	4566.988
Stddev	1.653	1.720	21.671	3.011
%RSD	.1106956	.1613479	.2196215	.0659330
#1	1494.418	1064.852	9852.234	4569.117
#2	1492.081	1067.285	9882.881	4564.859

Sample Name: 500-150761-e-3-a Acquired: 9/4/2018 20:26:27 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022965	215.2957	.1362624	.3547049	.5436336	.0130050	.0021102
Stddev	.0004926	1.0541	.0020541	.0007996	.0031599	.0005406	.0033586
%RSD	21.45202	.4895868	1.507420	.2254173	.5812494	4.157075	159.1552

#1	.0019482	214.5503	.1377148	.3552703	.5413992	.0126227	-.000265
#2	.0026449	216.0410	.1348099	.3541395	.5458680	.0133873	.004485

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	564.3247	.0034223	.6974366	.2601540	.3379709	.6594551	358.0358
Stddev	5.6052	.0000581	.0147671	.0013532	.0022917	.0016636	.7867
%RSD	.9932570	1.698036	2.117342	.5201404	.6780669	.2522738	.2197297

#1	560.3613	.0033813	.6869947	.2591972	.3363505	.6582788	357.4795
#2	568.2882	.0034634	.7078786	.2611108	.3395914	.6606315	358.5921

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	61.65785	.4526321	348.7328	4.911532	.1267890	2.906541	.6743619
Stddev	.18819	.0025281	.5329	.013169	.0004638	.002493	.0021734
%RSD	.3052191	.5585214	.1528200	.2681155	.3657705	.0857580	.3222967

#1	61.52478	.4508445	348.3560	4.902220	.1271170	2.904779	.6728251
#2	61.79092	.4544197	349.1097	4.920844	.1264611	2.908304	.6758988

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150761-e-3-a Acquired: 9/4/2018 20:26:27 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3012827	.0065833	.0121909	3.614128	.0358202	.6002306	1.470163
Stddev	.0050706	.0026798	.0017389	.020304	.0002608	.0004130	.000896
%RSD	1.683011	40.70618	14.26412	.5617899	.7279993	.0688112	.0609619

#1	.2976972	.0046884	.0109613	3.599771	.0360046	.5999385	1.470797
#2	.3048682	.0084783	.0134205	3.628485	.0356358	.6005226	1.469529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0098041	.3926716	.8386796
Stddev	.0010217	.0004230	.0036706
%RSD	10.42141	.1077239	.4376620

#1	.0090816	.3929708	.8360841
#2	.0105265	.3923725	.8412751

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1520.781	1099.703	10119.95	4672.646
Stddev	1.910	3.622	3.65	18.317
%RSD	.1255939	.3293829	.0360271	.3920024

#1	1522.132	1097.142	10122.53	4659.695
#2	1519.431	1102.264	10117.37	4685.599

Sample Name: 500-150761-e-4-a Acquired: 9/4/2018 20:30:25 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031459	168.1777	.1526660	.3083111	.7330073	.0106545
Stddev	.0005220	.8651	.0202590	.0397703	.0008186	.0001395
%RSD	16.59238	.5143720	13.27013	12.89941	.1116716	1.309105

#1	.0035150	167.5660	.1669913	.3364330	.7324285	.0105559
#2	.0027768	168.7894	.1383408	.2801892	.7335861	.0107532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009009	F 878.1723	.0037177	.5181495	.2066312	.2673722
Stddev	.0002204	8.8971	.0006603	.0081358	.0268043	.0009999
%RSD	24.47049	1.013138	17.76041	1.570168	12.97204	.3739640

#1	.0010568	871.8811	.0041846	.5123966	.2255847	.2666652
#2	.0007450	884.4635	.0032508	.5239024	.1876777	.2680793

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5844096	321.8486	47.46178	.3118567	476.4604	4.493924
Stddev	.0013180	2.6595	.04007	.0004539	1.8947	.021696
%RSD	.2255182	.8263148	.0844161	.1455603	.3976571	.4827961

#1	.5834776	319.9681	47.49011	.3115357	475.1206	4.478583
#2	.5853415	323.7291	47.43345	.3121777	477.8001	4.509266

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150761-e-4-a Acquired: 9/4/2018 20:30:25 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1858446	7.261868	.4614836	.8368637	.0079199	.0050734
Stddev	.0204625	.010785	.0638532	.1070745	.0012952	.0015520
%RSD	11.01054	.1485174	13.83650	12.79473	16.35356	30.59081

#1	.2003138	7.254241	.5066346	.9125768	.0088357	.0061709
#2	.1713755	7.269494	.4163325	.7611506	.0070040	.0039760

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.738653	.0432207	.7628209	1.940882	.0153869	.3443030
Stddev	.373882	.0046451	.0009281	.003361	.0014996	.0019928
%RSD	13.65203	10.74741	.1216681	.1731523	9.746336	.5787917

#1	3.003028	.0465053	.7621646	1.938506	.0164473	.3428938
#2	2.474279	.0399361	.7634771	1.943258	.0143264	.3457121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9446029
Stddev	.1095398
%RSD	11.59638

#1	1.022059
#2	.867147

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-4-a Acquired: 9/4/2018 20:30:25 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1572.866	1131.700	9716.268	4544.008
Stddev	166.185	113.752	13.867	1.847
%RSD	10.56575	10.05145	.1427177	.0406406
#1	1455.355	1051.266	9726.074	4542.702
#2	1690.376	1212.136	9706.463	4545.314

Sample Name: CCV Acquired: 9/4/2018 20:34:30 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4797462	51.91558	.5013544	.4805521	.4681558	.5012925
Stddev	.0006297	.08618	.0004466	.0037146	.0012494	.0010883
%RSD	.1312495	.1660049	.0890746	.7729849	.2668765	.2170982

#1	.4793010	51.85464	.5010386	.4779255	.4672724	.5020620
#2	.4801914	51.97652	.5016702	.4831787	.4690393	.5005230

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5058907	27.11686	.4996635	F -.050450	.5035655	.4899860
Stddev	.0004635	.00308	.0024431	.005483	.0010891	.0013211
%RSD	.0916250	.0113675	.4889470	10.86885	.2162727	.2696091

#1	.5055630	27.11468	.4979360	-.054327	.5027954	.4890519
#2	.5062185	27.11904	.5013910	-.046573	.5043356	.4909202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4898789	26.65385	47.29881	3.695806	25.56144	4.949031
Stddev	.0010729	.08071	.05641	.009927	.01751	.004721
%RSD	.2190077	.3027955	.1192681	.2686111	.0684907	.0953982

#1	.4891203	26.71092	47.25892	3.688786	25.57382	4.945693
#2	.4906375	26.59678	47.33870	3.702825	25.54906	4.952370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 20:34:30 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4810223	22.82816	.4930061	.4973655	.4559615	.4779410
Stddev	.0030372	.03925	.0012992	.0001195	.0076236	.0058291
%RSD	.6314000	.1719330	.2635154	.0240244	1.671978	1.219622

#1	.4788747	22.80040	.4920874	.4972810	.4505709	.4738192
#2	.4831699	22.85591	.4939247	.4974500	.4613522	.4820628

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4176610	.5147863	.5011974	.4985550	.4930975	4.819699
Stddev	.0007782	.0011062	.0001792	.0015124	.0021606	.000207
%RSD	.1863333	.2148889	.0357615	.3033643	.4381700	.0042913

#1	.4171107	.5155685	.5010707	.4996244	.4915698	4.819845
#2	.4182113	.5140041	.5013242	.4974855	.4946253	4.819553

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5107952
Stddev	.0014211
%RSD	.2782237

#1	.5118001
#2	.5097903

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 20:34:30 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1881.904	1071.034	9669.104	4280.996
Stddev	4.045	5.233	15.357	11.220
%RSD	.2149385	.4885999	.1588251	.2620936
#1	1884.764	1074.734	9679.963	4273.062
#2	1879.044	1067.333	9658.245	4288.930

Sample Name: CCB Acquired: 9/4/2018 20:38:23 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010319	-.044289	.0008387	-.000266	-.000239	.0001544
Stddev	.0000301	.001103	.0002155	.000599	.000006	.0003600
%RSD	2.919567	2.490196	25.69739	225.0503	2.503430	233.1836

#1	.0010532	-.045069	.0006863	.000158	-.000243	-.000100
#2	.0010106	-.043509	.0009911	-.000690	-.000235	.000409

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006170	.0082979	.0003384	F -.005875	.0001226	-.000027
Stddev	.0003092	.0028570	.0002452	.005447	.0001150	.000463
%RSD	50.11606	34.43038	72.45393	92.71996	93.77762	1690.202

#1	.0003983	.0062777	.0005117	-.002023	.0000413	-.000355
#2	.0008356	.0103182	.0001650	-.009726	.0002039	.000300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000723	.0444626	.0216122	.0012470	.0221996	-.000286
Stddev	.000104	.0119882	.0069593	.0001958	.0101605	.000217
%RSD	14.37771	26.96232	32.20067	15.69863	45.76860	75.81534

#1	-.000796	.0359857	.0265332	.0011086	.0293841	-.000440
#2	-.000649	.0529396	.0166913	.0013855	.0150151	-.000133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/4/2018 20:38:23 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004323	-.003005	-.000375	-.000273	.0041418	-.002903
Stddev	.0001819	.000493	.001253	.000326	.0007216	.002142
%RSD	42.08407	16.40661	334.3473	119.5751	17.42181	73.78798

#1	.0003037	-.003353	.000511	-.000042	.0036316	-.001388
#2	.0005610	-.002656	-.001261	-.000503	.0046521	-.004417

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032585	.0014328	.0000213	.0013375	.0011218	.0001223
Stddev	.0031154	.0007885	.0000052	.0000530	.0011433	.0000890
%RSD	95.60935	55.03129	24.41844	3.964782	101.9137	72.80644

#1	.0010555	.0019904	.0000249	.0013000	.0019302	.0001853
#2	.0054614	.0008753	.0000176	.0013750	.0003134	.0000593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0003548
Stddev	.0003760
%RSD	105.9821

#1	.0000889
#2	.0006207

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/4/2018 20:38:23 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2063.861	1123.430	9904.388	4291.432
Stddev	71.177	42.888	3.418	2.408
%RSD	3.448745	3.817633	.0345078	.0561113
#1	2013.531	1093.104	9906.804	4293.135
#2	2114.191	1153.757	9901.971	4289.730

Sample Name: 500-150761-e-5-a Acquired: 9/4/2018 20:42:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027412	212.1313	.1197314	.3644887	.6743637	.0126382
Stddev	.0005761	1.1228	.0125748	.0452431	.0006791	.0001709
%RSD	21.01851	.5292927	10.50249	12.41277	.1007050	1.351818

#1	.0023338	211.3374	.1286231	.3964804	.6748439	.0125174
#2	.0031486	212.9253	.1108397	.3324970	.6738835	.0127590

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031083	F 743.9788	.0029014	.6800823	.2136073	.3109265
Stddev	.0018555	3.7650	.0004936	.0009841	.0286117	.0008281
%RSD	59.69374	.5060625	17.01151	.1447017	13.39453	.2663457

#1	.0044204	741.3165	.0032504	.6793865	.2338388	.3115121
#2	.0017963	746.6410	.0025524	.6807782	.1933758	.3103409

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5641528	334.0996	62.62198	.4463418	416.5539	4.818315
Stddev	.0022922	3.0935	.11005	.0027011	2.5542	.042097
%RSD	.4063085	.9259253	.1757298	.6051519	.6131743	.8736820

#1	.5657736	331.9122	62.69979	.4482517	414.7478	4.788549
#2	.5625320	336.2870	62.54416	.4444318	418.3600	4.848082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150761-e-5-a Acquired: 9/4/2018 20:42:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0995793	13.06587	.5555095	.4126386	.0067490	.0083243
Stddev	.0111697	.03476	.0745241	.0541163	.0005374	.0024628
%RSD	11.21689	.2660646	13.41545	13.11470	7.963157	29.58527

#1	.1074774	13.09046	.6082060	.4509046	.0071291	.0100657
#2	.0916811	13.04129	.5028130	.3743726	.0063690	.0065829

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.899181	.0354352	.7658538	1.915707	.0065905	.3967735
Stddev	.370384	.0048789	.0021082	.002006	.0057890	.0008302
%RSD	12.77547	13.76845	.2752687	.1047383	87.83766	.2092477

#1	3.161082	.0388851	.7673445	1.917126	.0024971	.3961865
#2	2.637280	.0319853	.7643631	1.914289	.0106839	.3973606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.8163202
Stddev	.0953885
%RSD	11.68518

#1	.8837700
#2	.7488704

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-5-a Acquired: 9/4/2018 20:42:29 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1571.997	1138.189	9804.920	4580.516
Stddev	163.722	109.759	30.655	11.155
%RSD	10.41488	9.643340	.3126502	.2435388
#1	1456.229	1060.578	9783.244	4588.404
#2	1687.766	1215.801	9826.597	4572.628

Sample Name: 500-150761-e-6-a Acquired: 9/4/2018 20:46:35 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031061	143.8057	.1069367	.2033626	.7483329	.0084072
Stddev	.0005580	.6880	.0032325	.0003440	.0009710	.0001155
%RSD	17.96351	.4784572	3.022844	.1691625	.1297528	1.374208

#1	.0035006	143.3192	.1092224	.2036059	.7476463	.0084889
#2	.0027116	144.2922	.1046509	.2031194	.7490195	.0083255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066696	F 695.0132	.0052746	.5532594	.1462692	.2229454
Stddev	.0029693	11.2281	.0000403	.0035687	.0014840	.0000217
%RSD	44.52059	1.615520	.7647077	.6450335	1.014563	.0097138

#1	.0087692	687.0737	.0053032	.5507359	.1473186	.2229607
#2	.0045699	702.9526	.0052461	.5557829	.1452199	.2229301

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4393691	238.1733	31.12984	.2111361	382.7976	4.976036
Stddev	.0004559	.8578	.02309	.0010841	1.0078	.015887
%RSD	.1037712	.3601566	.0741779	.5134783	.2632734	.3192631

#1	.4396915	237.5667	31.14617	.2119027	382.0849	4.964803
#2	.4390467	238.7798	31.11351	.2103695	383.5102	4.987270

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150761-e-6-a Acquired: 9/4/2018 20:46:35 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0597564	2.425822	.3447898	1.314995	.0086044	.0037972
Stddev	.0001011	.000291	.0038378	.001649	.0012897	.0008636
%RSD	.1691700	.0119947	1.113094	.1254046	14.98912	22.74238

#1	.0596850	2.426028	.3475036	1.316161	.0095164	.0031865
#2	.0598279	2.425616	.3420761	1.313829	.0076925	.0044078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.096712	.0521859	.4754721	2.129013	.0013931	.3265689
Stddev	.011736	.0013766	.0002055	.000211	.0026241	.0001230
%RSD	.3789876	2.637839	.0432163	.0099170	188.3630	.0376771

#1	3.105011	.0512125	.4756174	2.128864	-.000462	.3266559
#2	3.088414	.0531592	.4753268	2.129163	.003249	.3264819

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.221986
Stddev	.010078
%RSD	.8246997

#1	1.229112
#2	1.214860

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-6-a Acquired: 9/4/2018 20:46:35 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1505.960	1068.427	9783.952	4538.939
Stddev	10.175	2.600	11.724	5.261
%RSD	.6756364	.2433923	.1198289	.1159157
#1	1498.766	1066.588	9775.662	4535.218
#2	1513.155	1070.266	9792.242	4542.659

Sample Name: 500-150761-e-7-a Acquired: 9/4/2018 20:50:36 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0036266	188.6742	.1134053	.2132489	1.051411	.0098422	.0061245
Stddev	.0004963	.9720	.0011711	.0011730	.003862	.0001406	.0037508
%RSD	13.68539	.5151831	1.032689	.5500486	.3673477	1.428067	61.24295

#1	.0032756	187.9869	.1142334	.2140784	1.048679	.0099416	.0087767
#2	.0039775	189.3615	.1125772	.2124195	1.054142	.0097428	.0034722

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	507.0743	.0061441	.6789317	.1524604	.2707148	.5075707	273.7999
Stddev	2.4311	.0000735	.0147199	.0005230	.0000640	.0001472	.8225
%RSD	.4794370	1.195925	2.168097	.3430718	.0236307	.0289966	.3004169

#1	505.3552	.0060921	.6685232	.1528302	.2706695	.5074666	273.2183
#2	508.7933	.0061960	.6893403	.1520905	.2707600	.5076747	274.3815

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	34.83855	.2407561	288.9121	4.873583	.0551714	2.547538	.3761146
Stddev	.10747	.0009332	1.4953	.018734	.0000085	.005373	.0027292
%RSD	.3084698	.3876063	.5175700	.3843899	.0154963	.2109092	.7256233

#1	34.76256	.2400962	287.8548	4.860336	.0551654	2.543739	.3780444
#2	34.91454	.2414159	289.9695	4.886829	.0551775	2.551338	.3741848

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150761-e-7-a Acquired: 9/4/2018 20:50:36 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017798	.0107409	.0086752	2.832542	.0516183	.4580498	2.346318
Stddev	.000535	.0005647	.0028579	.021016	.0010075	.0000345	.002329
%RSD	.0525864	5.257311	32.94347	.7419499	1.951910	.0075346	.0992607

#1	1.018176	.0103416	.0106960	2.847403	.0509058	.4580254	2.347965
#2	1.017419	.0111402	.0066543	2.817682	.0523307	.4580742	2.344671

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0028578	.3988199	1.435899
Stddev	.0037412	.0004509	.001463
%RSD	130.9106	.1130495	.1018711

#1	.0002124	.3985012	1.436933
#2	.0055033	.3991388	1.434865

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1551.090	1110.418	10140.38	4688.787
Stddev	9.357	7.855	3.97	.597
%RSD	.6032700	.7073875	.0391195	.0127367

#1	1544.473	1104.864	10137.57	4688.365
#2	1557.706	1115.972	10143.18	4689.210

Sample Name: 500-150761-e-8-a Acquired: 9/4/2018 20:54:36 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031756	93.46352	.0611578	.2401100	.7975858	.0058677
Stddev	.0003223	.30466	.0085629	.0417964	.0003454	.0003966
%RSD	10.14823	.3259643	14.00142	17.40721	.0433104	6.758905

#1	.0034034	93.24810	.0672127	.2696645	.7978300	.0055872
#2	.0029477	93.67895	.0551028	.2105554	.7973415	.0061481

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095421	F 1601.179	.0046757	.4079008	.0826266	.1612028
Stddev	.0030711	6.570	.0004975	.0027232	.0154271	.0010855
%RSD	32.18409	.4102999	10.64031	.6676046	18.67091	.6734028

#1	.0073706	1596.533	.0050275	.4098264	.0935352	.1619703
#2	.0117137	1605.824	.0043239	.4059753	.0717179	.1604352

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7029360	155.1954	23.13820	.1542367	941.2544	5.148252
Stddev	.0004550	.2319	.00488	.0003778	1.4216	.004435
%RSD	.0647323	.1494330	.0210831	.2449292	.1510378	.0861469

#1	.7032577	155.3593	23.14165	.1545038	942.2596	5.151389
#2	.7026142	155.0314	23.13475	.1539696	940.2491	5.145117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150761-e-8-a Acquired: 9/4/2018 20:54:36 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224545	3.827249	.1826369	1.070911	.0117884	.0087366
Stddev	.0038188	.001268	.0382830	.179005	.0017921	.0000486
%RSD	17.00705	.0331409	20.96127	16.71524	15.20192	.5564813

#1	.0251548	3.826352	.2097071	1.197487	.0130556	.0087709
#2	.0197541	3.828146	.1555667	.944335	.0105212	.0087022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.306188	.1877939	.9350642	2.393867	-.000327	.2283761
Stddev	.690267	.0322654	.0001626	.003399	.000086	.0009664
%RSD	20.87802	17.18128	.0173867	.1419783	26.20034	.4231560

#1	3.794281	.2106089	.9349492	2.396270	-.000388	.2290594
#2	2.818096	.1649788	.9351791	2.391463	-.000267	.2276928

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.032573
Stddev	.165411
%RSD	16.01928

#1	1.149536
#2	.915610

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-8-a Acquired: 9/4/2018 20:54:36 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1467.341	1053.751	8878.938	4244.268
Stddev	198.020	134.597	25.228	22.590
%RSD	13.49514	12.77311	.2841348	.5322358
#1	1327.320	958.577	8861.099	4228.295
#2	1607.362	1148.925	8896.777	4260.241

Sample Name: 500-150761-e-9-a Acquired: 9/4/2018 20:58:42 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027181	50.27381	.0366004	.2818613	.4172501	.0040083
Stddev	.0003760	.31855	.0013745	.0571451	.0015309	.0004849
%RSD	13.83387	.6336362	3.755532	20.27418	.3669091	12.09753

#1	.0024523	50.04855	.0375724	.3222690	.4161675	.0036654
#2	.0029840	50.49906	.0356285	.2414537	.4183326	.0043512

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024821	F 2280.649	.0049829	.2713227	.0338598	.0825433
Stddev	.0014779	18.014	.0011021	.0157274	.0075179	.0009389
%RSD	59.54186	.7898761	22.11698	5.796575	22.20312	1.137469

#1	.0035271	2267.911	.0057621	.2602018	.0391757	.0818794
#2	.0014371	2293.387	.0042036	.2824437	.0285438	.0832072

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5793743	76.19960	16.46799	.1065294	F 1518.777	3.110254
Stddev	.0016135	.35405	.05814	.0007798	6.952	.017873
%RSD	.2784848	.4646331	.3530735	.7319859	.4577188	.5746425

#1	.5805151	75.94925	16.42687	.1059780	1513.862	3.097616
#2	.5782334	76.44995	16.50910	.1070808	1523.693	3.122892

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-9-a Acquired: 9/4/2018 20:58:42 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131345	5.904330	.0948535	.9899175	.0247014	.0039261
Stddev	.0018084	.002981	.0261065	.1991733	.0065755	.0029233
%RSD	13.76816	.0504829	27.52302	20.12019	26.62000	74.45975

#1	.0144132	5.902222	.1133136	1.130754	.0293510	.0018590
#2	.0118558	5.906437	.0763934	.849081	.0200518	.0059932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.424534	.3160536	1.035824	1.355452	-.006229	.1195122
Stddev	.778646	.0628995	.004903	.002719	.008670	.0013513
%RSD	22.73730	19.90152	.4733551	.2005905	139.1861	1.130701

#1	3.975120	.3605302	1.032357	1.357374	-.012359	.1185567
#2	2.873947	.2715770	1.039291	1.353529	-.000098	.1204678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.7315786
Stddev	.1378728
%RSD	18.84593

#1	.8290694
#2	.6340878

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-9-a Acquired: 9/4/2018 20:58:42 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1371.336	991.6360	8243.198	4059.548
Stddev	229.644	153.5904	9.134	2.155
%RSD	16.74599	15.48859	.1108062	.0530826
#1	1208.954	883.0312	8236.739	4058.025
#2	1533.719	1100.241	8249.656	4061.072

Sample Name: 500-150761-e-10-a Acquired: 9/4/2018 21:02:49 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001587	23.30628	.0103990	.2862476	.0675926	.0025095
Stddev	.000639	.13761	.0048422	.0689245	.0000837	.0002349
%RSD	40.24883	.5904341	46.56437	24.07863	.1237711	9.360196

#1	-.002038	23.20897	.0138230	.3349845	.0675335	.0023434
#2	-.001135	23.40358	.0069750	.2375106	.0676518	.0026756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010081	F 2734.820	.0017470	.2026304	.0121610	.0403934
Stddev	.001032	12.411	.0003083	.0181372	.0034957	.0005167
%RSD	10.24142	.4538016	17.64888	8.950899	28.74496	1.279275

#1	-.009351	2726.045	.0015290	.1898054	.0146328	.0400280
#2	-.010811	2743.596	.0019650	.2154554	.0096892	.0407588

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0823088	30.23309	14.85829	.0925318	F 1897.124	1.937248
Stddev	.0007325	.06755	.00968	.0009570	3.072	.000809
%RSD	.8899364	.2234376	.0651449	1.034259	.1619477	.0417561

#1	.0817908	30.28086	14.85144	.0918551	1894.951	1.936676
#2	.0828267	30.18533	14.86513	.0932086	1899.296	1.937820

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-10-a Acquired: 9/4/2018 21:02:49 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010809	4.232974	.0345915	.0260055	.0085507	.0000439
Stddev	.0005886	.006416	.0111384	.0052618	.0020924	.0017432
%RSD	54.45686	.1515626	32.19984	20.23344	24.47028	3970.523

#1	.0014971	4.228437	.0424676	.0297262	.0100302	.0012766
#2	.0006647	4.237510	.0267155	.0222848	.0070712	-.001189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.283060	.0181027	1.078717	.1621826	-.004058	.0579363
Stddev	.561035	.0060276	.002513	.0002617	.002637	.0000623
%RSD	24.57382	33.29702	.2330068	.1613857	64.97942	.1076036

#1	2.679771	.0223649	1.076940	.1623676	-.005922	.0579803
#2	1.886348	.0138405	1.080495	.1619975	-.002193	.0578922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0481742
Stddev	.0102156
%RSD	21.20546

#1	.0553977
#2	.0409507

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-10-a Acquired: 9/4/2018 21:02:49 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1337.077	975.6184	7975.937	4027.249
Stddev	246.070	168.7113	10.362	10.610
%RSD	18.40357	17.29275	.1299220	.2634593
#1	1163.079	856.3215	7983.265	4019.747
#2	1511.075	1094.915	7968.610	4034.752

Sample Name: 150761-e-10-aSD@5 Acquired: 9/4/2018 21:06:57 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008011	5.023147	.0057756	.0689595	.0147642	.0009982
Stddev	.0003176	.041420	.0007041	.0128076	.0001011	.0005164
%RSD	39.65134	.8245920	12.19156	18.57269	.6844452	51.73435

#1	.0010257	4.993858	.0062735	.0780159	.0146928	.0006331
#2	.0005765	5.052435	.0052777	.0599032	.0148357	.0013634

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002560	F 728.0254	.0010291	.0639233	.0030787	.0094910
Stddev	.000773	4.1015	.0000683	.0089021	.0011297	.0003195
%RSD	30.20098	.5633750	6.631805	13.92630	36.69490	3.366029

#1	-.003107	725.1253	.0010774	.0702180	.0038776	.0092651
#2	-.002014	730.9257	.0009809	.0576285	.0022799	.0097169

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153154	7.305224	3.096647	.0191470	452.8593	.4585590
Stddev	.0003856	.018291	.009359	.0002421	1.5076	.0025616
%RSD	2.517881	.2503825	.3022305	1.264627	.3328988	.5586281

#1	.0150427	7.318158	3.090029	.0193182	451.7933	.4567477
#2	.0155880	7.292290	3.103265	.0189758	453.9253	.4603704

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 150761-e-10-aSD@5 Acquired: 9/4/2018 21:06:57 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000022	.8971856	.0094393	.0063037	.0023730	.0009329
Stddev	.000347	.0058967	.0052115	.0013471	.0011963	.0003918
%RSD	1597.604	.6572412	55.21083	21.36996	50.41227	42.00183

#1	-.000267	.8930160	.0131244	.0072562	.0032189	.0012100
#2	.000224	.9013551	.0057542	.0053511	.0015271	.0006558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5164894	.0025351	.2506505	.0414318	-.002841	.0130249
Stddev	.0854176	.0005899	.0000011	.0002333	.001475	.0007635
%RSD	16.53812	23.26924	.0004217	.5631667	51.91141	5.862172

#1	.5768887	.0021180	.2506497	.0412668	-.003884	.0135648
#2	.4560900	.0029523	.2506512	.0415968	-.001798	.0124850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0106890
Stddev	.0018285
%RSD	17.10682

#1	.0119819
#2	.0093960

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 150761-e-10-aSD@5 Acquired: 9/4/2018 21:06:57 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1710.044	1050.104	8769.546	4088.095
Stddev	193.832	126.877	20.213	18.319
%RSD	11.33491	12.08230	.2304929	.4480951
#1	1572.984	960.388	8783.839	4101.048
#2	1847.104	1139.819	8755.253	4075.142

Sample Name: 500-150761-e-10-b du Acquired: 9/4/2018 21:11:03 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000565	24.73834	.0100145	.2921177	.0539491	.0021753
Stddev	.000054	.10495	.0028599	.0707837	.0000456	.0001319
%RSD	9.471044	.4242428	28.55729	24.23123	.0846194	6.062707

#1	-.000603	24.66413	.0120367	.3421693	.0539169	.0020821
#2	-.000527	24.81255	.0079922	.2420661	.0539814	.0022686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009075	F 2708.401	.0014868	.2105107	.0126869	.0401702
Stddev	.000287	19.036	.0000024	.0079659	.0032247	.0012563
%RSD	3.167103	.7028416	.1598089	3.784098	25.41789	3.127484

#1	-.008871	2694.941	.0014851	.2161435	.0149671	.0410585
#2	-.009278	2721.861	.0014884	.2048779	.0104067	.0392818

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0306723	30.77041	15.96284	.0975172	F 1883.753	2.084419
Stddev	.0004399	.13424	.01327	.0001781	5.491	.000711
%RSD	1.434165	.4362562	.0831319	.1826242	.2914891	.0341046

#1	.0309834	30.67549	15.97222	.0973913	1879.870	2.083916
#2	.0303612	30.86533	15.95345	.0976431	1887.635	2.084921

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-10-b du Acquired: 9/4/2018 21:11:03 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004375	4.107422	.0350309	.0230368	.0094476	.0032010
Stddev	.0002032	.002800	.0136137	.0049562	.0011650	.0013540
%RSD	46.43660	.0681651	38.86201	21.51433	12.33112	42.29967

#1	.0002938	4.105442	.0446572	.0265413	.0086238	.0041585
#2	.0005811	4.109401	.0254046	.0195322	.0102713	.0022436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.406358	.0182420	1.073032	.1599558	-.003641	.0575222
Stddev	.591937	.0028374	.001222	.0005739	.004572	.0005047
%RSD	24.59887	15.55420	.1138851	.3587886	125.5649	.8774044

#1	2.824921	.0202484	1.073896	.1603616	-.000408	.0578791
#2	1.987796	.0162357	1.072168	.1595499	-.006875	.0571654

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0382372
Stddev	.0075771
%RSD	19.81597

#1	.0435950
#2	.0328794

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-10-b du Acquired: 9/4/2018 21:11:03 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1336.913	965.7457	7882.817	4015.899
Stddev	257.655	171.4531	16.879	12.691
%RSD	19.27237	17.75344	.2141216	.3160184
#1	1154.724	844.5101	7870.882	4006.925
#2	1519.103	1086.981	7894.752	4024.873

Sample Name: 500-150761-e-10-c.ms Acquired: 9/4/2018 21:15:12 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0433084	44.86223	.0964750	1.106239	1.710247	.0441184
Stddev	.0005657	.24016	.0075418	.132444	.001791	.0001756
%RSD	1.306250	.5353260	7.817364	11.97245	.1047056	.3979423

#1	.0437084	44.69241	.1018078	1.199891	1.708980	.0439942
#2	.0429084	45.03205	.0911421	1.012587	1.711513	.0442425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5676257	F 2860.577	.0482493	.2053314	.4634832	.2057889
Stddev	.0727660	18.421	.0059742	.0013346	.0558304	.0006565
%RSD	12.81935	.6439464	12.38191	.6499801	12.04584	.3189932

#1	.6190790	2847.552	.0524736	.2043877	.5029613	.2062530
#2	.5161724	2873.602	.0440249	.2062751	.4240051	.2053247

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2968415	34.98887	34.24530	.5808585	F 2001.147	2.501995
Stddev	.0011934	.30470	.04758	.0001367	10.394	.008479
%RSD	.4020458	.8708476	.1389464	.0235421	.5193785	.3389078

#1	.2976853	34.77341	34.21166	.5807618	1993.797	2.495999
#2	.2959976	35.20432	34.27895	.5809552	2008.496	2.507991

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-10-c ms Acquired: 9/4/2018 21:15:12 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7113703	13.41204	.4599145	.1071078	.2869516	.0675023
Stddev	.0831548	.00095	.0575882	.0122069	.0375506	.0073062
%RSD	11.68939	.0070857	12.52150	11.39689	13.08605	10.82362

#1	.7701696	13.41137	.5006356	.1157394	.3135039	.0726686
#2	.6525710	13.41271	.4191935	.0984761	.2603993	.0623361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.596341	.9365277	1.963711	1.062115	.0707533	.4736418
Stddev	.533791	.1085843	.005757	.003866	.0115846	.0010993
%RSD	11.61340	11.59435	.2931531	.3640314	16.37326	.2320872

#1	4.973789	1.013308	1.959640	1.059381	.0789449	.4728645
#2	4.218894	.859747	1.967781	1.064849	.0625617	.4744191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4700253
Stddev	.0501016
%RSD	10.65935

#1	.5054525
#2	.4345980

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-10-c ms Acquired: 9/4/2018 21:15:12 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1219.720	915.0952	7923.551	4049.590
Stddev	126.835	90.3202	24.929	2.111
%RSD	10.39872	9.870036	.3146204	.0521259
#1	1130.034	851.2292	7905.924	4051.083
#2	1309.407	978.9612	7941.179	4048.098

Sample Name: 150761-e-10-d msd Acquired: 9/4/2018 21:19:16 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426218	40.77854	.0942978	1.086799	1.709622	.0433028
Stddev	.0005677	.05087	.0134603	.161834	.000550	.0005887
%RSD	1.332038	.1247349	14.27422	14.89089	.0321745	1.359531

#1	.0422204	40.74257	.1038156	1.201234	1.709233	.0428865
#2	.0430233	40.81451	.0847799	.972366	1.710011	.0437191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5564446	F 2882.000	.0476298	.2011020	.4532805	.1961963
Stddev	.0877588	26.223	.0064578	.0010450	.0709691	.0000598
%RSD	15.77134	.9098738	13.55829	.5196294	15.65677	.0304866

#1	.6184994	2863.458	.0521961	.2003631	.5034632	.1961540
#2	.4943898	2900.543	.0430635	.2018410	.4030977	.1962386

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3017993	32.90122	31.94155	.5772133	F 2017.672	2.507322
Stddev	.0015741	.04614	.00216	.0008106	4.996	.004087
%RSD	.5215818	.1402355	.0067648	.1404348	.2476212	.1629845

#1	.3029124	32.86859	31.94002	.5777865	2014.139	2.510212
#2	.3006862	32.93384	31.94307	.5766401	2021.205	2.504433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 150761-e-10-d msd Acquired: 9/4/2018 21:19:16 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7033980	13.29927	.4476114	.1040428	.3089447	.0657057
Stddev	.1000636	.04552	.0699768	.0191632	.0459810	.0050956
%RSD	14.22574	.3422896	15.63339	18.41855	14.88326	7.755131

#1	.7741536	13.33146	.4970925	.1175932	.3414582	.0693088
#2	.6326423	13.26708	.3981303	.0904924	.2764312	.0621026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.509084	.9139631	1.955181	1.061259	.0708146	.4691675
Stddev	.784405	.1391104	.000383	.000634	.0130713	.0010186
%RSD	14.23840	15.22058	.0195814	.0596980	18.45843	.2171060

#1	6.063742	1.012329	1.955451	1.060811	.0800574	.4684472
#2	4.954425	.815597	1.954910	1.061707	.0615718	.4698877

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4615056
Stddev	.0673697
%RSD	14.59780

#1	.5091432
#2	.4138681

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 150761-e-10-d msd Acquired: 9/4/2018 21:19:16 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1237.440	926.9885	7862.079	4026.374
Stddev	163.275	112.1818	24.044	5.234
%RSD	13.19456	12.10174	.3058284	.1299864
#1	1121.988	847.6640	7845.077	4022.673
#2	1352.893	1006.313	7879.081	4030.075

Sample Name: CCB Acquired: 9/4/2018 21:27:15 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008254	-.046117	.0003847	.0006171	-.000222	-.000201
Stddev	.0001079	.007909	.0019503	.0001356	.000063	.000216
%RSD	13.07799	17.15053	506.9144	21.97510	28.37272	107.4161

#1	.0007491	-.040524	-.000994	.0005212	-.000177	-.000355
#2	.0009018	-.051710	.001764	.0007130	-.000266	-.000048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019678	.0622003	.0001835	F .0098818	-.000114	-.000213
Stddev	.0003088	.0039456	.0001642	.0118843	.000299	.000477
%RSD	15.69284	6.343419	89.47330	120.2638	261.6959	224.3431

#1	.0017495	.0649903	.0000674	.0014784	.000097	.000125
#2	.0021862	.0594103	.0002996	.0182853	-.000326	-.000550

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001203	.0380999	-.011074	.0006371	.0672108	.0005014
Stddev	.000193	.0529544	.002207	.0004049	.0044098	.0004525
%RSD	16.02510	138.9883	19.92655	63.55772	6.561096	90.24589

#1	-.001066	.0755443	-.009514	.0009233	.0703290	.0001814
#2	-.001339	.0006555	-.012634	.0003507	.0640926	.0008213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/4/2018 21:27:15 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001536	-.018263	-.000251	-.000397	.0066478	-.001792
Stddev	.0000574	.001249	.000654	.000759	.0012158	.000365
%RSD	37.37202	6.836709	260.6994	190.8970	18.28810	20.36820

#1	.0001130	-.019146	.000212	.000139	.0075075	-.002050
#2	.0001942	-.017381	-.000714	-.000934	.0057881	-.001534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033867	.0013663	.0000561	.0007923	.0012717	.0004538
Stddev	.0017636	.0009271	.0000185	.0001826	.0002142	.0000979
%RSD	52.07620	67.85468	32.94686	23.04725	16.84523	21.56714

#1	.0021396	.0020219	.0000692	.0009214	.0014232	.0003846
#2	.0046337	.0007108	.0000430	.0006632	.0011202	.0005230

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0002201
Stddev	.0000056
%RSD	2.538107

#1	.0002161
#2	.0002240

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/4/2018 21:27:15 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2074.918	1129.303	9898.940	4347.673
Stddev	85.272	54.355	4.434	11.237
%RSD	4.109660	4.813141	.0447919	.2584656
#1	2014.622	1090.868	9895.805	4355.619
#2	2135.215	1167.738	9902.075	4339.728

Sample Name: CCV Acquired: 9/4/2018 21:23:22 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4724339	51.76768	.4951652	.4797664	.4662274	.4860667
Stddev	.0015923	.23568	.0074992	.0027083	.0021297	.0014193
%RSD	.3370329	.4552706	1.514475	.5645033	.4567999	.2919930

#1	.4713080	51.60103	.4898625	.4778513	.4647215	.4850631
#2	.4735598	51.93434	.5004679	.4816815	.4677334	.4870703

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5004824	27.28194	.4972795	F -.047769	.5042981	.4842618
Stddev	.0025444	.00498	.0011342	.001607	.0031894	.0014686
%RSD	.5083914	.0182604	.2280837	3.363797	.6324343	.3032767

#1	.4986833	27.27842	.4964774	-.046633	.5020429	.4853003
#2	.5022816	27.28547	.4980815	-.048905	.5065533	.4832233

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4904366	26.05678	47.09116	3.729585	25.50000	4.797807
Stddev	.0005942	.05010	.05840	.012282	.05069	.005265
%RSD	.1211599	.1922583	.1240159	.3293110	.1987755	.1097293

#1	.4900164	26.02136	47.04986	3.720900	25.46415	4.794084
#2	.4908568	26.09220	47.13245	3.738270	25.53584	4.801530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 21:23:22 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4790226	23.11807	.4928964	.4964444	.4554112	.4749436
Stddev	.0007822	.00412	.0005541	.0031004	.0044341	.0023165
%RSD	.1632962	.0178340	.1124104	.6245237	.9736460	.4877390

#1	.4784695	23.12099	.4925046	.4942521	.4522758	.4733056
#2	.4795757	23.11516	.4932882	.4986368	.4585466	.4765816

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4276511	.5161861	.5027263	.4991311	.4919638	4.821083
Stddev	.0002388	.0060755	.0000153	.0001004	.0023943	.014063
%RSD	.0558336	1.177005	.0030388	.0201209	.4866832	.2916941

#1	.4274823	.5118901	.5027371	.4990600	.4902708	4.831027
#2	.4278200	.5204822	.5027154	.4992021	.4936568	4.811139

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5077100
Stddev	.0037434
%RSD	.7373125

#1	.5050630
#2	.5103570

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 21:23:22 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1876.120	1068.739	9623.712	4331.592
Stddev	7.926	4.468	11.369	10.262
%RSD	.4224487	.4180956	.1181312	.2369221
#1	1881.724	1071.898	9631.751	4324.335
#2	1870.516	1065.579	9615.673	4338.849

Sample Name: 500-150761-e-11-a Acquired: 9/4/2018 21:31:21 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016132	85.82117	.0492674	.2794235	.5193098	.0051053
Stddev	.0010141	.43339	.0077271	.0593635	.0011388	.0001175
%RSD	62.86674	.5049899	15.68408	21.24499	.2192848	2.301809

#1	.0008961	85.51472	.0547313	.3213999	.5185045	.0050222
#2	.0023302	86.12762	.0438035	.2374472	.5201150	.0051884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031620	F 1935.080	.0041877	.3771714	.0621441	.1345837
Stddev	.0005066	21.987	.0006722	.0176366	.0156726	.0007364
%RSD	16.02011	1.136222	16.05119	4.676010	25.21972	.5471940

#1	.0035202	1919.533	.0046630	.3647004	.0732263	.1351044
#2	.0028038	1950.627	.0037124	.3896423	.0510619	.1340630

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3292307	127.0294	26.63060	.1631594	F 1237.058	3.616570
Stddev	.0017969	1.0619	.08531	.0008668	7.338	.023276
%RSD	.5457961	.8359419	.3203382	.5312598	.5931877	.6435848

#1	.3305013	126.2786	26.57028	.1625465	1231.870	3.600112
#2	.3279601	127.7803	26.69092	.1637724	1242.247	3.633028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-11-a Acquired: 9/4/2018 21:31:21 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169791	3.962221	.1625033	.6262267	.0209859	.0059798
Stddev	.0033078	.004408	.0408454	.1320130	.0052399	.0037128
%RSD	19.48149	.1112462	25.13515	21.08070	24.96847	62.08897

#1	.0193181	3.959104	.1913854	.7195739	.0246911	.0033544
#2	.0146402	3.965338	.1336212	.5328794	.0172808	.0086051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.487444	.1627893	.9549504	1.722422	-.003948	.1954521
Stddev	.812281	.0328644	.0028987	.005466	.006639	.0009292
%RSD	23.29159	20.18828	.3035427	.3173429	168.1667	.4754220

#1	4.061813	.1860280	.9570000	1.726287	-.008643	.1947951
#2	2.913074	.1395507	.9529007	1.718557	.000747	.1961092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.7497856
Stddev	.1536644
%RSD	20.49445

#1	.8584428
#2	.6411285

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-11-a Acquired: 9/4/2018 21:31:21 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1417.342	1039.743	8556.475	4246.543
Stddev	257.119	172.888	56.236	3.005
%RSD	18.14095	16.62798	.6572341	.0707636
#1	1235.531	917.493	8516.710	4248.668
#2	1599.153	1161.994	8596.240	4244.418

Sample Name: 500-150761-e-12-a Acquired: 9/4/2018 21:35:28 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000295	83.51702	.0310312	.3628210	.6835640	.0065729
Stddev	.000546	.41768	.0083929	.0730466	.0028213	.0003447
%RSD	185.4015	.5001094	27.04667	20.13294	.4127290	5.244616

#1	.000092	83.22168	.0369658	.4144727	.6815690	.0063291
#2	-.000681	83.81236	.0250965	.3111693	.6855589	.0068166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056190	F 2509.775	.0033325	.2946886	.0378758	.1395377
Stddev	.0022845	25.141	.0002552	.0074754	.0090652	.0013678
%RSD	40.65669	1.001709	7.658446	2.536727	23.93405	.9802189

#1	.0072343	2491.997	.0035130	.2894026	.0442859	.1405049
#2	.0040036	2527.552	.0031521	.2999745	.0314657	.1385706

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2013752	87.99276	23.19565	.1421432	F 1497.156	4.370931
Stddev	.0008994	.55791	.01733	.0004862	3.816	.015457
%RSD	.4466194	.6340362	.0747050	.3420166	.2548698	.3536220

#1	.2020111	87.59826	23.18340	.1417995	1494.458	4.360002
#2	.2007392	88.38725	23.20790	.1424870	1499.854	4.381861

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-12-a Acquired: 9/4/2018 21:35:28 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085082	6.938938	.1165922	.2482991	.0134038	.0065255
Stddev	.0004444	.016329	.0257674	.0438370	.0033306	.0046419
%RSD	5.222808	.2353275	22.10045	17.65493	24.84829	71.13407

#1	.0088225	6.927391	.1348125	.2792965	.0157589	.0098079
#2	.0081940	6.950484	.0983719	.2173016	.0110487	.0032432

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.781688	.0536633	1.498067	2.395643	-.009272	.1664366
Stddev	.796348	.0124214	.000727	.002062	.000092	.0011572
%RSD	21.05799	23.14687	.0485170	.0860932	.9937677	.6953045

#1	4.344791	.0624465	1.498580	2.397102	-.009337	.1672549
#2	3.218585	.0448800	1.497553	2.394185	-.009207	.1656183

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4234778
Stddev	.0754468
%RSD	17.81599

#1	.4768267
#2	.3701288

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-12-a Acquired: 9/4/2018 21:35:28 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1329.986	996.2330	8280.089	4180.679
Stddev	219.519	153.5155	26.995	12.859
%RSD	16.50536	15.40959	.3260258	.3075871
#1	1174.763	887.6812	8261.001	4171.586
#2	1485.209	1104.785	8299.178	4189.772

Sample Name: 500-150761-e-13-a Acquired: 9/4/2018 21:39:35 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003222	70.18526	.0311099	.3404038	.7373426	.0047225
Stddev	.0002657	.44239	.0089638	.0583027	.0000495	.0003337
%RSD	82.45375	.6303123	28.81324	17.12751	.0067094	7.066297

#1	.0001344	69.87245	.0374483	.3816301	.7373077	.0044865
#2	.0005100	70.49807	.0247716	.2991776	.7373776	.0049585

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023882	F 2526.656	.0035492	.2643133	.0370756	.1082445
Stddev	.0010905	5.214	.0001855	.0063727	.0062180	.0016876
%RSD	45.66224	.2063758	5.226147	2.411057	16.77105	1.559084

#1	.0016171	2522.969	.0036804	.2598071	.0414724	.1070511
#2	.0031593	2530.343	.0034180	.2688195	.0326789	.1094378

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2319851	77.55109	17.63810	.1627878	F 1555.582	3.085139
Stddev	.0009695	.27981	.02776	.0000746	3.696	.018416
%RSD	.4179167	.3608058	.1573826	.0458147	.2376058	.5969324

#1	.2326706	77.35323	17.61847	.1627350	1552.968	3.072117
#2	.2312995	77.74894	17.65773	.1628405	1558.195	3.098161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					1000.000	
Low Limit					-.100000	

Sample Name: 500-150761-e-13-a Acquired: 9/4/2018 21:39:35 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126101	6.274693	.1037672	.2886226	.0130017	.0066300
Stddev	.0009025	.012783	.0228504	.0493363	.0020962	.0013639
%RSD	7.156935	.2037240	22.02082	17.09370	16.12209	20.57159

#1	.0132482	6.283732	.1199249	.3235086	.0115195	.0075944
#2	.0119719	6.265654	.0876096	.2537366	.0144839	.0056656

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.582886	.0387232	1.604751	2.101812	-.004539	.1515438
Stddev	.468029	.0086754	.000542	.001045	.004425	.0001951
%RSD	18.12037	22.40365	.0337450	.0497210	97.47695	.1287079

#1	2.913832	.0448576	1.605134	2.102551	-.007668	.1514059
#2	2.251940	.0325888	1.604368	2.101073	-.001410	.1516817

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.3951983
Stddev	.0628912
%RSD	15.91384

#1	.4396691
#2	.3507275

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150761-e-13-a Acquired: 9/4/2018 21:39:35 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1320.146	982.7903	8242.205	4190.162
Stddev	189.116	129.8049	.504	14.492
%RSD	14.32538	13.20780	.0061175	.3458679
#1	1186.420	891.0044	8241.849	4179.914
#2	1453.871	1074.576	8242.562	4200.410

Sample Name: mb 500-448179/1-a Acquired: 9/4/2018 21:45:41 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008488	-.028763	.0003079	.0013623	-.000218	-.000129	-.002948
Stddev	.0001145	.004601	.0006960	.0003895	.000002	.000449	.000128
%RSD	13.48327	15.99624	226.0435	28.58930	.9298459	347.9542	4.350602

#1	.0009298	-.032017	-.000184	.0016376	-.000217	.000188	-.002857
#2	.0007679	-.025510	.000800	.0010869	-.000219	-.000446	-.003039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1808860	.0003096	.0088314	-.000466	-.000688	-.000912	.0760436
Stddev	.0006549	.0000461	.0088582	.000067	.000244	.000147	.0259415
%RSD	.3620806	14.89886	100.3032	14.37887	35.51073	16.15051	34.11404

#1	.1804229	.0002770	.0150951	-.000514	-.000515	-.001017	.0577002
#2	.1813492	.0003422	.0025677	-.000419	-.000860	-.000808	.0943870

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006497	.0003262	.0465294	.0003430	.0005837	.0475156	-.001286
Stddev	.004306	.0001655	.0113991	.0004987	.0003098	.0025108	.000298
%RSD	66.28493	50.74147	24.49870	145.4049	53.07721	5.284261	23.13433

#1	-.009542	.0004432	.0545898	-.000010	.0003647	.0457402	-.001076
#2	-.003452	.0002091	.0384690	.000696	.0008028	.0492911	-.001497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-448179/1-a Acquired: 9/4/2018 21:45:41 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000733	-.000464	-.000818	.0067379	-.000371	.0001371	.0013771
Stddev	.000641	.000114	.000651	.0024708	.000904	.0000065	.0000892
%RSD	87.43637	24.68207	79.63066	36.67028	243.9676	4.762066	6.477231

#1	-.001186	-.000545	-.001279	.0049908	.000269	.0001417	.0014402
#2	-.000280	-.000383	-.000357	.0084850	-.001010	.0001325	.0013140

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0000511	-.000015	.0061792
Stddev	.0003296	.000145	.0003327
%RSD	644.9995	992.6324	5.384835

#1	.0002841	.000088	.0064145
#2	-.000182	-.000117	.0059439

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2054.670	1116.884	10103.12	4458.833
Stddev	21.356	11.828	3.98	7.334
%RSD	1.039408	1.059062	.0393583	.1644915

#1	2039.568	1108.520	10105.93	4464.019
#2	2069.771	1125.248	10100.30	4453.647

Sample Name: lcs 500-448179/2-a Acquired: 9/4/2018 21:49:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0442598	1.970892	.0991719	.8879039	1.840097	.0471417	.4764626
Stddev	.0004819	.002623	.0004484	.0021238	.006798	.0000475	.0012878
%RSD	1.088720	.1330956	.4521345	.2391896	.3694112	.1008598	.2702891

#1	.0446006	1.972747	.0994889	.8864022	1.835290	.0471081	.4773733
#2	.0439191	1.969038	.0988548	.8894056	1.844903	.0471753	.4755520

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.29754	.0488488	.0016385	.4871258	.1920206	.2412311	1.009320
Stddev	.00245	.0003332	.0102229	.0013888	.0008150	.0006540	.066382
%RSD	.0238325	.6820329	623.9232	.2850960	.4244556	.2711054	6.576932

#1	10.29580	.0486133	.0088672	.4881078	.1925970	.2407686	.962381
#2	10.29927	.0490844	-.005590	.4861438	.1914443	.2416935	1.056260

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.174529	.4773376	9.646033	.4773435	.9602333	9.170147	.4815589
Stddev	.028522	.0004746	.012128	.0011830	.0014832	.017074	.0019324
%RSD	.3108872	.0994309	.1257279	.2478378	.1544623	.1861965	.4012735

#1	9.154360	.4770020	9.654608	.4765069	.9591845	9.158073	.4829253
#2	9.194697	.4776732	9.637457	.4781800	.9612821	9.182220	.4801925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-448179/2-a Acquired: 9/4/2018 21:49:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0925705	.4666573	.0868154	4.268577	.9599107	.9972843	.9899838
Stddev	.0014622	.0004919	.0018285	.052487	.0037978	.0009764	.0000493
%RSD	1.579516	.1054081	2.106182	1.229609	.3956407	.0979029	.0049825

#1	.0936044	.4663095	.0855225	4.231464	.9625961	.9979747	.9900187
#2	.0915366	.4670052	.0881084	4.305691	.9572252	.9965939	.9899489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0971632	.4829912	.4844759
Stddev	.0005824	.0007075	.0025966
%RSD	.5994515	.1464852	.5359568

#1	.0967513	.4834914	.4863120
#2	.0975750	.4824909	.4826398

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1971.017	1071.049	9826.441	4410.496
Stddev	1.824	5.649	4.077	5.229
%RSD	.0925576	.5273924	.0414872	.1185631

#1	1972.307	1075.043	9823.558	4406.798
#2	1969.727	1067.054	9829.323	4414.193

Sample Name: 500-150778-e-2-a Acquired: 9/4/2018 21:53:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003547	8.666671	.0036327	.2953024	.3700271	.0004334	-.000976
Stddev	.0007324	.007770	.0026524	.0809344	.0013825	.0000569	.001176
%RSD	206.4662	.0896568	73.01363	27.40730	.3736096	13.12355	120.4593

#1	.0008726	8.661176	.0017572	.3525317	.3690495	.0004737	-.000145
#2	-.000163	8.672165	.0055083	.2380731	.3710046	.0003932	-.001808

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	273.7792	.0010016	.0255164	.0118829	.0302928	.0152917	10.27126
Stddev	.1103	.0001779	.0061913	.0033394	.0001993	.0001341	.01247
%RSD	.0402898	17.76551	24.26406	28.10224	.6578792	.8770438	.1213914

#1	273.7012	.0011274	.0298943	.0142442	.0301519	.0153865	10.28008
#2	273.8572	.0008758	.0211384	.0095216	.0304337	.0151968	10.26245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.11559	.0320075	41.43791	.9400172	.0177096	247.9265	.0260020
Stddev	.09009	.0000232	.16336	.0018853	.0038096	.2474	.0106066
%RSD	.2805276	.0724377	.3942314	.2005551	21.51167	.0997879	40.79162

#1	32.05188	.0320239	41.32239	.9386841	.0204034	247.7516	.0335020
#2	32.17929	.0319911	41.55342	.9413503	.0150158	248.1014	.0185019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150778-e-2-a Acquired: 9/4/2018 21:53:45 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119050	.0024215	.0016022	29.97735	.0039793	1.511959	.2023121
Stddev	.0032777	.0003047	.0035734	8.24822	.0000165	.004788	.0028837
%RSD	27.53194	12.58223	223.0357	27.51484	.4141360	.3166607	1.425359

#1	.0142226	.0026369	.0041289	35.80973	.0039677	1.508573	.2043511
#2	.0095873	.0022061	-.000925	24.14498	.0039910	1.515344	.2002730

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001742	.0232432	.0515158
Stddev	.000349	.0003002	.0115316
%RSD	20.02569	1.291462	22.38455

#1	-.001496	.0230310	.0596699
#2	-.001989	.0234555	.0433618

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.404	1105.610	8896.403	4228.316
Stddev	305.292	196.712	27.023	5.931
%RSD	16.30480	17.79213	.3037530	.1402759

#1	1656.530	966.514	8915.511	4232.510
#2	2088.278	1244.706	8877.295	4224.122

Sample Name: 500-150827-a-1-a Acquired: 9/4/2018 21:57:53 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000733	.5983315	.0266440	1.120505	.0151627	-.000239	-.001810
Stddev	.000014	.0011691	.0013560	.111691	.0001526	.000234	.002819
%RSD	1.900498	.1953918	5.089497	9.967927	1.006471	97.72537	155.7627
#1	-.000724	.5975049	.0276029	1.199482	.0150548	-.000404	-.003803
#2	-.000743	.5991582	.0256851	1.041527	.0152706	-.000074	.000184

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.56208	.0032852	.0087915	.0118233	.0737259	.1048692	15.43771
Stddev	.04087	.0004967	.0091322	.0012890	.0017921	.0001980	.22091
%RSD	.2089103	15.11810	103.8752	10.90245	2.430788	.1887752	1.430964
#1	19.59097	.0036364	.0023341	.0127347	.0724587	.1047292	15.28150
#2	19.53318	.0029340	.0152489	.0109118	.0749931	.1050092	15.59391

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.869994	.0070392	2.601725	.6109245	.0551542	795.5795	.1417923
Stddev	.027902	.0003205	.034237	.0014826	.0054592	2.0841	.0153020
%RSD	.7209908	4.552512	1.315948	.2426750	9.898017	.2619581	10.79181
#1	3.850264	.0068126	2.577516	.6119728	.0590145	794.1058	.1526125
#2	3.889724	.0072658	2.625935	.6098761	.0512940	797.0531	.1309722

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150827-a-1-a Acquired: 9/4/2018 21:57:53 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041932	.0294436	.0004280	7.693896	.0100708	.0448872	.0153074
Stddev	.0000580	.0045403	.0023695	.774192	.0008561	.0000121	.0004512
%RSD	1.382293	15.42032	553.6446	10.06242	8.501079	.0270444	2.947604

#1	.0042342	.0326541	.0021034	8.241333	.0106762	.0448786	.0149884
#2	.0041522	.0262332	-.001247	7.146460	.0094655	.0448957	.0156265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0014168	.0045799	.2087740
Stddev	.0015770	.0000878	.0198371
%RSD	111.3075	1.917770	9.501705

#1	.0025319	.0046420	.2228010
#2	.0003017	.0045178	.1947471

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1669.527	1002.428	8441.449	4086.181
Stddev	117.249	73.557	9.666	10.684
%RSD	7.022889	7.337868	.1145032	.2614573

#1	1586.619	950.415	8448.284	4078.627
#2	1752.434	1054.441	8434.614	4093.736

Sample Name: 500-150827-a-1-aSD@5 Acquired: 9/4/2018 22:01:58 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000052	.0985900	.0051555	.2282956	.0028537	.0001809	.0011264
Stddev	.000009	.0080057	.0010380	.0480561	.0000671	.0003501	.0007602
%RSD	16.78161	8.120220	20.13414	21.04996	2.350970	193.5333	67.49308

#1	-.000059	.1042509	.0044215	.2622764	.0029011	-.000067	.0016639
#2	-.000046	.0929291	.0058895	.1943148	.0028062	.000428	.0005888

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.834899	.0008287	.0003501	.0020682	.0118262	.0198626	3.103271
Stddev	.022145	.0001118	.0089682	.0006134	.0010176	.0001829	.004971
%RSD	.5774602	13.48579	2561.298	29.66037	8.604234	.9209544	.1601978

#1	3.850557	.0009077	.0066916	.0025020	.0125457	.0199920	3.106787
#2	3.819240	.0007496	-.005991	.0016344	.0111067	.0197333	3.099756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7664664	.0018846	.5275648	.1216379	.0109121	170.2518	.0258845
Stddev	.0110074	.0001445	.0154837	.0002241	.0017204	.4329	.0086504
%RSD	1.436117	7.666648	2.934939	.1842457	15.76617	.2542899	33.41908

#1	.7742497	.0017825	.5385135	.1214794	.0121286	169.9457	.0320012
#2	.7586830	.0019868	.5166162	.1217964	.0096956	170.5579	.0197678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150827-a-1-aSD@5 Acquired: 9/4/2018 22:01:58 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017243	.0059320	.0020839	1.469718	.0012216	.0092671	.0028953
Stddev	.0021030	.0012791	.0030886	.312952	.0001546	.0000132	.0004452
%RSD	121.9595	21.56281	148.2153	21.29336	12.65378	.1427077	15.37664
#1	.0002373	.0068365	.0042679	1.691009	.0011123	.0092764	.0025805
#2	.0032113	.0050276	-.000100	1.248428	.0013310	.0092577	.0032101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0002135	.0011631	.0374305
Stddev	.0001405	.0003607	.0064380
%RSD	65.79714	31.01265	17.19992
#1	.0001141	.0014182	.0419828
#2	.0003128	.0009081	.0328781
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1988.430	1105.735	9131.903	4305.023
Stddev	261.528	164.264	8.789	8.417
%RSD	13.15251	14.85568	.0962469	.1955132
#1	1803.502	989.582	9125.688	4299.071
#2	2173.359	1221.887	9138.118	4310.974

Sample Name: 500-150827-a-1-b du Acquired: 9/4/2018 22:06:06 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	-.000555	.5620354	.0251043	1.054730	.0147263	.0000079	-.002358
Stddev	.000917	.0023744	.0048079	.161653	.0001406	.0000742	.000759
%RSD	165.1843	.4224570	19.15169	15.32646	.9550315	935.6254	32.16802
#1	-.001203	.5637143	.0285040	1.169035	.0146269	-.000045	-.001822
#2	.000093	.5603564	.0217046	.940424	.0148258	.000060	-.002894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	19.09040	.0032101	-.002606	.0109588	.0710711	.1010415	15.20491
Stddev	.09150	.0006246	.010177	.0020511	.0005479	.0001971	.05622
%RSD	.4793173	19.45650	390.5005	18.71604	.7709180	.1951000	.3697598
#1	19.02569	.0036517	-.009803	.0124091	.0706837	.1009021	15.24467
#2	19.15510	.0027685	.004590	.0095085	.0714586	.1011809	15.16516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	3.764615	.0064167	2.519746	.5952742	.0520658	767.4904	.1339375
Stddev	.011419	.0001515	.022473	.0064202	.0070697	8.2521	.0213498
%RSD	.3033345	2.360897	.8918744	1.078520	13.57841	1.075211	15.94008
#1	3.756540	.0063095	2.503855	.5907345	.0570648	761.6552	.1490340
#2	3.772689	.0065238	2.535637	.5998140	.0470668	773.3255	.1188409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150827-a-1-b du Acquired: 9/4/2018 22:06:06 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034112	.0276829	.0022361	7.206316	.0106528	.0436874	.0113519
Stddev	.0001676	.0041767	.0001050	1.110449	.0039083	.0000398	.0007343
%RSD	4.913763	15.08757	4.696007	15.40939	36.68767	.0911577	6.468430
#1	.0035297	.0306363	.0021619	7.991522	.0134164	.0437156	.0108327
#2	.0032927	.0247295	.0023104	6.421109	.0078893	.0436592	.0118711

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002610	.0046436	.1960648
Stddev	.001649	.0001212	.0269216
%RSD	63.18154	2.610127	13.73096
#1	-.003776	.0045579	.2151012
#2	-.001444	.0047293	.1770284

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1726.004	1038.719	8491.779	4097.125
Stddev	186.197	118.798	14.939	8.725
%RSD	10.78774	11.43701	.1759255	.2129561
#1	1594.343	954.716	8502.343	4103.295
#2	1857.665	1122.722	8481.216	4090.955

Sample Name: 500-150827-a-1-c ms Acquired: 9/4/2018 22:10:11 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0495550	2.719404	.1203514	1.901599	1.936452	.0495774
Stddev	.0008197	.028740	.0218496	.360568	.000502	.0004649
%RSD	1.654153	1.056852	18.15485	18.96129	.0259421	.9377935

#1	.0501346	2.699082	.1358014	2.156559	1.936097	.0492486
#2	.0489754	2.739726	.1049014	1.646639	1.936807	.0499062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5009551	30.37279	.0516292	F -.005938	.4895470	.2731033
Stddev	.0922444	.00480	.0099199	.000933	.0868937	.0011262
%RSD	18.41372	.0158076	19.21381	15.71626	17.74981	.4123602

#1	.5661817	30.37618	.0586437	-.005278	.5509901	.2738996
#2	.4357284	30.36939	.0446148	-.006598	.4281039	.2723069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3829502	16.70382	13.72238	.5062873	12.54729	1.113466
Stddev	.0001160	.04666	.00704	.0005385	.00975	.003669
%RSD	.0302991	.2793278	.0513193	.1063598	.0777059	.3294979

#1	.3828681	16.67083	13.72736	.5066681	12.55418	1.110872
#2	.3830322	16.73681	13.71740	.5059066	12.54039	1.116060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150827-a-1-c ms Acquired: 9/4/2018 22:10:11 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9281102	800.0017	.5981270	.0938886	.4629916	.0751751
Stddev	.1704932	3.4747	.1104524	.0158468	.0869409	.0132980
%RSD	18.36993	.4343347	18.46638	16.87828	18.77807	17.68941

#1	1.048667	802.4587	.6762286	.1050940	.5244681	.0845782
#2	.807553	797.5448	.5200253	.0826832	.4015151	.0657720

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.03797	.9676861	1.063741	1.049661	.0780934	.5105863
Stddev	2.07647	.1719053	.001212	.000934	.0110693	.0003498
%RSD	18.81203	17.76457	.1139097	.0889725	14.17442	.0685106

#1	12.50625	1.089242	1.064598	1.050321	.0859206	.5108336
#2	9.56969	.846131	1.062884	1.049001	.0702663	.5103389

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.6898745
Stddev	.1202903
%RSD	17.43654

#1	.7749326
#2	.6048165

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150827-a-1-c ms Acquired: 9/4/2018 22:10:11 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1726.853	1046.098	8451.559	4084.861
Stddev	223.173	144.120	12.761	4.511
%RSD	12.92368	13.77696	.1509934	.1104385
#1	1569.046	944.189	8442.535	4081.671
#2	1884.660	1148.006	8460.582	4088.051

Sample Name: CCV Acquired: 9/4/2018 22:14:18 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4722258	51.43544	.5147643	.5017140	.4773390	.4611312
Stddev	.0010412	.15079	.0055690	.0008506	.0021520	.0011695
%RSD	.2204920	.2931648	1.081851	.1695424	.4508235	.2536106

#1	.4714895	51.32882	.5187021	.5011125	.4758173	.4619581
#2	.4729620	51.54207	.5108264	.5023154	.4788606	.4603042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5110752	25.66474	.5069875	F -.039036	.4975272	.4734326
Stddev	.0043154	.07712	.0007155	.005524	.0000406	.0017105
%RSD	.8443715	.3004725	.1411189	14.15088	.0081511	.3612996

#1	.5080238	25.61021	.5064816	-.035130	.4974986	.4722230
#2	.5141266	25.71927	.5074934	-.042942	.4975559	.4746421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5079109	24.89163	48.23213	3.874856	24.55403	4.597941
Stddev	.0009728	.14167	.03568	.001268	.06844	.022775
%RSD	.1915250	.5691610	.0739785	.0327209	.2787398	.4953385

#1	.5085987	24.79145	48.25736	3.873960	24.50563	4.581836
#2	.5072230	24.99181	48.20690	3.875753	24.60242	4.614045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 22:14:18 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4894414	23.70825	.4890177	.4918973	.4759551	.4994454
Stddev	.0013129	.02767	.0002206	.0005867	.0030660	.0035768
%RSD	.2682505	.1167102	.0451056	.1192645	.6441690	.7161470

#1	.4885130	23.72782	.4888618	.4914825	.4737871	.4969162
#2	.4903697	23.68869	.4891737	.4923122	.4781230	.5019745

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4500540	.5087228	.5112513	.4972876	.4740204	4.755110
Stddev	.0016980	.0046618	.0010072	.0004590	.0174574	.004960
%RSD	.3772823	.9163718	.1970001	.0922967	3.682831	.1043182

#1	.4512546	.5054264	.5119635	.4976121	.4616762	4.758618
#2	.4488533	.5120192	.5105391	.4969630	.4863646	4.751603

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.4873174
Stddev	.0010574
%RSD	.2169744

#1	.4880651
#2	.4865698

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 22:14:18 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1791.518	991.0619	9204.002	4324.389
Stddev	3.381	2.6797	27.707	5.711
%RSD	.1887167	.2703893	.3010319	.1320640
#1	1793.909	992.9568	9184.410	4320.351
#2	1789.128	989.1671	9223.594	4328.428

Sample Name: CCB Acquired: 9/4/2018 22:18:11 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0015624	-.044538	.0006008	.0013993	-.000303	-.000056	.0007946
Stddev	.0000633	.000024	.0028456	.0009649	.000082	.000047	.0020829
%RSD	4.049291	.0547373	473.6598	68.95688	27.04772	84.32285	262.1389

#1	.0015177	-.044555	-.001411	.0020817	-.000361	-.000023	.0022674
#2	.0016072	-.044520	.002613	.0007170	-.000245	-.000090	-.000678

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	-.002106	.0003986	.0046686	-.000459	-.000566	-.000907	.0626857
Stddev	.000478	.0000141	.0022008	.000202	.000356	.000183	.0356910
%RSD	22.71164	3.535318	47.14045	43.89854	62.92632	20.23197	56.93639

#1	-.002445	.0003886	.0062248	-.000602	-.000818	-.001036	.0879231
#2	-.001768	.0004086	.0031124	-.000317	-.000314	-.000777	.0374484

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	.0399966	.0007795	.0135268	-.000166	.0005452	.0117850	.0007573
Stddev	.0164125	.0001129	.0059680	.000083	.0002604	.0028237	.0014694
%RSD	41.03476	14.48594	44.11955	50.32585	47.76915	23.96005	194.0282

#1	.0283912	.0008593	.0093068	-.000107	.0003610	.0137816	.0017963
#2	.0516019	.0006996	.0177468	-.000225	.0007293	.0097883	-.000282

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 9/4/2018 22:18:11 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000303	.0043303	-.000659	.0036895	.0006528	.0000303	.0007363
Stddev	.000178	.0009309	.002683	.0004937	.0000536	.0000110	.0001202
%RSD	58.76987	21.49783	407.2508	13.38151	8.208837	36.13585	16.31894
#1	-.000177	.0049885	-.002556	.0033404	.0006149	.0000380	.0008213
#2	-.000429	.0036720	.001238	.0040386	.0006906	.0000226	.0006514

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0055257	-.000027	-.000024
Stddev	.0038590	.000121	.000156
%RSD	69.83725	443.9043	649.0174
#1	.0082545	.000058	-.000134
#2	.0027970	-.000113	.000086

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1985.969	1057.535	9600.759	4393.761
Stddev	67.546	42.402	21.362	15.368
%RSD	3.401185	4.009533	.2225081	.3497770
#1	1938.207	1027.552	9585.653	4404.628
#2	2033.732	1087.518	9615.864	4382.894

Sample Name: 500-150829-c-1-a Acquired: 9/4/2018 22:22:17 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000141	1.871388	.0036076	.6604670	.1247767	.0000817	.0004552
Stddev	.000557	.023781	.0024608	.0016528	.0000339	.0000188	.0014587
%RSD	393.7236	1.270751	68.20978	.2502443	.0271268	22.98182	320.4635
#1	.000252	1.854573	.0053477	.6616357	.1247527	.0000950	.0014866
#2	-.000535	1.888204	.0018676	.6592983	.1248006	.0000684	-.000576

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	84.22596	.0009141	.0046238	.0013552	.0008013	.0592210	.2441505
Stddev	.04013	.0002480	.0019262	.0001798	.0005537	.0001698	.0442402
%RSD	.0476496	27.13100	41.65938	13.26983	69.09419	.2866785	18.12007
#1	84.19758	.0010894	.0059858	.0012281	.0011928	.0593411	.2754331
#2	84.25434	.0007387	.0032617	.0014824	.0004098	.0591010	.2128680

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.00549	.0444860	13.34678	.0621330	.0795783	*****	.0223098
Stddev	.01296	.0000887	.01937	.0004265	.0007714	----	.0012036
%RSD	.0682070	.1992747	.1451437	.6864507	.9693240	----	5.394757
#1	19.01465	.0444234	13.36048	.0618314	.0801237	----	.0214588
#2	18.99632	.0445487	13.33308	.0624346	.0790328	----	.0231609

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150829-c-1-a Acquired: 9/4/2018 22:22:17 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003760	-.000137	.0023942	1.407399	.0045881	.5216767	.0017117
Stddev	.005145	.003703	.0037564	.004023	.0017471	.0007866	.0000973
%RSD	136.8633	2695.488	156.8952	.2858341	38.07937	.1507880	5.685084
#1	-.000121	-.002756	.0050504	1.410244	.0058235	.5222330	.0017805
#2	-.007398	.002481	-.000262	1.404555	.0033527	.5211205	.0016429

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0034845	.0048160	.0276447
Stddev	.0003153	.0000182	.0005172
%RSD	9.050100	.3781445	1.870881
#1	.0037075	.0048289	.0280104
#2	.0032615	.0048031	.0272790

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1235.155	813.4654	7102.232	3903.406
Stddev	3.645	.0557	17.401	9.172
%RSD	.2951114	.0068465	.2450111	.2349789
#1	1232.578	813.5048	7089.927	3896.921
#2	1237.732	813.4260	7114.536	3909.892

Sample Name: 500-150830-c-1-a Acquired: 9/4/2018 22:26:21 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005945	1.929947	.0030249	.6598515	.1230406	-.000256	-.001745
Stddev	.0003331	.011407	.0059263	.0088195	.0002200	.000121	.000100
%RSD	56.02875	.5910614	195.9172	1.336591	.1788053	47.16864	5.754239
#1	.0008301	1.921881	.0072154	.6660879	.1228851	-.000170	-.001816
#2	.0003590	1.938013	-.001166	.6536152	.1231962	-.000341	-.001674

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	84.21251	.0008865	-.000587	.0006690	.0011315	.0619264	.2633647
Stddev	.26881	.0005479	.010712	.0002794	.0001750	.0001901	.0189989
%RSD	.3191990	61.79628	1826.199	41.76347	15.46381	.3069886	7.213907
#1	84.02244	.0012739	-.008161	.0008666	.0012552	.0620608	.2499305
#2	84.40259	.0004992	.006988	.0004715	.0010078	.0617920	.2767990

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.04043	.0448514	13.39441	.0622793	.0789390	*****	.0233673
Stddev	.03092	.0001785	.04249	.0001375	.0016456	----	.0007753
%RSD	.1623845	.3980767	.3171881	.2207468	2.084648	----	3.317794
#1	19.06229	.0447252	13.36436	.0621821	.0801026	----	.0239156
#2	19.01857	.0449777	13.42445	.0623766	.0777754	----	.0228191

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150830-c-1-a Acquired: 9/4/2018 22:26:21 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001057	.0001520	-.000585	1.413795	.0031668	.5224614	.0017111
Stddev	.000117	.0000651	.002231	.016179	.0001833	.0004893	.0003751
%RSD	11.02436	42.86269	381.4472	1.144391	5.787103	.0936544	21.92077
#1	-.000974	.0001980	.000993	1.425235	.0032964	.5228073	.0019763
#2	-.001139	.0001059	-.002163	1.402354	.0030372	.5221153	.0014459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001643	.0044400	.0332753
Stddev	.004560	.0003333	.0017900
%RSD	277.5482	7.507480	5.379359
#1	-.004868	.0042043	.0345410
#2	.001582	.0046757	.0320096
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1237.993	812.7051	7106.534	3907.784
Stddev	12.163	5.6893	5.805	3.205
%RSD	.9825073	.7000483	.0816843	.0820145
#1	1229.392	808.6821	7102.429	3910.050
#2	1246.593	816.7280	7110.639	3905.517

Sample Name: 500-150833-c-1-a Acquired: 9/4/2018 22:30:24 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000315	8.623604	.0057814	.2583000	.2499846	-.000192
Stddev	.000440	.021862	.0018216	.0608146	.0014029	.000074
%RSD	139.5995	.2535164	31.50818	23.54416	.5611757	38.58164

#1	-.000626	8.608145	.0070694	.3013024	.2489926	-.000140
#2	-.000004	8.639063	.0044933	.2152976	.2509766	-.000244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0300488	24.64677	.0006084	F -.166904	.0086429	.1322717
Stddev	.0099487	.00211	.0001373	.007652	.0019123	.0004908
%RSD	33.10844	.0085711	22.57023	4.584786	22.12525	.3710361

#1	.0370835	24.64528	.0007055	-.172314	.0099951	.1326188
#2	.0230140	24.64826	.0005113	-.161493	.0072908	.1319247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165059	2.791537	284.9517	.0187036	8.932461	14.20961
Stddev	.0001595	.045005	.1025	.0001226	.026754	.02919
%RSD	.9664919	1.612200	.0359590	.6555842	.2995127	.2054120

#1	.0163931	2.759714	284.8793	.0186169	8.913544	14.18897
#2	.0166187	2.823361	285.0242	.0187903	8.951379	14.23025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150833-c-1-a Acquired: 9/4/2018 22:30:24 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0691499	240.0729	13.03257	-.003491	.0022198	.0013720
Stddev	.0163754	.5028	3.15896	.001965	.0010758	.0004915
%RSD	23.68097	.2094241	24.23893	56.29323	48.46684	35.82056

#1	.0807290	240.4284	15.26629	-.002101	.0029805	.0017195
#2	.0575707	239.7173	10.79885	-.004881	.0014590	.0010245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.744102	.1163413	F 3.835603	.0376868	-.008095	.0037112
Stddev	1.087450	.0271462	.018581	.0012128	.001278	.0000417
%RSD	22.92214	23.33327	.4844364	3.218244	15.78422	1.124447

#1	5.513045	.1355366	3.822464	.0385444	-.008999	.0037407
#2	3.975159	.0971460	3.848741	.0368291	-.007192	.0036817

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			2.000000			
Low Limit			-.005000			

Elem	Zn2062
Units	ppm
Avg	18.28194
Stddev	4.22574
%RSD	23.11431

#1	21.26999
#2	15.29389

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150833-c-1-a Acquired: 9/4/2018 22:30:24 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1851.336	1215.667	9976.140	4854.278
Stddev	304.888	182.362	8.474	7.426
%RSD	16.46856	15.00099	.0849395	.1529702
#1	1635.747	1086.718	9982.131	4849.027
#2	2066.924	1344.616	9970.148	4859.529

Sample Name: 500-150867-c-1-a Acquired: 9/4/2018 22:34:32 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009557	45.33243	.0193426	.0997239	.6777713	.0017453
Stddev	.0008860	.19043	.0006841	.0003337	.0010298	.0005839
%RSD	92.70919	.4200838	3.536608	.3345843	.1519407	33.45974

#1	.0015823	45.19777	.0188589	.0994879	.6770431	.0021582
#2	.0003292	45.46708	.0198263	.0999598	.6784995	.0013323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002661	171.8992	.0025307	.1011212	.0120103	.0602630
Stddev	.000983	1.4708	.0000353	.0032739	.0002696	.0001770
%RSD	36.95113	.8556428	1.395549	3.237611	2.244581	.2937523

#1	-.003356	170.8592	.0025057	.1034362	.0118196	.0601379
#2	-.001966	172.9393	.0025557	.0988062	.0122009	.0603882

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0799647	44.10009	12.78121	.0350827	58.98181	1.134410
Stddev	.0001817	.42459	.04373	.0000707	.32658	.008097
%RSD	.2271622	.9627869	.3421130	.2014040	.5536977	.7137926

#1	.0798363	43.79986	12.81213	.0351327	58.75088	1.128684
#2	.0800932	44.40032	12.75029	.0350328	59.21274	1.140136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150867-c-1-a Acquired: 9/4/2018 22:34:32 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029580	36.37336	.0521899	.3724121	.0070332	.0062424
Stddev	.0001303	.07034	.0002927	.0002954	.0007902	.0011922
%RSD	4.405757	.1933786	.5608763	.0793148	11.23547	19.09850

#1	.0030502	36.42309	.0519830	.3722032	.0075920	.0053994
#2	.0028659	36.32362	.0523969	.3726209	.0064744	.0070855

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 68.69655	.0556660	.1980137	.5076428	-.000240	.0626789
Stddev	.25154	.0001581	.0001483	.0082297	.000237	.0000144
%RSD	.3661560	.2840138	.0749104	1.621151	99.12502	.0229324

#1	68.87441	.0555542	.1981185	.5134621	-.000408	.0626891
#2	68.51868	.0557778	.1979088	.5018236	-.000072	.0626687

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	50.00000					
Low Limit	-.200000					

Elem	Zn2062
Units	ppm
Avg	.6725225
Stddev	.0006898
%RSD	.1025646

#1	.6730103
#2	.6720348

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150867-c-1-a Acquired: 9/4/2018 22:34:32 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1729.619	1011.432	9415.298	4432.162
Stddev	5.785	5.539	23.242	28.761
%RSD	.3344634	.5476517	.2468535	.6489064
#1	1733.710	1015.348	9431.732	4452.498
#2	1725.529	1007.515	9398.863	4411.825

Sample Name: 500-150867-c-2-a Acquired: 9/4/2018 22:38:29 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0022584	15.67820	.0177480	.0131272	.1801232	.0003829	-.001558
Stddev	.0000212	.03392	.0000943	.0020065	.0000467	.0002604	.000687
%RSD	.9372065	.2163679	.5310979	15.28477	.0259222	68.00581	44.08246
#1	.0022734	15.70218	.0178147	.0145460	.1801562	.0001988	-.001072
#2	.0022435	15.65421	.0176814	.0117084	.1800902	.0005670	-.002044

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	37.14391	.0008195	.0283245	.0041112	.0181847	.0278364	11.47024
Stddev	.05282	.0000243	.0010121	.0009507	.0000933	.0001188	.02049
%RSD	.1422143	2.962788	3.573040	23.12346	.5131791	.4267061	.1786477
#1	37.10656	.0008023	.0276089	.0047835	.0181187	.0277524	11.45575
#2	37.18126	.0008367	.0290402	.0034390	.0182507	.0279204	11.48473

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	74.33710	.2051535	18.78669	.2791920	.0112692	159.0623	.0380160
Stddev	.10200	.0000052	.03239	.0009158	.0005840	.6377	.0050022
%RSD	.1372106	.0025330	.1724021	.3280067	5.182486	.4009193	13.15811
#1	74.40922	.2051498	18.76379	.2785444	.0116822	159.5133	.0415531
#2	74.26498	.2051572	18.80959	.2798395	.0108562	158.6114	.0344790

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150867-c-2-a Acquired: 9/4/2018 22:38:29 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0903762	.0259314	.0024209	34.88593	.0132809	.3171940	.2470842
Stddev	.0043344	.0027441	.0003451	3.56231	.0027208	.0003186	.0001963
%RSD	4.795999	10.58206	14.25387	10.21132	20.48678	.1004557	.0794434
#1	.0934411	.0278717	.0026649	37.40487	.0152048	.3169686	.2472230
#2	.0873113	.0239910	.0021769	32.36699	.0113569	.3174193	.2469454

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000845	.0240180	.1905218
Stddev	.000494	.0003916	.0152424
%RSD	58.50942	1.630383	8.000321
#1	-.000495	.0237411	.2012998
#2	-.001195	.0242949	.1797438

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1828.560	1050.901	9188.224	4382.802
Stddev	110.252	71.720	9.916	10.754
%RSD	6.029430	6.824626	.1079231	.2453665
#1	1750.601	1000.188	9195.235	4375.198
#2	1906.520	1101.615	9181.212	4390.406

Sample Name: 500-150867-c-3-a Acquired: 9/4/2018 22:42:34 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022830	9.170024	.0057829	.0186928	.2329524	.0000447	-.001624
Stddev	.0006315	.013102	.0019841	.0017181	.0004320	.0001512	.000306
%RSD	27.66113	.1428779	34.31030	9.191425	.1854492	337.9200	18.86511
#1	.0018365	9.179289	.0071859	.0199077	.2326470	-.000062	-.001841
#2	.0027296	9.160760	.0043799	.0174779	.2332579	.000152	-.001408

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.96101	.0009642	.0155898	.0022171	.0092987	.0135055	6.124302
Stddev	.09252	.0000901	.0021350	.0001795	.0006180	.0004855	.017245
%RSD	.1815585	9.346498	13.69453	8.095133	6.645785	3.594764	.2815776
#1	50.89559	.0009005	.0170994	.0023440	.0088617	.0138487	6.112108
#2	51.02644	.0010279	.0140802	.0020902	.0097357	.0131621	6.136496

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	64.13359	.2190720	19.20554	.2850145	.0051126	126.2364	.0227824
Stddev	.07645	.0001423	.09999	.0004884	.0005799	.0287	.0036593
%RSD	.1192113	.0649376	.5206508	.1713662	11.34243	.0227352	16.06182
#1	64.07953	.2189714	19.13483	.2846692	.0055226	126.2161	.0253699
#2	64.18765	.2191726	19.27625	.2853599	.0047025	126.2567	.0201949

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 500-150867-c-3-a Acquired: 9/4/2018 22:42:34 Type: Unk
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0385774	.0177336	.0004241	25.28898	.0076240	.6719013	.1789787
Stddev	.0021410	.0007150	.0000177	2.71948	.0005064	.0003680	.0034339
%RSD	5.549880	4.031855	4.174530	10.75362	6.642737	.0547684	1.918582
#1	.0400913	.0182391	.0004367	27.21194	.0072659	.6721615	.1814068
#2	.0370635	.0172280	.0004116	23.36602	.0079821	.6716411	.1765506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0002580	.0123762	.2327696
Stddev	.0000796	.0002010	.0206272
%RSD	30.83390	1.623997	8.861636
#1	.0002018	.0122341	.2473553
#2	.0003143	.0125183	.2181840
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1866.681	1063.215	9221.352	4356.021
Stddev	118.238	76.164	10.737	1.059
%RSD	6.334117	7.163526	.1164361	.0243106
#1	1783.075	1009.359	9213.760	4355.272
#2	1950.288	1117.070	9228.945	4356.770

Sample Name: 500-150628-e-3-a@5 Acquired: 9/4/2018 22:46:39 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0004233	36.81071	.0232772	.0391349	.1078565	.0021713	.0013671
Stddev	.0003386	.16420	.0007508	.0002345	.0006022	.0000965	.0004735
%RSD	80.00780	.4460557	3.225399	.5991287	.5582974	4.443708	34.63429
#1	.0001838	36.69461	.0227463	.0393007	.1074307	.0021031	.0010323
#2	.0006627	36.92682	.0238080	.0389691	.1082823	.0022395	.0017020

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	180.1078	.0011740	.1564570	.0308251	.0596378	.0457004	60.53723
Stddev	1.4941	.0002540	.0025571	.0001670	.0008766	.0003988	.34274
%RSD	.8295396	21.63559	1.634390	.5417823	1.469797	.8727141	.5661629
#1	179.0513	.0009944	.1546488	.0307070	.0590180	.0454184	60.29488
#2	181.1643	.0013536	.1582651	.0309431	.0602576	.0459825	60.77959

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	8.191285	.0615978	88.75565	1.493240	.0032742	2.336510	.0767000
Stddev	.024155	.0008596	.42501	.006685	.0003183	.003857	.0000196
%RSD	.2948897	1.395473	.4788564	.4476870	9.722192	.1650687	.0255370
#1	8.174205	.0609899	88.45512	1.488513	.0034993	2.333782	.0766862
#2	8.208365	.0622056	89.05618	1.497967	.0030491	2.339237	.0767139

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-150628-e-3-a@5 Acquired: 9/4/2018 22:46:39 Type: Unk
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0415714	.0015686	.0010909	.4298160	.0051160	.1030876	.3644720
Stddev	.0010216	.0018705	.0023427	.0009782	.0022693	.0000677	.0005616
%RSD	2.457447	119.2419	214.7446	.2275796	44.35690	.0656653	.1540955
#1	.0408490	.0028912	.0027474	.4305077	.0035113	.1030397	.3640749
#2	.0422938	.0002460	-.000566	.4291243	.0067206	.1031354	.3648692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0000800	.0618509	.2025157
Stddev	.0025764	.0004207	.0014006
%RSD	3220.094	.6802235	.6915893
#1	-.001742	.0621484	.2015253
#2	.001902	.0615534	.2035060
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1754.303	1014.673	9393.626	4400.470
Stddev	.439	.572	6.043	5.387
%RSD	.0250312	.0563661	.0643359	.1224088
#1	1754.613	1014.268	9397.899	4404.279
#2	1753.992	1015.077	9389.353	4396.661

Sample Name: 500-150602-a-1-a@50 Acquired: 9/4/2018 22:50:38 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009680	-.033289	.0007062	.0008018	.0002952	.0000067	.0006656
Stddev	.0000001	.006195	.0005698	.0006125	.0000651	.0001721	.0010383
%RSD	.0111313	18.60900	80.69091	76.39068	22.05458	2558.577	155.9925

#1	.0009679	-.028909	.0011091	.0012349	.0003412	.0001284	.0013999
#2	.0009681	-.037670	.0003032	.0003687	.0002491	-.000115	-.000069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.609678	.0000282	.0084331	-.000117	.0001877	-.001126	.1036623
Stddev	.004607	.0001166	.0004848	.000119	.0006466	.000192	.0125382
%RSD	.2862083	412.8199	5.748513	101.3513	344.5918	17.05152	12.09523

#1	1.606420	-.000054	.0087759	-.000033	-.000270	-.001261	.1125281
#2	1.612935	.000111	.0080903	-.000201	.000645	-.000990	.0947964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.417741	.0006912	.6791668	.0006125	.0003904	8.984246	-.000710
Stddev	.005111	.0001396	.0011450	.0001503	.0002614	.008992	.004062
%RSD	.3604827	20.19005	.1685936	24.53998	66.94622	.1000905	572.0733

#1	1.414127	.0005925	.6799764	.0007188	.0002056	8.977887	.002162
#2	1.421354	.0007898	.6783571	.0005062	.0005752	8.990604	-.003582

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150602-a-1-a@50 Acquired: 9/4/2018 22:50:38 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001885	-.001355	.0024676	.1519402	.0006957	.9992293	.0004887
Stddev	.001742	.000108	.0003334	.0219849	.0005560	.0022649	.0000497
%RSD	92.43339	7.964000	13.51007	14.46945	79.91041	.2266648	10.17260

#1	-.003116	-.001279	.0022319	.1674859	.0010889	.9976278	.0005239
#2	-.000653	-.001432	.0027033	.1363946	.0003026	1.000831	.0004536

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0007885	.0002829	.0017417
Stddev	.0006319	.0004739	.0001950
%RSD	80.14306	167.5339	11.19537

#1	.0003416	.0006179	.0018796
#2	.0012353	-.000052	.0016038

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2215.517	1206.025	9714.026	4374.933
Stddev	316.133	201.093	43.517	.919
%RSD	14.26905	16.67402	.4479863	.0210144

#1	1991.977	1063.831	9744.797	4374.283
#2	2439.057	1348.219	9683.254	4375.583

Sample Name: 150602-a-1-aSD@250 Acquired: 9/4/2018 22:54:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008193	-.017322	-.000573	.0001685	-.000149	-.000100	.0018438
Stddev	.0001110	.015409	.000717	.0002414	.000034	.000004	.0002564
%RSD	13.54897	88.95601	125.1280	143.3342	22.66221	4.338699	13.90677

#1	.0008978	-.006426	-.001080	.0003392	-.000173	-.000097	.0016625
#2	.0007408	-.028217	-.000066	-.000002	-.000125	-.000103	.0020251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3350049	.0003842	.0124885	-.000471	.0002188	-.001472	.0835881
Stddev	.0042040	.0002382	.0129297	.000386	.0008180	.000132	.0138540
%RSD	1.254901	62.00664	103.5328	81.98355	373.8965	8.973997	16.57410

#1	.3320323	.0005527	.0033458	-.000198	-.000360	-.001565	.0933844
#2	.3379776	.0002158	.0216311	-.000744	.000797	-.001379	.0737919

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3074394	.0005829	.1371964	.0002160	.0001550	1.856818	-.000111
Stddev	.0082433	.0004100	.0066739	.0004480	.0000185	.006696	.000385
%RSD	2.681278	70.33847	4.864525	207.4473	11.94306	.3606388	348.6298

#1	.3016105	.0002930	.1324772	-.000101	.0001419	1.852083	-.000383
#2	.3132683	.0008728	.1419156	.000533	.0001680	1.861553	.000162

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150602-a-1-aSD@250 Acquired: 9/4/2018 22:54:47 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002027	.0000320	-.000788	.0423641	-.000936	.2075956	.0000708
Stddev	.000389	.0002410	.001179	.0011231	.000053	.0003510	.0000447
%RSD	19.19693	753.1167	149.6301	2.651064	5.621195	.1690837	63.21421

#1	-.001752	-.000138	-.001622	.0415699	-.000973	.2078438	.0001024
#2	-.002302	.000202	.000046	.0431582	-.000899	.2073474	.0000392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000949	-.000005	.0012119
Stddev	.000501	.000084	.0002497
%RSD	52.84259	1849.234	20.59903

#1	-.001304	.000055	.0010354
#2	-.000594	-.000064	.0013885

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2011.327	1080.449	9779.634	4362.456
Stddev	16.919	6.947	16.715	3.365
%RSD	.8411736	.6429478	.1709136	.0771419

#1	1999.364	1075.537	9767.815	4364.836
#2	2023.291	1085.361	9791.453	4360.077

Sample Name: CCV Acquired: 9/4/2018 23:02:59 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4705105	51.28753	.5128774	.4801243	.4697319	.4693034
Stddev	.0012595	.04020	.0032092	.0000637	.0012946	.0049020
%RSD	.2676769	.0783869	.6257238	.0132653	.2756121	1.044522

#1	.4696200	51.25910	.5106082	.4800793	.4706473	.4658371
#2	.4714011	51.31595	.5151466	.4801694	.4688164	.4727696

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5034455	26.55761	.5004072	F -.053867	.5014361	.4791913
Stddev	.0005568	.19733	.0023209	.016473	.0005860	.0010334
%RSD	.1105909	.7430096	.4638042	30.58068	.1168540	.2156495

#1	.5038392	26.41808	.4987661	-.065515	.5010218	.4799220
#2	.5030518	26.69714	.5020484	-.042219	.5018505	.4784606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4923498	25.25715	47.58094	3.767799	24.75210	4.642423
Stddev	.0006382	.20712	.26809	.020833	.09507	.028261
%RSD	.1296164	.8200333	.5634433	.5529244	.3840787	.6087520

#1	.4918985	25.11070	47.77051	3.782531	24.68488	4.622440
#2	.4928010	25.40361	47.39137	3.753068	24.81932	4.662406

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/4/2018 23:02:59 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4823633	23.02567	.4888458	.4880942	.4570829	.4887274
Stddev	.0015631	.05247	.0022016	.0020505	.0050011	.0023292
%RSD	.3240477	.2278638	.4503698	.4201085	1.094128	.4765811

#1	.4812580	23.06277	.4872890	.4866443	.4535467	.4870804
#2	.4834686	22.98857	.4904026	.4895442	.4606192	.4903744

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4193792	.5134667	.5037610	.4968501	.4905182	4.768250
Stddev	.0018301	.0001243	.0012691	.0018220	.0032543	.020826
%RSD	.4363787	.0242171	.2519356	.3667167	.6634462	.4367543

#1	.4180851	.5133787	.5028636	.4955617	.4882170	4.753524
#2	.4206732	.5135546	.5046584	.4981385	.4928194	4.782975

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5033576
Stddev	.0009795
%RSD	.1945915

#1	.5026650
#2	.5040502

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 23:02:59 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1858.621	1048.804	9442.012	4327.286
Stddev	3.213	3.614	35.196	10.580
%RSD	.1728755	.3445511	.3727616	.2444868
#1	1860.893	1051.359	9466.900	4334.767
#2	1856.349	1046.249	9417.125	4319.805

Sample Name: 150602-a-1-b du@50 Acquired: 9/4/2018 22:58:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010201	-.025534	.0023475	.0006613	.0003255	.0002763	-.000234
Stddev	.0001777	.006711	.0031526	.0006030	.0000383	.0000959	.001086
%RSD	17.42374	26.28093	134.2942	91.19577	11.75180	34.71682	463.1676

#1	.0011458	-.030279	.0001183	.0010877	.0003526	.0003442	.000533
#2	.0008944	-.020789	.0045768	.0002348	.0002985	.0002085	-.001002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.628675	.0002547	.0049730	-.000287	-.000184	-.001277	.0358648
Stddev	.004555	.0001400	.0081326	.000131	.000078	.000120	.0459412
%RSD	.2796774	54.98553	163.5355	45.68104	42.20332	9.394106	128.0955

#1	1.625454	.0003537	.0107237	-.000379	-.000239	-.001362	.0033795
#2	1.631896	.0001557	-.000778	-.000194	-.000129	-.001192	.0683502

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.430544	.0006135	.6876821	-.000116	.0003943	9.038861	-.001426
Stddev	.024965	.0000300	.0123566	.000139	.0000483	.005834	.003785
%RSD	1.745157	4.887799	1.796840	119.5420	12.23911	.0645456	265.4329

#1	1.412891	.0006347	.6789447	-.000018	.0003601	9.042987	.001251
#2	1.448198	.0005923	.6964194	-.000214	.0004284	9.034736	-.004103

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150602-a-1-b du@50 Acquired: 9/4/2018 22:58:50 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001801	-.000731	-.000227	.1330801	.0005579	1.005450	.0000195
Stddev	.000194	.000499	.001975	.0253298	.0009549	.000156	.0000415
%RSD	10.75873	68.27637	869.2373	19.03352	171.1656	.0154928	212.6282

#1	-.001664	-.001085	.001169	.1509910	-.000117	1.005560	.0000489
#2	-.001938	-.000378	-.001623	.1151692	.001233	1.005340	-.000010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0003574	.0002869	.0018726
Stddev	.0015488	.0002161	.0002552
%RSD	433.3410	75.31530	13.62709

#1	-.000738	.0001341	.0020531
#2	.001453	.0004397	.0016922

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2209.678	1213.802	9721.890	4347.638
Stddev	292.281	191.891	2.441	8.935
%RSD	13.22733	15.80905	.0251066	.2055059

#1	2003.004	1078.115	9723.616	4341.320
#2	2416.352	1349.489	9720.164	4353.956

Sample Name: CCB Acquired: 9/4/2018 23:06:52 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0006028	-.031194	.0018250	-.000026	-.000284	-.000069	-.000167
Stddev	.0001348	.006527	.0019590	.000055	.000014	.000013	.000052
%RSD	22.36115	20.92303	107.3440	211.8205	5.022079	18.15238	31.37668
#1	.0005075	-.026579	.0032102	-.000065	-.000295	-.000060	-.000204
#2	.0006981	-.035809	.0004397	.000013	-.000274	-.000078	-.000130

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	-.002989	.0002011	.0013228	-.000289	-.000223	-.001569	.0371075
Stddev	.004367	.0001503	.0012104	.000076	.000503	.000025	.0158117
%RSD	146.0818	74.75249	91.50794	26.23335	225.8533	1.592673	42.61064
#1	-.006077	.0000948	.0021787	-.000235	-.000579	-.001587	.0482881
#2	.000099	.0003074	.0004669	-.000343	.000133	-.001551	.0259269

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	.0539354	.0008012	-.001446	.0004508	.0005498	-.002816	-.000592
Stddev	.0085187	.0000719	.006244	.0004477	.0005937	.004256	.000468
%RSD	15.79418	8.971850	431.8863	99.32855	107.9720	151.1405	79.05505
#1	.0599590	.0007503	.002969	.0007673	.0009696	.000194	-.000261
#2	.0479118	.0008520	-.005861	.0001342	.0001300	-.005825	-.000922

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: CCB Acquired: 9/4/2018 23:06:52 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006035	.0055199	-.002415	.0021190	.0005186	.0000192	.0005181
Stddev	.0018976	.0007397	.000726	.0014949	.0007688	.0000044	.0001390
%RSD	314.4112	13.39990	30.05071	70.54625	148.2478	23.03222	26.82040
#1	-.000738	.0060429	-.002928	.0010620	.0010622	.0000161	.0006164
#2	.001945	.0049969	-.001902	.0031761	-.000025	.0000224	.0004199

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0018254	.0002780	-.000102
Stddev	.0012717	.0002856	.000077
%RSD	69.66508	102.7631	75.73830
#1	.0027247	.0000760	-.000157
#2	.0009262	.0004799	-.000048

Check ? Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2045.296	1109.827	9822.467	4373.302
Stddev	52.313	30.865	17.287	6.701
%RSD	2.557714	2.781067	.1759934	.1532276
#1	2008.305	1088.002	9834.690	4368.564
#2	2082.287	1131.652	9810.243	4378.041

Sample Name: 150602-a-1-c ms@50 Acquired: 9/4/2018 23:10:57 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015837	.0006285	.0041359	.0168177	.0399282	.0010091	.0099906
Stddev	.0003035	.0152687	.0016552	.0039070	.0000145	.0000287	.0030163
%RSD	19.16434	2429.412	40.01893	23.23135	.0363643	2.844482	30.19167

#1	.0017983	-.010168	.0053063	.0195804	.0399385	.0010294	.0121235
#2	.0013691	.011425	.0029656	.0140551	.0399179	.0009888	.0078578

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.830283	.0010276	.0108045	.0088192	.0045280	.0037011	.0953715
Stddev	.013864	.0000607	.0027472	.0019436	.0006402	.0001817	.0324393
%RSD	.7574839	5.906149	25.42617	22.03827	14.13859	4.908114	34.01364

#1	1.820480	.0010706	.0088619	.0101935	.0049807	.0038295	.0724334
#2	1.840087	.0009847	.0127470	.0074449	.0040753	.0035726	.1183096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.589008	.0106191	.8470784	.0102186	.0179520	8.986967	.0064403
Stddev	.004461	.0002942	.0008058	.0001124	.0043797	.007596	.0033605
%RSD	.2807308	2.770244	.0951214	1.100025	24.39692	.0845228	52.17887

#1	1.592163	.0108271	.8476481	.0101392	.0210489	8.992338	.0088166
#2	1.585854	.0104110	.8465086	.0102981	.0148551	8.981596	.0040641

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 150602-a-1-c ms@50 Acquired: 9/4/2018 23:10:57 Type: Unk

Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008352	.0095236	.0021260	.0859571	.0178221	1.007007	.0208422
Stddev	.0007567	.0032831	.0005567	.0173657	.0036665	.003153	.0000043
%RSD	90.60764	34.47304	26.18593	20.20281	20.57255	.3131532	.0207906

#1	.0003001	.0118451	.0025196	.0982365	.0204146	1.009237	.0208452
#2	.0013703	.0072021	.0017323	.0736776	.0152295	1.004777	.0208391

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0023573	.0102303	.0113395
Stddev	.0000234	.0002930	.0022207
%RSD	.9908447	2.864462	19.58376

#1	.0023738	.0104375	.0129098
#2	.0023407	.0100231	.0097692

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2228.920	1221.142	9792.714	4369.266
Stddev	289.768	191.835	11.028	8.948
%RSD	13.00038	15.70947	.1126137	.2047968

#1	2024.023	1085.494	9784.916	4375.593
#2	2433.816	1356.789	9800.512	4362.939

Sample Name: CCV Acquired: 9/4/2018 23:15:07 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4673587	51.28286	.5074413	.4785494	.4685115	.4689083
Stddev	.0009956	.26300	.0069434	.0021938	.0016736	.0036978
%RSD	.2130188	.5128385	1.368319	.4584198	.3572093	.7886001
#1	.4680627	51.09689	.5025315	.4769982	.4673282	.4662936
#2	.4666548	51.46883	.5123510	.4801007	.4696949	.4715231

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
Value
Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5042762	26.61973	.5010161	F -.044705	.5006040	.4814331
Stddev	.0048610	.15679	.0001855	.014310	.0019868	.0034511
%RSD	.9639487	.5889853	.0370282	32.00990	.3968847	.7168479
#1	.5008390	26.50886	.5008849	-.034586	.4991991	.4789928
#2	.5077135	26.73059	.5011473	-.054823	.5020089	.4838734

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Fail** **Chk Pass** **Chk Pass**
Value
Range **.5000000**
 -10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4860850	25.37043	47.42554	3.730933	24.74946	4.662066
Stddev	.0001990	.12287	.03125	.003456	.09190	.023243
%RSD	.0409456	.4843156	.0658842	.0926413	.3713305	.4985479
#1	.4859443	25.28355	47.40344	3.728489	24.68447	4.645631
#2	.4862258	25.45732	47.44763	3.733377	24.81444	4.678502

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
Value
Range

Sample Name: CCV Acquired: 9/4/2018 23:15:07 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4848351	22.65566	.4887601	.4853139	.4572206	.4870824
Stddev	.0023846	.00773	.0012853	.0051634	.0010688	.0012264
%RSD	.4918398	.0341171	.2629698	1.063921	.2337606	.2517756

#1	.4831489	22.65020	.4878513	.4816628	.4579764	.4862152
#2	.4865213	22.66113	.4896690	.4889649	.4564649	.4879495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4057620	.5137626	.5014086	.4937369	.4848385	4.732094
Stddev	.0023804	.0017575	.0001582	.0005389	.0004577	.002730
%RSD	.5866585	.3420865	.0315425	.1091472	.0943982	.0576955

#1	.4040788	.5125199	.5015205	.4941180	.4845149	4.734025
#2	.4074452	.5150054	.5012968	.4933558	.4851621	4.730164

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5052050
Stddev	.0010710
%RSD	.2119906

#1	.5044477
#2	.5059623

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/4/2018 23:15:07 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1871.584	1056.799	9496.523	4326.785
Stddev	7.351	1.652	.331	8.231
%RSD	.3927613	.1562770	.0034825	.1902246
#1	1876.782	1057.966	9496.757	4332.605
#2	1866.386	1055.631	9496.289	4320.965

Sample Name: CCB Acquired: 9/4/2018 23:18:59 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005834	-.039989	.0007867	-.000340	-.000180	.0003151	.0016003
Stddev	.0003603	.004290	.0015032	.000035	.000093	.0001335	.0000035
%RSD	61.75312	10.72832	191.0728	10.30135	51.75568	42.35313	.2213807

#1	.0003286	-.043023	.0018496	-.000315	-.000114	.0002208	.0016028
#2	.0008381	-.036956	-.000276	-.000365	-.000246	.0004095	.0015978

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004568	.0000153	.0016340	-.000045	-.000043	-.001611	.0360936
Stddev	.006515	.0000550	.0088032	.000085	.000034	.000141	.0187436
%RSD	142.6223	360.1305	538.7480	187.5237	79.81614	8.753769	51.93044

#1	.000039	.0000542	.0078588	-.000106	-.000019	-.001710	.0228399
#2	-.009175	-.000024	-.004591	.000015	-.000068	-.001511	.0493473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467468	.0008554	.0152258	-.000066	.0005395	-.006996	-.000450
Stddev	.0017264	.0000060	.0216525	.000578	.0003665	.001544	.000366
%RSD	3.693116	.7022022	142.2096	882.6713	67.93347	22.07175	81.51239

#1	.0479676	.0008511	.0305364	.000343	.0007987	-.005904	-.000190
#2	.0455261	.0008596	-.000085	-.000474	.0002804	-.008088	-.000709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 9/4/2018 23:18:59 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.001605	.0040460	.0020762	-0.002523	.0002792	.0000273	.0004048
Stddev	.000403	.0004764	.0013520	.002600	.0012856	.0000152	.0000162
%RSD	25.11285	11.77390	65.12159	103.0832	460.5108	55.55928	3.992558
#1	-0.001320	.0043828	.0011201	-0.004362	.0011882	.0000381	.0003934
#2	-0.001890	.0037091	.0030322	-0.000684	-0.000630	.0000166	.0004162

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-0.000152	.0005010	-0.000261
Stddev	.001798	.0001344	.000212
%RSD	1186.577	26.81405	81.19294
#1	-0.001423	.0004060	-0.000111
#2	.001120	.0005960	-0.000411

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2038.866	1108.102	9859.653	4372.037
Stddev	32.752	17.779	3.817	.214
%RSD	1.606392	1.604469	.0387084	.0048845
#1	2015.707	1095.530	9862.352	4372.188
#2	2062.026	1120.674	9856.954	4371.886

Sample Name: CCVL Acquired: 9/4/2018 23:23:04 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051372	.1763169	.0117964	.0463624	.0093425	.0037807
Stddev	.0004568	.0043995	.0025621	.0003267	.0000357	.0000341
%RSD	8.892204	2.495239	21.71922	.7045615	.3818170	.9017066

#1	.0048142	.1794278	.0136081	.0465934	.0093677	.0038048
#2	.0054602	.1732059	.0099847	.0461314	.0093172	.0037566

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0475142	.2110526	.0018568	F .0010893	.0044337	.0098942
Stddev	.0007467	.0002396	.0001476	.0031911	.0002043	.0001397
%RSD	1.571525	.1135093	7.947068	292.9442	4.606829	1.412030

#1	.0480422	.2108832	.0017525	.0033458	.0042893	.0097955
#2	.0469862	.2112220	.0019612	-.001167	.0045781	.0099930

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078448	.2484873	.4954955	.0107110	.0937414	.0091446
Stddev	.0005078	.0291771	.0041770	.0002314	.0224698	.0000516
%RSD	6.472701	11.74191	.8429887	2.160686	23.97003	.5644552

#1	.0082038	.2278560	.4925420	.0108746	.0778528	.0091811
#2	.0074857	.2691187	.4984491	.0105474	.1096300	.0091081

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 9/4/2018 23:23:04 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099457	.9139062	.0095919	F .0026675	.0189877	.0090068
Stddev	.0005510	.0015954	.0020050	.0003101	.0004923	.0000197
%RSD	5.540449	.1745726	20.90294	11.62548	2.592890	.2183415

#1	.0095561	.9150344	.0110096	.0024482	.0186395	.0089929
#2	.0103354	.9127781	.0081741	.0028867	.0193358	.0090207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1546167	.0413690	.0053250	.0050230	.0100475	.0045962
Stddev	.0035431	.0016240	.0000029	.0001595	.0035468	.0002373
%RSD	2.291530	3.925748	.0545040	3.175764	35.30013	5.163249

#1	.1521113	.0425174	.0053271	.0049102	.0075395	.0047640
#2	.1571220	.0402207	.0053230	.0051358	.0125554	.0044284

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0204620
Stddev	.0000211
%RSD	.1030173

#1	.0204769
#2	.0204471

Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 9/4/2018 23:23:04 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.488	1102.610	9879.456	4380.697
Stddev	7.362	2.498	29.977	24.949
%RSD	.3614834	.2265216	.3034325	.5695154
#1	2031.283	1100.844	9858.258	4363.055
#2	2041.694	1104.376	9900.653	4398.338

Sample Name: LRC Acquired: 9/4/2018 23:27:08 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007963	.0040344	5.106524	4.788046	4.692682	4.646615
Stddev	.0007488	.0005912	.000711	.007223	.033276	.023824
%RSD	94.04459	14.65298	.0139201	.1508630	.7091035	.5127226

#1	.0002668	.0044524	5.107027	4.782939	4.669152	4.629768
#2	.0013258	.0036164	5.106021	4.793154	4.716211	4.663461

Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.875117	.0421945	4.873677	F -.045705	4.987723	4.813922
Stddev	.001458	.0002422	.002844	.001381	.001838	.015816
%RSD	.0299059	.5740588	.0583591	3.021722	.0368422	.3285553

#1	4.876148	.0423658	4.871666	-.044728	4.989023	4.802738
#2	4.874086	.0420232	4.875688	-.046681	4.986424	4.825106

Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				5.000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.769905	.0825716	.0046189	4.787857	-.028288	4.708285
Stddev	.002217	.0001346	.0108177	.037099	.021042	.027669
%RSD	.0464697	.1630654	234.2064	.7748536	74.38397	.5876577

#1	4.771472	.0824764	.0122682	4.761624	-.013409	4.688720
#2	4.768337	.0826669	-.003030	4.814090	-.043167	4.727849

Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: LRC Acquired: 9/4/2018 23:27:08 Type: QC
 Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.131235	.0103702	4.884756	4.772094	4.842907	4.893448
Stddev	.001976	.0007729	.000608	.001541	.023154	.009964
%RSD	.0385019	7.453407	.0124371	.0322860	.4780976	.2036169

#1	5.129838	.0098236	4.885186	4.771005	4.826535	4.886402
#2	5.132632	.0109167	4.884327	4.773184	4.859279	4.900493

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 5.927309	5.058508	4.616311	4.894761	4.874009	4.762908
Stddev	.037247	.005105	.013133	.011579	.007080	.013211
%RSD	.6283886	.1009101	.2844825	.2365616	.1452643	.2773709

#1	5.900971	5.054898	4.625597	4.886573	4.869002	4.753566
#2	5.953646	5.062117	4.607024	4.902948	4.879015	4.772250

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	5.000000					
Range	10.00000%					

Elem	Zn2062
Units	ppm
Avg	4.991636
Stddev	.010215
%RSD	.2046400

#1	4.998859
#2	4.984413

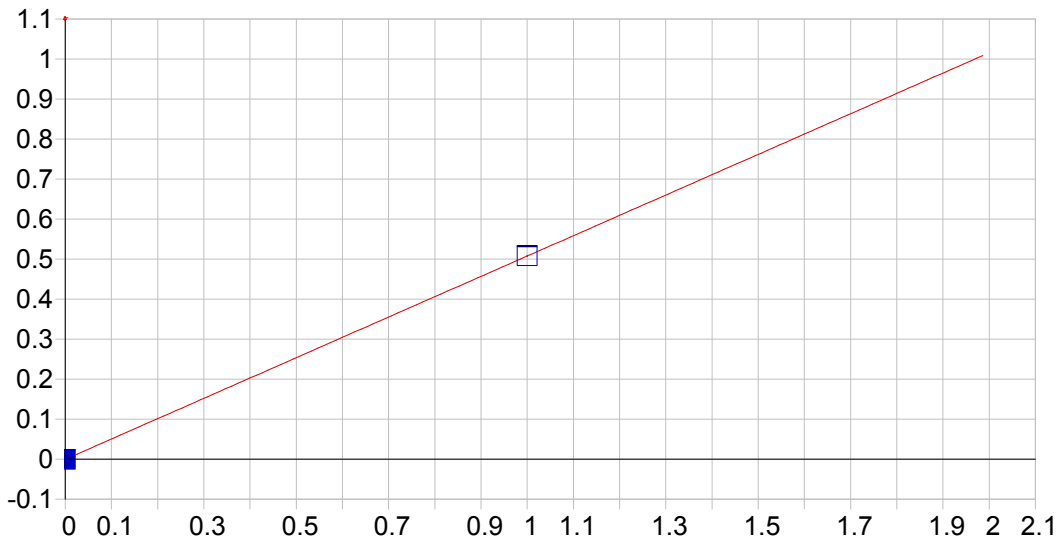
Check ?	Chk Pass
Value	
Range	

Sample Name: LRC Acquired: 9/4/2018 23:27:08 Type: QC
Method: P6090418AAA Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1965.350	1050.294	9747.886	4355.281
Stddev	1.813	1.625	12.727	4.252
%RSD	.0922502	.1547483	.1305626	.0976245
#1	1966.632	1051.443	9738.887	4358.288
#2	1964.068	1049.145	9756.886	4352.275

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
1	---	---	---	---	Cal	---	---	---	---	---
2	1	1	1	1	QC	S1	P6090518A	1	☒	S1
3	2	1	2	1	QC	S2		1	☒	S2
4	3	1	3	1	QC	ICV		1	☒	ICV
5	4	1	4	1	QC	ICB		1	☒	ICB
6	5	1	5	1	QC	ICVL		1	☒	CCVLL
7	6	1	6	1	QC	CRI		1	☒	CRI
8	7	1	7	1	QC	ICSA		1	☒	ICSA
9	8	1	8	1	QC	ICSAB		1	☒	ICSAB
10	109	2	1	5	QC	ICSAB		1	☒	ICSAB
11	9	1	9	1	QC	CCV		1	☒	CCV
12	10	1	10	1	QC	CCB		1	☒	CCB
13	11	1	11	1	QC	MRL		1	☒	CCVLL
14	12	1	12	1	Unk	lcs 500-448202/2-a		1	☒	RLTABLE
15	13	1	1	2	Unk	lcs 500-448202/2-a@2		1	☒	RLTABLE
16	14	1	2	2	Unk	500-150711-c-1-b@5		1	☒	RLTABLE
17	15	1	3	2	Unk	500-150652-a-1-b@5		1	☒	RLTABLE
18	16	1	4	2	Unk	500-150652-a-3-b@5		1	☒	RLTABLE
19	17	1	5	2	Unk	mb 500-448202/1-a		1	☒	RLTABLE
20	18	1	6	2	Unk	500-150814-a-11-b		1	☒	RLTABLE
21	19	1	7	2	Unk	500-150814-a-12-b		1	☒	RLTABLE
22	20	1	8	2	Unk	500-150814-a-13-b		1	☒	RLTABLE
23	21	1	9	2	Unk	500-150814-a-14-b		1	☒	RLTABLE
24	22	1	10	2	QC	CCV		1	☒	CCV
25	23	1	11	2	QC	CCB		1	☒	CCB
26	35	1	11	3	QC	CCVL		1	☒	CCVLL
27	24	1	12	2	Unk	500-150814-a-15-b		1	☒	RLTABLE
28	25	1	1	3	Unk	500-150867-a-4-b		1	☒	RLTABLE
29	26	1	2	3	Unk	500-150873-a-1-b		1	☒	RLTABLE
30	27	1	3	3	Unk	500-150670-a-1-a		1	☒	RLTABLE
31	28	1	4	3	Unk	500-150670-a-2-a		1	☒	RLTABLE
32	29	1	5	3	Unk	mb 500-448309/1-a		1	☒	RLTABLE
33	30	1	6	3	Unk	lcs 500-448309/2-a		1	☒	RLTABLE
34	31	1	7	3	Unk	500-150745-b-1-a@10		1	☒	RLTABLE
35	36	1	12	3	Unk	lcs 500-448309/2-a@2		1	☒	RLTABLE
36	32	1	8	3	QC	CCV		1	☒	CCV
37	33	1	9	3	QC	CCB		1	☒	CCB
38	34	1	10	3	QC	CCVL		1	☒	CCVLL
39	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
40	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
41	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
42	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
43	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
44	Rinse	---	---	---	Rinse	Rinse	---	---	---	---

	Fail Action
1	None
2	None
3	None
4	None
5	None
6	None
7	None
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12	None
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44	---

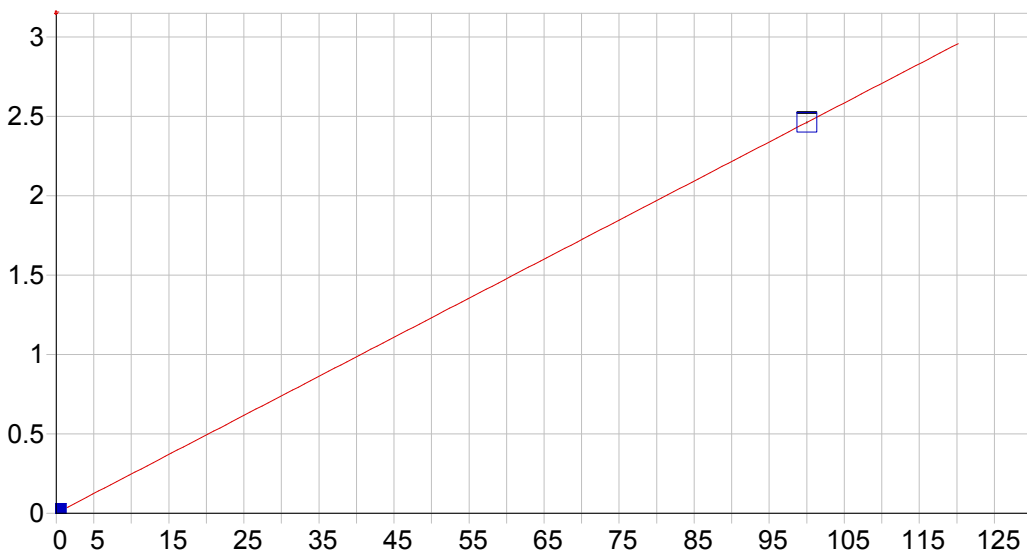


Ag 328.068 {103}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000403 Re-Slope: 1.000000
 A1 (Gain): 0.508106 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000784
 Predicted MQL: 0.002615

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00040	.000	1
S1	1.0000	1.0000	.000	.000	.50770	.001	1



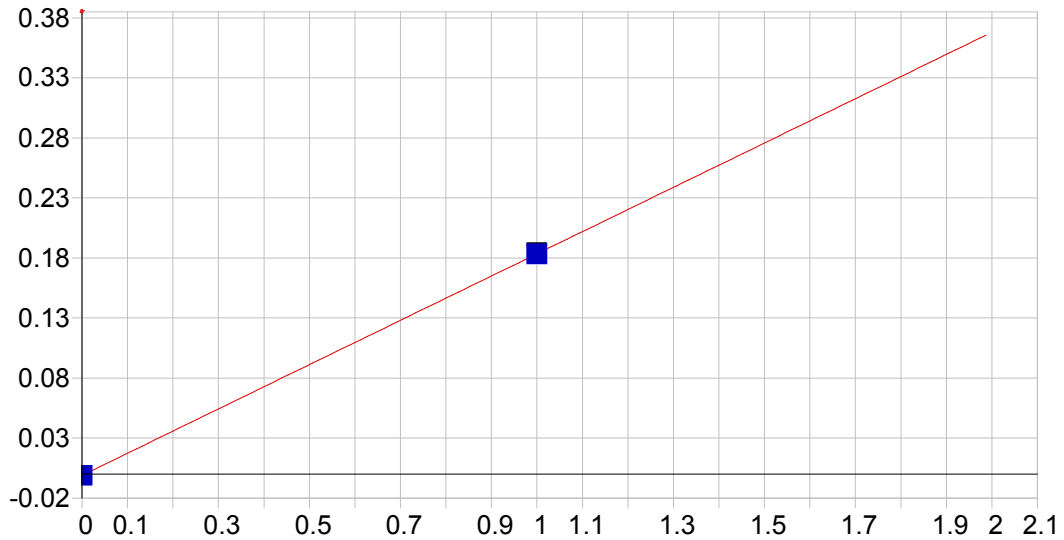
Al 308.215 {109}

Date of Fit: 9/5/2018 12:11:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001331 Re-Slope: 1.000000
 A1 (Gain): 0.024611 Y-int: 0.000000
 A2 (Curvature): 0.000000

n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.024032
 Predicted MQL: 0.080106

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00133	.000	1
S2	100.00	100.00	.000	.000	2.4624	.004	1

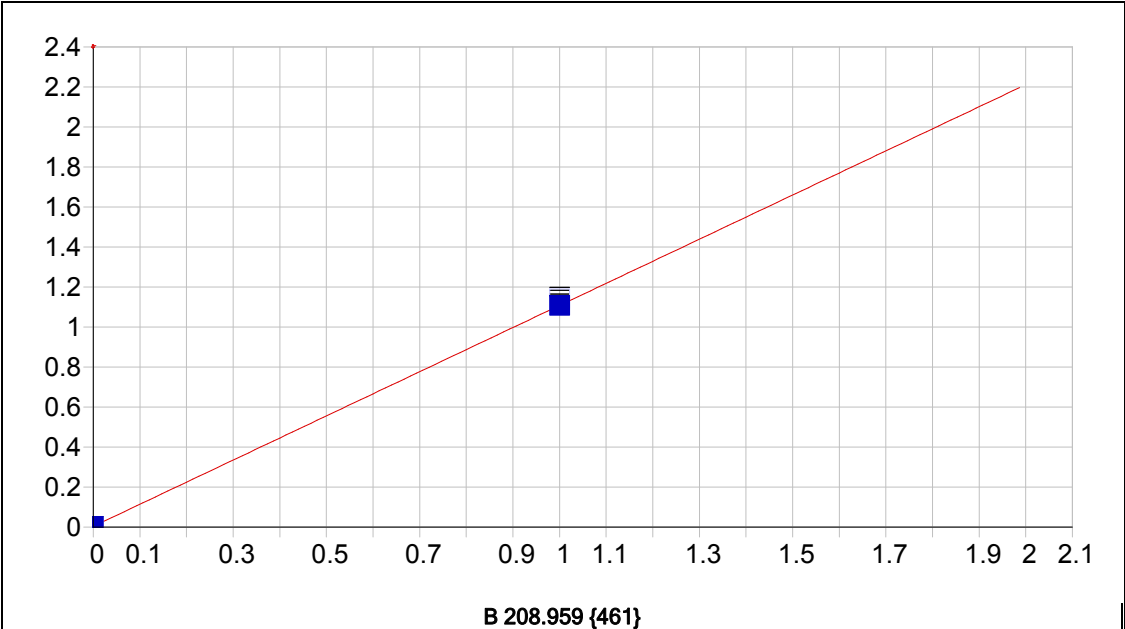


As 189.042 {478}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001089 Re-Slope: 1.000000
 A1 (Gain): 0.184559 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002868
 Predicted MQL: 0.009559

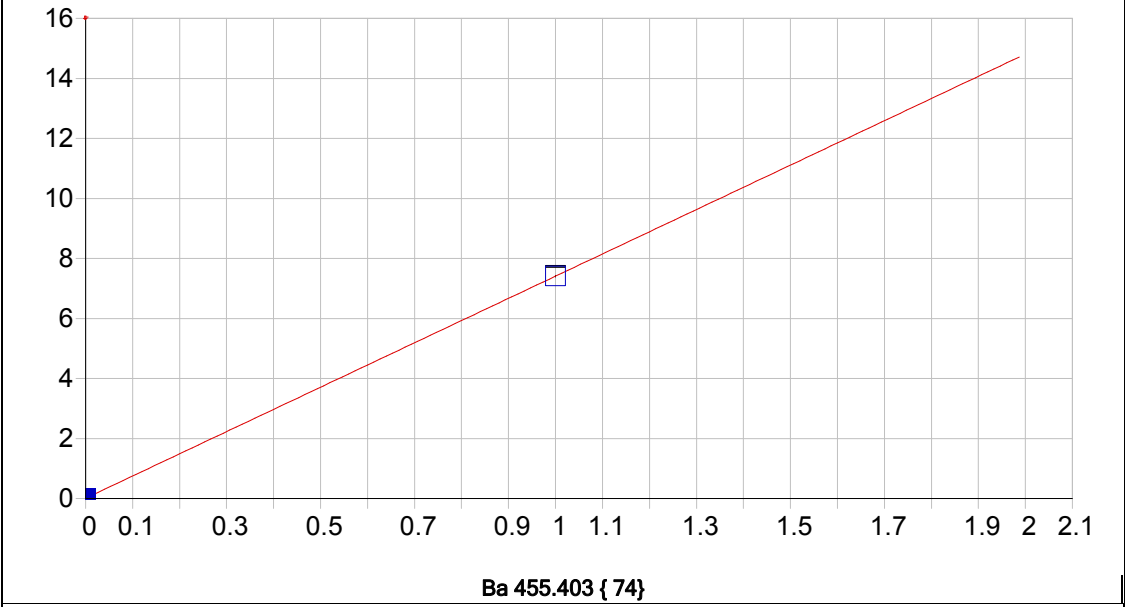
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00109	.000	1
S1	1.0000	1.0000	.000	.000	.18265	.001	1



Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003956 Re-Slope: 1.000000
 A1 (Gain): 1.103836 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000464
 Predicted MQL: 0.001545

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00396	.000	1
S1	1.0000	1.0000	.000	.000	1.1411	.007	1

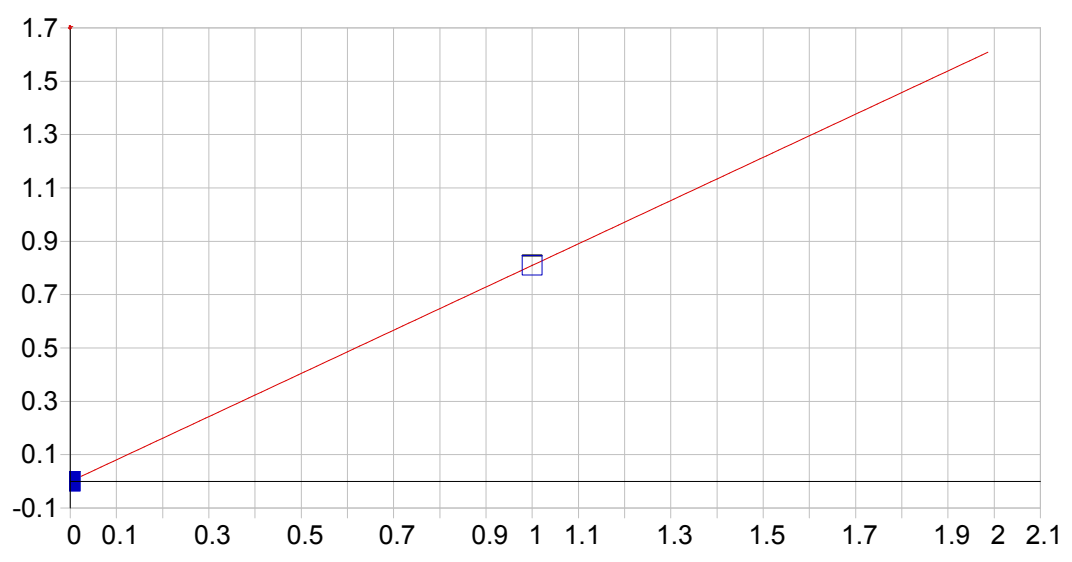


Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.010115 Re-Slope: 1.000000
 A1 (Gain): 7.399163 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000177
 Predicted MQL: 0.000589

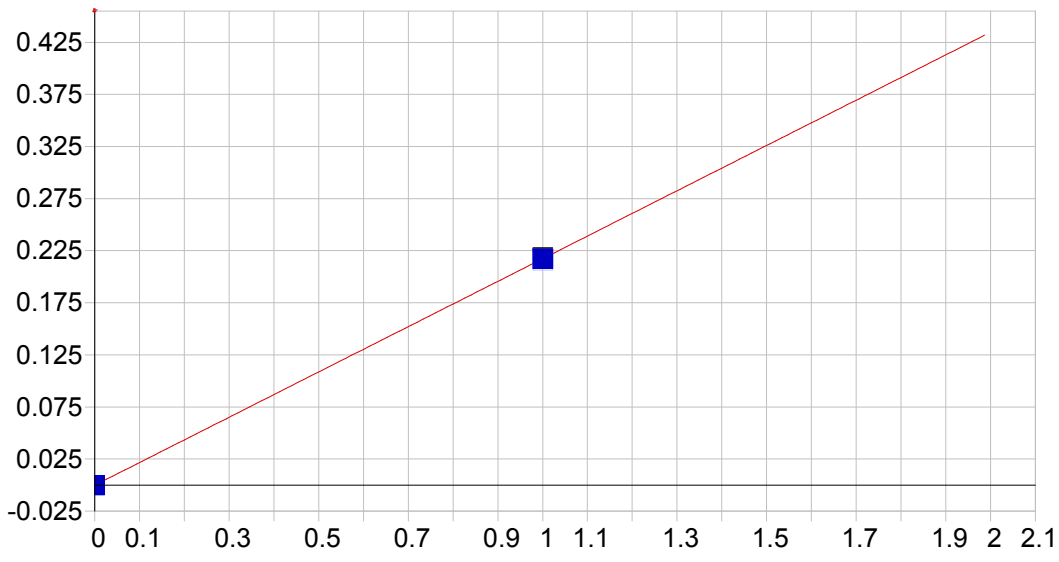
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01012	.001	1
S1	1.0000	1.0000	.000	.000	7.4093	.025	1



Be 234.861 {143}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000006 Re-Slope: 1.000000
 A1 (Gain): 0.809532 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000461
 Predicted MQL: 0.001538

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
S1	1.0000	1.0000	.000	.000	.80953	.002	1

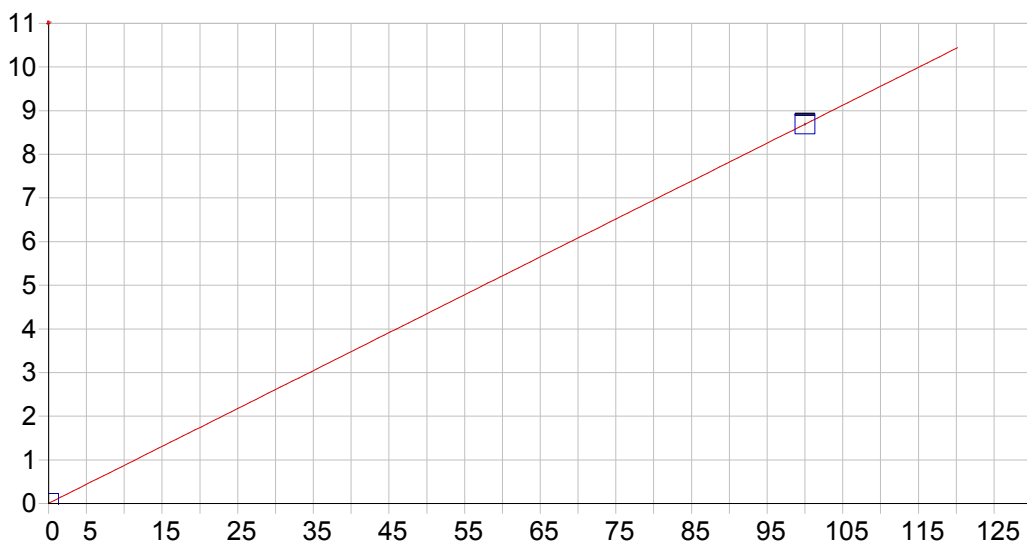


Bi 223.061 {451}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000142 Re-Slope: 1.000000
 A1 (Gain): 0.217430 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001899
 Predicted MQL: 0.006331

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00014	.000	1
S1	1.0000	1.0000	.000	.000	.21569	.001	1



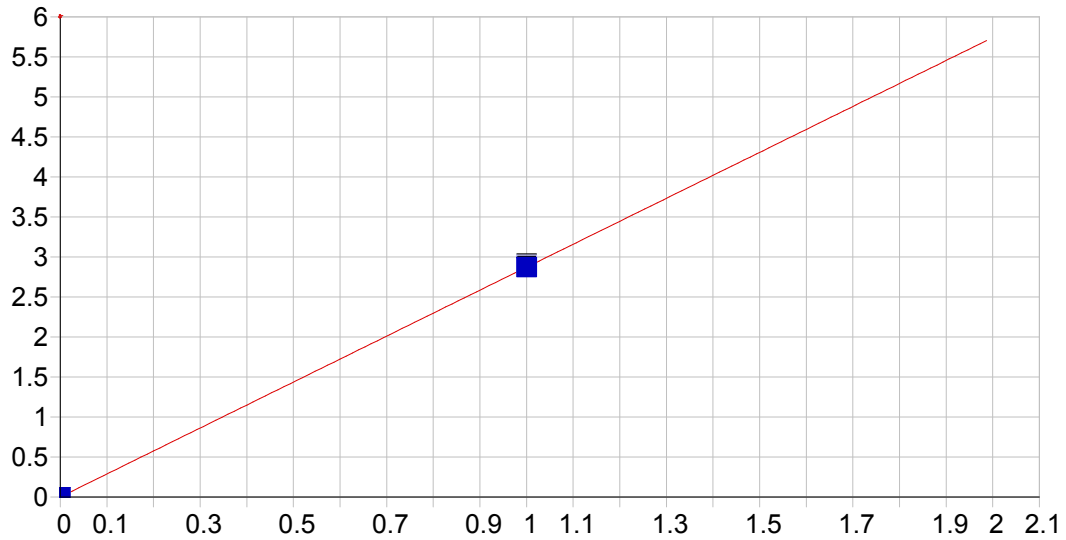
Ca 317.933 {106}

Date of Fit: 9/5/2018 12:11:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004838 Re-Slope: 1.000000
 A1 (Gain): 0.086851 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.005479
 Predicted MQL: 0.018263

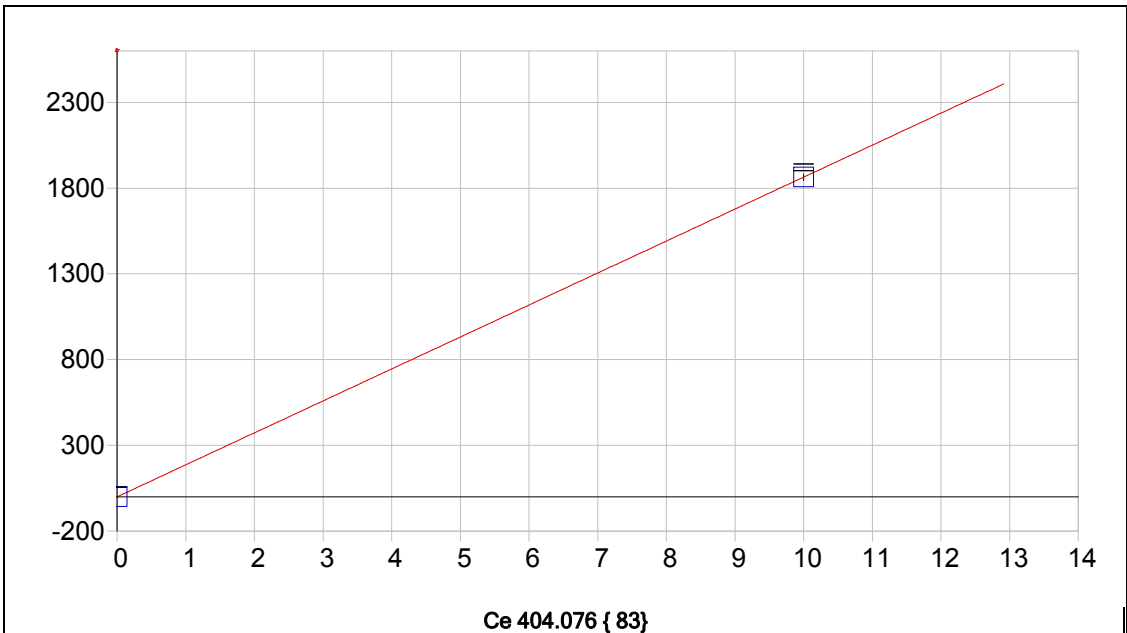
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00484	.001	1
S2	100.00	100.00	.000	.000	8.6899	.024	1



Cd 228.802 {447}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.001398 Re-Slope: 1.000000
 A1 (Gain): 2.870289 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000246
 Predicted MQL: 0.000820

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00140	.000	1
S1	1.0000	1.0000	.000	.000	2.8981	.014	1

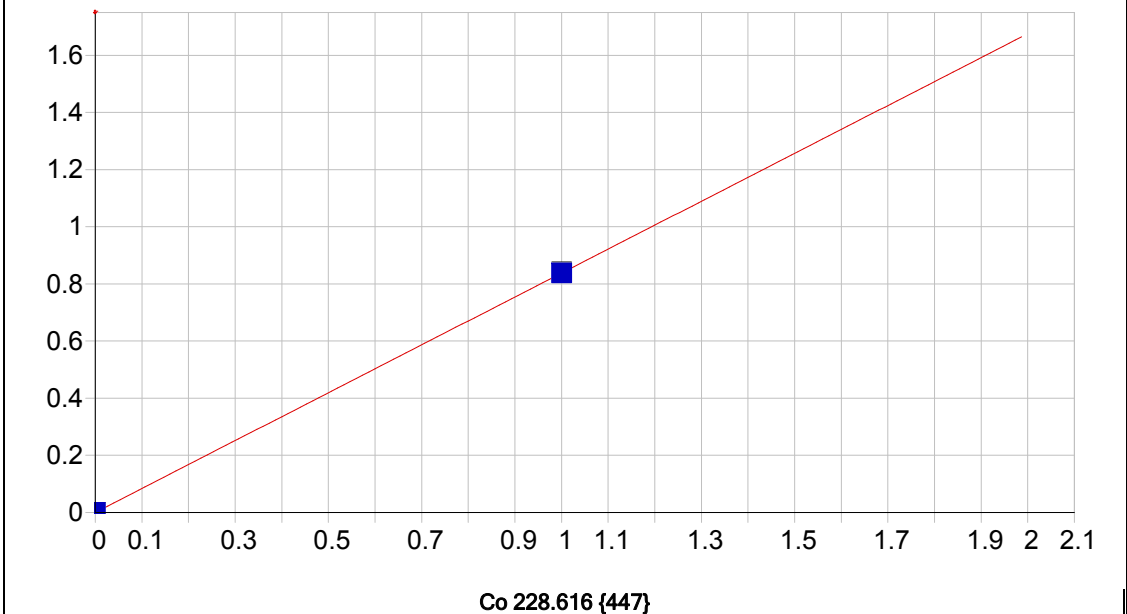


Ce 404.076 { 83}

Date of Fit: 9/5/2018 12:15:31 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.124969 Re-Slope: 1.000000
 A1 (Gain): 186.433860 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.021091
 Predicted MQL: 0.070304

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.12497	3.60	1
CE	10.000	10.000	.000	.000	1864.2	19.7	1



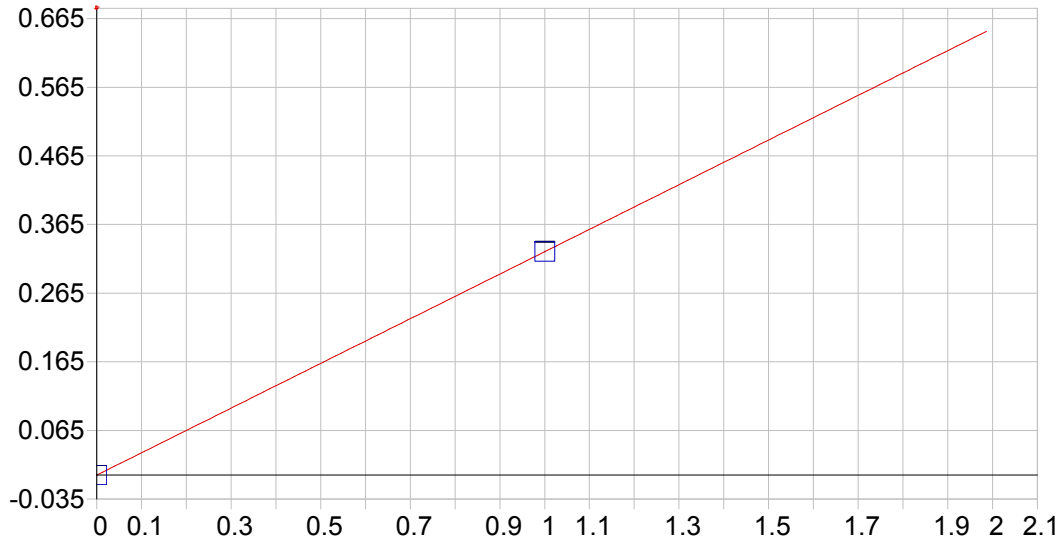
Co 228.616 {447}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000309 Re-Slope: 1.000000
 A1 (Gain): 0.837766 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000470
 Predicted MQL: 0.001566

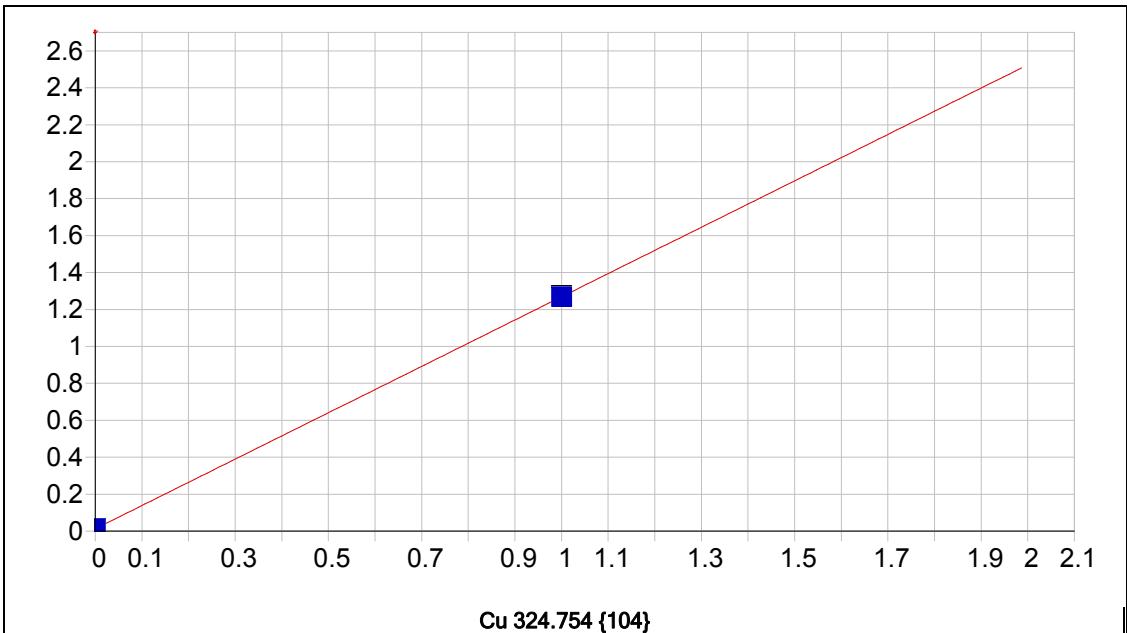
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00031	.000	1
S1	1.0000	1.0000	.000	.000	.83943	.002	1



Cr 267.716 (126)

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000182 Re-Slope: 1.000000
 A1 (Gain): 0.325538 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000838
 Predicted MQL: 0.002792

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00018	.000	1
S1	1.0000	1.0000	.000	.000	.32536	.000	1

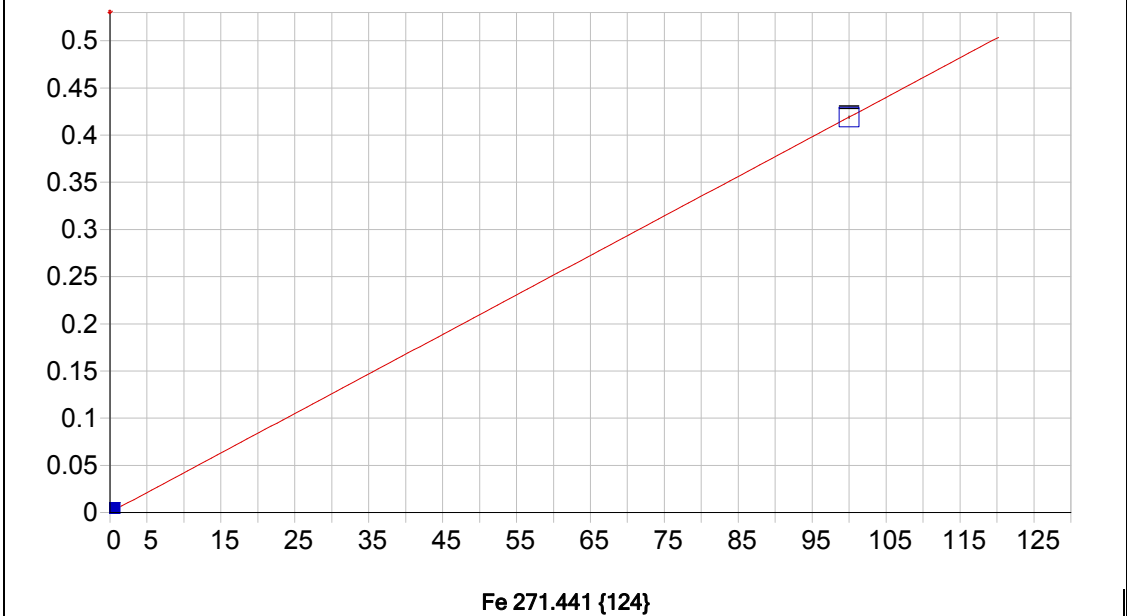


Cu 324.754 {104}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.012839 Re-Slope: 1.000000
 A1 (Gain): 1.255615 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000329
 Predicted MQL: 0.001098

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01284	.000	1
S1	1.0000	1.00000	.000	.000	1.2681	.007	1



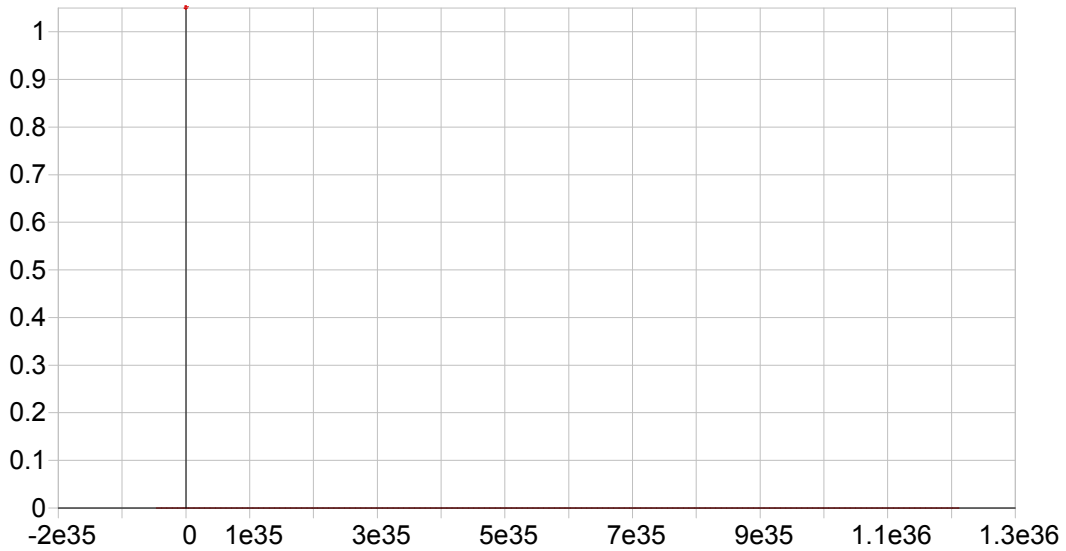
Fe 271.441 {124}

Date of Fit: 9/5/2018 12:11:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000215 Re-Slope: 1.000000
 A1 (Gain): 0.004189 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.078903
 Predicted MQL: 0.263011

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00022	.000	1
S2	100.00	100.00	.000	.000	.41911	.001	1

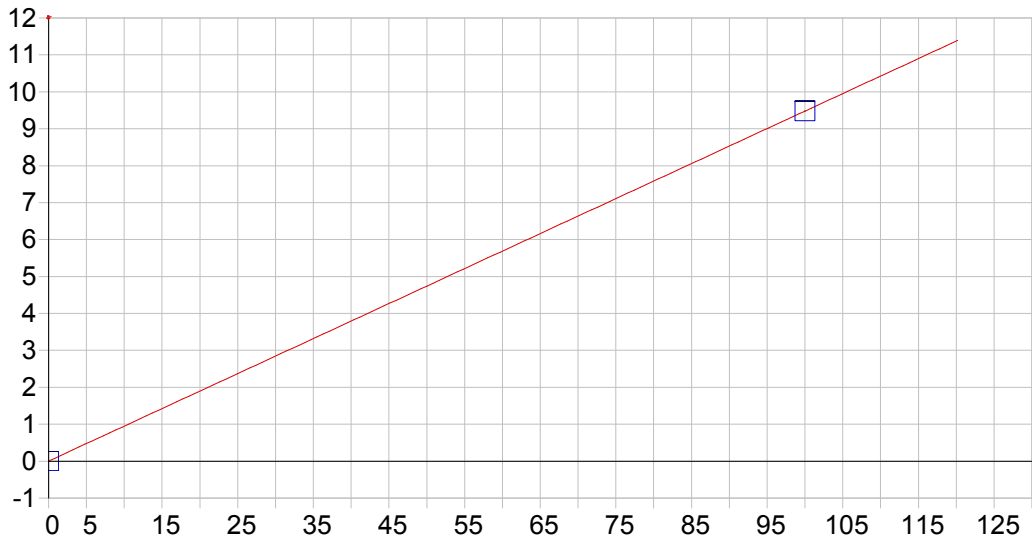


In 230.606 {446}*

Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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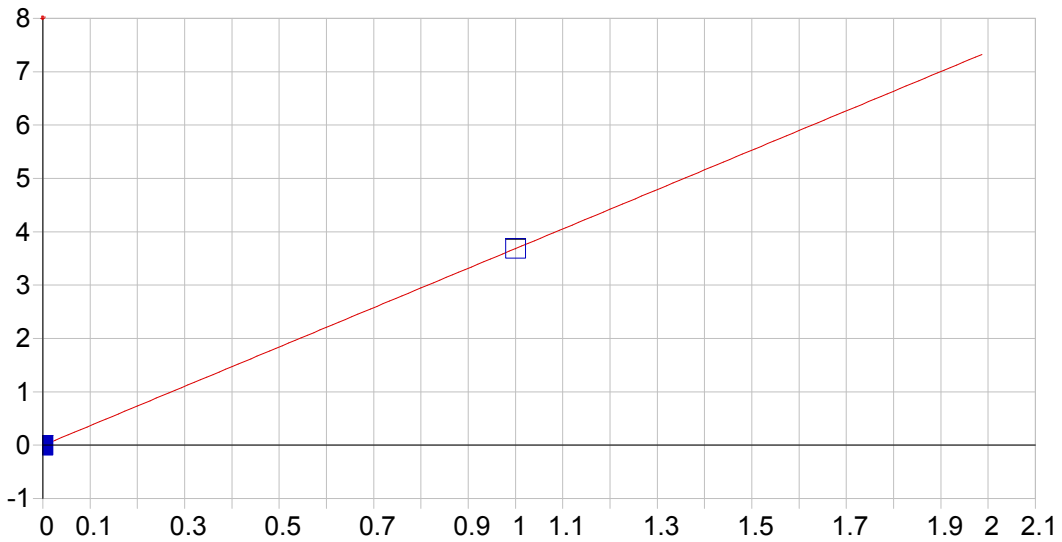


K 766.490 { 44}

Date of Fit: 9/5/2018 12:11:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001725 Re-Slope: 1.000000
 A1 (Gain): 0.094769 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.025347
 Predicted MQL: 0.084488

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00172	.005	1
S2	100.00	100.000	.000	.000	9.4786	.008	1



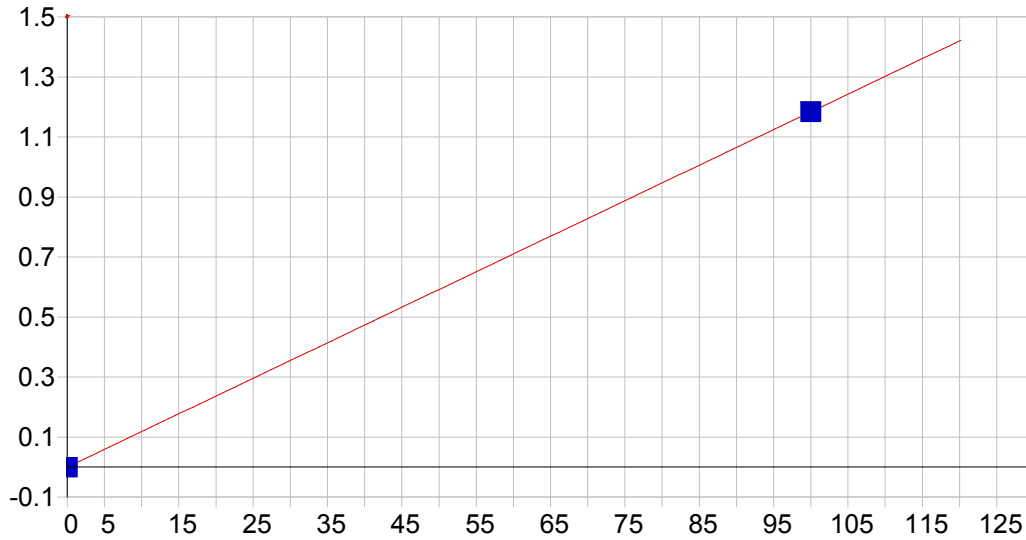
Li 670.784 { 50}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.003966 Re-Slope: 1.000000
 A1 (Gain): 3.688194 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000652
 Predicted MQL: 0.002175

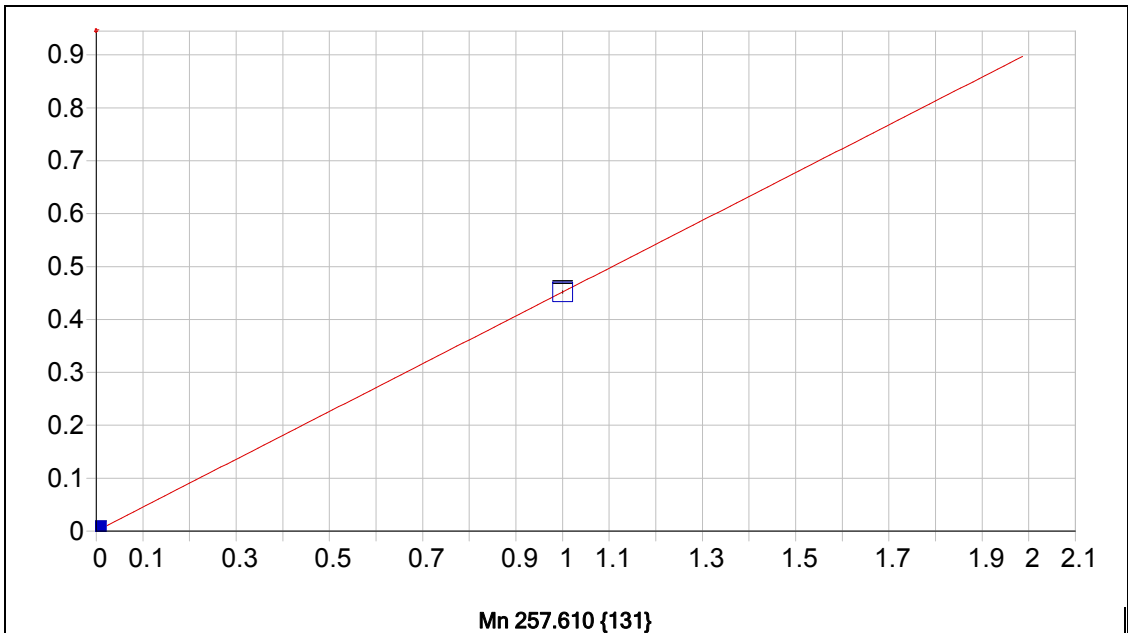
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00397	.000	1
S1	1.0000	1.0000	.000	.000	3.6842	.003	1



Mg 279.079 {121}

Date of Fit: 9/5/2018 12:11:28 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000281 Re-Slope: 1.000000
 A1 (Gain): 0.011836 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.029869
 Predicted MQL: 0.099562

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00028	.000	1
S2	100.00	100.00	.000	.000	1.1833	.001	1

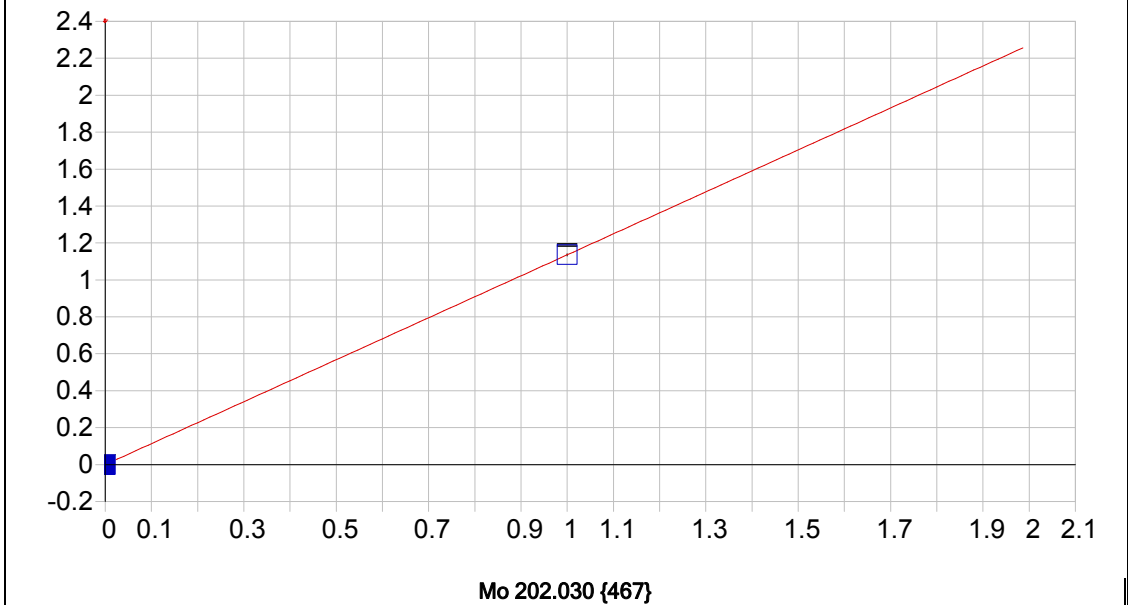


Mn 257.610 {131}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000308 Re-Slope: 1.000000
 A1 (Gain): 0.451458 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000768
 Predicted MQL: 0.002561

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00031	.000	1
S1	1.0000	1.0000	.000	.000	.45177	.002	1



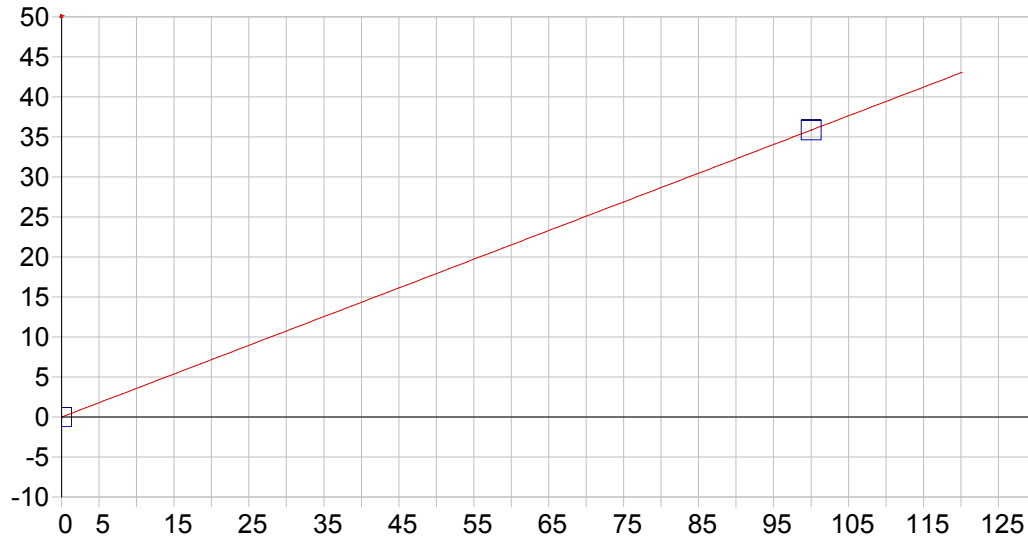
Mo 202.030 {467}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000416 Re-Slope: 1.000000
 A1 (Gain): 1.136216 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000473
 Predicted MQL: 0.001576

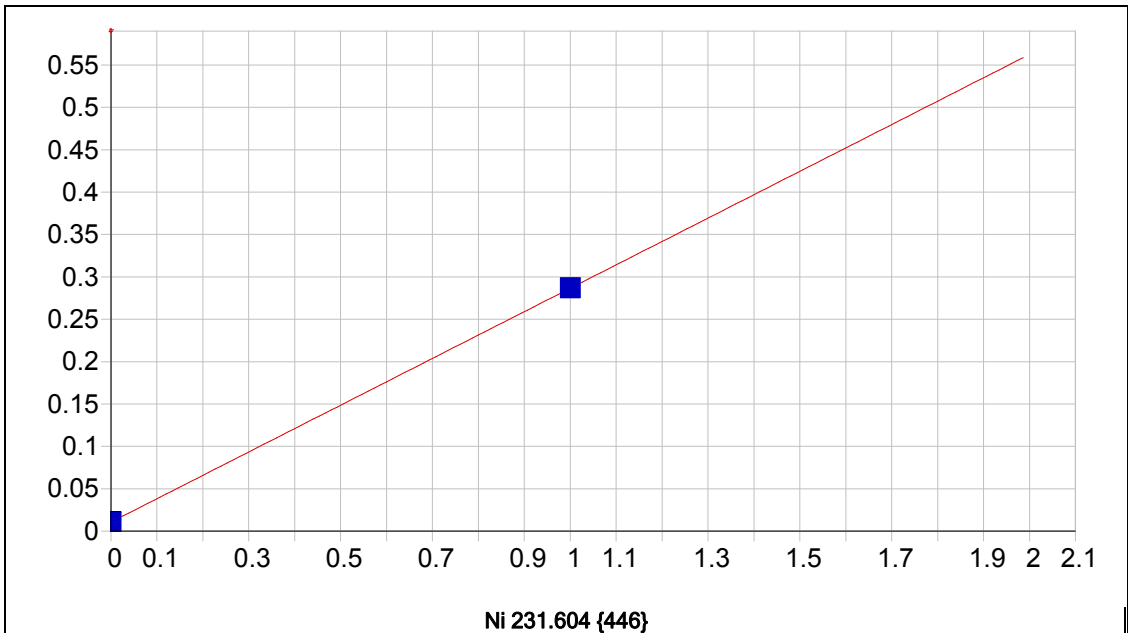
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00042	.000	1
S1	1.0000	1.0000	.000	.000	1.1358	.005	1



Na 589.592 { 57 }

Date of Fit: 9/5/2018 12:11:28 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.002039 Re-Slope: 1.000000
 A1 (Gain): 0.358469 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.006257
 Predicted MQL: 0.020858

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00204	.002	1
S2	100.00	100.00	.000	.000	35.845	.024	1

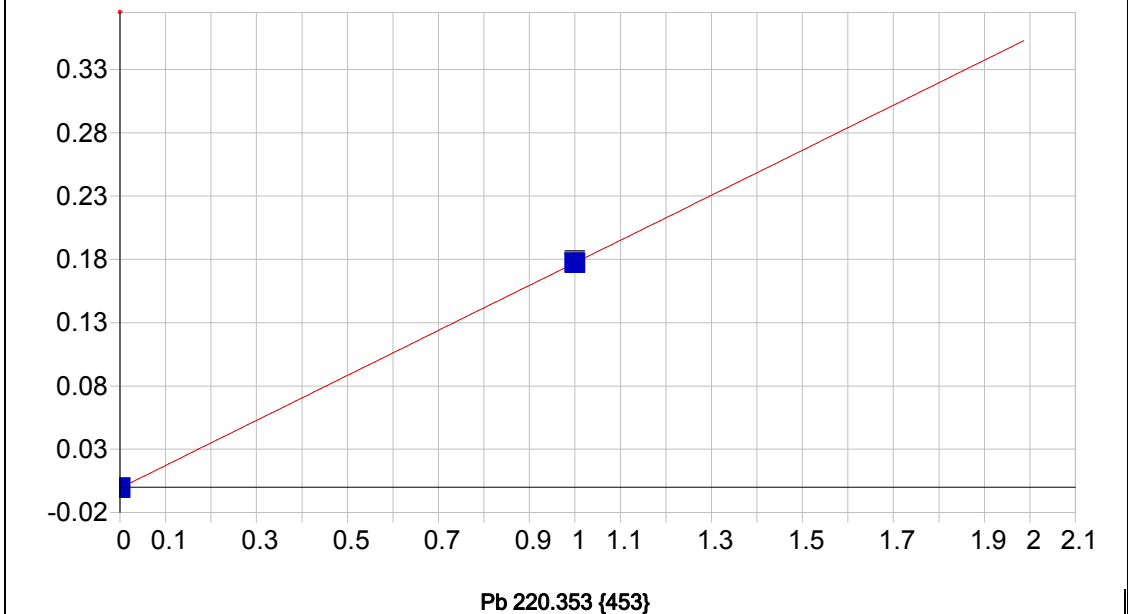


Ni 231.604 {446}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.010599 Re-Slope: 1.000000
 A1 (Gain): 0.275947 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001140
 Predicted MQL: 0.003799

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01060	.000	1
S1	1.0000	1.00000	.000	.000	.28683	.000	1



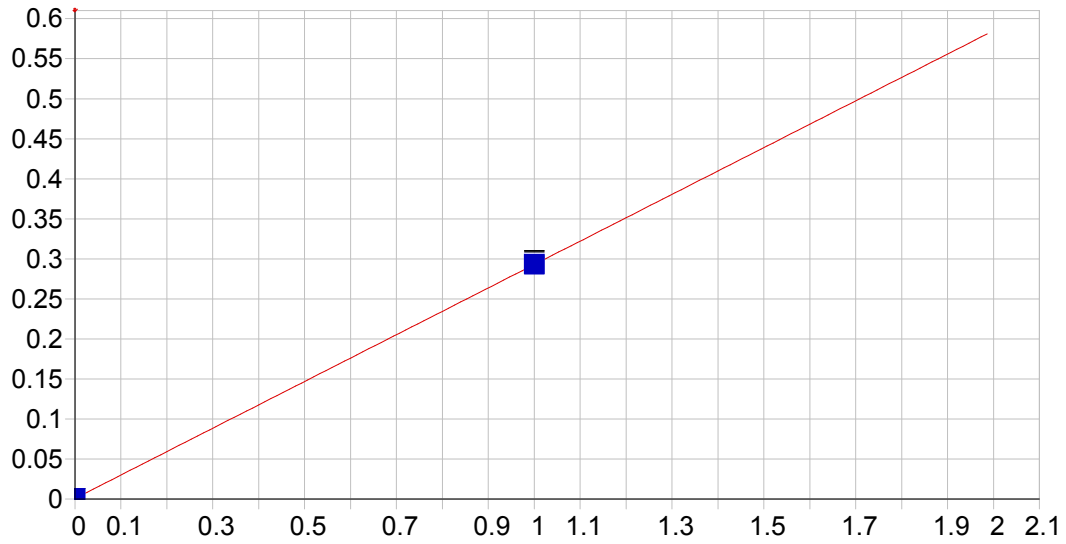
Pb 220.353 {453}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000631 Re-Slope: 1.000000
 A1 (Gain): 0.177875 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002441
 Predicted MQL: 0.008136

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00063	.000	1
S1	1.0000	1.00000	.000	.000	.17795	.001	1

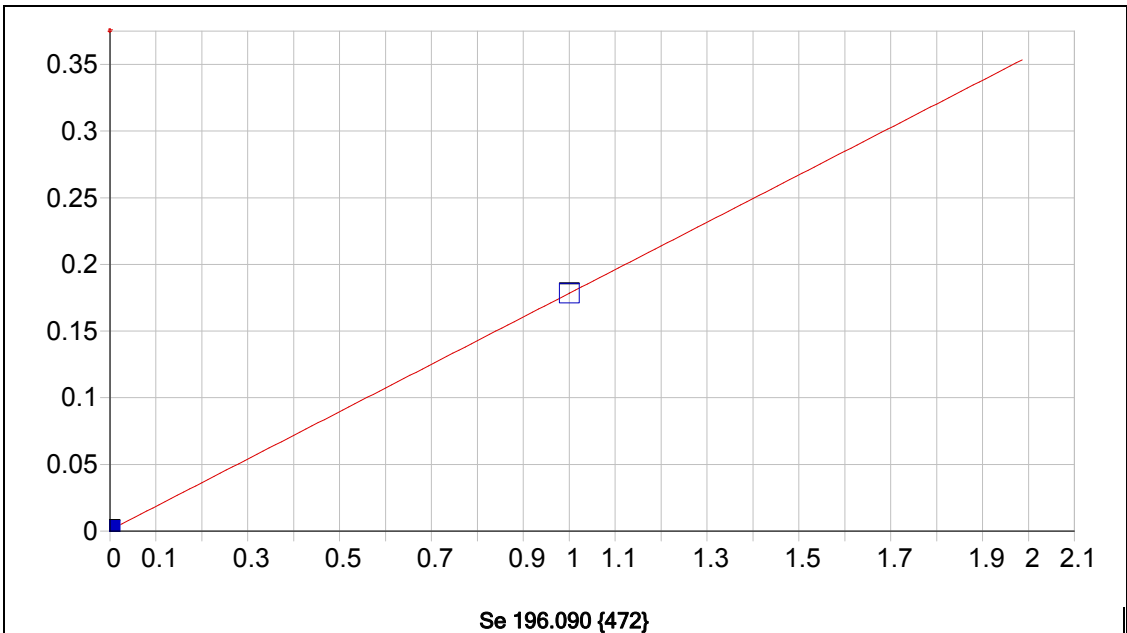


Sb 206.833 {463}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000805 Re-Slope: 1.000000
 A1 (Gain): 0.292108 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001845
 Predicted MQL: 0.006150

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00081	.000	1
S1	1.0000	1.0000	.000	.000	.29460	.003	1

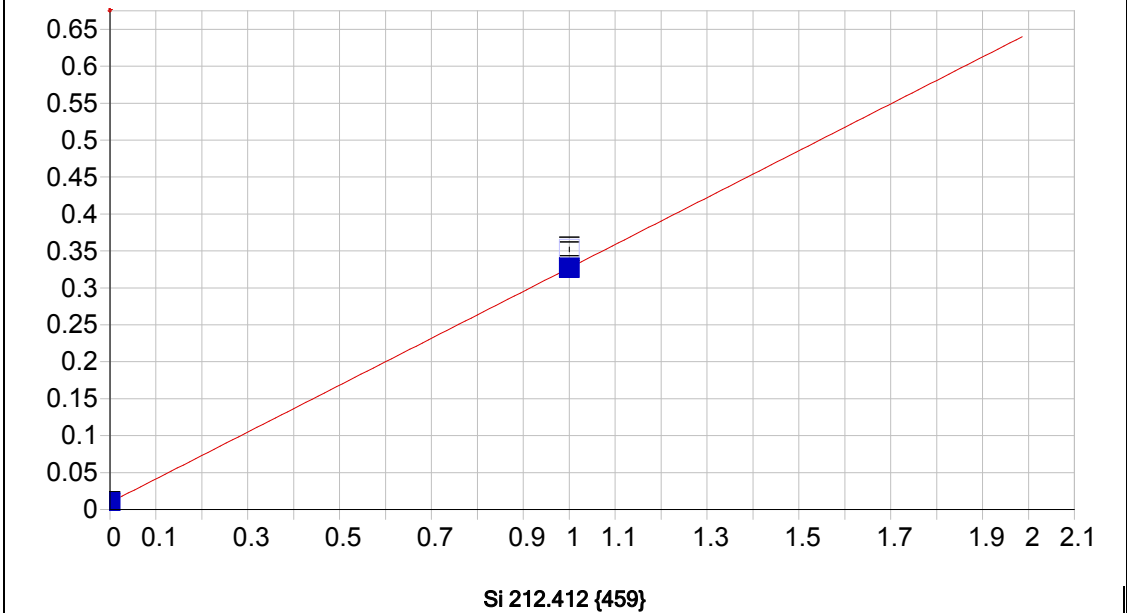


Se 196.090 {472}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000820 Re-Slope: 1.000000
 A1 (Gain): 0.177527 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002858
 Predicted MQL: 0.009528

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00082	.000	1
S1	1.0000	1.0000	.000	.000	.17835	.000	1



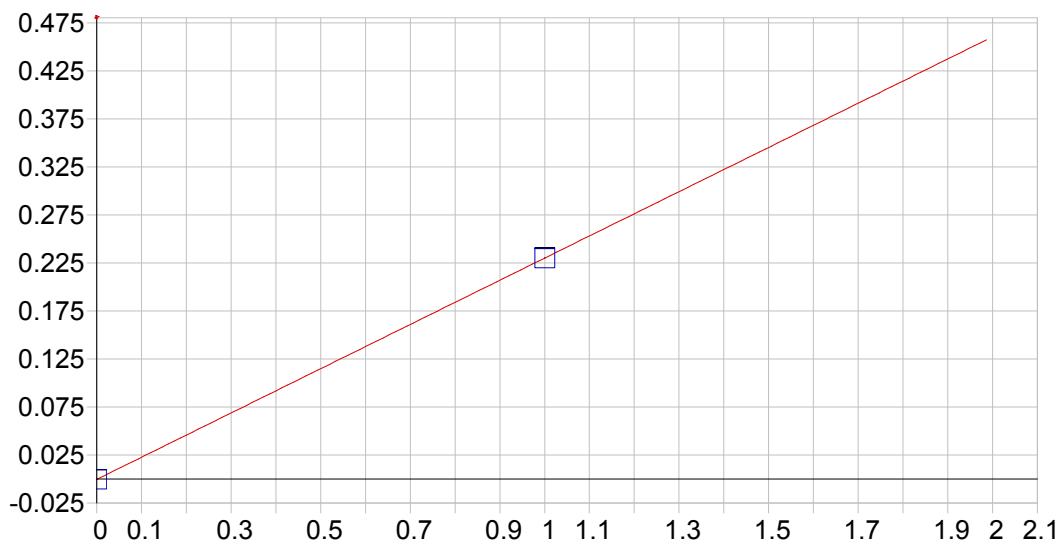
Si 212.412 {459}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.009634 Re-Slope: 1.000000
 A1 (Gain): 0.317285 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001320
 Predicted MQL: 0.004400

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00963	.001	1
S1	1.0000	1.00000	.000	.000	.35219	.003	1

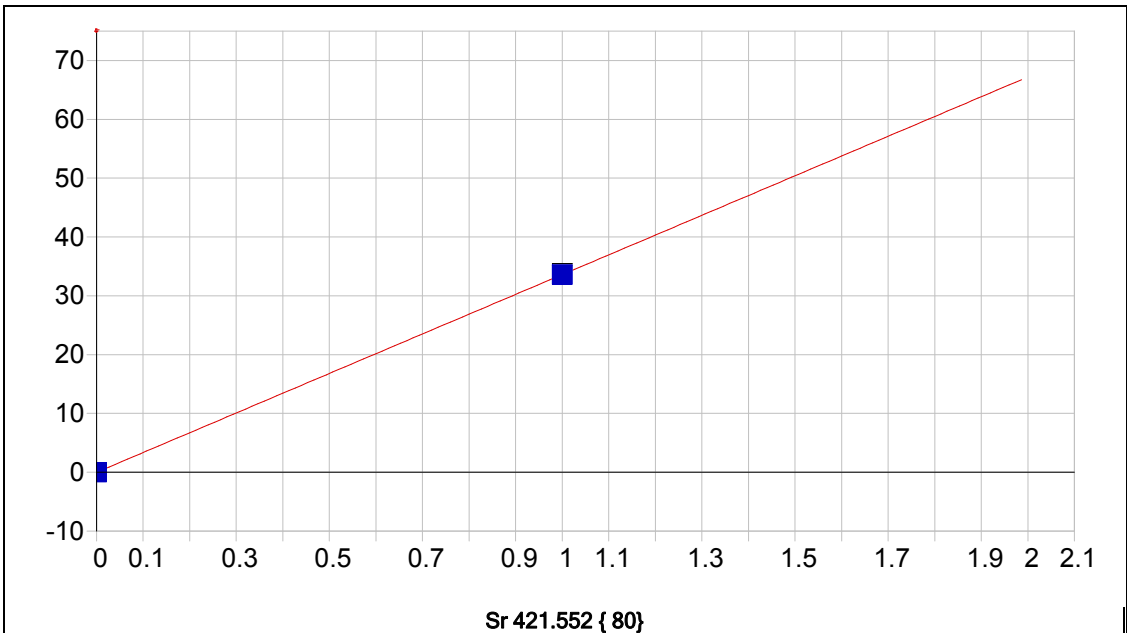


Sn 189.989 (477)

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000359 Re-Slope: 1.000000
 A1 (Gain): 0.230361 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001715
 Predicted MQL: 0.005715

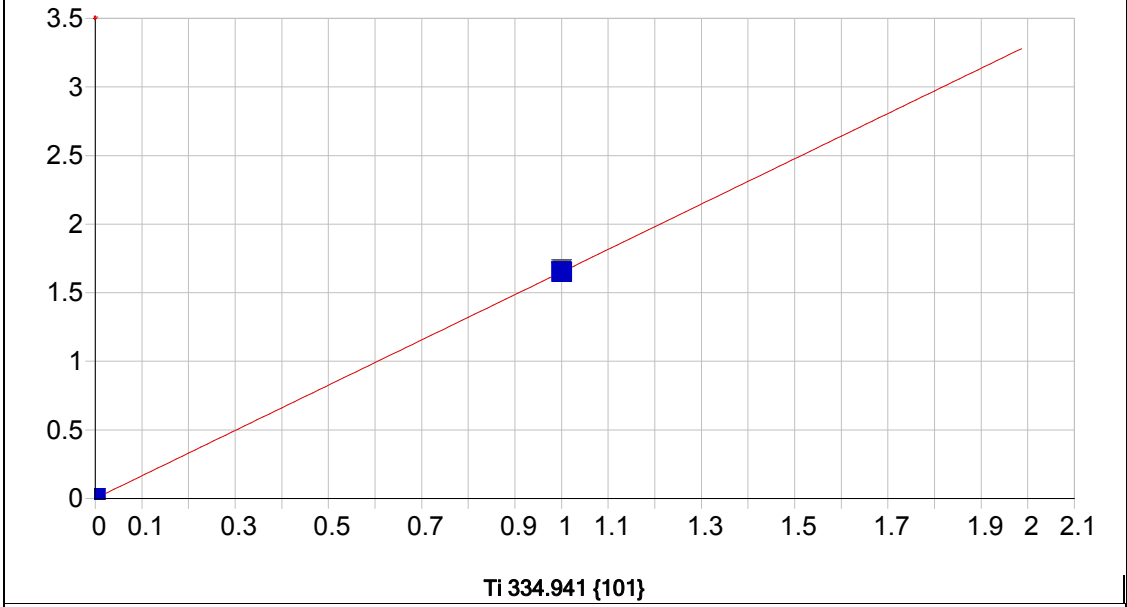
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00036	.000	1
S1	1.0000	1.0000	.000	.000	.23000	.001	1



Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000229 Re-Slope: 1.000000
 A1 (Gain): 33.600265 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000014
 Predicted MQL: 0.000048

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00023	.000	1
S1	1.0000	1.00000	.000	.000	33.606	.153	1

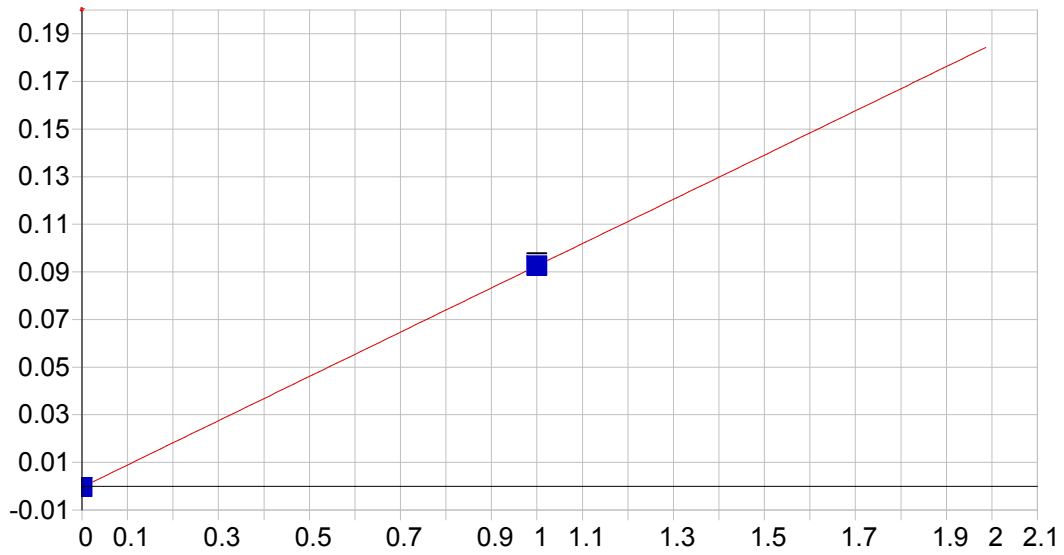


Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000781 Re-Slope: 1.000000
 A1 (Gain): 1.650317 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000172
 Predicted MQL: 0.000575

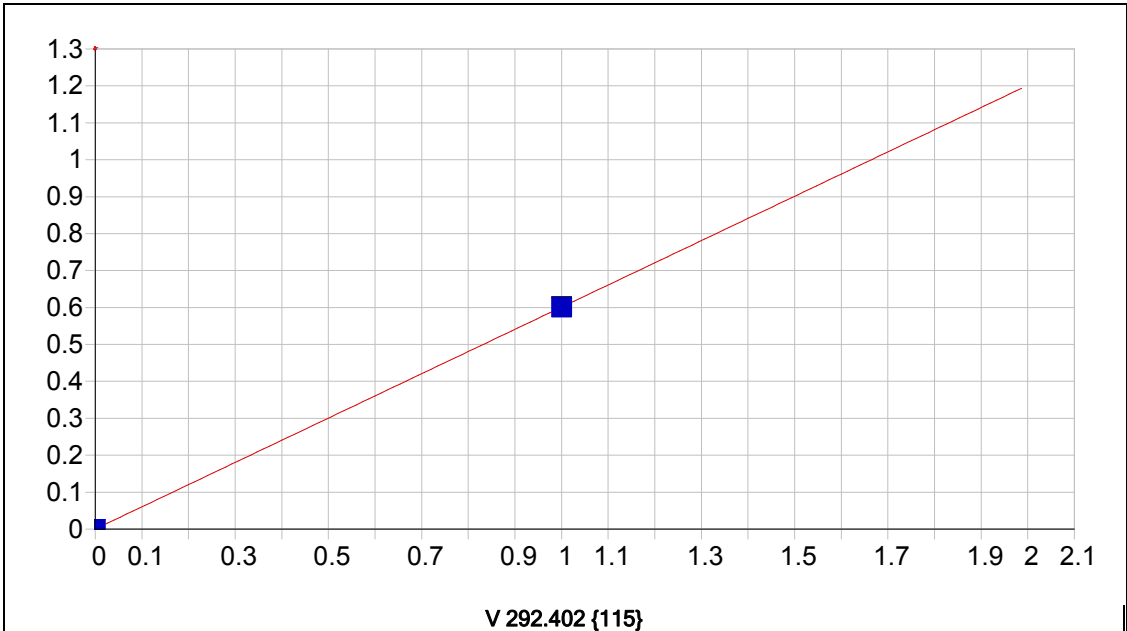
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00078	.000	1
S1	1.0000	1.0000	.000	.000	1.6662	.002	1



TI 190.856 {477}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000374 Re-Slope: 1.000000
 A1 (Gain): 0.092966 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002324
 Predicted MQL: 0.007746

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00037	.000	1
S1	1.0000	1.0000	.000	.000	.09280	.001	1

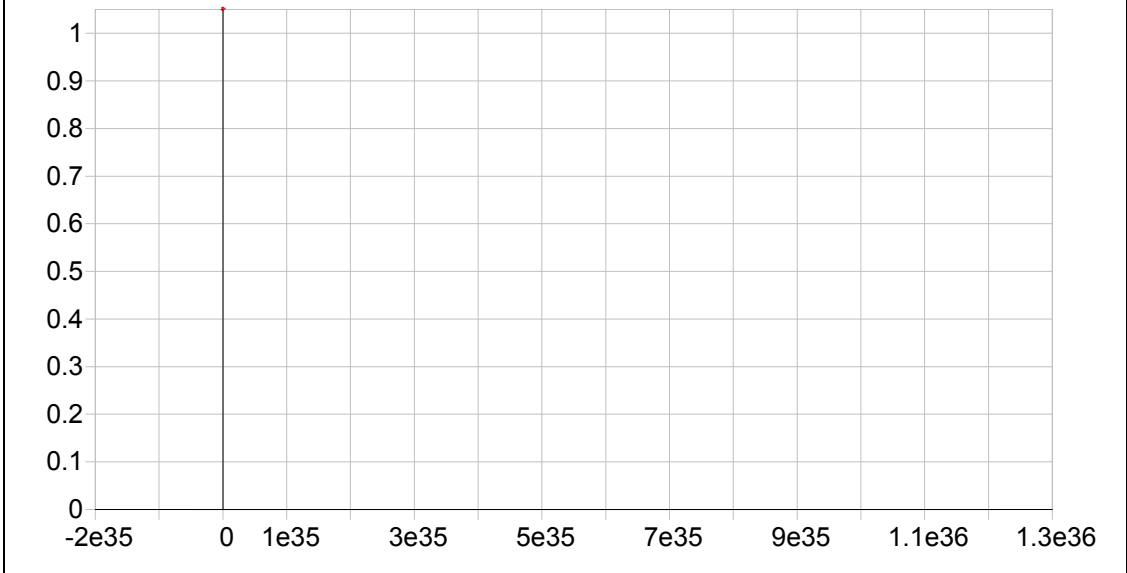


V 292.402 {115}

Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000272 Re-Slope: 1.000000
 A1 (Gain): 0.600598 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000613
 Predicted MQL: 0.002044

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00027	.000	1
S1	1.0000	1.00000	.000	.000	.60080	.000	1



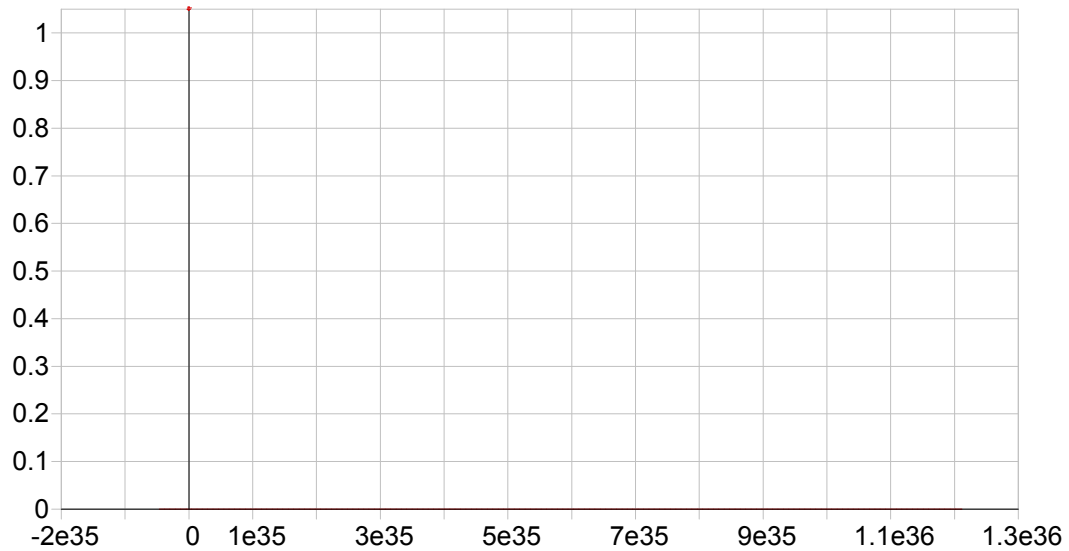
Y 224.306 {450}*

Date of Fit: 5/31/2018 15:53:17 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

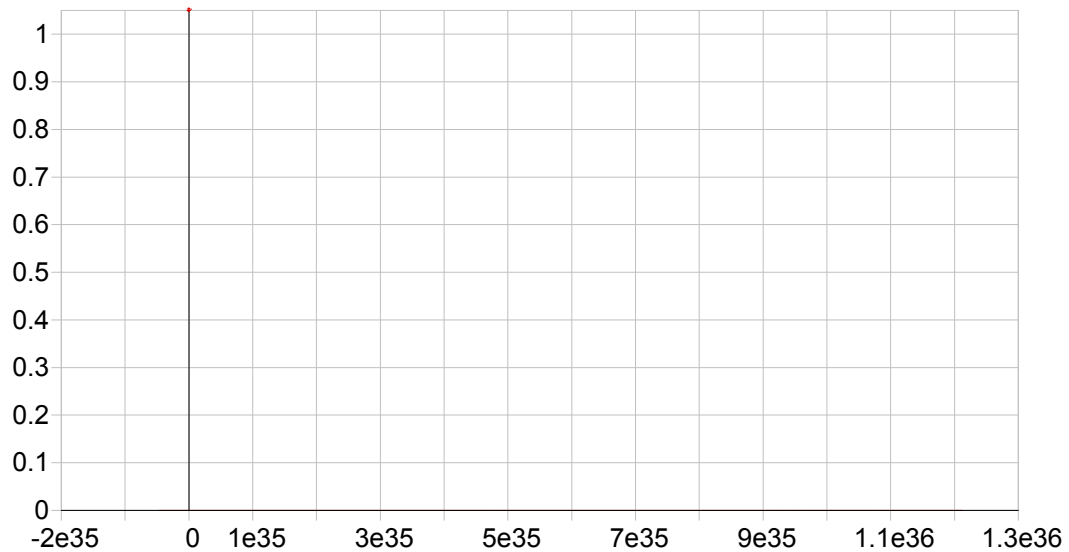
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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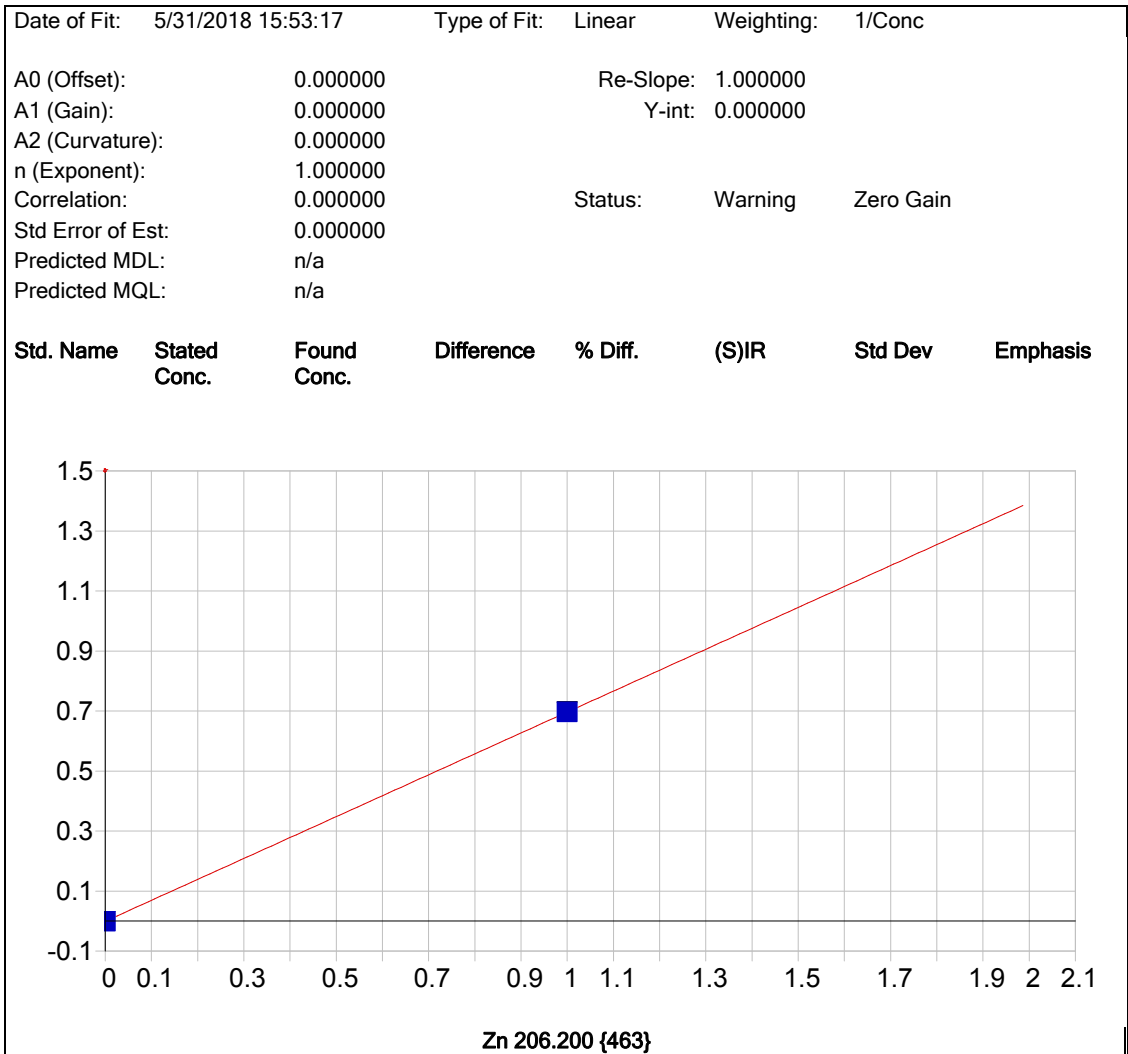
Y 360.073 { 94}*

Date of Fit: 5/31/2018 15:53:17 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Y 371.030 { 91}*



Date of Fit: 9/5/2018 12:07:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000728 Re-Slope: 1.000000
A1 (Gain): 0.697239 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 1.000000 Status: OK.
Std Error of Est: 0.000000
Predicted MDL: 0.000481
Predicted MQL: 0.001602

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00073	.000	1
S1	1.0000	1.0000	.000	.000	.69614	.002	1

Sample Name: Blank Acquired: 9/5/2018 11:59:35 Type: Cal
Method: P6090518A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00040	.00133	-.00109	.00396	.01012	-.00001	-.00014
Stddev	.00019	.00015	.00020	.00034	.00080	.00013	.00011
%RSD	47.248	11.445	18.546	8.6805	7.8602	2001.1	74.264

#1	-.00027	.00144	-.00123	.00420	.01068	-.00009	-.00007
#2	-.00054	.00122	-.00095	.00371	.00955	.00008	-.00022

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00484	.0014	-.1250	.00031	-.00018	.01284	.00022
Stddev	.00071	.0003	3.601	.00001	.00019	.00029	.00008
%RSD	14.594	20.60	2881.	3.4174	103.86	2.2822	35.686

#1	.00534	.0012	-2.671	.00032	-.00005	.01263	.00027
#2	.00434	.0016	2.421	.00030	-.00032	.01305	.00016

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00172	-.0040	-.00028	.00031	-.00042	-.00204	.01060
Stddev	.00545	.0005	.00010	.00001	.00014	.00168	.00019
%RSD	315.99	12.17	34.126	2.0077	34.559	82.425	1.7819

#1	.00558	-.0043	-.00021	.00031	-.00052	-.00323	.01073
#2	-.00213	-.0036	-.00035	.00030	-.00031	-.00085	.01047

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00063	.00081	.00082	.00963	-.00036	.00023	.00078
Stddev	.00006	.00038	.00013	.00093	.00030	.00033	.00011
%RSD	9.1039	47.225	16.444	9.6176	83.659	145.16	14.509

#1	-.00059	.00054	.00091	.00898	-.00015	-.00001	.00086
#2	-.00067	.00107	.00072	.01029	-.00057	.00046	.00070

Elem	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	-.00037	.00027	-.00073
Stddev	.00009	.00004	.00009
%RSD	24.226	14.263	12.639

#1	-.00044	.00024	-.00066
#2	-.00031	.00030	-.00079

Sample Name: Blank Acquired: 9/5/2018 11:59:35 Type: Cal
Method: P6090518A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2210.2	1260.4	11487.	3766.5
Stddev	14.6	43.6	178.	43.7
%RSD	.65951	3.4606	1.5496	1.1609
#1	2220.5	1291.2	11613.	3735.5
#2	2199.9	1229.5	11361.	3797.4

Sample Name: S1 Acquired: 9/5/2018 12:03:36 Type: Cal
Method: P6090518A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.50770	.18265	1.1411	7.4093	.80953	.21569	2.898	.83943
Stddev	.00116	.00069	.0069	.0255	.00158	.00064	.014	.00200
%RSD	.22756	.37896	.60522	.34375	.19575	.29701	.4711	.23868

#1	.50852	.18216	1.1362	7.3913	.80840	.21524	2.888	.83802
#2	.50689	.18314	1.1460	7.4273	.81065	.21614	2.908	.84085

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.32536	1.2681	3.684	.45177	1.1358	.28683	.17795	.29460
Stddev	.00044	.0070	.003	.00242	.0055	.00010	.00085	.00336
%RSD	.13603	.55359	.0802	.53463	.48211	.03587	.47579	1.1415

#1	.32504	1.2631	3.682	.45006	1.1319	.28675	.17735	.29222
#2	.32567	1.2731	3.686	.45347	1.1397	.28690	.17855	.29698

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.17835	.35219	.23000	33.606	1.6662	.09280	.60080	.69614
Stddev	.00016	.00321	.00057	.153	.0019	.00092	.00048	.00183
%RSD	.08875	.91255	.24705	.45610	.11697	.99190	.07945	.26253

#1	.17846	.34991	.22960	33.498	1.6648	.09215	.60047	.69485
#2	.17823	.35446	.23040	33.715	1.6675	.09346	.60114	.69743

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1985.3	1062.0	9947.5	3729.5
Stddev	8.9	6.3	32.6	7.0
%RSD	.44889	.59581	.32776	.18795

#1	1991.6	1066.5	9970.5	3734.5
#2	1979.0	1057.6	9924.4	3724.6

Sample Name: S2 Acquired: 9/5/2018 12:07:32 Type: Cal
 Method: P6090518A Mode: IR Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4624	8.6899	.41911	9.4786	1.1833	35.845
Stddev	.0042	.0240	.00129	.0079	.0010	.024
%RSD	.17032	.27611	.30897	.08304	.08573	.06727
#1	2.4594	8.6730	.41820	9.4842	1.1826	35.862
#2	2.4654	8.7069	.42003	9.4730	1.1840	35.828

Int. Std.	Y_3710
Units	Cts/S
Avg	3568.3
Stddev	3.0
%RSD	.08399
#1	3566.2
#2	3570.4

Sample Name: CE Acquired: 9/5/2018 12:11:32 Type: Cal
Method: P6090518A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ce4040
Units	Cts/S
Avg	1864.
Stddev	20.
%RSD	1.056
#1	1850.
#2	1878.

Sample Name: S1 Acquired: 9/5/2018 12:15:34 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090518A

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9867801	-.004017	1.000302	1.002426	1.003812	.9974732
Stddev	.0020055	.002198	.001997	.001594	.003109	.0006086
%RSD	.2032335	54.71681	.1995983	.1590113	.3097405	.0610158

#1	.9881982	-.005572	.998890	1.003553	1.001614	.9970428
#2	.9853621	-.002463	1.001714	1.001299	1.006011	.9979035

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9980021	.0115700	.9960895	F -.013094	.9954213	1.001892
Stddev	.0047396	.0047234	.0003062	.002781	.0008968	.007382
%RSD	.4749060	40.82479	.0307429	21.23729	.0900892	.7367902

#1	.9946507	.0082300	.9963060	-.011128	.9947871	1.007111
#2	1.001353	.0149100	.9958729	-.015060	.9960554	.996672

Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				1.000000		
Range				-5.000000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9973561	.0385571	.0085339	1.012366	.0171695	1.001233
Stddev	.0007587	.0159154	.0235905	.002373	.0071375	.003862
%RSD	.0760678	41.27752	276.4343	.2344004	41.57041	.3857215

#1	.9978926	.0498110	.0252149	1.010688	.0121226	.998502
#2	.9968197	.0273032	-.008147	1.014044	.0222165	1.003963

Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: S1 Acquired: 9/5/2018 12:15:34 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090518A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9940696	.0192840	.9955863	.9985106	1.002579	.9984955
Stddev	.0014190	.0014243	.0031086	.0022133	.008257	.0039200
%RSD	.1427504	7.385656	.3122407	.2216616	.8235326	.3925951

#1	.9950730	.0182769	.9933881	1.000076	.996741	1.001267
#2	.9930662	.0202911	.9977844	.996946	1.008417	.995724

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9971984	.9945934	1.002251	.9988904	.9988416	.9869004
Stddev	.0068302	.0032944	.000336	.0005566	.0033484	.0029619
%RSD	.6849409	.3312274	.0335234	.0557248	.3352259	.3001178

#1	.9923687	.9922639	1.002014	.9992840	.9964740	.9889948
#2	1.002028	.9969229	1.002489	.9984968	1.001209	.9848061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9901768
Stddev	.0005109
%RSD	.0515951

#1	.9905380
#2	.9898155

Check ?	Chk Pass
Value	
Range	

Sample Name: S1 Acquired: 9/5/2018 12:15:34 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090518A

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1989.906	1061.717	9965.856	3716.274
Stddev	1.605	1.277	8.581	8.133
%RSD	.0806491	.1203015	.0861055	.2188548
#1	1991.041	1062.620	9959.788	3710.522
#2	1988.771	1060.814	9971.923	3722.025

Sample Name: S2 Acquired: 9/5/2018 12:19:29 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00028	99.37932	-0.000890	.0020921	-0.000234	.0003315	.0003952
Stddev	.000362	.34860	.000628	.0007802	.000005	.0003292	.0004783
%RSD	1309.906	.3507740	70.50388	37.29513	2.023459	99.29256	121.0210
#1	.000228	99.13282	-.001334	.0026438	-.000231	.0000988	.0007334
#2	-.000284	99.62582	-.000446	.0015404	-.000238	.0005643	.0000570

Check ? None **Chk Pass** None None None None None
 Value Range

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.75577	.0006846	.0246161	-.000568	-.000355	.0009978	99.10107
Stddev	.08659	.0000628	.0003679	.000240	.000257	.0002936	.22028
%RSD	.0876847	9.178861	1.494577	42.25721	72.19663	29.41849	.2222809
#1	98.81700	.0006401	.0248762	-.000398	-.000537	.0012054	98.94530
#2	98.69454	.0007290	.0243559	-.000738	-.000174	.0007903	99.25683

Check ? **Chk Pass** None None None None None **Chk Pass**
 Value Range

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.88869	.0000423	99.08471	.0002207	-.000418	99.38520	.0063992
Stddev	.00920	.0001571	.14025	.0001570	.000314	.01504	.0012728
%RSD	.0092099	371.5958	.1415479	71.14218	75.12804	.0151295	19.88983
#1	99.88219	-.000069	98.98553	.0001097	-.000640	99.37457	.0072992
#2	99.89520	.000153	99.18388	.0003317	-.000196	99.39583	.0054992

Check ? **Chk Pass** None **Chk Pass** None None **Chk Pass** None
 Value Range

Sample Name: S2 Acquired: 9/5/2018 12:19:29 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027834	.0076487	-.000528	.0077674	.0014518	.0011202	.0014528
Stddev	.0005411	.0007565	.004088	.0014843	.0010321	.0000069	.0002917
%RSD	19.44167	9.890166	773.9833	19.10977	71.09342	.6192184	20.07982
#1	.0031661	.0071138	.002362	.0067178	.0007220	.0011153	.0016591
#2	.0024008	.0081836	-.003419	.0088170	.0021816	.0011251	.0012465

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001375	.0001354	.0002269
Stddev	.001027	.0000726	.0001119
%RSD	74.72583	53.63603	49.32037
#1	-.002101	.0000841	.0001478
#2	-.000648	.0001868	.0003060

Check ?	None	None	None
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1735.208	1025.848	9278.103	3592.567
Stddev	9.000	3.562	17.144	5.919
%RSD	.5186841	.3472500	.1847739	.1647448
#1	1728.844	1023.329	9265.981	3588.382
#2	1741.572	1028.367	9290.225	3596.752

Sample Name: ICV Acquired: 9/5/2018 12:23:27 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3918479	40.87854	.4099310	.4084019	.4038371	.4054503
Stddev	.0011778	.17874	.0003707	.0026828	.0011574	.0015615
%RSD	.3005700	.4372465	.0904204	.6569101	.2865957	.3851357

#1	.3926807	40.75215	.4096689	.4065049	.4030187	.4043462
#2	.3910150	41.00492	.4101931	.4102990	.4046555	.4065545

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4138841	20.87232	.4099905	F -.040357	.4068648	.3982290
Stddev	.0020734	.07315	.0016239	.011764	.0000007	.0020506
%RSD	.5009613	.3504603	.3960791	29.15077	.0001633	.5149411

#1	.4124179	20.82059	.4088422	-.048675	.4068644	.3996790
#2	.4153502	20.92404	.4111387	-.032038	.4068653	.3967790

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value Range				.4000000 -10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4076769	20.92730	41.08135	3.192963	20.37896	3.976713
Stddev	.0005540	.09047	.11912	.011553	.10199	.006225
%RSD	.1358844	.4323145	.2899710	.3618167	.5004881	.1565300

#1	.4080686	20.86332	40.99711	3.184794	20.30684	3.972311
#2	.4072852	20.99127	41.16558	3.201132	20.45109	3.981114

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range						

Sample Name: ICV Acquired: 9/5/2018 12:23:27 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3892490	20.53688	.4078781	.4127220	.3891232	.4038669
Stddev	.0003467	.08931	.0000323	.0010679	.0049247	.0004841
%RSD	.0890745	.4348722	.0079131	.2587414	1.265577	.1198713

#1	.3894942	20.47373	.4079009	.4134772	.3856410	.4042092
#2	.3890039	20.60003	.4078553	.4119669	.3926055	.4035246

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3742842	.4145187	.4067917	.4041837	.4041330	3.959850
Stddev	.0019773	.0019966	.0006188	.0001779	.0013836	.010115
%RSD	.5282777	.4816760	.1521042	.0440039	.3423691	.2554443

#1	.3728861	.4131069	.4072292	.4043095	.4031546	3.967003
#2	.3756823	.4159306	.4063542	.4040580	.4051113	3.952698

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.4061052
Stddev	.0005506
%RSD	.1355804

#1	.4064946
#2	.4057159

Check ?	Chk Pass
Value	
Range	

Sample Name: ICV Acquired: 9/5/2018 12:23:27 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1838.299	1031.729	9504.018	3623.496
Stddev	3.934	2.553	22.147	7.937
%RSD	.2140164	.2474819	.2330291	.2190443
#1	1841.081	1033.535	9488.358	3629.108
#2	1835.517	1029.924	9519.679	3617.883

Sample Name: ICB Acquired: 9/5/2018 12:27:18 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008049	-.010882	.0008423	.0005380	-.000311	-.000376	.0003001
Stddev	.0003988	.010071	.0013833	.0002064	.000039	.000243	.0009613
%RSD	49.53848	92.54861	164.2307	38.36768	12.62326	64.74600	320.3083

#1	.0005230	-.003760	.0018204	.0006840	-.000339	-.000547	-.000380
#2	.0010869	-.018003	-.000136	.0003920	-.000283	-.000204	.000980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007344	.0000590	.0002514	.0001494	-.000472	.0005740	.0411935
Stddev	.001612	.0001538	.0009480	.0000816	.000481	.0000276	.0155558
%RSD	21.95105	260.6721	377.1236	54.60534	101.9550	4.814782	37.76276

#1	-.006204	.0001678	-.000419	.0000917	-.000812	.0005936	.0521931
#2	-.008484	-.000050	.000922	.0002070	-.000132	.0005545	.0301939

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.024165	.0011600	.0275463	-.000283	.0000812	.0083239	.0017610
Stddev	.014145	.0000416	.0214235	.000065	.0003989	.0050321	.0016540
%RSD	58.53576	3.590062	77.77272	22.81907	491.4737	60.45360	93.92709

#1	-.034167	.0011305	.0123976	-.000238	.0003632	.0118822	.0029306
#2	-.014163	.0011894	.0426950	-.000329	-.000201	.0047657	.0005914

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 9/5/2018 12:27:18 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000667	.0031369	-.001308	.0038406	-.001407	.0000287	.0003216
Stddev	.000834	.0013969	.001597	.0051915	.000221	.0000053	.0000817
%RSD	124.8728	44.53161	122.0709	135.1758	15.69909	18.33192	25.39527
#1	-.001257	.0041246	-.002438	.0001696	-.001563	.0000325	.0002639
#2	-.000078	.0021491	-.000179	.0075115	-.001250	.0000250	.0003794

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0007045	.0004901	-.000147
Stddev	.0018246	.0001413	.000205
%RSD	258.9869	28.82940	139.1858
#1	.0019947	.0005900	-.000293
#2	-.000586	.0003902	-.000002

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2055.020	1099.585	9861.270	3660.835
Stddev	106.000	59.869	3.038	4.978
%RSD	5.158107	5.444655	.0308093	.1359790
#1	1980.067	1057.252	9863.418	3664.355
#2	2129.974	1141.919	9859.121	3657.315

Sample Name: ICVL Acquired: 9/5/2018 12:31:22 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051407	.1803996	.0100286	.0502634	.0100266	.0040683
Stddev	.0002149	.0112460	.0026080	.0012632	.0000388	.0000016
%RSD	4.179805	6.233923	26.00612	2.513213	.3871323	.0401856

#1	.0052926	.1883517	.0118727	.0511567	.0100540	.0040695
#2	.0049888	.1724475	.0081844	.0493702	.0099991	.0040672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499516	.2069481	.0022430	F .0006703	.0046381	.0100224
Stddev	.0006790	.0034130	.0001981	.0073467	.0001449	.0007055
%RSD	1.359404	1.649222	8.833751	1096.016	3.123278	7.038736

#1	.0504317	.2045347	.0021029	.0058652	.0045357	.0095235
#2	.0494714	.2093615	.0023832	-.004525	.0047405	.0105212

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112769	.1574040	.4554466	.0110962	.1188079	.0099905
Stddev	.0000255	.0259098	.0147416	.0000116	.0028030	.0004429
%RSD	.2261477	16.46068	3.236728	.1046048	2.359296	4.433281

#1	.0112950	.1757250	.4658704	.0111044	.1207899	.0096773
#2	.0112589	.1390830	.4450227	.0110879	.1168258	.0103036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 9/5/2018 12:31:22 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097344	1.070593	.0124401	.0041299	.0196862	F .0130718
Stddev	.0001221	.000455	.0019820	.0005234	.0009608	.0019265
%RSD	1.253900	.0425007	15.93206	12.67404	4.880373	14.73809

#1	.0098207	1.070915	.0138416	.0045000	.0203656	.0117096
#2	.0096481	1.070271	.0110386	.0037598	.0190069	.0144341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.0100000
Range						30.00000%

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1782603	.0383527	.0053308	.0051932	.0088348	.0057888
Stddev	.0001425	.0002801	.0000087	.0000956	.0006613	.0003430
%RSD	.0799176	.7302949	.1622341	1.840320	7.484875	5.924816

#1	.1783610	.0385508	.0053247	.0052608	.0093024	.0055463
#2	.1781595	.0381547	.0053369	.0051256	.0083672	.0060313

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0199056
Stddev	.0005437
%RSD	2.731161

#1	.0202901
#2	.0195212

Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 9/5/2018 12:31:22 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2000.285	1062.627	9842.257	3673.660
Stddev	39.867	17.409	18.010	10.655
%RSD	1.993087	1.638258	.1829892	.2900513
#1	1972.095	1050.317	9854.992	3666.125
#2	2028.476	1074.937	9829.522	3681.194

Sample Name: CRI Acquired: 9/5/2018 12:35:24 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106317	.4024592	.0218816	.1007147	.0206198	.0082251
Stddev	.0003181	.0079174	.0026139	.0033578	.0000916	.0004497
%RSD	2.991894	1.967264	11.94558	3.333963	.4442990	5.467724

#1	.0104068	.4080577	.0200333	.1030890	.0205550	.0085431
#2	.0108567	.3968607	.0237299	.0983404	.0206846	.0079071

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0977543	.4060043	.0044427	F -.000628	.0096363	.0202270
Stddev	.0026579	.0043359	.0000954	.007761	.0005579	.0000441
%RSD	2.718947	1.067937	2.146999	1235.080	5.789146	.2181673

#1	.0996337	.4090703	.0043753	-.006117	.0100308	.0202582
#2	.0958749	.4029384	.0045102	.004860	.0092418	.0201958

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0100000		
Range				-50.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219723	.4380101	.9916921	.0219022	.2129870	.0209384
Stddev	.0001981	.0512452	.0072524	.0002594	.0233403	.0002577
%RSD	.9015977	11.69954	.7313159	1.184236	10.95856	1.230885

#1	.0218323	.4742460	.9865639	.0220856	.2294911	.0211207
#2	.0221124	.4017743	.9968204	.0217188	.1964829	.0207562

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRI Acquired: 9/5/2018 12:35:24 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197829	2.097246	.0234860	.0098081	.0386044	.0205018
Stddev	.0008667	.004609	.0017241	.0004855	.0000033	.0030222
%RSD	4.381233	.2197634	7.340770	4.950309	.0085646	14.74091

#1	.0203958	2.100505	.0247051	.0101515	.0386020	.0226388
#2	.0191701	2.093987	.0222669	.0094648	.0386067	.0183648

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3535037	.0773300	.0107365	.0101650	.0196633	.0104216
Stddev	.0105281	.0013201	.0000137	.0001038	.0006590	.0000725
%RSD	2.978204	1.707095	.1274315	1.021314	3.351381	.6955516

#1	.3609482	.0782635	.0107462	.0102384	.0191973	.0104728
#2	.3460592	.0763966	.0107268	.0100915	.0201293	.0103703

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0392903
Stddev	.0016999
%RSD	4.326565

#1	.0404923
#2	.0380882

Check ?	Chk Pass
Value	
Range	

Sample Name: CRI Acquired: 9/5/2018 12:35:24 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2014.129	1070.135	9812.704	3655.336
Stddev	54.112	27.041	6.468	5.435
%RSD	2.686628	2.526918	.0659156	.1486737
#1	1975.866	1051.014	9808.130	3651.493
#2	2052.392	1089.256	9817.278	3659.179

Sample Name: ICSA Acquired: 9/5/2018 12:39:26 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005126	520.4173	-.002815	.0003225	-.000337	.0004129
Stddev	.0009636	2.4954	.001959	.0012546	.000001	.0001472
%RSD	187.9760	.4794982	69.59665	388.9953	.3466308	35.65519

#1	.0011939	518.6528	-.001429	.0012096	-.000336	.0003088
#2	-.000169	522.1818	-.004200	-.000565	-.000338	.0005169

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001964	498.4812	.0007148	F .0421859	-.001183	.0009222
Stddev	.002479	2.5809	.0001821	.0174807	.000215	.0002286
%RSD	126.1735	.5177610	25.47958	41.43719	18.21706	24.78373

#1	-.003717	496.6562	.0005860	.0545466	-.001031	.0010838
#2	-.000212	500.3062	.0008436	.0298252	-.001335	.0007606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006610	196.3501	-.068668	.0003349	530.9539	-.001121
Stddev	.0002564	1.7646	.010326	.0000150	1.5746	.000375
%RSD	38.79019	.8987000	15.03798	4.465664	.2965615	33.44521

#1	.0004797	195.1023	-.075969	.0003244	529.8405	-.001386
#2	.0008423	197.5979	-.061366	.0003455	532.0673	-.000856

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 9/5/2018 12:39:26 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002881	.0276069	.0068235	.0024798	.0028859	.0057790
Stddev	.000442	.0053860	.0012266	.0027984	.0058996	.0025309
%RSD	15.35472	19.50956	17.97619	112.8490	204.4303	43.79515

#1	-.002568	.0237984	.0076909	.0044585	-.001286	.0039894
#2	-.003194	.0314153	.0059562	.0005010	.007058	.0075686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002591	.0073867	.0045901	-.002728	-.001857	-.001235
Stddev	.000419	.0007886	.0000079	.000154	.001073	.000338
%RSD	16.16172	10.67552	.1719853	5.632370	57.80636	27.39316

#1	-.002295	.0068291	.0045957	-.002837	-.001098	-.000996
#2	-.002887	.0079443	.0045845	-.002620	-.002616	-.001475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0004555
Stddev	.0010143
%RSD	222.6594

#1	-.000262
#2	.001173

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICSA Acquired: 9/5/2018 12:39:26 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1521.895	956.9061	8575.064	3365.079
Stddev	17.451	8.1677	8.413	10.731
%RSD	1.146643	.853527	.0981105	.3189010
#1	1509.555	951.1307	8581.013	3372.667
#2	1534.234	962.6816	8569.115	3357.491

Sample Name: ICSAB Acquired: 9/5/2018 12:43:28 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2091189	522.2135	.0944636	-.001838	.5154709	.5366013
Stddev	.0011002	1.1126	.0005183	.000531	.0004810	.0018502
%RSD	.5261143	.2130609	.5486955	28.90548	.0933041	.3447901
#1	.2098969	521.4267	.0948301	-.002214	.5158110	.5352931
#2	.2083410	523.0002	.0940971	-.001463	.5151308	.5379096

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001125	501.6370	1.023241	F .0401525	.5141187	.4704090
Stddev	.0023638	.8957	.002443	.0009230	.0028634	.0018648
%RSD	2101.892	.1785495	.2387634	2.298804	.5569457	.3964210
#1	.0017839	501.0037	1.021514	.0408052	.5161434	.4717276
#2	-.001559	502.2704	1.024969	.0394999	.5120940	.4690904

Check ? None Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
 Value
 Range .2000000
 -20.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5570761	198.4506	-.102375	.0003356	535.1629	.4873550
Stddev	.0016065	1.2814	.016888	.0001734	1.8324	.0036113
%RSD	.2883881	.6456816	16.49650	51.68177	.3424093	.7409910
#1	.5582121	197.5446	-.114317	.0004582	533.8672	.4848015
#2	.5559401	199.3567	-.090433	.0002130	536.4587	.4899086

Check ? Chk Pass Chk Pass None None Chk Pass Chk Pass
 Value
 Range

Sample Name: ICSAB Acquired: 9/5/2018 12:43:28 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002333	.0247577	.9937164	F .0656409	.5632489	.0421071
Stddev	.000231	.0000185	.0032560	.0019433	.0070025	.0022416
%RSD	9.915406	.0748185	.3276589	2.960577	1.243238	5.323457

#1	-.002170	.0247446	.9960188	.0642667	.5582974	.0405220
#2	-.002497	.0247708	.9914141	.0670150	.5682005	.0436921

Check ?	None	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0500000		
Range				20.00000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002192	.0066054	.0045033	-.002652	.0936923	.4755078
Stddev	.001717	.0001087	.0000033	.000028	.0006576	.0027899
%RSD	78.31410	1.644801	.0736551	1.057902	.7019099	.5867176

#1	-.003407	.0066823	.0045057	-.002632	.0932272	.4735351
#2	-.000978	.0065286	.0045010	-.002671	.0941573	.4774806

Check ?	None	None	None	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9833932
Stddev	.0039411
%RSD	.4007676

#1	.9861800
#2	.9806064

Check ?	Chk Pass
Value	
Range	

Sample Name: ICSAB Acquired: 9/5/2018 12:43:28 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1507.747	946.5500	8556.869	3329.802
Stddev	.657	4.3266	8.748	5.744
%RSD	.0435896	.4570864	.1022285	.1725166
#1	1507.283	949.6094	8550.684	3333.865
#2	1508.212	943.4907	8563.055	3325.741

Sample Name: ICSAB Acquired: 9/5/2018 12:47:36 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2079728	521.9640	.0963696	-.001838	.5161264	.5399882
Stddev	.0004012	.8445	.0023366	.000693	.0002967	.0028204
%RSD	.1928876	.1617858	2.424587	37.69019	.0574961	.5223025

#1	.2082565	521.3669	.0980218	-.001348	.5159166	.5379939
#2	.2076892	522.5611	.0947174	-.002328	.5163362	.5419825

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000876	501.1771	1.021510	F .0511476	.5135461	.4722163
Stddev	.0012279	1.4158	.005890	.0155465	.0016524	.0036637
%RSD	1402.447	.2824990	.5766103	30.39543	.3217653	.7758502

#1	.0009558	500.1759	1.017345	.0401545	.5147145	.4748069
#2	-.000781	502.1782	1.025675	.0621407	.5123777	.4696256

Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.2000000		
Range				-20.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5552502	199.3756	-.104740	-.000130	537.2252	.4885423
Stddev	.0018655	.5807	.007359	.000211	1.4453	.0009939
%RSD	.3359742	.2912637	7.026233	162.0592	.2690266	.2034348

#1	.5539311	198.9650	-.109944	.000019	536.2033	.4892450
#2	.5565693	199.7862	-.099536	-.000279	538.2472	.4878395

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICSAB Acquired: 9/5/2018 12:47:36 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003229	.0149694	.9909596	.0584792	.5670131	.0423295
Stddev	.000148	.0042815	.0019905	.0012678	.0099331	.0029013
%RSD	4.584696	28.60165	.2008699	2.168019	1.751835	6.854117

#1	-.003124	.0179969	.9895521	.0593757	.5599893	.0402780
#2	-.003334	.0119419	.9923671	.0575827	.5740369	.0443811

Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001500	.0033492	.0045034	-.002972	.0908467	.4745342
Stddev	.000161	.0004886	.0000161	.000008	.0017137	.0011833
%RSD	10.72618	14.58808	.3576855	.2614835	1.886365	.2493661

#1	-.001614	.0036947	.0044920	-.002967	.0920585	.4736975
#2	-.001387	.0030037	.0045148	-.002978	.0896349	.4753710

Check ?	None	None	None	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9796658
Stddev	.0006295
%RSD	.0642571

#1	.9792207
#2	.9801109

Check ?	Chk Pass
Value	
Range	

Sample Name: ICSAB Acquired: 9/5/2018 12:47:36 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1503.977	945.9140	8570.511	3315.315
Stddev	4.364	6.5981	4.527	.236
%RSD	.2901644	.6975419	.0528150	.0071122
#1	1507.062	950.5796	8573.712	3315.149
#2	1500.891	941.2484	8567.310	3315.482

Sample Name: CCV Acquired: 9/5/2018 12:51:30 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4881597	52.60661	.5128717	.5087657	.5112673	.5383511
Stddev	.0006531	.08856	.0065105	.0004887	.0011396	.0001148
%RSD	.1337823	.1683528	1.269428	.0960619	.2229057	.0213314

#1	.4876979	52.54399	.5082680	.5084201	.5104614	.5384322
#2	.4886215	52.66924	.5174753	.5091113	.5120731	.5382699

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5261967	26.58043	.5170925	F -.048314	.5167062	.5009890
Stddev	.0023411	.10328	.0014206	.006596	.0009400	.0011794
%RSD	.4449149	.3885672	.2747203	13.65348	.1819267	.2354077

#1	.5278521	26.50739	.5160880	-.052978	.5160415	.5001551
#2	.5245412	26.65346	.5180970	-.043649	.5173709	.5018229

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5135736	27.02455	51.98453	4.078811	25.98159	5.153747
Stddev	.0004182	.21501	.02950	.004040	.19422	.015104
%RSD	.0814245	.7956115	.0567436	.0990446	.7475373	.2930736

#1	.5138693	26.87251	51.96367	4.081667	25.84426	5.143067
#2	.5132779	27.17658	52.00539	4.075954	26.11893	5.164427

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/5/2018 12:51:30 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4902679	25.98270	.5141711	.5267062	.4955601	.4965276
Stddev	.0009444	.00250	.0005025	.0010036	.0004818	.0036401
%RSD	.1926304	.0096191	.0977235	.1905350	.0972294	.7331186

#1	.4896002	25.98447	.5145264	.5274159	.4959008	.4939537
#2	.4909357	25.98094	.5138158	.5259966	.4952194	.4991016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4435492	.5293313	.5113522	.5097037	.5114035	4.935723
Stddev	.0000727	.0016414	.0006906	.0004056	.0015780	.001178
%RSD	.0163866	.3100902	.1350520	.0795830	.3085601	.0238710

#1	.4434978	.5304920	.5108639	.5094169	.5102877	4.936557
#2	.4436006	.5281707	.5118405	.5099905	.5125193	4.934890

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5157970
Stddev	.0000349
%RSD	.0067748

#1	.5158217
#2	.5157723

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/5/2018 12:51:30 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.424	1035.654	9500.962	3547.358
Stddev	3.699	4.093	4.363	2.831
%RSD	.2023961	.3952565	.0459242	.0797918
#1	1830.039	1038.548	9504.047	3549.359
#2	1824.808	1032.759	9497.876	3545.356

Sample Name: CCB Acquired: 9/5/2018 12:55:23 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008243	-.009636	.0012972	-.001028	-.000330	.0000193
Stddev	.0005918	.007553	.0006308	.000273	.000062	.0005098
%RSD	71.79899	78.38601	48.63253	26.59031	18.67592	2646.512

#1	.0012428	-.014976	.0017432	-.000835	-.000286	-.000341
#2	.0004058	-.004295	.0008511	-.001222	-.000373	.000380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003263	-.001408	.0000814	F .0069964	-.000031	-.000074
Stddev	.0009983	.000627	.0000358	.0017182	.000233	.000021
%RSD	305.9712	44.49771	43.97365	24.55820	756.2653	28.13977

#1	-.000380	-.001851	.0001067	.0057814	-.000196	-.000059
#2	.001032	-.000965	.0000561	.0082113	.000134	-.000088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006093	-.020466	-.047003	.0008518	.0217022	.0000218
Stddev	.0001209	.005931	.008095	.0001268	.0054139	.0003423
%RSD	19.84542	28.98078	17.22192	14.88265	24.94612	1566.279

#1	.0005238	-.024660	-.052727	.0009415	.0255303	.0002639
#2	.0006948	-.016272	-.041279	.0007622	.0178740	-.000220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/5/2018 12:55:23 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007336	.0117484	.0025384	.0022785	.0065579	-.001015
Stddev	.0003446	.0045188	.0016613	.0010183	.0003301	.002106
%RSD	46.97205	38.46322	65.44845	44.69180	5.032849	207.5901

#1	.0009773	.0085532	.0037131	.0015584	.0067913	.000475
#2	.0004899	.0149437	.0013637	.0029985	.0063245	-.002504

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017785	-.001032	.0000149	.0003585	-.000204	.0003546
Stddev	.0021071	.000332	.0000074	.0000245	.000902	.0003849
%RSD	118.4765	32.16348	50.06402	6.824885	441.6860	108.5608

#1	.0002885	-.000797	.0000201	.0003412	.000434	.0000824
#2	.0032684	-.001266	.0000096	.0003758	-.000842	.0006268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000367
Stddev	.000151
%RSD	41.16434

#1	-.000474
#2	-.000260

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/5/2018 12:55:23 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2056.808	1095.206	9916.832	3604.266
Stddev	86.507	42.327	3.679	8.969
%RSD	4.205903	3.864773	.0371031	.2488489
#1	1995.638	1065.276	9919.434	3610.608
#2	2117.978	1125.136	9914.230	3597.923

Sample Name: MRL Acquired: 9/5/2018 12:59:28 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049915	.2082269	.0084013	.0485390	.0100516	.0043791
Stddev	.0006507	.0380216	.0014049	.0016759	.0001651	.0001270
%RSD	13.03514	18.25971	16.72283	3.452597	1.642455	2.899816

#1	.0045314	.1813416	.0093947	.0497240	.0099348	.0042893
#2	.0054516	.2351123	.0074078	.0473540	.0101683	.0044689

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494942	.2044959	.0022734	F .0084627	.0050021	.0101453
Stddev	.0029909	.0022942	.0000705	.0004740	.0000644	.0003289
%RSD	6.043018	1.121894	3.101719	5.600846	1.287682	3.242281

#1	.0516091	.2028736	.0022235	.0081275	.0050477	.0103779
#2	.0473793	.2061182	.0023232	.0087978	.0049566	.0099127

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				30.00000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105708	F .2601257	.4311572	.0119491	.1287676	.0097731
Stddev	.0003776	.0402069	.0203763	.0005769	.0239836	.0004727
%RSD	3.571836	15.45673	4.725949	4.827786	18.62552	4.836804

#1	.0108377	.2885563	.4455654	.0123571	.1457266	.0101074
#2	.0103038	.2316951	.4167490	.0115412	.1118086	.0094389

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.2000000				
Range		30.00000%				

Sample Name: MRL Acquired: 9/5/2018 12:59:28 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096726	1.058359	F .0138236	.0050369	.0225177	.0100057
Stddev	.0007557	.002068	.0009909	.0009738	.0015554	.0016405
%RSD	7.812478	.1954064	7.168290	19.33415	6.907610	16.39575

#1	.0102069	1.059821	.0145243	.0057255	.0236176	.0088457
#2	.0091383	1.056896	.0131229	.0043483	.0214178	.0111657

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			.0100000			
Range			30.00000%			

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1739390	.0380010	.0053640	.0049652	.0091230	.0052722
Stddev	.0039180	.0018304	.0000053	.0000600	.0002419	.0004603
%RSD	2.252497	4.816771	.0983912	1.208222	2.651501	8.730939

#1	.1767094	.0392953	.0053603	.0049228	.0092941	.0049467
#2	.1711685	.0367067	.0053677	.0050077	.0089520	.0055977

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0195796
Stddev	.0005301
%RSD	2.707564

#1	.0199545
#2	.0192048

Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 9/5/2018 12:59:28 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.561	1080.411	9905.549	3588.212
Stddev	43.891	22.325	3.008	4.278
%RSD	2.162583	2.066308	.0303681	.1192349
#1	1998.526	1064.625	9903.422	3585.187
#2	2060.597	1096.197	9907.676	3591.238

Sample Name: Ics 500-448202/2-a Acquired: 9/5/2018 13:03:33 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0378272	1.978022	.0847269	.8555080	1.945765	.0495898	.4505110
Stddev	.0004733	.002186	.0000672	.0212272	.006001	.0002064	.0075239
%RSD	1.251335	.1105147	.0793628	2.481239	.3084389	.4162975	1.670074

#1	.0374925	1.976476	.0847745	.8705179	1.950009	.0494438	.4558311
#2	.0381620	1.979568	.0846794	.8404981	1.941521	.0497358	.4451908

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	9.766574	.0465671	-.004139	.4756043	.1980235	.2555620	1.052463
Stddev	.037695	.0009531	.000179	.0093480	.0005954	.0004653	.035913
%RSD	.3859611	2.046716	4.317474	1.965509	.3006562	.1820731	3.412317

#1	9.739919	.0472411	-.004265	.4822144	.1984445	.2552330	1.077858
#2	9.793228	.0458932	-.004013	.4689942	.1976025	.2558910	1.027069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	9.603484	.5091106	9.645152	.5048213	.9398208	10.91802	.4713051
Stddev	.000869	.0029377	.020703	.0009529	.0195281	.03873	.0095233
%RSD	.0090440	.5770366	.2146422	.1887670	2.077849	.3547049	2.020622

#1	9.604098	.5111879	9.630513	.5054951	.9536292	10.94540	.4780391
#2	9.602870	.5070333	9.659791	.5041475	.9260123	10.89064	.4645711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-448202/2-a Acquired: 9/5/2018 13:03:33 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0887176	.4488700	.0734093	3.872594	.9490665	.9855998	.9977784
Stddev	.0025956	.0110478	.0033972	.042459	.0184516	.0014748	.0014399
%RSD	2.925719	2.461245	4.627787	1.096405	1.944183	.1496362	.1443076
#1	.0905529	.4566820	.0758115	3.902617	.9621137	.9845570	.9967602
#2	.0868822	.4410581	.0710071	3.842571	.9360192	.9866427	.9987965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0861324	.4818119	.4531991
Stddev	.0047865	.0014674	.0071487
%RSD	5.557185	.3045507	1.577376
#1	.0895170	.4807743	.4582539
#2	.0827478	.4828495	.4481442
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.013	1042.394	9547.171	3465.560
Stddev	35.394	22.185	20.334	5.919
%RSD	1.851142	2.128310	.2129823	.1707933
#1	1886.986	1026.707	9532.792	3461.375
#2	1937.040	1058.082	9561.549	3469.745

Sample Name: lcs 500-448202/2-a@2 Acquired: 9/5/2018 13:07:59 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0210739	1.122849	.0454785	.4504663	1.095498	.0281092	.2296907
Stddev	.0000576	.028965	.0008845	.0116237	.015837	.0002378	.0059263
%RSD	.2735608	2.579612	1.944836	2.580363	1.445659	.8460105	2.580107
#1	.0211146	1.143330	.0448531	.4586855	1.106697	.0282774	.2338812
#2	.0210331	1.102367	.0461039	.4422471	1.084300	.0279411	.2255002

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	5.570930	.0243943	.0087934	.2415588	.1144658	.1372496	.6225135
Stddev	.030317	.0003684	.0036739	.0070320	.0018971	.0026469	.0017922
%RSD	.5442007	1.510165	41.78054	2.911108	1.657329	1.928558	.2878993
#1	5.592367	.0246548	.0113913	.2465312	.1158072	.1391213	.6237808
#2	5.549492	.0241338	.0061956	.2365864	.1131243	.1353779	.6212462

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	5.402035	.2860008	5.467428	.2855951	.4733105	6.124004	.2433081
Stddev	.111424	.0053957	.038276	.0026107	.0123079	.084156	.0063098
%RSD	2.062632	1.886606	.7000825	.9141314	2.600392	1.374198	2.593316
#1	5.480824	.2898161	5.494493	.2874412	.4820135	6.183511	.2477697
#2	5.323246	.2821855	5.440362	.2837491	.4646074	6.064497	.2388464

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: lcs 500-448202/2-a@2 Acquired: 9/5/2018 13:07:59 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0461731	.2339240	.0389580	1.979399	.4851598	.5387758	.5395081
Stddev	.0018395	.0061595	.0011013	.049100	.0119878	.0124263	.0129620
%RSD	3.983843	2.633116	2.826911	2.480566	2.470901	2.306391	2.402552
#1	.0474738	.2382794	.0397368	2.014118	.4936365	.5475625	.5486735
#2	.0448724	.2295686	.0381793	1.944680	.4766831	.5299891	.5303426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0445461	.2588038	.2339649
Stddev	.0013526	.0053859	.0055542
%RSD	3.036414	2.081080	2.373946
#1	.0455025	.2626122	.2378923
#2	.0435897	.2549954	.2300375
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1952.194	1058.156	9809.214	3537.998
Stddev	.111	1.056	81.306	2.165
%RSD	.0056692	.0997999	.8288782	.0611905
#1	1952.273	1058.903	9751.722	3536.467
#2	1952.116	1057.409	9866.706	3539.528

Sample Name: 500-150711-c-1-b@5 Acquired: 9/5/2018 13:11:52 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006871	.0468795	-.000955	.0133333	.0326209	-.000042	-.000209
Stddev	.0002371	.0230362	.001837	.0024866	.0001024	.000117	.000970
%RSD	34.51218	49.13922	192.3950	18.64919	.3138913	281.4172	465.0249
#1	.0005194	.0631686	.000344	.0150916	.0325485	-.000124	.000477
#2	.0008548	.0305904	-.002254	.0115750	.0326933	.000041	-.000895

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.12010	.0004744	.0136424	.0011256	-.000439	.0025371	7.649847
Stddev	.10707	.0003661	.0015421	.0004696	.000107	.0000267	.114176
%RSD	.1619255	77.16394	11.30336	41.71779	24.45931	1.052662	1.492525
#1	66.04440	.0007333	.0147328	.0014576	-.000515	.0025183	7.730582
#2	66.19581	.0002156	.0125520	.0007935	-.000363	.0025560	7.569113

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1538366	.0014106	12.54888	.1682410	.0003308	303.4390	.0182466
Stddev	.0032484	.0004897	.03326	.0016195	.0000721	3.0223	.0062156
%RSD	2.111579	34.71827	.2650146	.9626263	21.80288	.9960255	34.06423
#1	.1515397	.0017569	12.57240	.1670958	.0002799	301.3019	.0226416
#2	.1561336	.0010643	12.52537	.1693862	.0003819	305.5761	.0138515

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-150711-c-1-b@5 Acquired: 9/5/2018 13:11:52 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017403	.0033274	.0020822	.2784618	.0000838	.4311687	.0011605
Stddev	.0006242	.0036014	.0017601	.0261860	.0013473	.0010007	.0000818
%RSD	35.87036	108.2331	84.53079	9.403821	1608.380	.2320805	7.053097
#1	.0012989	.0058740	.0033267	.2969782	.0010365	.4318763	.0012184
#2	.0021817	.0007809	.0008376	.2599455	-.000869	.4304611	.0011027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000888	.0000929	.1462832
Stddev	.001594	.0002607	.0222520
%RSD	179.5036	280.4934	15.21158
#1	-.002015	-.000091	.1620177
#2	.000239	.000277	.1305487
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.256	1074.999	8925.151	3454.530
Stddev	205.767	134.854	9.106	6.232
%RSD	11.15113	12.54455	.1020311	.1804141
#1	1699.757	979.643	8918.712	3458.937
#2	1990.756	1170.355	8931.590	3450.123

Sample Name: 500-150652-a-1-b@5 Acquired: 9/5/2018 13:15:58 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000193	.0011204	.0074740	.1191361	.0005960	-.000084	-.000433
Stddev	.000074	.0150525	.0016317	.0034871	.0000187	.000161	.000053
%RSD	38.40302	1343.550	21.83159	2.926963	3.143726	191.9115	12.32687
#1	-.000141	-.009523	.0063202	.1216018	.0006093	.000030	-.000395
#2	-.000246	.011764	.0086278	.1166704	.0005828	-.000198	-.000471

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.430889	.0008727	.0094616	.0000217	.0019867	.9655746	.0081339
Stddev	.017297	.0000439	.0023681	.0002561	.0004593	.0010915	.0553189
%RSD	.5041583	5.029145	25.02900	1180.140	23.11968	.1130392	680.1004
#1	3.418658	.0009037	.0111361	-.000159	.0023115	.9648028	-.030982
#2	3.443119	.0008417	.0077870	.000203	.0016619	.9663464	.047250

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	196.2713	-.000469	.0300664	.0019494	.0035205	47.35127	.0144842
Stddev	.1773	.000339	.0007700	.0000344	.0001180	.00898	.0000990
%RSD	.0903587	72.31294	2.561003	1.766080	3.350742	.0189555	.6838459
#1	196.1459	-.000229	.0295219	.0019737	.0036039	47.35762	.0144142
#2	196.3967	-.000709	.0306108	.0019250	.0034370	47.34492	.0145543

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150652-a-1-b@5 Acquired: 9/5/2018 13:15:58 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014777	-.000690	.0009679	1.825778	-.002097	.0031802	.0002144
Stddev	.0016495	.001365	.0022239	.034640	.000411	.0000024	.0000107
%RSD	111.6278	197.7284	229.7550	1.897260	19.60062	.0766293	5.004388
#1	.0026441	-.001655	-.000605	1.850272	-.001806	.0031819	.0002069
#2	.0003113	.000275	.002540	1.801283	-.002388	.0031785	.0002220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001413	.0010626	.0262340
Stddev	.001860	.0000354	.0000428
%RSD	131.6554	3.331225	.1631150
#1	-.002728	.0010876	.0262642
#2	-.000098	.0010376	.0262037
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1765.746	957.4272	9027.171	3515.557
Stddev	24.027	11.0681	9.839	4.297
%RSD	1.360719	1.156021	.1089884	.1222358
#1	1748.757	949.6009	9020.214	3518.596
#2	1782.736	965.2535	9034.128	3512.519

Sample Name: 500-150652-a-3-b@5 Acquired: 9/5/2018 13:19:57 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010465	.0411983	.0365732	1.086217	1.061134	-.000236
Stddev	.0008933	.0076490	.0010953	.145302	.000878	.000225
%RSD	85.35819	18.56635	2.994870	13.37690	.0827131	95.55831

#1	.0004148	.0357896	.0373477	1.188962	1.060513	-.000076
#2	.0016781	.0466070	.0357987	.983473	1.061754	-.000395

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049103	18.13387	.0012018	-.002508	.0015901	.0288832
Stddev	.0000096	.17369	.0000622	.018563	.0002732	.0007449
%RSD	.1955482	.9577958	5.177013	740.0884	17.17802	2.579191

#1	.0049171	18.01106	.0012458	-.015634	.0013970	.0294100
#2	.0049035	18.25669	.0011578	.010618	.0017833	.0283565

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.47838	.0757170	251.5738	-.000005	.2624500	.0757493
Stddev	.06067	.0559238	.0437	.000458	.0101851	.0006841
%RSD	.4501390	73.85893	.0173828	8891.404	3.880773	.9030603

#1	13.52128	.1152611	251.6047	.000319	.2552481	.0752656
#2	13.43548	.0361729	251.5428	-.000329	.2696520	.0762330

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150652-a-3-b@5 Acquired: 9/5/2018 13:19:57 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119496	349.3585	.1190641	2.671955	F -.024960	.0015370
Stddev	.0017125	1.7061	.0184736	.320769	.000334	.0003537
%RSD	14.33137	.4883441	15.51568	12.00505	1.336645	23.01090

#1	.0131606	348.1522	.1321269	2.898773	-.024724	.0012869
#2	.0107387	350.5649	.1060013	2.445136	-.025196	.0017871

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					20.00000	
Low Limit					-.020000	

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7069752	.0087050	.0544414	.0035492	-.003047	.0016206
Stddev	.0662281	.0012348	.0001580	.0000148	.001469	.0000388
%RSD	9.367811	14.18479	.2902555	.4181419	48.21679	2.396574

#1	.7538056	.0095782	.0545532	.0035597	-.004086	.0016481
#2	.6601449	.0078319	.0543297	.0035387	-.002008	.0015931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	5.909652
Stddev	.656904
%RSD	11.11578

#1	6.374153
#2	5.445151

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150652-a-3-b@5 Acquired: 9/5/2018 13:19:57 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1743.140	1013.964	8547.320	3389.153
Stddev	158.361	102.627	37.413	12.735
%RSD	9.084797	10.12140	.4377119	.3757698
#1	1631.162	941.395	8520.865	3398.158
#2	1855.118	1086.532	8573.774	3380.148

Sample Name: mb 500-448202/1-a Acquired: 9/5/2018 13:24:00 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0004295	.7290728	-.002770	.0060748	.0019717	-.000083	-.008014
Stddev	.0002345	.0029831	.000161	.0008254	.0000913	.000309	.001161
%RSD	54.59756	.4091579	5.797267	13.58681	4.633093	370.5242	14.48810
#1	.0005953	.7311821	-.002883	.0066584	.0020363	-.000302	-.008835
#2	.0002637	.7269635	-.002656	.0054912	.0019071	.000135	-.007193

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	2.095814	.0013216	.0105155	-.000756	.0028919	.0108976	1.349856
Stddev	.015865	.0000336	.0052730	.000107	.0005732	.0001387	.014627
%RSD	.7569940	2.544588	50.14542	14.12450	19.82044	1.272929	1.083565
#1	2.084595	.0012978	.0142441	-.000681	.0024866	.0109957	1.360199
#2	2.107032	.0013453	.0067869	-.000832	.0032972	.0107995	1.339513

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	.2574708	.0024747	1.196777	.0195890	.0020464	.1346283	.0026479
Stddev	.0243706	.0002343	.011888	.0008317	.0000795	.0036850	.0010875
%RSD	9.465383	9.467748	.9933256	4.245613	3.883866	2.737198	41.07076
#1	.2747034	.0023090	1.205183	.0190010	.0019902	.1372340	.0034169
#2	.2402382	.0026404	1.188371	.0201771	.0021026	.1320226	.0018789

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: mb 500-448202/1-a Acquired: 9/5/2018 13:24:00 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004680	.0032702	.0076186	.1045317	.0061774	.0024524	.0065626
Stddev	.000646	.0005269	.0018669	.0020326	.0012807	.0000062	.0002307
%RSD	13.79441	16.11054	24.50519	1.944502	20.73209	.2529260	3.515794
#1	-.005136	.0028977	.0062984	.1030944	.0070830	.0024568	.0063994
#2	-.004223	.0036427	.0089387	.1059690	.0052718	.0024480	.0067257

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.003922	.0018692	.0097888
Stddev	.000585	.0002412	.0003055
%RSD	14.90503	12.90600	3.121358
#1	-.003509	.0016986	.0100049
#2	-.004335	.0020398	.0095728

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1952.677	1033.951	9646.069	3475.657
Stddev	68.332	39.116	15.369	19.418
%RSD	3.499397	3.783183	.1593289	.5586997
#1	1904.359	1006.292	9635.201	3461.926
#2	2000.995	1061.611	9656.936	3489.388

Sample Name: 500-150814-a-11-b Acquired: 9/5/2018 13:28:02 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0036610	157.7123	.0948779	.1611696	.9483546	.0095729	.0032116
Stddev	.0000288	.3323	.0045852	.0003137	.0000937	.0001221	.0008219
%RSD	.7871090	.2107191	4.832707	.1946061	.0098836	1.275457	25.59026

#1	.0036814	157.4773	.0916357	.1609478	.9484209	.0094866	.0026305
#2	.0036407	157.9473	.0981201	.1613914	.9482883	.0096593	.0037928

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	305.3252	.0042235	.5150572	.1053938	.2080544	.2717590	230.9021
Stddev	1.0585	.0002999	.0050539	.0004945	.0001080	.0001797	.5093
%RSD	.3466651	7.100676	.9812277	.4691771	.0519142	.0661068	.2205783

#1	304.5768	.0044355	.5186309	.1050442	.2081308	.2718860	230.5419
#2	306.0737	.0040114	.5114836	.1057435	.2079780	.2716319	231.2622

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	23.59550	.1984370	194.5602	4.752192	.0260755	3.257451	.2788075
Stddev	.02396	.0002422	.7048	.011725	.0002901	.000107	.0010608
%RSD	.1015557	.1220466	.3622521	.2467196	1.112708	.0032789	.3804790

#1	23.57856	.1982657	194.0618	4.743902	.0258704	3.257376	.2780574
#2	23.61244	.1986082	195.0585	4.760483	.0262807	3.257527	.2795576

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 500-150814-a-11-b Acquired: 9/5/2018 13:28:02 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2807469	.0081676	.0063287	3.758311	.0197944	.2773453	1.999996
Stddev	.0048211	.0012952	.0020443	.004057	.0004347	.0000863	.000725
%RSD	1.717227	15.85786	32.30247	.1079535	2.196126	.0311110	.0362526

#1	.2773379	.0072518	.0048832	3.755443	.0201018	.2774063	1.999483
#2	.2841559	.0090834	.0077743	3.761180	.0194870	.2772843	2.000508

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0005422	.3067887	1.104156
Stddev	.0003839	.0011740	.005621
%RSD	70.79946	.3826692	.5090470

#1	.0008136	.3076188	1.100181
#2	.0002708	.3059585	1.108130

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1582.888	1074.238	9999.567	3789.876
Stddev	.511	1.690	9.737	12.143
%RSD	.0322528	.1573292	.0973693	.3204094

#1	1583.249	1073.043	9992.682	3781.289
#2	1582.527	1075.434	10006.45	3798.462

Sample Name: 500-150814-a-12-b Acquired: 9/5/2018 13:31:58 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043827	178.6486	.0492442	.1498132	1.145415	.0084308	.0044987
Stddev	.0005948	.0047	.0003056	.0008750	.000786	.0001648	.0008327
%RSD	13.57225	.0026086	.6205396	.5840872	.0686093	1.954307	18.50888
#1	.0039621	178.6519	.0490281	.1504319	1.144859	.0083143	.0050875
#2	.0048033	178.6453	.0494602	.1491944	1.145971	.0085473	.0039100

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	60.51499	.0038044	.5021393	.1150315	.2445688	.2382908	207.4293
Stddev	.23259	.0000998	.0009595	.0005143	.0010153	.0002447	.0045
%RSD	.3843527	2.623505	.1910931	.4470819	.4151592	.1026761	.0021503
#1	60.67946	.0038749	.5014608	.1153952	.2452868	.2381178	207.4325
#2	60.35053	.0037338	.5028178	.1146679	.2438508	.2384639	207.4262

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.83011	.2512961	69.25850	6.875748	.0179127	2.433019	.3281487
Stddev	.07997	.0007260	.06423	.012644	.0006261	.005963	.0012772
%RSD	.2873534	.2888858	.0927374	.1838872	3.495191	.2450854	.3892150
#1	27.88666	.2518094	69.30392	6.884689	.0183554	2.437236	.3290518
#2	27.77356	.2507828	69.21308	6.866808	.0174700	2.428803	.3272456

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-150814-a-12-b Acquired: 9/5/2018 13:31:58 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1833502	.0046419	.0081668	3.231458	.0201019	.2417876	1.991166
Stddev	.0017227	.0016817	.0028283	.000352	.0000675	.0000031	.000257
%RSD	.9395585	36.22763	34.63211	.0108817	.3356401	.0013030	.0128947
#1	.1845683	.0034528	.0101667	3.231706	.0200542	.2417853	1.990985
#2	.1821321	.0058310	.0061668	3.231209	.0201496	.2417898	1.991348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004901	.3093397	.6784106
Stddev	.001524	.0011422	.0001413
%RSD	31.09339	.3692210	.0208233
#1	-.003824	.3085321	.6783107
#2	-.005979	.3101474	.6785104
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1709.103	1141.057	10494.26	3921.965
Stddev	8.825	3.472	11.99	39.259
%RSD	.5163712	.3043047	.1142710	1.001000
#1	1702.862	1138.601	10485.78	3894.205
#2	1715.343	1143.512	10502.74	3949.725

Sample Name: 500-150814-a-13-b Acquired: 9/5/2018 13:35:53 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020009	66.96751	.0422403	.1667732	.4078295	.0044296
Stddev	.0005364	.04354	.0022932	.0058398	.0006850	.0002056
%RSD	26.81140	.0650121	5.429020	3.501657	.1679722	4.640432

#1	.0023802	66.93672	.0438619	.1709026	.4083139	.0045749
#2	.0016215	66.99829	.0406187	.1626438	.4073451	.0042842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000101	F 880.0212	.0035207	.2608362	.0519215	.1038983
Stddev	.001498	6.8857	.0000557	.0183256	.0018443	.0015402
%RSD	1476.273	.7824462	1.581788	7.025700	3.552005	1.482454

#1	.000958	875.1523	.0034813	.2737944	.0532256	.1028092
#2	-.001161	884.8901	.0035601	.2478781	.0506174	.1049874

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1559276	121.4943	16.33853	.1058599	557.3820	4.475082
Stddev	.0006554	.1711	.00424	.0007927	.5086	.014894
%RSD	.4203254	.1408248	.0259455	.7488115	.0912479	.3328194

#1	.1563911	121.3733	16.34152	.1064204	557.0224	4.464550
#2	.1554642	121.6153	16.33553	.1052993	557.7416	4.485614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150814-a-13-b Acquired: 9/5/2018 13:35:53 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145266	1.945800	.1466558	.1947432	.0048488	.0092480
Stddev	.0000496	.003776	.0049252	.0055612	.0011655	.0013184
%RSD	.3412543	.1940798	3.358328	2.855671	24.03632	14.25593

#1	.0145617	1.943130	.1501385	.1986756	.0040247	.0083157
#2	.0144916	1.948470	.1431732	.1908108	.0056729	.0101802

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.540036	.0156594	.4233997	1.183586	-.006610	.1599533
Stddev	.113989	.0037960	.0006888	.002039	.002162	.0010320
%RSD	3.219984	24.24089	.1626818	.1723120	32.71131	.6451706

#1	3.620638	.0183436	.4238868	1.182144	-.005081	.1606830
#2	3.459434	.0129752	.4229127	1.185028	-.008139	.1592236

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4225377
Stddev	.0103839
%RSD	2.457505

#1	.4298802
#2	.4151952

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150814-a-13-b Acquired: 9/5/2018 13:35:53 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1430.282	971.0532	9005.305	3507.071
Stddev	33.880	24.0961	39.113	14.379
%RSD	2.368787	2.481440	.4343356	.4099923
#1	1406.325	954.0146	8977.648	3496.904
#2	1454.239	988.0917	9032.963	3517.238

Sample Name: 500-150814-a-14-b Acquired: 9/5/2018 13:39:55 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0039986	155.2436	.1247500	.1681352	.7138047	.0089194	.0026251
Stddev	.0001294	.4889	.0023510	.0004346	.0000941	.0000197	.0018808
%RSD	3.235513	.3149171	1.884601	.2584699	.0131767	.2208666	71.64476

#1	.0040900	154.8979	.1230876	.1684425	.7137382	.0089055	.0039550
#2	.0039071	155.5893	.1264124	.1678279	.7138712	.0089334	.0012952

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	311.9187	.0034201	.4959175	.0970165	.2235223	.3092686	281.2067
Stddev	2.3191	.0001201	.0065627	.0000075	.0020828	.0014362	1.8284
%RSD	.7435090	3.510780	1.323346	.0077542	.9317861	.4643926	.6501843

#1	310.2788	.0035050	.4912770	.0970218	.2249951	.3082531	279.9138
#2	313.5586	.0033352	.5005581	.0970112	.2220496	.3102842	282.4995

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	27.49746	.2044895	223.0795	3.957414	.0427108	1.993685	.3141573
Stddev	.00132	.0016479	1.3565	.022221	.0003119	.004249	.0005181
%RSD	.0048113	.8058400	.6080647	.5614947	.7303640	.2131382	.1649240

#1	27.49652	.2056547	222.1203	3.941701	.0429314	1.996690	.3137909
#2	27.49839	.2033243	224.0387	3.973126	.0424902	1.990680	.3145236

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150814-a-14-b Acquired: 9/5/2018 13:39:55 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1760701	.0087192	.0055939	4.035416	.0209339	.2723063	1.723289
Stddev	.0013511	.0020059	.0002238	.001480	.0016030	.0008610	.004121
%RSD	.7673553	23.00511	4.001529	.0366693	7.657318	.3161734	.2391341

#1	.1770255	.0073009	.0057522	4.034370	.0220673	.2716975	1.720375
#2	.1751147	.0101376	.0054356	4.036462	.0198004	.2729151	1.726203

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000030	.3257776	.7837545
Stddev	.003344	.0005361	.0050224
%RSD	11230.44	.1645541	.6408072

#1	.002335	.3253985	.7802031
#2	-.002395	.3261566	.7873058

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1573.966	1085.480	10049.47	3788.462
Stddev	4.238	6.287	9.34	4.473
%RSD	.2692384	.5791873	.0929355	.1180692

#1	1570.970	1081.035	10056.07	3785.299
#2	1576.963	1089.926	10042.86	3791.625

Sample Name: CCV Acquired: 9/5/2018 13:43:51 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4762440	53.47240	.5074266	.5097663	.5162878	F .5588902
Stddev	.0002202	.04758	.0047940	.0015260	.0008819	.0010474
%RSD	.0462261	.0889831	.9447720	.2993563	.1708201	.1874162

#1	.4763996	53.43875	.5108165	.5086873	.5169114	.5596309
#2	.4760883	53.50605	.5040367	.5108454	.5156642	.5581495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.5000000
Range						10.00000%

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5241096	27.25019	.5174169	F -.046442	.5203537	.5132682
Stddev	.0027138	.06572	.0007959	.019874	.0020952	.0003330
%RSD	.5177924	.2411664	.1538249	42.79342	.4026584	.0648792

#1	.5221907	27.29666	.5168541	-.032389	.5188722	.5130327
#2	.5260286	27.20372	.5179797	-.060496	.5218353	.5135036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5140455	F 27.65235	53.36974	4.181162	26.94183	5.286398
Stddev	.0000639	.08317	.07723	.003433	.06416	.008171
%RSD	.0124336	.3007555	.1447015	.0821064	.2381512	.1545598

#1	.5140907	27.71116	53.42435	4.178734	26.98720	5.292175
#2	.5140003	27.59354	53.31514	4.183589	26.89646	5.280620

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.00000				
Range		10.00000%				

Sample Name: CCV Acquired: 9/5/2018 13:43:51 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4881821	26.26480	.5176696	.5345338	.4804968	.4905764
Stddev	.0010474	.06112	.0025186	.0020367	.0030060	.0012611
%RSD	.2145573	.2327124	.4865260	.3810217	.6256058	.2570563

#1	.4874415	26.30802	.5158887	.5330937	.4783712	.4896847
#2	.4889228	26.22158	.5194505	.5359740	.4826224	.4914681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4662001	.5308732	.5115650	.5146878	.5115098	4.860525
Stddev	.0025501	.0029366	.0003402	.0006783	.0027836	.000358
%RSD	.5469977	.5531582	.0665085	.1317816	.5441977	.0073564

#1	.4680033	.5287967	.5113244	.5142082	.5095414	4.860273
#2	.4643969	.5329497	.5118056	.5151674	.5134781	4.860778

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5161297
Stddev	.0025893
%RSD	.5016738

#1	.5142988
#2	.5179606

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/5/2018 13:43:51 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1834.444	1043.566	9636.211	3529.253
Stddev	3.238	.088	9.792	14.007
%RSD	.1765162	.0084158	.1016123	.3968747
#1	1836.734	1043.629	9643.134	3519.348
#2	1832.154	1043.504	9629.287	3539.157

Sample Name: CCB Acquired: 9/5/2018 13:47:44 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0004002	.0160924	-.001368	.0001219	-.000393	-.000111	-.000176
Stddev	.0002586	.0028728	.002475	.0003216	.000000	.000270	.001513
%RSD	64.62123	17.85162	180.9872	263.8483	.0476664	242.6479	858.0584
#1	.0002174	.0140611	.000383	.0003493	-.000393	.000080	-.001246
#2	.0005831	.0181238	-.003118	-.000106	-.000393	-.000303	.000893

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0057925	.0002459	-.000880	-.000378	.0002041	.0008141	.0484631
Stddev	.0058519	.0001754	.004681	.000241	.0002711	.0004539	.0471931
%RSD	101.0242	71.33722	532.0137	63.64410	132.7999	55.75485	97.37947
#1	.0099305	.0003699	-.004189	-.000208	.0000124	.0004931	.0150925
#2	.0016546	.0001219	.002430	-.000548	.0003958	.0011350	.0818337

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	.0066128	.0009173	.0265108	-.000088	.0005562	.0090274	.0020500
Stddev	.0066632	.0003035	.0020229	.000730	.0001202	.0017937	.0019065
%RSD	100.7617	33.09226	7.630345	825.9466	21.61126	19.86912	93.00148
#1	.0019012	.0011319	.0250804	-.000604	.0004712	.0077591	.0033981
#2	.0113244	.0007026	.0279411	.000428	.0006412	.0102957	.0007019

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 9/5/2018 13:47:44 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002956	.0030754	-.000469	.0100552	-.000134	.0000536	.0007744
Stddev	.0040059	.0009534	.000820	.0051842	.001019	.0000122	.0000823
%RSD	1355.310	30.99987	174.5945	51.55704	760.7544	22.83710	10.62338
#1	-.002537	.0037495	.000110	.0063895	.000587	.0000622	.0008325
#2	.003128	.0024012	-.001049	.0137210	-.000855	.0000449	.0007162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000068	.0005087	.0001447
Stddev	.001383	.0000808	.0001501
%RSD	2046.448	15.87571	103.7063
#1	.000910	.0005658	.0002508
#2	-.001045	.0004516	.0000386
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2060.418	1103.716	9994.459	3568.566
Stddev	91.306	51.967	10.147	6.230
%RSD	4.431411	4.708326	.1015257	.1745749
#1	1995.855	1066.970	10001.63	3564.161
#2	2124.980	1140.461	9987.28	3572.971

Sample Name: CCVL Acquired: 9/5/2018 13:51:49 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046769	.2083254	.0099073	.0493988	.0099364	.0042539
Stddev	.0000127	.0186293	.0036956	.0017487	.0000363	.0001348
%RSD	.2717874	8.942430	37.30221	3.540041	.3654930	3.168746

#1	.0046859	.2214983	.0125205	.0506353	.0099621	.0041585
#2	.0046679	.1951524	.0072941	.0481622	.0099108	.0043492

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489414	.2118621	.0020501	F -.008630	.0044593	.0112077
Stddev	.0014736	.0062007	.0001717	.008650	.0005699	.0005590
%RSD	3.010903	2.926785	8.373739	100.2307	12.77934	4.987646

#1	.0499834	.2162467	.0021715	-.014747	.0048623	.0116029
#2	.0478995	.2074775	.0019287	-.002514	.0040563	.0108124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110635	.2334717	.4981178	.0121051	.1195601	.0101624
Stddev	.0000520	.0161599	.0061858	.0002718	.0252812	.0001494
%RSD	.4704765	6.921581	1.241839	2.245214	21.14521	1.469763

#1	.0110267	.2448984	.5024918	.0122973	.1016835	.0100568
#2	.0111003	.2220449	.4937437	.0119129	.1374366	.0102680

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 9/5/2018 13:51:49 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097083	1.046195	F .0133260	F .0067187	.0185108	.0118719
Stddev	.0003029	.000232	.0012808	.0024003	.0009042	.0001062
%RSD	3.120271	.0221568	9.611217	35.72541	4.884639	.8944922

#1	.0099225	1.046359	.0142317	.0084160	.0178715	.0117968
#2	.0094941	1.046031	.0124204	.0050215	.0191502	.0119470

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value			.0100000	.0050000		
Range			30.00000%	30.00000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1789639	.0383796	.0053494	.0053557	.0107175	.0048063
Stddev	.0030908	.0028680	.0000056	.0000433	.0019863	.0000052
%RSD	1.727027	7.472595	.1053899	.8077153	18.53356	.1079998

#1	.1811494	.0404075	.0053454	.0053251	.0093129	.0048026
#2	.1767784	.0363516	.0053534	.0053863	.0121220	.0048099

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0197598
Stddev	.0009420
%RSD	4.767207

#1	.0204259
#2	.0190937

Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 9/5/2018 13:51:49 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2020.339	1078.249	9900.373	3569.941
Stddev	51.927	22.520	1.749	11.046
%RSD	2.570224	2.088528	.0176645	.3094108
#1	1983.621	1062.326	9901.609	3562.130
#2	2057.058	1094.173	9899.136	3577.751

Sample Name: 500-150814-a-15-b Acquired: 9/5/2018 13:57:01 Type: Unk
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032390	119.9451	.0943450	.2207426	.4174099	.0079782	.0009889
Stddev	.0000732	.3031	.0047316	.0001919	.0001089	.0002518	.0023351
%RSD	2.260185	.2527298	5.015258	.0869296	.0260876	3.156470	236.1474

#1	.0031873	119.7307	.0909993	.2206069	.4174869	.0081562	.0026400
#2	.0032908	120.1595	.0976908	.2208783	.4173328	.0078001	-.000662

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	362.0406	.0087349	.4477984	.1230373	.1811126	.5583450	213.8716
Stddev	2.5300	.0002156	.0100559	.0006776	.0006423	.0000329	.7880
%RSD	.6988214	2.468694	2.245620	.5507397	.3546250	.0058849	.3684480

#1	360.2516	.0088874	.4549090	.1225581	.1815668	.5583683	213.3144
#2	363.8295	.0085824	.4406879	.1235164	.1806585	.5583218	214.4288

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.52983	.2363603	208.6906	2.879962	.0534283	1.470354	.3904333
Stddev	.06449	.0007073	1.0770	.024794	.0000405	.002543	.0003682
%RSD	.1718338	.2992282	.5160661	.8609247	.0758019	.1729684	.0943044

#1	37.57543	.2368604	207.9290	2.862430	.0533997	1.468555	.3906936
#2	37.48423	.2358602	209.4521	2.897495	.0534570	1.472152	.3901729

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-150814-a-15-b Acquired: 9/5/2018 13:57:01 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2262323	.0061183	.0065713	3.483445	.0156579	.3920366	1.374991
Stddev	.0019496	.0012194	.0043395	.008285	.0007171	.0002116	.002391
%RSD	.8617663	19.92988	66.03672	.2378262	4.579838	.0539863	.1738818
#1	.2248537	.0052561	.0035028	3.477587	.0151508	.3918869	1.373301
#2	.2276108	.0069806	.0096397	3.489303	.0161650	.3921862	1.376682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0053176	.2261660	.9030847
Stddev	.0004192	.0007472	.0028238
%RSD	7.883196	.3303957	.3126789
#1	.0056140	.2256376	.9010881
#2	.0050212	.2266943	.9050814
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1543.529	1010.868	9498.884	3621.169
Stddev	3.934	3.738	28.896	.579
%RSD	.2548874	.3697720	.3042020	.0159830
#1	1540.747	1008.225	9478.451	3621.578
#2	1546.311	1013.511	9519.316	3620.759

Sample Name: 500-150867-a-4-b Acquired: 9/5/2018 14:00:57 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0011418	31.91436	.0129090	.0366510	.4038210	.0017287	.0020847
Stddev	.0011286	.31740	.0019750	.0000024	.0016298	.0002907	.0002500
%RSD	98.85174	.9945317	15.29949	.0065000	.4035914	16.81382	11.99176
#1	.0003437	31.68992	.0143055	.0366493	.4026685	.0015232	.0022615
#2	.0019398	32.13879	.0115125	.0366527	.4049734	.0019342	.0019080

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	529.8505	.0038320	.1635202	.0234198	.0800008	.0848148	50.88027
Stddev	5.6208	.0004210	.0074561	.0001172	.0003208	.0001816	.72482
%RSD	1.060828	10.98579	4.559726	.5003294	.4009758	.2140861	1.424561
#1	525.8760	.0035343	.1687924	.0233369	.0797740	.0849432	50.36775
#2	533.8250	.0041296	.1582480	.0235027	.0802276	.0846864	51.39280

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.360515	.0289614	251.0699	1.653987	.0016287	1.496489	.0644232
Stddev	.009589	.0001180	1.8453	.020454	.0006302	.012313	.0005286
%RSD	.2199083	.4074740	.7349578	1.236655	38.69575	.8227711	.8205186
#1	4.353734	.0288779	249.7652	1.639524	.0011830	1.487782	.0640495
#2	4.367296	.0290448	252.3747	1.668450	.0020743	1.505195	.0647970

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: 500-150867-a-4-b Acquired: 9/5/2018 14:00:57 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5869743	.0159286	.0061398	4.133742	.0692580	.2280896	1.525852
Stddev	.0027394	.0023510	.0041889	.020383	.0008240	.0000743	.000680
%RSD	.4667009	14.75949	68.22436	.4930896	1.189772	.0325795	.0445806
#1	.5889114	.0142662	.0091018	4.148155	.0698407	.2281422	1.525371
#2	.5850373	.0175910	.0031779	4.119329	.0686753	.2280371	1.526333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0006922	.1012123	.4499768
Stddev	.0011335	.0007487	.0007263
%RSD	163.7594	.7397598	.1614044
#1	.0014937	.1017417	.4494632
#2	-.000109	.1006828	.4504903
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1546.758	951.5942	8881.435	3357.383
Stddev	10.585	9.6136	26.855	9.020
%RSD	.6843591	1.010262	.3023755	.2686677
#1	1539.273	944.7963	8862.445	3363.761
#2	1554.243	958.3920	8900.425	3351.005

Sample Name: 500-150873-a-1-b Acquired: 9/5/2018 14:04:53 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0041293	154.1029	.0556340	.0336636	.9080518	.0064077	.0017025
Stddev	.0001226	.1461	.0008606	.0005229	.0002019	.0004312	.0005033
%RSD	2.967692	.0947756	1.546932	1.553209	.0222357	6.729832	29.56075
#1	.0042160	153.9996	.0562425	.0332938	.9079091	.0067126	.0013466
#2	.0040427	154.2062	.0550254	.0340333	.9081946	.0061028	.0020584

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	14.24248	.0021653	.6335568	.1286910	.1646410	.1124477	175.8480
Stddev	.00836	.0001011	.0010325	.0000151	.0000273	.0000425	.5016
%RSD	.0586661	4.668762	.1629634	.0117352	.0165916	.0377647	.2852640
#1	14.23657	.0022368	.6342868	.1286803	.1646217	.1124777	175.4932
#2	14.24839	.0020938	.6328267	.1287016	.1646603	.1124177	176.2027

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	11.05103	.1172632	17.90584	12.48594	.0120987	.4479815	.1317932
Stddev	.04430	.0000063	.01898	.00523	.0000192	.0006712	.0003405
%RSD	.4008607	.0054073	.1060027	.0419044	.1587329	.1498165	.2583603
#1	11.08236	.1172587	17.89241	12.48224	.0120851	.4475069	.1315525
#2	11.01971	.1172676	17.91926	12.48964	.0121123	.4484560	.1320340

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-150873-a-1-b Acquired: 9/5/2018 14:04:53 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1599078	.0042236	.0067490	2.790596	.0157771	.1026189	1.953665
Stddev	.0016547	.0008975	.0002157	.005702	.0001264	.0001157	.003366
%RSD	1.034800	21.24872	3.196712	.2043315	.8014231	.1127007	.1722683
#1	.1587378	.0048582	.0065964	2.786564	.0158665	.1025371	1.951285
#2	.1610779	.0035890	.0069015	2.794628	.0156877	.1027007	1.956044

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002328	.2862095	.4123270
Stddev	.003405	.0022497	.0003757
%RSD	146.2386	.7860204	.0911140
#1	.000079	.2846188	.4120614
#2	-.004736	.2878003	.4125927

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.212	1162.706	10620.89	3839.221
Stddev	.332	2.746	20.83	17.118
%RSD	.0184332	.2361843	.1960913	.4458627
#1	1801.447	1164.648	10606.16	3827.117
#2	1800.978	1160.764	10635.61	3851.325

Sample Name: 500-150670-a-1-a Acquired: 9/5/2018 14:08:47 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0059997	132.0327	.1777573	.3017250	1.550234	.0122134	.0172837
Stddev	.0003857	.2502	.0007285	.0002354	.002333	.0000165	.0018193
%RSD	6.428808	.1895180	.4098090	.0780277	.1504639	.1352667	10.52608
#1	.0062724	131.8558	.1782724	.3018915	1.548584	.0122018	.0185701
#2	.0057270	132.2096	.1772422	.3015585	1.551883	.0122251	.0159972

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	249.6765	.0175473	.3216257	.0670961	.1969108	1.153786	278.5661
Stddev	.9879	.0000742	.0061644	.0000639	.0013246	.001339	.6867
%RSD	.3956541	.4227197	1.916627	.0951851	.6726906	.1160782	.2464949
#1	250.3750	.0174949	.3172668	.0670510	.1978474	1.152839	279.0516
#2	248.9779	.0175998	.3259846	.0671413	.1959741	1.154733	278.0805

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	10.68497	.0837772	113.0358	3.607175	.0145292	16.81527	.2108022
Stddev	.02640	.0005439	.3690	.004170	.0000579	.00597	.0007972
%RSD	.2470941	.6491615	.3264259	.1156010	.3987644	.0354746	.3781733
#1	10.70364	.0833927	113.2967	3.610124	.0144882	16.81105	.2102385
#2	10.66630	.0841618	112.7749	3.604227	.0145702	16.81949	.2113659

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: 500-150670-a-1-a Acquired: 9/5/2018 14:08:47 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.625875	.0203621	.0079057	2.154322	.1236498	.6772915	3.036226
Stddev	.009504	.0018254	.0012200	.013521	.0000086	.0012500	.001887
%RSD	.3619231	8.964852	15.43161	.6276269	.0069329	.1845544	.0621450
#1	2.619155	.0216528	.0087683	2.144761	.1236437	.6781754	3.037560
#2	2.632595	.0190713	.0070430	2.163883	.1236559	.6764076	3.034892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002375	.2509392	5.306792
Stddev	.000945	.0001887	.017498
%RSD	39.79490	.0752032	.3297244
#1	-.003043	.2508057	5.294420
#2	-.001706	.2510726	5.319165
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1643.271	1045.946	9887.122	3691.704
Stddev	4.018	4.519	6.079	13.410
%RSD	.2444913	.4320788	.0614891	.3632589
#1	1646.112	1049.142	9882.824	3682.222
#2	1640.430	1042.750	9891.421	3701.187

Sample Name: 500-150670-a-2-a Acquired: 9/5/2018 14:12:39 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008720	13.11226	.0213933	.0722245	.1232133	.0014512
Stddev	.0004594	.06834	.0042207	.0016805	.0007163	.0003180
%RSD	52.68997	.5211868	19.72911	2.326833	.5813666	21.91183

#1	.0011968	13.06393	.0184088	.0734128	.1227068	.0016761
#2	.0005471	13.16058	.0243778	.0710362	.1237198	.0012264

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018836	F 1480.946	.0053894	.0814062	.0145174	.0319217
Stddev	.0001202	8.125	.0005619	.0125807	.0003797	.0009613
%RSD	6.378737	.5486590	10.42687	15.45417	2.615766	3.011429

#1	.0019686	1486.691	.0057868	.0725103	.0147859	.0312420
#2	.0017987	1475.200	.0049921	.0903021	.0142488	.0326014

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0776420	41.33062	5.923521	.0303481	903.6064	3.111385
Stddev	.0002006	.12044	.005452	.0009878	1.3715	.004014
%RSD	.2584054	.2914112	.0920429	3.254974	.1517840	.1290089

#1	.0775001	41.41579	5.919665	.0296496	902.6366	3.108547
#2	.0777838	41.24546	5.927376	.0310466	904.5762	3.114224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-150670-a-2-a Acquired: 9/5/2018 14:12:39 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037177	1.720102	.0791721	.3094603	.0065816	.0054711
Stddev	.0001263	.008651	.0019557	.0086826	.0017779	.0011243
%RSD	3.397961	.5029272	2.470125	2.805733	27.01319	20.55021

#1	.0036283	1.713985	.0805550	.3155999	.0078388	.0062661
#2	.0038070	1.726220	.0777893	.3033208	.0053245	.0046761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.348715	.0246591	.4953121	.2186186	-.003710	.1082374
Stddev	.028167	.0012674	.0011488	.0000375	.003600	.0005822
%RSD	2.088405	5.139743	.2319242	.0171426	97.01747	.5378532

#1	1.368632	.0237629	.4944998	.2185921	-.006256	.1086491
#2	1.328798	.0255553	.4961244	.2186451	-.001165	.1078258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.7112830
Stddev	.0146187
%RSD	2.055260

#1	.7216200
#2	.7009460

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-150670-a-2-a Acquired: 9/5/2018 14:12:39 Type: Unk

Method: P6090518A Mode: CONC Corr. Factor: 1.000000

User: NOONE Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1327.116	836.8655	7860.636	3221.797
Stddev	25.808	16.0976	17.221	.547
%RSD	1.944693	1.923562	.2190747	.0169870
#1	1308.866	825.4828	7872.813	3222.184
#2	1345.365	848.2483	7848.459	3221.410

Sample Name: mb 500-448309/1-a Acquired: 9/5/2018 14:16:40 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0005826	.0707578	-.002070	.0018091	.0003056	-.000282	-.004430
Stddev	.0005819	.0038844	.000614	.0001199	.0000186	.000067	.002161
%RSD	99.87642	5.489768	29.66287	6.629024	6.099313	23.65689	48.79461
#1	.0009941	.0680111	-.001636	.0018939	.0003188	-.000235	-.002901
#2	.0001712	.0735045	-.002504	.0017243	.0002924	-.000330	-.005958

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.3165447	.0007234	.0017596	-.000885	.0014130	.0099384	.1268088
Stddev	.0111138	.0002079	.0065172	.000470	.0002889	.0003231	.0049072
%RSD	3.510980	28.73426	370.3893	53.13016	20.44855	3.250539	3.869771
#1	.3244034	.0008704	.0063680	-.001217	.0016174	.0097099	.1233389
#2	.3086861	.0005764	-.002849	-.000552	.0012087	.0101668	.1302787

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.012549	.0008923	.1368218	.0018048	.0008716	.0785017	.0008216
Stddev	.008584	.0000605	.0088454	.0006782	.0000311	.0012231	.0013659
%RSD	68.40702	6.783747	6.464913	37.57676	3.572274	1.558041	166.2425
#1	-.006479	.0009351	.1305671	.0022843	.0008496	.0776368	.0017874
#2	-.018619	.0008495	.1430764	.0013253	.0008937	.0793666	-.000144

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: mb 500-448309/1-a Acquired: 9/5/2018 14:16:40 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002175	.0019724	.0070281	.0722805	.0088173	.0004307	.0023259
Stddev	.001756	.0012820	.0011456	.0002638	.0013012	.0000006	.0000270
%RSD	80.74078	64.99447	16.29980	.3650131	14.75679	.1279359	1.162051
#1	-.000933	.0028789	.0062181	.0724670	.0097373	.0004303	.0023451
#2	-.003417	.0010660	.0078381	.0720939	.0078972	.0004311	.0023068

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002606	.0001067	.0119763
Stddev	.002373	.0003787	.0009885
%RSD	91.06688	354.9019	8.253683
#1	-.004284	-.000161	.0126752
#2	-.000928	.000375	.0112773

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2025.088	1071.450	9884.814	3517.829
Stddev	106.796	68.859	9.077	6.024
%RSD	5.273661	6.426699	.0918268	.1712316
#1	1949.572	1022.759	9878.396	3513.570
#2	2100.604	1120.141	9891.233	3522.088

Sample Name: Ics 500-448309/2-a Acquired: 9/5/2018 14:20:43 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0413114	2.074903	.0897304	.8738604	1.979790	.0523140	.4606977
Stddev	.0002094	.003987	.0001798	.0081454	.000678	.0000263	.0038094
%RSD	.5068337	.1921351	.2004103	.9321196	.0342313	.0502049	.8268687
#1	.0411634	2.077722	.0898576	.8796201	1.979311	.0522954	.4633913
#2	.0414595	2.072084	.0896033	.8681007	1.980270	.0523326	.4580040

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	10.16295	.0475644	.0024709	.4808675	.1978262	.2605908	1.175160
Stddev	.02570	.0008074	.0039660	.0039892	.0009692	.0001715	.007716
%RSD	.2529180	1.697577	160.5109	.8295756	.4899448	.0657978	.6566024
#1	10.18113	.0481354	-.000334	.4836882	.1985115	.2607120	1.169704
#2	10.14478	.0469935	.005275	.4780467	.1971408	.2604696	1.180616

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	9.833023	.5275536	10.04893	.5220885	.9457981	9.953028	.4781883
Stddev	.016342	.0025294	.02681	.0005108	.0087604	.022508	.0056925
%RSD	.1661910	.4794598	.2667854	.0978410	.9262454	.2261439	1.190434
#1	9.844578	.5293421	10.06788	.5217273	.9519927	9.937112	.4822135
#2	9.821467	.5257650	10.02997	.5224497	.9396036	9.968944	.4741631

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: lcs 500-448309/2-a Acquired: 9/5/2018 14:20:43 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0953778	.4535740	.0785755	2.732353	.9566983	.9884285	.9998919
Stddev	.0003628	.0033122	.0008783	.006986	.0152297	.0020520	.0030621
%RSD	.3803738	.7302402	1.117759	.2556740	1.591903	.2076044	.3062391
#1	.0956343	.4559161	.0779545	2.737293	.9674673	.9898795	1.002057
#2	.0951213	.4512319	.0791966	2.727414	.9459293	.9869775	.997727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0901073	.4676383	.4535674
Stddev	.0000487	.0014072	.0050562
%RSD	.0539967	.3009196	1.114754
#1	.0901417	.4686333	.4571427
#2	.0900729	.4666432	.4499922
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1899.890	1026.984	9675.218	3487.502
Stddev	17.686	9.594	39.693	17.071
%RSD	.9309130	.9342226	.4102547	.4894871
#1	1887.384	1020.200	9647.151	3475.432
#2	1912.397	1033.768	9703.286	3499.573

Sample Name: 500-150745-b-1-a@10 Acquired: 9/5/2018 14:24:43 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0000693	.0073419	-.000115	.0007779	-.000297	-.000205	.0004406
Stddev	.0004214	.0013448	.001319	.0002183	.000172	.000065	.0007347
%RSD	608.1110	18.31737	1149.754	28.06326	57.75301	31.55360	166.7583
#1	.0003673	.0082928	.000818	.0006236	-.000176	-.000159	-.000079
#2	-.000229	.0063910	-.001047	.0009323	-.000418	-.000250	.000960

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	3.265908	.0004005	-.001926	-.000129	-.000006	.0033018	-.021723
Stddev	.006711	.0000169	.006274	.000120	.000028	.0001872	.068034
%RSD	.2054794	4.219601	325.7181	92.67901	459.4850	5.669355	313.1897
#1	3.270653	.0003886	-.006363	-.000045	.000014	.0031694	.026384
#2	3.261163	.0004125	.002510	-.000214	-.000026	.0034342	-.069830

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.053279	.0011545	.0988775	-.000165	.0005041	34.10295	.0041700
Stddev	.018518	.0004264	.0103772	.000315	.0001546	.02313	.0013440
%RSD	34.75712	36.93646	10.49502	190.3020	30.67351	.0678103	32.23085
#1	-.066374	.0008530	.1062153	-.000388	.0003948	34.08659	.0051204
#2	-.040185	.0014560	.0915397	.000057	.0006134	34.11930	.0032196

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-150745-b-1-a@10 Acquired: 9/5/2018 14:24:43 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000489	.0028856	.0003709	.7741101	.0006322	.0017545	.0012344
Stddev	.0003185	.0003928	.0011232	.0041274	.0002892	.0000180	.0000542
%RSD	650.9640	13.61295	302.8125	.5331815	45.75512	1.027571	4.388049
#1	-.000176	.0031633	-.000423	.7770286	.0004276	.0017417	.0011961
#2	.000274	.0026078	.001165	.7711916	.0008367	.0017672	.0012727

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000251	.0001193	.0046301
Stddev	.001404	.0001965	.0000855
%RSD	558.6302	164.7659	1.847357
#1	-.001244	.0002582	.0045696
#2	.000741	-.000020	.0046906

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1900.878	992.4903	9495.304	3564.482
Stddev	16.333	4.6354	7.879	15.326
%RSD	.8592482	.4670506	.0829821	.4299763
#1	1889.328	989.2125	9489.732	3553.644
#2	1912.427	995.7680	9500.875	3575.319

Sample Name: lcs 500-448309/2-a@2 Acquired: 9/5/2018 14:30:04 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0212012	1.018915	.0458908	.4558531	.9784028	.0258481	.2332683
Stddev	.0000018	.036820	.0024776	.0029550	.0003659	.0000185	.0018168
%RSD	.0084703	3.613638	5.398884	.6482330	.0373949	.0714218	.7788224
#1	.0212025	1.044951	.0441389	.4537636	.9781441	.0258351	.2319837
#2	.0212000	.992880	.0476427	.4579426	.9786615	.0258612	.2345529

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	5.021399	.0246839	.0014662	.2404011	.0976702	.1300986	.6018045
Stddev	.003400	.0002925	.0032550	.0002305	.0005095	.0001343	.0777420
%RSD	.0677022	1.184994	222.0049	.0958812	.5216197	.1031908	12.91814
#1	5.023803	.0244771	-.000835	.2405641	.0980305	.1301935	.6567764
#2	5.018995	.0248907	.003768	.2402381	.0973100	.1300036	.5468326

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.850734	.2570833	4.999456	.2585000	.4745151	4.903962	.2432401
Stddev	.004482	.0002606	.024343	.0010516	.0025312	.007655	.0006007
%RSD	.0924057	.1013576	.4869158	.4068109	.5334286	.1560908	.2469663
#1	4.853904	.2568990	5.016669	.2592436	.4727252	4.898549	.2428154
#2	4.847565	.2572675	4.982242	.2577564	.4763049	4.909375	.2436649

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: lcs 500-448309/2-a@2 Acquired: 9/5/2018 14:30:04 Type: Unk
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481367	.2323716	.0423644	1.363817	.4817447	.4988532	.4927403
Stddev	.0006011	.0015184	.0017625	.010742	.0015191	.0001359	.0011315
%RSD	1.248675	.6534300	4.160224	.7876154	.3153297	.0272423	.2296401
#1	.0485617	.2312980	.0436107	1.356222	.4806705	.4987571	.4919402
#2	.0477117	.2334453	.0411182	1.371413	.4828188	.4989493	.4935404

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0461699	.2333977	.2315418
Stddev	.0001157	.0003377	.0012284
%RSD	.2506708	.1446698	.5305382
#1	.0462517	.2331589	.2306732
#2	.0460880	.2336364	.2324105

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1925.453	1029.645	9779.450	3551.832
Stddev	4.348	3.783	1.690	14.207
%RSD	.2258375	.3673974	.0172799	.3999974
#1	1928.528	1032.320	9778.255	3541.786
#2	1922.378	1026.970	9780.645	3561.878

Sample Name: CCV Acquired: 9/5/2018 14:34:02 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4729602	53.33377	.5121700	.5186828	.5187618	.5484166
Stddev	.0007014	.18084	.0025107	.0001583	.0007091	.0020541
%RSD	.1482888	.3390714	.4901982	.0305121	.1366858	.3745577

#1	.4734561	53.20590	.5103947	.5187947	.5182604	.5469641
#2	.4724643	53.46165	.5139453	.5185709	.5192632	.5498690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5276289	26.74961	.5206354	F -.056923	.5166176	.5045872
Stddev	.0012054	.10832	.0011156	.001909	.0004115	.0002347
%RSD	.2284545	.4049266	.2142702	3.354380	.0796449	.0465241

#1	.5267766	26.67301	.5214242	-.055573	.5163266	.5047532
#2	.5284813	26.82620	.5198466	-.058273	.5169085	.5044212

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5184154	27.30196	52.78441	4.187443	26.50620	5.257508
Stddev	.0026351	.29501	.08038	.005907	.07331	.002057
%RSD	.5082903	1.080535	.1522862	.1410682	.2765873	.0391239

#1	.5165522	27.09336	52.72758	4.183266	26.45436	5.256053
#2	.5202787	27.51056	52.84125	4.191620	26.55804	5.258962

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/5/2018 14:34:02 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4926992	26.10589	.5145463	.5305033	.4945139	.4987854
Stddev	.0007866	.01775	.0001619	.0019168	.0045457	.0027299
%RSD	.1596486	.0679887	.0314622	.3613085	.9192326	.5473164

#1	.4932554	26.09334	.5146608	.5318587	.4912996	.5007158
#2	.4921430	26.11844	.5144318	.5291480	.4977282	.4968551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4581783	.5274390	.5132635	.5125779	.5148025	4.802245
Stddev	.0005969	.0032609	.0004566	.0001806	.0007594	.005617
%RSD	.1302735	.6182418	.0889554	.0352262	.1475024	.1169653

#1	.4586003	.5297448	.5129407	.5127056	.5153395	4.806216
#2	.4577562	.5251333	.5135863	.5124502	.5142656	4.798273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5087630
Stddev	.0008860
%RSD	.1741417

#1	.5093894
#2	.5081365

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/5/2018 14:34:02 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1796.080	1008.823	9480.275	3537.689
Stddev	2.920	1.536	19.113	4.044
%RSD	.1625958	.1522429	.2016041	.1143035
#1	1798.145	1009.909	9493.790	3540.548
#2	1794.015	1007.737	9466.760	3534.830

Sample Name: CCB Acquired: 9/5/2018 14:37:55 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004567	-.006059	-.000790	.0004928	-.000362	.0000582	.0010057
Stddev	.0000184	.018471	.000679	.0000987	.000049	.0000002	.0015987
%RSD	4.020961	304.8771	85.89988	20.01976	13.47890	.3452278	158.9674
#1	.0004697	.007002	-.000310	.0004230	-.000396	.0000581	-.000125
#2	.0004437	-.019120	-.001270	.0005625	-.000327	.0000583	.002136

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120216	.0003079	-.003393	.0001263	-.000012	.0010273	-.025080
Stddev	.0008385	.0000300	.000652	.0000420	.000355	.0000159	.018300
%RSD	6.975171	9.735717	19.20537	33.28398	3018.567	1.545946	72.96666
#1	.0114287	.0003292	-.002933	.0000966	-.000263	.0010160	-.012140
#2	.0126146	.0002868	-.003854	.0001560	.000239	.0010385	-.038020

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.062510	.0004052	.0185043	.0001332	.0003817	.0093670	.0008062
Stddev	.012847	.0001004	.0047791	.0002784	.0000043	.0033632	.0037801
%RSD	20.55178	24.78586	25.82709	209.0613	1.113167	35.90485	468.8681
#1	-.053425	.0003342	.0151249	.0003300	.0003848	.0117452	.0034792
#2	-.071594	.0004762	.0218836	-.000064	.0003787	.0069889	-.001867

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 9/5/2018 14:37:55 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008665	.0049368	-.001437	.0053307	-.001489	.0000586	.0003716
Stddev	.0026117	.0015498	.000931	.0067830	.000442	.0000015	.0001332
%RSD	301.3950	31.39246	64.75112	127.2459	29.70125	2.469536	35.84540
#1	-.000980	.0060327	-.000779	.0005343	-.001802	.0000576	.0004658
#2	.002713	.0038410	-.002095	.0101270	-.001176	.0000596	.0002774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0001652	.0004843	.0000562
Stddev	.0007761	.0004021	.0003469
%RSD	469.9097	83.02732	617.8515
#1	.0007139	.0007686	-.000189
#2	-.000384	.0002000	.000301
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2076.069	1107.431	9900.646	3585.531
Stddev	141.059	85.098	10.486	2.106
%RSD	6.794505	7.684259	.1059170	.0587378
#1	1976.326	1047.258	9908.061	3587.020
#2	2175.813	1167.604	9893.231	3584.041

Sample Name: CCVL Acquired: 9/5/2018 14:42:00 Type: QC
 Method: P6090518A Mode: CONC Corr. Factor: 1.000000
 User: NOONE Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049008	.2031873	.0089612	.0508043	.0100402	.0041400
Stddev	.0003499	.0176108	.0020132	.0007654	.0000993	.0001937
%RSD	7.138789	8.667287	22.46525	1.506547	.9892368	4.679327

#1	.0051482	.2156400	.0103847	.0513455	.0099699	.0042770
#2	.0046534	.1907346	.0075377	.0502630	.0101104	.0040031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514446	.2060243	.0023027	F .0075410	.0046190	.0100632
Stddev	.0001039	.0063923	.0000965	.0100721	.0007343	.0007150
%RSD	.2019401	3.102708	4.192219	133.5646	15.89693	7.105030

#1	.0515181	.2015043	.0022345	.0146631	.0051382	.0105687
#2	.0513712	.2105444	.0023710	.0004189	.0040998	.0095576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				30.00000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109437	.1669376	.4868327	.0115563	.1264366	.0103578
Stddev	.0002174	.0859169	.0060332	.0002917	.0095283	.0000847
%RSD	1.986741	51.46650	1.239280	2.523772	7.536056	.8173719

#1	.0107899	.2276900	.4910988	.0117626	.1331742	.0104177
#2	.0110974	.1061851	.4825665	.0113501	.1196991	.0102980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 9/5/2018 14:42:00 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097451	1.053044	.0129868	.0058705	.0203068	.0112869
Stddev	.0000329	.000878	.0022964	.0006421	.0010321	.0028947
%RSD	.3375292	.0833534	17.68232	10.93705	5.082482	25.64687

#1	.0097684	1.052423	.0146105	.0054165	.0195770	.0133338
#2	.0097219	1.053665	.0113630	.0063245	.0210366	.0092400

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1797886	.0387260	.0053853	.0051102	.0116414	.0052482
Stddev	.0012623	.0019704	.0000142	.0000772	.0033016	.0002075
%RSD	.7021202	5.088110	.2630105	1.510693	28.36088	3.953137

#1	.1806812	.0401193	.0053953	.0050556	.0139760	.0053949
#2	.1788960	.0373327	.0053753	.0051648	.0093068	.0051015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0197583
Stddev	.0007688
%RSD	3.891055

#1	.0203019
#2	.0192146

Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 9/5/2018 14:42:00 Type: QC
Method: P6090518A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1989.354	1050.690	9844.908	3587.780
Stddev	34.162	16.147	6.190	11.605
%RSD	1.717260	1.536790	.0628715	.3234712
#1	1965.198	1039.272	9840.531	3595.986
#2	2013.511	1062.108	9849.285	3579.574

Metals Worksheet

Batch Number: 500-448468

Date Open: Sep 05 2018 11:22AM

Method: 245.1

Batch End:

Analyst: Gomez, Martin J

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
blank						
0.2ppb						
0.5ppb						
1.0ppb						
3.0ppb						
5.0ppb						
ICV~500-448468/7		7471B		50 mL		0.0001 mL
ICB~500-448468/8		7471B				
CRA~500-448468/9		7471B		50 mL	0.00001 mL	
xMB~500-448270/12						
-A~(500-4923714)						
MB~500-448270/12-		7471B				
A~						
LC~500-448270/13		7471B				
-A~						
500-150814-A-11-C		7471B				T
500-150814-A-12-C		7471B				T
500-150814-A-13-C		7471B				T
500-150814-A-14-C		7471B				T
500-150814-A-15-C		7471B				T
500-150867-A-4-D		7471B				T
500-150873-A-1-C		7471B				T
CCV~500-448468/2		7471B		50 mL		0.00005 mL
0						
CCB~500-448468/2		7471B				
1						
500-150761-A-1-B		7471B				T
500-150761-A-2-B		7471B				T
500-150761-A-3-B		7471B				T
500-150761-A-3-C~		7471B				T
DU						
09/17/2018						

Metals Worksheet

Batch Number: 500-448468

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 05 2018 11:22AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
500-150761-A-3-D~MS		7471B	T			
500-150761-A-3-E~MSD		7471B	T			
500-150761-A-4-B		7471B	T			
500-150761-A-5-B		7471B	T			
500-150761-A-6-B		7471B	T			
500-150761-A-7-B		7471B	T			
CCV~500-448468/32		7471B		50 mL		0.00005 mL
CCB~500-448468/33		7471B				
500-150761-A-8-B		7471B	T			
500-150761-A-9-B		7471B	T			
500-150761-A-10-B		7471B	T			
500-150761-A-11-B		7471B	T			
500-150761-A-12-B		7471B	T			
500-150761-A-13-B		7471B	T			
MS-500-448272/12-A		7471B				
LCS~500-448272/13-A		7471B				
500-150868-A-1-A		7471B	T			
500-150868-A-2-A		7471B	T			
CCV~500-448468/44		7471B		50 mL		0.00005 mL
CCB~500-448468/45		7471B				
500-150868-A-3-A		7471B	T			
500-150868-A-4-A		7471B	T			
500-150868-A-5-A		7471B	T			
500-150868-A-6-A		7471B	T			
500-150531-A-1-B		7471B	T			

09/17/2018

Metals Worksheet

Batch Number: 500-448468

Date Open: Sep 05 2018 11:22AM

Method: 245.1

Batch End:

Analyst: Gomez, Martin J

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
500-150531-A-2-B		7471B	T			
500-150531-A-3-D		7471B	T			
500-150531-A-3-E~DU		7471B	T			
500-150531-F-3-K~MS		7471B	T			
500-150531-F-3-L~MSD		7471B	T			
CCV~500-448468/56		7471B		50 mL		0.00005 mL
CCB~500-448468/57		7471B				
500-150531-A-4-B		7471B	T			
500-150531-A-5-B		7471B	T			
500-150531-A-6-B		7471B	T			
500-150531-A-7-B		7471B	T			
500-150531-A-8-B		7471B	T			
500-150532-A-1-B		7471B	T			
500-150532-A-2-B		7471B	T			
500-150532-A-3-B		7471B	T			
500-150532-A-4-B		7471B	T			
MB~500-448273/12-A		7471B				
CCV~500-448468/68		7471B		50 mL		0.00005 mL
CCB~500-448468/69		7471B				
LCS~500-448273/13-A		7471B				
500-150760-A-1-B		7471B	T			
500-150760-A-2-B		7471B	T			
500-150760-A-3-B		7471B	T			
500-150760-A-4-B		7471B	T			
500-150760-A-5-B		7471B	T			

09/17/2018

Metals Worksheet

Batch Number: 500-448468

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 05 2018 11:22AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
500-150760-A-6-B		7471B	T			
500-150760-A-7-B		7471B	T			
500-150760-A-8-B		7471B	T			
500-150760-A-9-B		7471B	T			
CCV~500-448468/80		7471B		50 mL		0.00005 mL
CCB~500-448468/81		7471B				
500-150760-A-10-B		7471B	T			
500-150760-A-10-C~DU		7471B	T			
500-150760-A-10-D~MS		7471B	T			
500-150760-A-10-E~MSD		7471B	T			
500-150760-A-11-B		7471B	T			
500-150760-A-12-B		7471B	T			
500-150760-A-13-B		7471B	T			
500-150760-A-14-B		7471B	T			
500-150760-A-15-B		7471B	T			
500-150587-A-1-B		7471B	T			
CCV~500-448468/92		7471B		50 mL		0.00005 mL
CCB~500-448468/93		7471B				
500-150587-A-2-B		7471B	T			
500-150587-A-3-B		7471B	T			
500-150587-A-4-B		7471B	T			
500-150613-A-1-D		7471B	T			
500-150867-A-4-D~^25		7471B	T			
500-150761-A-9-B~^2		7471B	T			
500-150531-A-2-B~^2		7471B	T			

09/17/2018

Metals Worksheet

Batch Number: 500-448468

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 05 2018 11:22AM

Batch End:

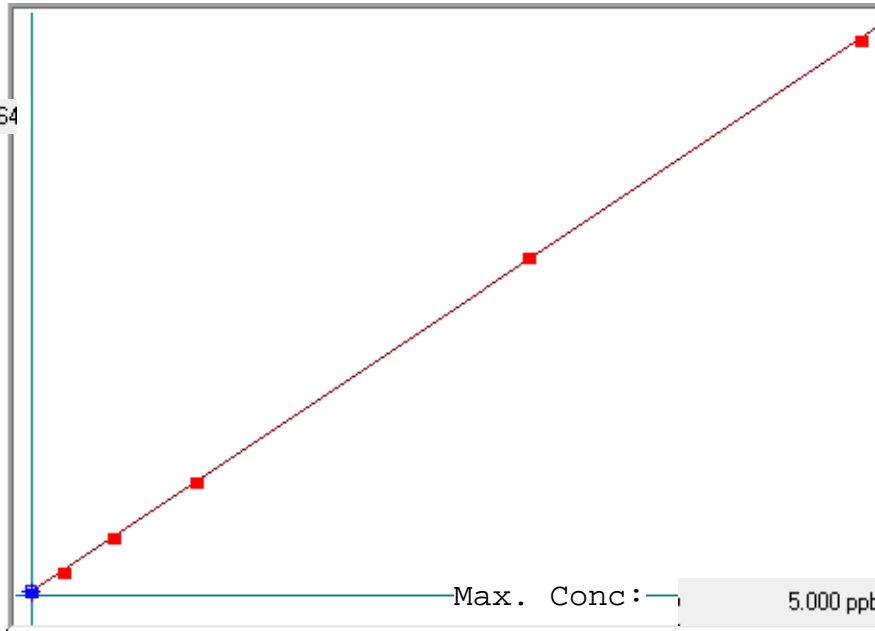
Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
500-150531-A-5-B-^ 2		7471B	T			
CCV~500-448468/1 02		7471B		50 mL		0.00005 mL
CCB~500-448468/1 03		7471B				

Hg

Linear

μ Abs. :

65964



A= 0.0000e+000

B= 7.5979e-005

C= -3.1709e-002

Rho= 0.9999484

Accept = Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.008	0.008	521	0.000	521				
0.2ppb	0.200	0.182	-0.018	2807	0.0 %	2807				
0.5ppb	0.500	0.490	-0.010	6865	0.0 %	6865				
1.0ppb	1.000	1.008	0.008	13682	0.0 %	13682				
3.0ppb	3.000	3.033	0.033	40331	0.0 %	40331				
5.0ppb	5.000	4.980	-0.020	65964	0.0 %	65964				

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	521	ppb	05 Sep 2018 11:22:56	50.0000	14381
S	0.2ppb - 1	-	2807	ppb	05 Sep 2018 11:24:28	50.0000	14382
S	0.5ppb - 1	-	6865	ppb	05 Sep 2018 11:26:03	50.0000	14383
S	1.0ppb - 1	-	13682	ppb	05 Sep 2018 11:27:43	50.0000	14384
S	3.0ppb - 1	-	40331	ppb	05 Sep 2018 11:29:36	50.0000	14385
S	5.0ppb - 1	-	65964	ppb	05 Sep 2018 11:31:37	50.0000	14386
U	ICV - 1	2.0439	27318	ppb	05 Sep 2018 11:33:52	50.0000	14387
U	ICB - 1	-0.0338	-27	ppb	05 Sep 2018 11:36:13	50.0000	14388
U	CRA - 1	0.1979	3022	ppb	05 Sep 2018 11:38:19	50.0000	14389
U	mb 500-448270/12-a - 1	-0.0317	0	ppb	05 Sep 2018 11:49:29	50.0000	14390
U	mb 500-448270/12-a - 1	-0.0113	269	ppb	05 Sep 2018 11:56:16	50.0000	14391
U	lcs 500-448270/13-a - 1	2.0137	26920	ppb	05 Sep 2018 11:57:49	50.0000	14392
U	500-150814-a-11-c - 1	0.4303	6081	ppb	05 Sep 2018 11:59:22	50.0000	14393
U	500-150814-a-12-c - 1	0.3148	4561	ppb	05 Sep 2018 12:01:29	50.0000	14394
U	500-150814-a-13-c - 1	0.2899	4233	ppb	05 Sep 2018 12:03:16	50.0000	14395
U	500-150814-a-14-c - 1	0.4815	6755	ppb	05 Sep 2018 12:05:00	50.0000	14396
U	500-150814-a-15-c - 1	0.2085	3161	ppb	05 Sep 2018 12:06:44	50.0000	14397
X	500-150867-a-4-d - 1	HIGH	119725	ppb	05 Sep 2018 12:08:33	50.0000	14398
U	500-150873-a-1-c - 1	0.2332	3486	ppb	05 Sep 2018 12:10:07	50.0000	14399
U	CCV - 1	0.9825	13348	ppb	05 Sep 2018 12:12:50	50.0000	14400
U	CCB - 1	-0.0328	-15	ppb	05 Sep 2018 12:14:35	50.0000	14401
U	500-150761-a-1-b - 1	0.4774	6701	ppb	05 Sep 2018 12:16:33	50.0000	14402
U	500-150761-a-2-b - 1	0.7873	10779	ppb	05 Sep 2018 12:18:06	50.0000	14403
U	500-150761-a-3-b - 1	0.2884	4213	ppb	05 Sep 2018 12:19:53	50.0000	14404
U	500-150761-a-3-c du - 1	0.3088	4481	ppb	05 Sep 2018 12:21:44	50.0000	14405
U	500-150761-a-3-d ms - 1	1.4787	19879	ppb	05 Sep 2018 12:23:26	50.0000	14406
U	500-150761-a-3-e msd - 1	1.4651	19700	ppb	05 Sep 2018 12:25:10	50.0000	14407
U	500-150761-a-4-b - 1	0.8003	10950	ppb	05 Sep 2018 12:27:09	50.0000	14408
U	500-150761-a-5-b - 1	0.4322	6106	ppb	05 Sep 2018 12:29:09	50.0000	14409
U	500-150761-a-6-b - 1	0.6189	8563	ppb	05 Sep 2018 12:31:03	50.0000	14410
U	500-150761-a-7-b - 1	1.0483	14215	ppb	05 Sep 2018 12:32:50	50.0000	14411
U	CCV - 1	0.9942	13503	ppb	05 Sep 2018 12:34:41	50.0000	14412
U	CCB - 1	-0.0250	88	ppb	05 Sep 2018 12:36:37	50.0000	14413
U	500-150761-a-8-b - 1	1.8583	24875	ppb	05 Sep 2018 12:38:36	50.0000	14414
U	500-150761-a-9-b - 1	5.6419	74673	ppb	05 Sep 2018 12:40:09	50.0000	14415
U	500-150761-a-10-b - 1	0.0057	492	ppb	05 Sep 2018 12:42:10	50.0000	14416
U	500-150761-a-11-b - 1	1.1344	15348	ppb	05 Sep 2018 12:44:29	50.0000	14417
U	500-150761-a-12-b - 1	1.1233	15201	ppb	05 Sep 2018 12:46:04	50.0000	14418
U	500-150761-a-13-b - 1	0.1853	2856	ppb	05 Sep 2018 12:48:02	50.0000	14419
U	mb 500-448272/12-a - 1	-0.0177	185	ppb	05 Sep 2018 12:50:02	50.0000	14420
U	lcs 500-448272/13-a - 1	2.0360	27214	ppb	05 Sep 2018 12:51:44	50.0000	14421
U	500-150868-a-1-a - 1	-0.0030	378	ppb	05 Sep 2018 12:53:18	50.0000	14422
U	500-150868-a-2-a - 1	0.0038	467	ppb	05 Sep 2018 12:55:28	50.0000	14423
U	CCV - 1	0.9905	13454	ppb	05 Sep 2018 12:57:03	50.0000	14424
U	CCB - 1	-0.0097	290	ppb	05 Sep 2018 12:58:37	50.0000	14425
U	500-150868-a-3-a - 1	0.0228	717	ppb	05 Sep 2018 13:00:36	50.0000	14426
U	500-150868-a-4-a - 1	0.2980	4340	ppb	05 Sep 2018 13:02:09	50.0000	14427
U	500-150868-a-5-a - 1	0.2862	4184	ppb	05 Sep 2018 13:03:43	50.0000	14428
U	500-150868-a-6-a - 1	0.2920	4260	ppb	05 Sep 2018 13:05:25	50.0000	14429
U	500-150531-a-1-b - 1	2.9595	39369	ppb	05 Sep 2018 13:07:09	50.0000	14430
U	500-150531-a-2-b - 1	6.6907	88477	ppb	05 Sep 2018 13:08:53	50.0000	14431
U	500-150531-a-3-d - 1	1.5370	20647	ppb	05 Sep 2018 13:11:02	50.0000	14432
U	500-150531-a-3-e du - 1	1.5835	21259	ppb	05 Sep 2018 13:13:23	50.0000	14433
U	500-150531-f-3-k ms - 1	4.3218	57298	ppb	05 Sep 2018 13:15:25	50.0000	14434
U	500-150531-f-3-l msd - 1	2.5312	33732	ppb	05 Sep 2018 13:17:28	50.0000	14435
U	CCV - 1	0.9839	13367	ppb	05 Sep 2018 13:19:44	50.0000	14436
U	CCB - 1	-0.0174	188	ppb	05 Sep 2018 13:21:51	50.0000	14437
U	500-150531-a-4-b - 1	0.2274	3410	ppb	05 Sep 2018 13:23:49	50.0000	14438
U	500-150531-a-5-b - 1	7.5613	99935	ppb	05 Sep 2018 13:25:22	50.0000	14439
U	500-150531-a-6-b - 1	0.2900	4234	ppb	05 Sep 2018 13:27:04	50.0000	14440
U	500-150531-a-7-b - 1	0.1890	2905	ppb	05 Sep 2018 13:29:29	50.0000	14441
U	500-150531-a-8-b - 1	0.1911	2932	ppb	05 Sep 2018 13:31:13	50.0000	14442
U	500-150532-a-1-b - 1	0.2764	4055	ppb	05 Sep 2018 13:32:54	50.0000	14443
U	500-150532-a-2-b - 1	0.2189	3298	ppb	05 Sep 2018 13:34:34	50.0000	14444
U	500-150532-a-3-b - 1	0.0383	922	ppb	05 Sep 2018 13:36:15	50.0000	14445
U	500-150532-a-4-b - 1	0.0658	1284	ppb	05 Sep 2018 13:37:58	50.0000	14446
U	mb 500-448273/12-a - 1	-0.0171	192	ppb	05 Sep 2018 13:39:34	50.0000	14447
U	CCV - 1	1.0149	13775	ppb	05 Sep 2018 13:41:09	50.0000	14448
U	CCB - 1	-0.0121	258	ppb	05 Sep 2018 13:42:42	50.0000	14449
U	lcs 500-448273/13-a - 1	2.0684	27641	ppb	05 Sep 2018 13:44:40	50.0000	14450
U	500-150760-a-1-b - 1	0.3911	5565	ppb	05 Sep 2018 13:46:14	50.0000	14451
U	500-150760-a-2-b - 1	0.4105	5820	ppb	05 Sep 2018 13:48:23	50.0000	14452
U	500-150760-a-3-b - 1	0.2503	3712	ppb	05 Sep 2018 13:50:12	50.0000	14453
U	500-150760-a-4-b - 1	0.2395	3570	ppb	05 Sep 2018 13:51:59	50.0000	14454
U	500-150760-a-5-b - 1	0.2635	3666	ppb	05 Sep 2018 13:53:42	50.0000	14455
U	500-150760-a-6-b - 1	0.2767	4059	ppb	05 Sep 2018 13:55:23	50.0000	14456

Type	Sample ID	Conc.	μ Abs.	Units	Date	Integration Time	Seq ID
U	500-150760-a-7-b - 1	0.2280	3418	ppb	05 Sep 2018 13:57:05	50.0000	14457
U	500-150760-a-8-b - 1	0.1835	2833	ppb	05 Sep 2018 13:58:48	50.0000	14458
U	500-150760-a-9-b - 1	0.9269	12617	ppb	05 Sep 2018 14:00:31	50.0000	14459
U	CCV - 1	0.9910	13460	ppb	05 Sep 2018 14:02:11	50.0000	14460
U	CCB - 1	-0.0284	44	ppb	05 Sep 2018 14:04:06	50.0000	14461
U	500-150760-a-10-b - 1	0.2743	4027	ppb	05 Sep 2018 14:06:05	50.0000	14462
U	500-150760-a-10-c du - 1	0.2770	4063	ppb	05 Sep 2018 14:07:38	50.0000	14463
U	500-150760-a-10-d ms - 1	1.3807	18589	ppb	05 Sep 2018 14:09:21	50.0000	14464
U	500-150760-a-10-e msd - 1	1.3930	18751	ppb	05 Sep 2018 14:11:04	50.0000	14465
U	500-150760-a-11-b - 1	0.2510	3721	ppb	05 Sep 2018 14:13:03	50.0000	14466
U	500-150760-a-12-b - 1	0.2360	3524	ppb	05 Sep 2018 14:15:04	50.0000	14467
U	500-150760-a-13-b - 1	0.2185	3293	ppb	05 Sep 2018 14:16:48	50.0000	14468
U	500-150760-a-14-b - 1	0.2174	3279	ppb	05 Sep 2018 14:18:29	50.0000	14469
U	500-150760-a-15-b - 1	0.3221	4657	ppb	05 Sep 2018 14:20:11	50.0000	14470
U	500-150587-a-1-b - 1	0.3236	4676	ppb	05 Sep 2018 14:21:53	50.0000	14471
U	CCV - 1	0.9396	12784	ppb	05 Sep 2018 14:23:39	50.0000	14472
U	CCB - 1	-0.0276	54	ppb	05 Sep 2018 14:25:24	50.0000	14473
U	500-150587-a-2-b - 1	0.3145	4557	ppb	05 Sep 2018 14:27:26	50.0000	14474
U	500-150587-a-3-b - 1	0.8938	12181	ppb	05 Sep 2018 14:29:00	50.0000	14475
U	500-150587-a-4-b - 1	0.2901	4235	ppb	05 Sep 2018 14:30:45	50.0000	14476
U	500-150613-a-1-d - 1	1.3216	17812	ppb	05 Sep 2018 14:32:42	50.0000	14477
U	500-150867-a-4-d@25 - 1	1.5685	21061	ppb	05 Sep 2018 14:34:25	50.0000	14478
U	500-150761-a-9-b@2 - 1	2.3968	31963	ppb	05 Sep 2018 14:36:24	50.0000	14479
U	500-150531-a-2-b@2 - 1	2.9981	39877	ppb	05 Sep 2018 14:38:26	50.0000	14480
U	500-150531-a-5-b@2 - 1	3.6946	49043	ppb	05 Sep 2018 14:40:34	50.0000	14481
U	CCV - 1	0.9441	12843	ppb	05 Sep 2018 14:42:45	50.0000	14482
U	CCB - 1	-0.0180	180	ppb	05 Sep 2018 14:44:56	50.0000	14483

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-150867-1

SDG No.: _____

Project: Rock River Sediment Removal, Janesville

Client Sample ID	Lab Sample ID
R1	500-150867-1
G1-01	500-150867-2
G2-01	500-150867-3
Total Solids	500-150867-4

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: R1 _____

Lab Sample ID: 500-150867-1 _____

Lab Name: TestAmerica Chicago _____

Job No.: 500-150867-1 _____

SDG ID.: _____

Matrix: Water _____

Date Sampled: 08/31/2018 15:15 _____

Reporting Basis: WET _____

Date Received: 09/01/2018 10:28 _____

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7723-14-0	Phosphorus as P	0.078	0.10	0.048	mg/L	J		1	SM 4500 P E
	Oil & Grease	4.2	5.5	1.5	mg/L	J	B	1	1664B
	Total Suspended Solids	520	100	39	mg/L			1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G1-01

Lab Sample ID: 500-150867-2

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG ID.: _____

Matrix: Water

Date Sampled: 08/31/2018 15:25

Reporting Basis: WET

Date Received: 09/01/2018 10:28

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7723-14-0	Phosphorus as P	0.36	0.10	0.048	mg/L			1	SM 4500 P E
	Oil & Grease	2.0	5.6	1.5	mg/L	J	B	1	1664B
	Total Suspended Solids	90	20	7.7	mg/L			1	SM 2540D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: G2-01

Lab Sample ID: 500-150867-3

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG ID.: _____

Matrix: Water

Date Sampled: 08/31/2018 15:35

Reporting Basis: WET

Date Received: 09/01/2018 10:28

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7723-14-0	Phosphorus as P	0.19	0.10	0.048	mg/L			1	SM 4500 P E
	Oil & Grease	2.1	5.6	1.5	mg/L	J	B	1	1664B
	Total Suspended Solids	26	5.0	1.9	mg/L			1	SM 2540D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1
 SDG No.: _____
 Analyst: BRS Batch Start Date: 09/05/2018
 Reporting Units: mg/L Analytical Batch No.: 448470

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:12	Phosphorus as P	0.253	0.250	101	90-110		WSTPS2_00033
2	ICB	15:12	Phosphorus as P	<0.024					
13	CCV	15:16	Phosphorus as P	0.502	0.500	100	90-110		WSTPS1_00031
14	CCB	15:17	Phosphorus as P	<0.024					

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 448167 Date: 09/04/2018 12:15 Prep Batch: 448157 Date: 09/04/2018 07:00							
1664B	MB 500-448157/1-A	Oil & Grease	1.40	J	mg/L	5.0	1
Batch ID: 448311 Date: 09/04/2018 16:15							
SM 2540D	MB 500-448311/1	Total Suspended Solids	<1.9		mg/L	5.0	1
Batch ID: 448470 Date: 09/05/2018 15:12 Prep Batch: 448214 Date: 09/04/2018 10:21							
SM 4500 P E	MB 500-448214/1-A	Phosphorus as P	<0.024		mg/L	0.050	1

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 448167 Date: 09/04/2018 12:15 Prep Batch: 448157 Date: 09/04/2018 07:15											
LCS Source: 1664 HEM_00197											
1664B	LCS 500-448157/2-A	Oil & Grease	31.90		mg/L	40.0	80	78-114			
Batch ID: 448311 Date: 09/04/2018 16:16											
LCS Source: WSTSS1_00853											
SM 2540D	LCS 500-448311/2	Total Suspended Solids	190		mg/L	200	95	80-120			
Batch ID: 448470 Date: 09/05/2018 15:13 Prep Batch: 448214 Date: 09/04/2018 10:21											
LCS Source: WSTPS2_00033											
SM 4500 P E	LCS 500-448214/2-A	Phosphorus as P	0.437		mg/L	0.500	87	80-120			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 4500 P E

LOQ Date: 11/01/2005 07:23

Prep Method: SM 4500 P B

Analyte	Wavelength/ Mass	LOQ (mg/L)	
Phosphorus as P		0.05	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-150867-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 P E XMDL Date: 03/29/2017 11:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Phosphorus as P		0.05	0.0239

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: 1664B

LOQ Date: 11/01/2005 13:40

Prep Method: 1664B

Analyte	Wavelength/ Mass	LOQ (mg/L)	
Oil & Grease		5	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-150867-1
SDG Number: _____
Matrix: Solid Instrument ID: NoEquip
Method: Moisture LOQ Date: 11/01/2005 09:01

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago

Job Number: 500-150867-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2540D

LOQ Date: 11/01/2005 12:44

Analyte	Wavelength/ Mass	LOQ (mg/L)	
Total Suspended Solids		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-150867-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540D XMDL Date: 03/23/2017 12:54

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Suspended Solids		5	1.93

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Prep Method: SM 4500 P B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-448214/1-A	09/04/2018 10:21	448214		50	50
LCS 500-448214/2-A	09/04/2018 10:21	448214		50	50
500-150867-1	09/04/2018 10:21	448214		25	50
500-150867-2	09/04/2018 10:21	448214		25	50
500-150867-3	09/04/2018 10:21	448214		25	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-1

SDG No.: _____

Prep Method: 1664B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-448157/1-A	09/04/2018 07:00	448157		1000	1000
LCS 500-448157/2-A	09/04/2018 07:15	448157		1000	1000
500-150867-1	09/04/2018 07:31	448157		905	1000
500-150867-2	09/04/2018 07:47	448157		900	1000
500-150867-3	09/04/2018 08:03	448157		895	1000

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 4500 P E

Start Date: 09/05/2018 15:12 End Date: 09/05/2018 15:19

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				P																											
ICV 500-448470/1	1		15:12	X																											
ICB 500-448470/2	1		15:12	X																											
MB 500-448214/1-A	1	T	15:12	X																											
LCS 500-448214/2-A	1	T	15:13	X																											
ZZZZZZ			15:13																												
ZZZZZZ			15:14																												
ZZZZZZ			15:14																												
500-150867-1	1	T	15:14	X																											
500-150867-2	1	T	15:15	X																											
500-150867-3	1	T	15:15	X																											
ZZZZZZ			15:16																												
ZZZZZZ			15:16																												
CCV 500-448214/3-A	1		15:16	X																											
CCB 500-448470/14	1		15:17	X																											
ZZZZZZ			15:17																												
ZZZZZZ			15:18																												
ZZZZZZ			15:18																												
ZZZZZZ			15:18																												
CCV 500-448214/3-A			15:19																												
CCB 500-448470/20			15:19																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: 1664B

Start Date: 09/04/2018 12:15 End Date: 09/04/2018 12:15

Lab Sample Id	D/F	T y p e	Time	H E M	Analytes																											
MB 500-448157/1-A	1	T	12:15	X																												
LCS 500-448157/2-A	1	T	12:15	X																												
500-150867-1	1	T	12:15	X																												
500-150867-2	1	T	12:15	X																												
500-150867-3	1	T	12:15	X																												
ZZZZZZ			12:15																													
ZZZZZZ			12:15																													
ZZZZZZ			12:15																													
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ZZZZZZ			12:15																													

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: NoEquip Analysis Method: Moisture

Start Date: 09/04/2018 12:10 End Date: 09/04/2018 12:10

Lab Sample Id	D/F	Type	Time	Analytes																											
				% S	M o i s t																										
ZZZZZZ			12:10																												
ZZZZZZ			12:10																												
ZZZZZZ			12:10																												
ZZZZZZ			12:10																												
ZZZZZZ			12:10																												
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ZZZZZZ			12:10																												
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ZZZZZZ			12:10																												
ZZZZZZ			12:10																												
500-150867-4		1 T	12:10	X	X																										
ZZZZZZ			12:10																												
ZZZZZZ			12:10																												
ZZZZZZ			12:10																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540D

Start Date: 09/04/2018 16:15 End Date: 09/04/2018 16:48

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				T S S																											
MB 500-448311/1	1	T	16:15	X																											
LCS 500-448311/2	1	T	16:16	X																											
ZZZZZZ			16:17																												
ZZZZZZ			16:19																												
ZZZZZZ			16:20																												
ZZZZZZ			16:22																												
ZZZZZZ			16:23																												
ZZZZZZ			16:24																												
ZZZZZZ			16:26																												
ZZZZZZ			16:27																												
ZZZZZZ			16:29																												
ZZZZZZ			16:30																												
ZZZZZZ			16:31																												
ZZZZZZ			16:33																												
ZZZZZZ			16:34																												
ZZZZZZ			16:36																												
500-150867-1	1	T	16:37	X																											
500-150867-2	1	T	16:38	X																											
500-150867-3	1	T	16:40	X																											
ZZZZZZ			16:41																												
ZZZZZZ			16:43																												
ZZZZZZ			16:44																												
ZZZZZZ			16:45																												
ZZZZZZ			16:47																												
ZZZZZZ			16:48																												

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448214 Batch Start Date: 09/04/18 10:21 Batch Analyst: Stieve, Brandon R

Batch Method: SM 4500 P B Batch End Date: 09/04/18 14:21

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTPS1 00031	WSTPS2 00033		
MB 500-448214/1		SM 4500 P B, SM 4500 P E		50 mL	50 mL				
LCS 500-448214/2		SM 4500 P B, SM 4500 P E		50 mL	50 mL		500 uL		
CCV 500-448214/3		SM 4500 P B, SM 4500 P E		50 mL	50 mL	250 uL			
500-150867-D-1	R1	SM 4500 P B, SM 4500 P E	T	25 mL	50 mL				
500-150867-D-2	G1-01	SM 4500 P B, SM 4500 P E	T	25 mL	50 mL				
500-150867-D-3	G2-01	SM 4500 P B, SM 4500 P E	T	25 mL	50 mL				

Batch Notes	
Ammonium Persulfate ID	Ammon Persuf 00017
Sulfuric Acid Reagent ID Number	Sulfuric 11N 00045

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 BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448470 Batch Start Date: 09/05/18 15:12 Batch Analyst: Stieve, Brandon R

Batch Method: SM 4500 P E Batch End Date: 09/05/18 15:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTPS2 00033			
ICV 500-448470/1		SM 4500 P E		50 mL	50 mL	250 uL			

Batch Notes	
Ascorbic Acid ID	0.1M_AA_00320
Batch Comment	wavelength 880 nm
Color Reagent ID	PO4 color reagent

Basis	Basis Description

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 BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448157 Batch Start Date: 09/04/18 07:00 Batch Analyst: Annem, Sreenivasareddy

Batch Method: 1664B Batch End Date: 09/04/18 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount		
MB 500-448157/1		1664B, 1664B		1390 g	390 g	1000 mL	1000 mL		
LCS 500-448157/2		1664B, 1664B		1390 g	390 g	1000 mL	1000 mL		
500-150867-G-1	R1	1664B, 1664B	T	1308 g	403 g	905 mL	1000 mL		
500-150867-F-2	G1-01	1664B, 1664B	T	1303 g	403 g	900 mL	1000 mL		
500-150867-F-3	G2-01	1664B, 1664B	T	1299 g	404 g	895 mL	1000 mL		

Batch Notes	
Acid ID	H2SO4_00017
Balance ID	Top-Loader 0825
Analyst ID - HEM Extraction	ASR
Filter Material ID	47-042218, 47PF-060618, 90-042218, 90PF- 052218
Hexane ID	Hexane_00067
Manifold ID	1851/2430
Methanol ID	Methanol_00043
Na2SO4 ID	Na2SO4_01328
Nominal Amount Used	1000 mL
pH Paper ID	PH 1-11 lot 517
Silica Gel ID	Silica Gel_00018
Sufficient Volume for Batch QC	Yes
Weight Set ID	3068/0558

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 BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448167 Batch Start Date: 09/04/18 12:15 Batch Analyst: Annem, Sreenivasareddy

Batch Method: 1664B Batch End Date: 09/04/18 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	RECTUBE#	ReceiverTube	RecTubeWExtract 1	RecTubeWExtract 2
MB 500-448157/1-A		1664B		1000 mL	1000 mL	1	2.4995 g	2.5011 g	2.5009 g
LCS 500-448157/2-A		1664B		1000 mL	1000 mL	2	6.4001 g	6.4325 g	6.4320 g
500-150867-G-1-A	R1	1664B	T	1000 mL	1000 mL	3	6.3920 g	6.3954 g	6.3958 g
500-150867-F-2-A	G1-01	1664B	T	1000 mL	1000 mL	4	2.4811 g	2.4830 g	2.4829 g
500-150867-F-3-A	G2-01	1664B	T	1000 mL	1000 mL	5	6.4302 g	6.4322 g	6.4321 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	Residue	Residue2	1664 HEM 00197		
MB 500-448157/1-A		1664B		Pass_0.0005g	0.0016000000000 0027 g	0.0014000000000 0029 g			
LCS 500-448157/2-A		1664B		Pass_0.0005g	0.0324 g	0.0319000000000 003 g	5 mL		
500-150867-G-1-A	R1	1664B	T	Pass_0.0005g	0.0034000000000 0007 g	0.0038000000000 0003 g			
500-150867-F-2-A	G1-01	1664B	T	Pass_0.0005g	0.0019000000000 0001 g	0.0017999999999 998 g			
500-150867-F-3-A	G2-01	1664B	T	Pass_0.0005g	0.0019999999999 9978 g	0.0019000000000 0001 g			

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 BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448167 Batch Start Date: 09/04/18 12:15 Batch Analyst: Annem, Sreenivasareddy

Batch Method: 1664B Batch End Date: 09/04/18 14:00

Batch Notes	
Balance ID	2820
Cal check after 1st Weighing - 1g	1.0001 g
Cal check after 1st Weighing - 2 mg	0.0022 g
Cal check after 2nd Weighing - 1g	1.0002 g
Cal check after 2nd Weighing - 2 mg	0.0022 g
Cal check before 1st Weighing - 1g	1.0001/10.0001 g
Cal check before 1st Weighing - 2 mg	0.0021 g
Cal check before 2nd Weighing - 1g	0.9999 g
Cal check before 2nd Weighing - 2 mg	0.0020 g
Desiccator In Time - 1st Weight	12:25
Desiccator In Time - 2nd Weight	13:15
Desiccator Out Time - 1st Weight	13:00
Desiccator Out Time - 2nd Weight	13:45
Weight Set ID	3068/0558

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 BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448248 Batch Start Date: 09/04/18 12:10 Batch Analyst: Nelson, Larry W

Batch Method: Moisture Batch End Date: 09/05/18 07:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
500-150867-A-4	Total Solids	Moisture	T	58	1.06 g	14.34 g	10.22 g		

Batch Notes	
Balance ID	C-971
Date samples were placed in the oven	09/04/2018
Oven Temp In	103.2 Degrees C
Time samples were place in the oven	12:10
Date samples were removed from oven	09/05/2018
Oven Temp Out	106.2 Degrees C
Time Samples were removed from oven	07:55
Oven ID	C-0776
Thermometer ID	YELLOW
Temperature - Start - Uncorrected	105.0 Degrees C
Temperature - End - Uncorrected	108.0 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448311 Batch Start Date: 09/04/18 16:15 Batch Analyst: Oliver, Syreeta

Batch Method: SM 2540D Batch End Date: 09/04/18 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 500-448311/1		SM 2540D		193	0.1174 g	200 mL	0.1174 g	0.1173 g	0 g
LCS 500-448311/2		SM 2540D		192	0.1168 g	200 mL	0.1547 g	0.1548 g	0 g
500-150867-E-1	R1	SM 2540D	T	177	0.1170 g	10 mL	0.1223 g	0.1222 g	0 g
500-150867-E-2	G1-01	SM 2540D	T	176	0.1167 g	50 mL	0.1211 g	0.1212 g	0 g
500-150867-E-3	G2-01	SM 2540D	T	175	0.1171 g	200 mL	0.1224 g	0.1223 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	Residue	Residue2	FinalAmount	ResDishWt	DishWeight
MB 500-448311/1		SM 2540D		PASS <0.5mg	0 g	-0.0001 g	200 mL	0.1173 g	0.1174 g
LCS 500-448311/2		SM 2540D		PASS <0.5mg	0.0379 g	0.038 g	200 mL	0.1548 g	0.1168 g
500-150867-E-1	R1	SM 2540D	T	PASS <0.5mg	0.0053 g	0.0052 g	200 mL	0.1222 g	0.117 g
500-150867-E-2	G1-01	SM 2540D	T	PASS <0.5mg	0.0044 g	0.0045 g	200 mL	0.1212 g	0.1167 g
500-150867-E-3	G2-01	SM 2540D	T	PASS <0.5mg	0.0053 g	0.0052 g	200 mL	0.1223 g	0.1171 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTTSS1 00853					
MB 500-448311/1		SM 2540D							
LCS 500-448311/2		SM 2540D		200 mL					
500-150867-E-1	R1	SM 2540D	T						
500-150867-E-2	G1-01	SM 2540D	T						
500-150867-E-3	G2-01	SM 2540D	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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-1

SDG No.: _____

Batch Number: 448311 Batch Start Date: 09/04/18 16:15 Batch Analyst: Oliver, Syreeta

Batch Method: SM 2540D Batch End Date: 09/04/18 16:50

Batch Notes	
Balance ID	1634
Date/Time - In	09/04/2018 00:00
Date/Time - Out	09/05/2018 00:00
Filter ID	16806613
Nominal Amount Used	200 mL
Oven ID	3102
Perform Calculation (0=No, 1=Yes)	1
Thermometer ID	3057
Temperature - Start - Uncorrected	105.3 Celsius
Temperature - End - Uncorrected	103.8 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.

Circle Method:

- EPA 1064A (Waters)
- EPA 1064B (Waters)
- SW-846 9071B, Modified (Soils)

TestAmerica Chicago
HEM / SGT-HEM

PK 9-4-18

57

Analytical Batch 448157 448167
Preparation Batch 448157

Page No. _____
Book No. 5226
NCM No. _____

Balance No. for Residue Weighings 2820
Balance No. for Bottle Weights 0825
SpeedVap temp set 50 C
Filter Lot # 12LH5095

Calculations:

mg/L = [gross(g) - tare (g)] / sample mL x 1000 mg / g x 1000 mL / L
Soil Sludges "as received" mg/kg = [gross(g) - tare(g)] / sample g x 1000 mg / g x 1000 g / kg

Class "S" Weight	Lower Limit (g)	Upper Limit (g)	Initial Weighing (g)	Final Weighing (g)	Weight Set Equip ID#
0.002 g	0.0018	0.0022	0.0021	0.0022	568
1.0 g	0.995	1.005	1.000	1.002	558
10.0 g	9.990	10.010	10.000	X	558

- ¹ Balance calibration verification PRIOR to weighing residues.
- ² Balance calibration verification AFTER weighing residues.
- * DI water added after weighing, to bring volume to approx. 950ml.
- Note: Sample preservation is verified prior to sample analysis.

pH Code: (+) already acidified to pH <2
pH Code: (-) analyst acidified to pH <2 with H2SO4

Sample No. Unique Bottle ID	HEM(O) or SW-846(7)	Dish ID	Tare (g)	Gross Weight 1 (g)	Gross Weight 2 (g)	Bottle weight full (g)	Bottle weight empty (g)	Sample mL or g	% Rec. RPD	pH Code	Extractor Position D
-MB	⊙	1	2.4995	558	558	1370	390	10000		-	3A
-LCS		2	6.4001			1370	390	10000	80	-	2B
-1508671		3	6.3920			1308	403	900		+	3A
1508672		4	2.4811			1303	403			+	3C
1508673		5	6.4302			1299	404			+	2B
150759-8		6	2.4751			1403	403			+	3C
150759-9		7	2.4920			1371	402			+	3A
150829-1		8	2.4623			1401	485			-	2B
150820-1		9	2.4776			1398	487			-	3C
150775-1		10	6.4149			1348	399			+	3C
150768-1	*	11	6.4240			1363	1075			+	3A
150768-3	*	12	6.3768			1355	1210			+	2B
150768-5	*	13	6.3609			1349	1077			+	3C
15688-1		14	6.3772			1142	893			A	3A
150791-1M		15	2.4756			1334	403		83	A	3C
150791-1		16	2.4812			1317	403			+	3A
✓ 150833H		17	6.4253			1404	497			-	2B

Standard Traceability:

Note: Working standards are prepared daily from the noted Stock Solution.

Stock Solution I ID# (LCS):

1664 HEM00197

Spiking Levels (mg/L): LCS:

40

MS (Water):

42

MS (Soil):

Preparation Signature:

[Signature]

Date:

9-4-18 7:00-12:00

Final Back Signature:

[Signature]

Date:

9-4-18 12:15-1:00

Reviewer Signature:

[Signature]

Date:

9/11/18

CHI-22-12-030/0-10/17

* Total Sample Volume Unavailable to Process

1664A_SPE Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448157

Analyst: Annem, Sreenivasareddy

Batch Open: 9/4/2018 7:00:00AM

Batch End: 9/4/2018 12:00:00PM

HEM and SGT-HEM (SPE)

Input Sample Lab ID (Analytical Method)	SDG (Job #)	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 N/A	N/A		1000 mL	1000 mL	N/A	N/A	N/A		
2 LCS-500-448157/2	N/A		1000 mL	1000 mL	N/A	N/A	N/A		
3 500-150867-G-1 (1664B)	(500-150867-1)	Water	905 mL	1000 mL	9/5/18	1_Day_RUSH	4		
4 500-150867-F-2 (1664B)	(500-150867-1)	Water	900 mL	1000 mL	9/5/18	1_Day_RUSH	4		
5 500-150867-F-3 (1664B)	(500-150867-1)	Water	895 mL	1000 mL	9/5/18	1_Day_RUSH	4		
6 500-150759-A-8 (1664B)	(500-150759-1)	Water	1000 mL	1000 mL	9/7/18	5_Days	2		
7 500-150759-A-9 (1664B)	(500-150759-1)	Water	989 mL	1000 mL	9/7/18	5_Days	2		
8 500-150829-J-1 (1664B)	(500-150829-1)	Water	916 mL	1000 mL	9/7/18	4_Day_RUSH	1		
9 500-150830-J-1 (1664B)	(500-150830-1)	Water	911 mL	1000 mL	9/10/18	5_Days	1		
10 500-150775-C-1 (1664B)	(500-150775-1)	Water	954 mL	1000 mL	9/10/18	5_Days	1		
11 500-150768-A-1 (1664B)	(500-150768-1)	Water	288 mL	1000 mL	9/11/18	6_Days	2	Total sample volume unable to process	
12 500-150768-A-3 (1664B)	(500-150768-1)	Water	145 mL	1000 mL	9/11/18	6_Days	2	Total sample volume unable to process	
13 500-150768-A-5 (1664B)	(500-150768-1)	Water	272 mL	1000 mL	9/11/18	6_Days	2	Total sample volume unable to process	
14 500-150869-A-1 (1664B)	(500-150869-1)	Water	749 mL	1000 mL	9/12/18	6_Days	1		

1664A_SPE Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448157

Analyst: Annem, Sreenivasareddy

Batch Open: 9/4/2018 7:00:00AM

Batch End: 9/4/2018 12:00:00PM

Line No.	Sample ID	Material	Volume (mL)	Weight (mL)	Concentration (mL)	Date	8_Days	Count	Barcode
15	500-150791-E-1-MS (1664B)	Water	931 mL	1000 mL	N/A (500-150791-1)	9/13/18	8_Days	2	[Barcode]
16	500-150791-F-1 (1664B)	Water	914 mL	1000 mL	N/A (500-150791-1)	9/13/18	8_Days	2	[Barcode]
17	500-150833-J-1 (1664B)	Water	907 mL	1000 mL	N/A (500-150833-1)	9/13/18	8_Days	1	[Barcode]
18	500-150773-G-1 (1664B)	Water	887 mL	1000 mL	N/A (500-150773-1)	9/13/18	8_Days	1	[Barcode]
19	500-150778-J-2 (1664B)	Water	932 mL	1000 mL	N/A (500-150778-1)	9/13/18	8_Days	2	[Barcode]

1664A_SPE Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448157

Analyst: Annem, Sreenivasareddy

Batch Open: 9/4/2018 7:00:00AM

Batch End: 9/4/2018 12:00:00PM

Batch Notes

Nominal Amount Used 1000

Sufficient Volume for Batch QC Yes

Analyst ID - HEM Extraction ASR

Prep Solvent Volume Used

Methanol ID Methanol_00043

Hexane ID Hexane_00067

Na2SO4 ID Na2SO4_01328

Acid ID H2SO4_00017

Filter Material ID 47-042218, 47PF-060618, 90-042218, 90PF- 052218

Pipette/Syringe/Dispenser ID NA

pH Paper ID PH 1-11 lot 517

Concentrator ID

Concentration Start Time

Concentration End Time

Manifold ID 1851/2430

Uncorrected Concentration Temperature NA

Corrected Concentration Temperature NA

Thermometer ID NA

Balance ID Top-Loader 0825

1664A_SPE Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448157

Analyst: Annem, Sreenivasareddy

Batch Open: 9/4/2018 7:00:00AM

Batch End: 9/4/2018 12:00:00PM

Weight Set ID	3068/0558
SPE Cartridge Lot ID	
SPE Cartridge Type	
SPE Filter Lot #	
Analyst ID - SGT Extraction	NA
Silica Gel ID	Silica Gel_00018
Batch Comment	NA

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Comments

Login Comments for Job 150768: Cert check sjf

Login Comments for Job 150869: cert check run 9/3/18 eal

Login Comments for Job 150773: Cert check sjf

1664A_SPE Analysis Sheet
 (To Accompany Samples to Instruments)

Batch Number: 500-448157

Analyst: Annem, Sreenivasareddy

Batch Open: 9/4/2018 7:00:00AM

Batch End: 9/4/2018 12:00:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness

Reagent

Other Reagents:

Amount/Units

Lot#:

AR 9-4-18

General Chemistry Worksheet

Batch Number: 500-448167

Method: 1664A

Analyst: Annem, Sreenivasareddy

Date Open: Sep 04 2018 12:15PM

Batch End: Sep 04 2018 2:00PM

Lab ID	Client ID	Method Chain	Basis	Percent different between 1st & 2nd	RawResidue	Weight of Residue 2	1664 HEM_00197
MB-500-4481571-A		1664B		Pass_0.0005g	0.0016 g	0.0014 g	
LCS-500-4481572-A		1664B		Pass_0.0005g	0.0324 g	0.0319 g	5 mL
500-150867-G-1-A		1664B	T	Pass_0.0005g	0.0034 g	0.0038 g	
500-150867-F-2-A		1664B	T	Pass_0.0005g	0.0019 g	0.0018 g	
500-150867-F-3-A		1664B	T	Pass_0.0005g	0.0020 g	0.0019 g	
500-150759-A-8-A		1664B	T	Pass_0.0005g	0.0009 g	0.0011 g	
500-150759-A-9-A		1664B	T	Pass_0.0005g	0.0009 g	0.0013 g	
500-150829-J-1-A		1664B	T	Pass_0.0005g	0.0018 g	0.0018 g	
500-150830-J-1-A		1664B	T	Pass_0.0005g	0.0024 g	0.0020 g	
500-150775-C-1-A		1664B	T	Pass_0.0005g	0.1472 g	0.1476 g	
500-150768-A-1-A		1664B	T	Pass_0.0005g	0.0903 g	0.0908 g	
500-150768-A-3-A		1664B	T	Pass_0.0005g	0.0651 g	0.0656 g	
500-150768-A-5-A		1664B	T	Pass_0.0005g	0.1195 g	0.1197 g	
500-150869-A-1-A		1664B	T	Pass_0.0005g	0.0100 g	0.0102 g	
500-150791-E-1-A-IMS		1664B	T	Pass_0.0005g	0.0354 g	0.0354 g	5 mL
500-150791-F-1-A		1664B	T	Pass_0.0005g	0.0025 g	0.0023 g	
500-150833-J-1-A		1664B	T	Pass_0.0005g	0.0200 g	0.0198 g	
500-150773-G-1-A		1664B	T	Pass_0.0005g	0.0015 g	0.0016 g	
500-150778-J-2-A		1664B	T	Pass_0.0005g	0.0034 g	0.0036 g	

Desiccator In Time - 1st Weight: 12:25

Desiccator Out Time - 1st Weight: 13:00

Desiccator In Time - 2nd Weight: 13:15

Desiccator Out Time - 2nd Weight: 13:45

Cal check before 1st Weighing - 1g: 1.0001/10.0001 g

Cal check before 1st Weighing - 2 mg: 0.0021 g

Cal check after 1st Weighing - 1g: 1.0001 g

Cal check after 1st Weighing - 2 mg: 0.0022 g

Cal check before 2nd Weighing - 1g: 0.9999 g

Cal check before 2nd Weighing - 2 mg: 0.0020 g

Cal check after 2nd Weighing - 1g: 1.0002 g

Cal check after 2nd Weighing - 2 mg: 0.0022 g

Balance ID: 2820

Weight Set ID: 3068/0558

General Chemistry Worksheet

Batch Number: 500-448167
 Method: 1664A

Analyst: Annem, Sreenivasareddy

Date Oper: Sep 04 2018 12:15PM
 Batch End: Sep 04 2018 2:00PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	Receiver Tube ID #	Weight of Receiver tube	Weight of Receiver tube and Extract1	Weight of Receiver tube and Extract2
MB-500-4481571-A		1664B		1000 mL	1000 mL	1	2.4995 g	2.5011 g	2.5009 g
LCS-500-4481572-A		1664B		1000 mL	1000 mL	2	6.4001 g	6.4325 g	6.4320 g
500-150867-G-1-A		1664B	T	1000 mL	1000 mL	3	6.3920 g	6.3954 g	6.3958 g
500-150867-F-2-A		1664B	T	1000 mL	1000 mL	4	2.4811 g	2.4830 g	2.4829 g
500-150867-F-3-A		1664B	T	1000 mL	1000 mL	5	6.4302 g	6.4322 g	6.4321 g
500-150759-A-8-A		1664B	T	1000 mL	1000 mL	6	2.4751 g	2.4760 g	2.4762 g
500-150759-A-9-A		1664B	T	1000 mL	1000 mL	7	2.4830 g	2.4839 g	2.4943 g
500-150829-J-1-A		1664B	T	1000 mL	1000 mL	8	2.4623 g	2.4641 g	2.4641 g
500-150830-J-1-A		1664B	T	1000 mL	1000 mL	9	2.4776 g	2.4800 g	2.4796 g
500-150775-C-1-A		1664B	T	1000 mL	1000 mL	10	6.4149 g	6.5621 g	6.5625 g
500-150768-A-1-A		1664B	T	1000 mL	1000 mL	11	6.4240 g	6.5143 g	6.5148 g
500-150768-A-3-A		1664B	T	1000 mL	1000 mL	12	6.3968 g	6.4619 g	6.4624 g
500-150768-A-5-A		1664B	T	1000 mL	1000 mL	13	6.3609 g	6.4804 g	6.4806 g
500-150869-A-1-A		1664B	T	1000 mL	1000 mL	14	6.3972 g	6.4072 g	6.4074 g
500-150791-E-1-A-MS		1664B	T	1000 mL	1000 mL	15	2.4756 g	2.5110 g	2.5110 g
500-150791-F-1-A		1664B	T	1000 mL	1000 mL	16	2.4812 g	2.4837 g	2.4835 g
500-150833-J-1-A		1664B	T	1000 mL	1000 mL	17	6.4253 g	6.4453 g	6.4451 g
500-150773-G-1-A		1664B	T	1000 mL	1000 mL	18	2.5006 g	2.5021 g	2.5022 g
500-150778-J-2-A		1664B	T	1000 mL	1000 mL	19	6.4088 g	6.4122 g	6.4124 g

TestAmerica Chicago
Total Suspended / Total Volatile Solids (TSS / VSS)

Page#

66

NCM# 252579

LIMs Batch# 498311

Circle Method Used:

- TSS - SM 2540D-97
- D. VSS - E 160.4; SM 2540E-97
- E. Drinking Water
- Filter Paper Lot# 16806613
- Verification Book/Page: 1217/51

Calculations: TSS

mg/L = (A - B) / C x 1,000,000
mg/L = [gross(g) - tare(g)] / vol(ml) x 1,000,000

Calculations: VSS

mg/L = (A - D) / C x 1,000,000

Weekly: Filter Support Sonication: 8-29-18

Monthly Pump Oil Change: 8-15-18

- A = Petri Dish & Dry Residue Wt. (g)
- B = Petri Dish Tare Wt. (g)
- C = Sample Volume (ml)
- D = Petri Dish + Residue after Ignition (g)

Oven #: 3102
Initial Temp.: 105.3 °C
Final Temp.: 157.8 °C

Balance #: 1634
Desiccator #: /

Muffle Furnace #: 509-4-11
Furnace Temp.: / °C

Sample #	Cruc. ID	Sample Vol. (ml)	Tare B (g)	1st A (g)	2nd A (g)	3rd A or D (Circle) (g)	4th A or D (Circle) (g)	% RPT
-MB	199	300	0.1174	SEE TALS	SEE TALS	NA	NA	95
-LCS	192	300	0.1167					
500-150527-1	191	70	0.1175					
+	190	300	0.1160					
638-1	189	300	0.1174					13
166-1	188	300	0.1174					86
1MP	187	100	0.1172					
667-1	186	300	0.1177					
740-1	185	300	0.1193					
836-1	184	300	0.1170					
2	183	1	0.1180					
3	182	1	0.1181					
4	181	300	0.1174					
9	660	60	0.1134					
10	189	300	0.1167					
858-1	188	70	0.1175					
867-1	187	10	0.1170					
2	186	50	0.1167					
3	185	300	0.1171					
884-1	658	70	0.1170					
885-1	183	70	0.1174					
887-1	184	60	0.1154					
895-1	181	300	0.1171					7
166-1	180	300	0.1167					
310-134067-1	169	300	0.1168					

Oven Time: IN

Oven Time: Out

Sample # Spiking Levels (mg/L)

500-150620-1 100

LCS

MRL / DLCK

200

Stock Soln. I ID# (LCS/MRL/DLCK):

Stock Soln. II ID# (MS):

Spiking Calculation:

[Conc. of Stock Soln. (mg/L) x Vol. of Stock Soln. added (ml)] / Vol. of sample used (ml)

Analyst Signature:

Reviewer Signature:

CHI-22-12-001/L-06/18

Date: 9-4-18

Date: 9/5/18

General Chemistry Worksheet

Batch Number: 500-448311
 Method: SM 2540D
 Analyst: Oliver, Syreeta

Date Oper: Sep 04 2018 4:15PM
 Batch End: Sep 04 2018 4:50PM

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	First Weighing	Second Weighing	Third Weighing
MB-500-448311/1		2540D		193	0.1174 g	200 mL	0.1174 g	0.1173 g	0 g
LCS-500-448311/2		2540D		192	0.1168 g	200 mL	0.1547 g	0.1548 g	0 g
500-150574-A-1	Influent	2540D	T	191	0.1175 g	40 mL	0.1253 g	0.1253 g	0 g
500-150574-A-2	Effluent	2540D	T	190	0.1180 g	200 mL	0.1191 g	0.1190 g	0 g
500-150632-A-1	OF 103	2540D	T	189	0.1178 g	200 mL	0.1192 g	0.1193 g	0 g
500-150632-A-1~DU		2540D	T	188	0.1182 g	200 mL	0.1198 g	0.1199 g	0 g
500-150632-A-1~MS		2540D	T	187	0.1172 g	100 mL	0.1267 g	0.1265 g	0 g
500-150664-B-1	Outfall 001	2540D	T	186	0.1177 g	200 mL	0.1271 g	0.1274 g	0 g
500-150740-A-1	181180 Outfall 1	2540D	T	185	0.1173 g	200 mL	0.1268 g	0.1269 g	0 g
500-150836-A-1	NW287379	2540D	T	184	0.1170 g	200 mL	0.1202 g	0.1200 g	0 g
500-150836-A-2	NW287462	2540D	T	183	0.1180 g	1 mL	0.1195 g	0.1195 g	0 g
500-150836-A-3	NW287464	2540D	T	182	0.1181 g	1 mL	0.1195 g	0.1192 g	0 g
500-150836-A-4	NW287466	2540D	T	181	0.1174 g	200 mL	0.1189 g	0.1190 g	0 g
500-150836-A-9	NW287491	2540D	T	660	0.1138 g	60 mL	0.1200 g	0.1196 g	0 g
500-150836-A-10	NW287492	2540D	T	179	0.1167 g	200 mL	0.1172 g	0.1171 g	0 g
500-150858-C-1	Primary	2540D	T	178	0.1172 g	70 mL	0.1193 g	0.1192 g	0 g
500-150867-E-1	R1	2540D	T	177	0.1170 g	10 mL	0.1223 g	0.1222 g	0 g
500-150867-E-2	G1-01	2540D	T	176	0.1167 g	50 mL	0.1211 g	0.1212 g	0 g
500-150867-E-3	G2-01	2540D	T	175	0.1171 g	200 mL	0.1224 g	0.1223 g	0 g
500-150884-C-1	Primary	2540D	T	658	0.1127 g	40 mL	0.1164 g	0.1162 g	0 g
500-150885-C-1	Primary	2540D	T	173	0.1182 g	70 mL	0.1216 g	0.1213 g	0 g
500-150887-C-1	Primary	2540D	T	172	0.1154 g	60 mL	0.1184 g	0.1183 g	0 g
500-150895-B-1	OUTFALL 001-F	2540D	T	171	0.1171 g	200 mL	0.1198 g	0.1198 g	0 g
500-150895-B-1~DU		2540D	T	170	0.1163 g	200 mL	0.1191 g	0.1192 g	0 g
310-138067-B-1	Outfall 001	2540D	T	169	0.1168 g	200 mL	0.1200 g	0.1200 g	0 g

General Chemistry Worksheet

Batch Number: 500-448311
 Method: SM 2540D
 Analyst: Oliver, Syreeta

Date Open: Sep 04 2018 4:15PM
 Batch End: Sep 04 2018 4:50PM

Lab ID	Client ID	Method Chain	Basis	Percent different between 1st & 2nd	RawResidue	Weight of Residue 2	Final weight/volume of sample	Weight of Residue and Dish	Empty Dish Weight
MB-500-448311/1		2540D		PASS <0.5mg	0 g	-0.0001 g	200 mL	0.1173 g	0.1174 g
LCS-500-448311/2		2540D		PASS <0.5mg	0.0379 g	0.038 g	200 mL	0.1548 g	0.1168 g
500-150574-A-1	Influent	2540D	T	PASS <0.5mg	0.0078 g	0.0078 g	200 mL	0.1253 g	0.1175 g
500-150574-A-2	Effluent	2540D	T	PASS <0.5mg	0.0011 g	0.001 g	200 mL	0.119 g	0.118 g
500-150632-A-1	OF 103	2540D	T	PASS <0.5mg	0.0014 g	0.0015 g	200 mL	0.1193 g	0.1178 g
500-150632-A-1~DU		2540D	T	PASS <0.5mg	0.0016 g	0.0017 g	200 mL	0.1199 g	0.1182 g
500-150632-A-1~MS		2540D	T	PASS <0.5mg	0.0095 g	0.0093 g	200 mL	0.1265 g	0.1172 g
500-150664-B-1	Outfall 001	2540D	T	PASS <0.5mg	0.0094 g	0.0097 g	200 mL	0.1274 g	0.1177 g
500-150740-A-1	181180 Outfall 1	2540D	T	PASS <0.5mg	0.0095 g	0.0096 g	200 mL	0.1269 g	0.1173 g
500-150836-A-1	NW287379	2540D	T	PASS <0.5mg	0.0032 g	0.003 g	200 mL	0.12 g	0.117 g
500-150836-A-2	NW287462	2540D	T	PASS <0.5mg	0.0015 g	0.0015 g	200 mL	0.1195 g	0.118 g
500-150836-A-3	NW287464	2540D	T	PASS <0.5mg	0.0014 g	0.0011 g	200 mL	0.1192 g	0.1181 g
500-150836-A-4	NW287466	2540D	T	PASS <0.5mg	0.0015 g	0.0016 g	200 mL	0.119 g	0.1174 g
500-150836-A-9	NW287491	2540D	T	PASS <0.5mg	0.0062 g	0.0058 g	200 mL	0.1196 g	0.1138 g
500-150836-A-10	NW287492	2540D	T	PASS <0.5mg	0.0005 g	0.0004 g	200 mL	0.1171 g	0.1167 g
500-150858-C-1	Primary	2540D	T	PASS <0.5mg	0.0021 g	0.002 g	200 mL	0.1192 g	0.1172 g
500-150867-E-1	R1	2540D	T	PASS <0.5mg	0.0053 g	0.0052 g	200 mL	0.1222 g	0.117 g
500-150867-E-2	G1-01	2540D	T	PASS <0.5mg	0.0044 g	0.0045 g	200 mL	0.1212 g	0.1167 g
500-150867-E-3	G2-01	2540D	T	PASS <0.5mg	0.0053 g	0.0052 g	200 mL	0.1223 g	0.1171 g
500-150884-C-1	Primary	2540D	T	PASS <0.5mg	0.0037 g	0.0035 g	200 mL	0.1162 g	0.1127 g
500-150885-C-1	Primary	2540D	T	PASS <0.5mg	0.0034 g	0.0031 g	200 mL	0.1213 g	0.1182 g
500-150887-C-1	Primary	2540D	T	PASS <0.5mg	0.003 g	0.0029 g	200 mL	0.1183 g	0.1154 g
500-150895-B-1	OUTFALL 001-F	2540D	T	PASS <0.5mg	0.0027 g	0.0027 g	200 mL	0.1198 g	0.1171 g
500-150895-B-1~DU		2540D	T	PASS <0.5mg	0.0028 g	0.0029 g	200 mL	0.1192 g	0.1163 g
310-138067-B-1	Outfall 001	2540D	T	PASS <0.5mg	0.0032 g	0.0032 g	200 mL	0.12 g	0.1168 g

General Chemistry Worksheet

Batch Number: 500-448311
 Method: SM 2540D
 Analyst: Oliver, Syreeta

Date Oper: Sep 04 2018 4:15PM
 Batch End: Sep 04 2018 4:50PM

Lab ID	Client ID	Method Chain	Basis	WSTTSS1_00853	WSTTSS2_00673
MB-500-448311/1		2540D			
LCS-500-448311/2		2540D			
500-150574-A-1	Influent	2540D	T		200 mL
500-150574-A-2	Effluent	2540D	T		
500-150632-A-1	OF 103	2540D	T		
500-150632-A-1-DU		2540D	T		
500-150632-A-1-MS		2540D	T		100 mL
500-150664-B-1	Outfall 001	2540D	T		
500-150740-A-1	181180 Outfall 1	2540D	T		
500-150836-A-1	NW287379	2540D	T		
500-150836-A-2	NW287462	2540D	T		
500-150836-A-3	NW287464	2540D	T		
500-150836-A-4	NW287466	2540D	T		
500-150836-A-9	NW287491	2540D	T		
500-150836-A-10	NW287492	2540D	T		
500-150858-C-1	Primary	2540D	T		
500-150867-E-1	R1	2540D	T		
500-150867-E-2	G1-01	2540D	T		
500-150867-E-3	G2-01	2540D	T		
500-150884-C-1	Primary	2540D	T		
500-150885-C-1	Primary	2540D	T		
500-150887-C-1	Primary	2540D	T		
500-150895-B-1	OUTFALL 001-F	2540D	T		
500-150895-B-1-DU		2540D	T		
310-138067-B-1	Outfall 001	2540D	T		

Perform Calculation (0=No, 1=Yes):

Nominal Amount Used: 1

Pipette/Syringe/Dispenser ID: 200 mL

Filter ID: NA

Balance ID: 16806613

Oven ID: 1634

Thermometer ID: 3102

Disp/Time - In: 3057

Disp/Time - Start - Uncorrected: 09/04/2018 00:00

Disp/Time - Out: 105.3 Celsius

Temperature - End - Uncorrected: 09/05/2018 00:00

Temperature - End - Uncorrected: 103.8 Celsius

**TestAmerica Chicago
Phosphorus**

Method:

Std. Methods 4500 P E-99

Analytical Batch #: 448470
 Prep. Batch #: 448470 448914
 NCM #: 253632
 Instrument ID: 8 pl 8
 Wavelength: 880nm Path length: 1.0cm

Calculations:

$mg/L = mg/L (Curve) \times Final Volume (ml) / Sample Size (ml) \times dilution$

$mg/Kg = mg/L (Curve) \times Final Volume (ml) \times dilution / grams sample$

Calibration Range: 0.05 -1.0 mg/L as P
 Reporting Limit: Water 0.05 mg/L as P
 Solid 10 mg/Kg as P

Dry weight correction of solid samples is done automatically in ADII.

Standards Traceability:

Stock 1: Calibration Curve, CCV:

WSTPST 00031

Stock 2: LCS, ICV, MS/MSD
 MRL / DLCK

WSTPSA 00033

Spiking Levels:

	Stock #	Stock Spike Amount mL	Conc. mg/L	ICAL Standards mg/L	Stock I Spike Amount uLs	DI Amount mL
LCS ortho	2	0.25 in 25 mL	0.50	0	0	50
LCS total	2	0.50 in 50 mL	0.50	0.05	25	50
ICV	2	0.25 in 50 mL	0.25	0.10	50	50
CCV	1	0.50 in 50 mL	0.50	0.15	75	50
MS/MSD water	2	0.25 in 50 mL	0.25	0.30	150	50
MS/MSD (Ortho) water	2	0.125 in 25 mL	0.25	0.50	250	50
MS/MSD solid	2	10 in 1 g/100 mL	5.0 (mg/kg)	1.00	500	50
MRL (MDL conc.)	2	0.050 in 50 mL	0.05			
MDLCK (MDLV)	2	0.025 in 50 mL	0.025			

ICAL Prep Verification Initial 67/118 Date 9/15/16

Comments:

For ortho-phosphate analysis, sample filtration is required to be within 15 minutes of collection. Samples that have not been field filtered require an NCM to qualify the data in the final report: NCM# _____

Color reagent Prep Time: 10:57 (4 hour life) Time color reagent added to curve: 10:58
 Curve Run Start Time: 11:10 Curve Run End Time: 11:13
 Color reagent Prep Time: 10:57 (4 hour life) Time color reagent added to samples: 14:39
 Sample Run Start Time: 13:19 Sample Run End Time: 15:20

Prep Analyst: 67 Brandon M. Stire Date of Prep: 9/14/16
 Analyst: 67 Brandon M. Stire Date of Analysis: 9/15/16
 Reviewer: Julia V. Choksi Date: 9/15/16

Standard Table

No.	Conc.	ABS
1	0.0000	-0.001
2	0.0500	0.026
3	0.1000	0.058
4	0.1500	0.091
5	0.3000	0.190
6	0.5000	0.326
7	1.0000	0.632

No.	ABS

at sample R. Steere
9/15/18
019/18
PO₄³⁻

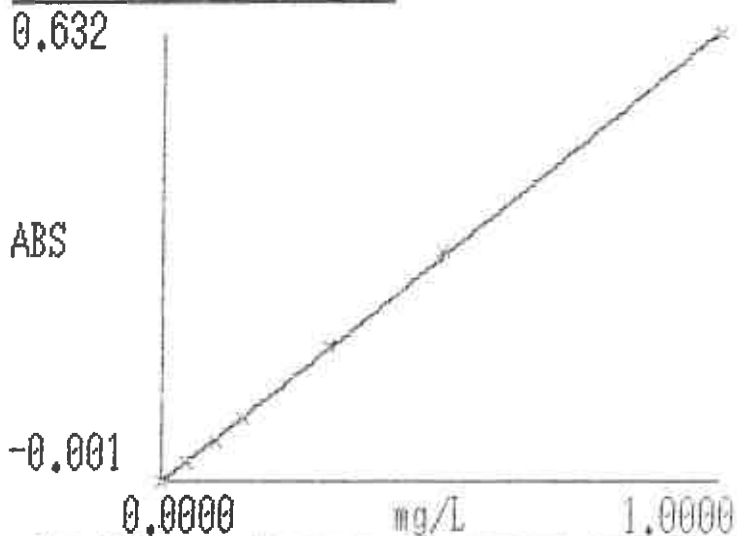
ClbCurve

ChgStd

SmpMeas

StdPrint

Calibration Curve



StdTable

NewCalib

ChgOrder

Equation

Clb. curve equation

$$ABS = K1C + K0$$

$$K1 = 0.638952$$

$$K0 = -0.002913$$

$$r^2 = 0.9996$$

No. ABS Conc. mg/L

No.	ABS	Conc. mg/L
15:12 1	0.159	0.2529 ICL
2	0.004	0.0114 ICB
3	0.002	0.0076 MB
4	0.276	0.4373 LCS
5	0.184	0.2921 500-150439-4
15 6	0.353	0.5563 506-150536-1
15 7	0.447	0.7044 500-150530-2
8	0.022	0.0388 506-150867-1
9	0.113	0.1809 500-150867-2
10	0.058	0.0953 500-150867-3
11	0.140	0.2229 500-150787-1 829-1 07AS 9/5/18
1/25 12	0.411	0.6472 500-150787-1
13	0.318	0.5020 CCL
14	0.008	0.0166 CCB
15	0.174	0.2770 500-150806-1
16	0.289	0.4564 500-150806-MS
17	0.319	0.5045 500-150806-MSD
18	0.232	0.3672 500-150811-1
19	0.325	0.5126 CCL
15:20 20	0.008	0.0166 CCB

Brandon M. Stern 9/15/18

PB#: 498214

AB#: 498470

365_Prep Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448214

Analyst: Steve, Brandon R

Batch Open: 9/4/2018 10:21:00AM

Batch End: 9/4/2018 2:21:00PM

Phosphorus, Total

Input Sample Lab ID (Analytical Method)	SDG (Job #)	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB-500-448214/1 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		MB-500-448214-1-A
2 LCS-500-448214/2 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		LCS-500-448214-2-A
3 CCV-500-448214/3 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		CCV-500-448214-3-A
4 500-150434-A-11 (4500_P_E)	(500-150434-1)	Water	50 mL	50 mL	9/4/18	6_Days	2		500-150434-A-11-C
5 500-150530-A-1 (4500_P_E)	(500-150530-1)	Water	25 mL	50 mL	9/4/18	5_Days	2		500-150530-A-1-C
6 500-150530-A-2 (4500_P_E)	(500-150530-1)	Water	25 mL	50 mL	9/4/18	5_Days	2		500-150530-A-2-C
7 500-150867-D-1 (4500_P_E)	(500-150867-1)	Water	25 mL	50 mL	9/5/18	1_Day_RUSH	4		500-150867-D-1-A
8 500-150867-D-2 (4500_P_E)	(500-150867-1)	Water	25 mL	50 mL	9/5/18	1_Day_RUSH	4		500-150867-D-2-A
9 500-150867-D-3 (4500_P_E)	(500-150867-1)	Water	25 mL	50 mL	9/5/18	1_Day_RUSH	4		500-150867-D-3-A
10 500-150829-D-1 (4500_P_E)	(500-150829-1)	Water	50 mL	50 mL	9/7/18	4_Day_RUSH	1		500-150829-D-1-A
11 500-150783-A-1 (4500_P_E)	(500-150783-1)	Water	25 mL	50 mL	9/10/18	5_Days	1		500-150783-A-1-A
12 500-150806-A-1 (4500_P_E)	(500-150806-1)	Water	50 mL	50 mL	9/10/18	5_Days	2		500-150806-A-1-A
13 500-150806-A-1-MS (4500_P_E)	(500-150806-1)	Water	50 mL	50 mL	9/10/18	5_Days	2		500-150806-A-1-B-MS
14 500-150806-A-1-MSD (4500_P_E)	(500-150806-1)	Water	50 mL	50 mL	9/10/18	5_Days	2		500-150806-A-1-C-MSD

365_Prep Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448214

Analyst Stieve, Brandon R

Batch Open: 9/4/2018 10:21:00AM

Batch End: 9/4/2018 2:21:00PM

500-150811-D-1 (4500_P_E)	N/A (500-150811-1)	Water	25 mL	50 mL	9/10/18	5_Days	2	
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15

365_Prep Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448214

Analyst: Stieve, Brandon R

Batch Open: 9/4/2018 10:21:00AM

Batch End: 9/4/2018 2:21:00PM

Batch Notes

pH Indicator ID

Acid Used for pH Adjustment ID

Balance ID

Blank Matrix ID

Block Digestor ID

Digestion Tube/Cup ID

Thermometer ID

Temperature - Uncorrected - Start

Temperature - Corrected - Start

Digestion Start Time

Digestion End Time

Sulfuric Acid Reagent ID Number Sulfuric 11N 00045

Persulfate ID

Ammonium Persulfate ID Ammon Persuf 00017

Pipette/Syringe/Dispenser ID

Batch Comment

365_Prep Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448214

Analyst: Stieve, Brandon R

Batch Open: 9/4/2018 10:21:00AM

Batch End: 9/4/2018 2:21:00PM

Comments

Login Comments for Job 150434: Cert check sjf

365_Prep Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-448214

Analyst: Steve, Brandon R

Batch Open: 9/4/2018 10:21:00AM

Batch End: 9/4/2018 2:21:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 500-448214/2	WSTPS2_00033	500 uL	50 mL		
CCV 500-448214/3	WSTPS1_00031	250 uL	50 mL		
500-150806-A-1 MS	WSTPS2_00033	250 uL	50 mL		
500-150806-A-1 MSD	WSTPS2_00033	250 uL	50 mL		

Reagent	Other Reagents:	Amount/Units	Lot#:

MC 9/5/18

General Chemistry Worksheet

Batch Number: 500-448470
 Method: SM 4500 P E
 Analyst: Stieve, Brandon R

Date Oper: Sep 05 2018 3:12PM
 Batch End: Sep 05 2018 3:20PM

Lab ID	Client ID	Method Chain	Basis Initial weight/volume of sample	Final weight/volume of sample	WSTPS2_00033
ICV-500-448470/1		4500_P_E	50 mL	250 uL	
ICB-500-448470/2		4500_P_E			
MB-500-448214/1-A		4500_P_E			
LCS-500-448214/2-A		4500_P_E			
500-150434-A-11-C		4500_P_E	T		
500-150530-A-1-C		4500_P_E	T		
500-150530-A-2-C		4500_P_E	T		
500-150867-D-1-A		4500_P_E	T		
500-150867-D-2-A		4500_P_E	T		
500-150867-D-3-A		4500_P_E	T		
500-150829-D-1-A		4500_P_E	T		
500-150783-A-1-A		4500_P_E	T		
GSV-500-448214/3-A1		4500_P_E			
500-150806-A-1-A		4500_P_E	T		
500-150806-A-1-B-MIS		4500_P_E	T		
500-150806-A-1-C-MISD		4500_P_E	T		
500-150811-D-1-A		4500_P_E	T		
CCV-500-448214/3-A		4500_P_E			
CCB-500-448470/20		4500_P_E			

Color Reagent ID: PO4 color reagent
 Ascorbic Acid ID: 0.1M_AA_00320
 Carrier Identification: N/A
 Pipette/Syringe/Dispenser ID: N/A

General Chemistry Worksheet

Batch Number: 500-448470
 Method: SM 4500 P E
 Analyst: Steve, Brandon R

Date Open: Sep 05 2018 3:12PM
 Batch End: Sep 05 2018 3:20PM

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
ICV-500-448470/1		4500_P_E			
ICB-500-448470/2		4500_P_E			
MB-500-448214/1-A		4500_P_E			
LCS-500-448214/2-A		4500_P_E			
500-150434-A-11-C		4500_P_E	T		
500-150530-A-1-C		4500_P_E	T		
500-150530-A-2-C		4500_P_E	T		
500-150867-D-1-A		4500_P_E	T		
500-150867-D-2-A		4500_P_E	T		
500-150867-D-3-A		4500_P_E	T		
500-150829-D-1-A		4500_P_E	T		
500-150783-A-1-A		4500_P_E	T		
CCV-500-448214/3-A		4500_P_E			
CCB-500-448470/1		4500_P_E			
500-150806-A-1-A		4500_P_E	T		
500-150806-A-1-B-MS		4500_P_E	T		
500-150806-A-1-C-MSD		4500_P_E	T		
500-150811-D-1-A		4500_P_E	T		
CCV-500-448214/3-A		4500_P_E			
CCB-500-448470/2		4500_P_E			

Batch Comment: wavelength 880 nm

General Chemistry Worksheet

Batch Number: 500-448248

Date Open: Sep 04 2018 12:10PM

Method: Moisture

Batch End: Sep 05 2018 7:55AM

Analyst: Nelson, Larry W

Lab ID	Client ID	Method Chain	Basis	Dish ID	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
500-150781-C-1	DFC-AUX-ZONE L-SOUTH4.5-5	Moisture	T	41	1.02 g	12.03 g	9.24 g
500-150781-C-2	DFC-AUX-ZONE L-SOUTH5-5.5	Moisture	T	42	1.03 g	12.17 g	9.20 g
500-150781-C-3	DFC-AUX-ZONE L-SOUTH5.5-6	Moisture	T	43	1.02 g	13.10 g	10.46 g
500-150781-C-4	DFC-AUX-ZONE L-SOUTH6-6.5	Moisture	T	44	1.05 g	12.74 g	9.91 g
500-150781-C-5	DFC-AUX-ZONE L-NORTH4.5-5	Moisture	T	45	1.01 g	13.49 g	10.74 g
500-150781-C-6	DFC-AUX-ZONE L-NORTH5-5.5	Moisture	T	46	1.04 g	12.33 g	10.00 g
500-150781-C-7	DFC-AUX-ZONE L-NORTH5.5-6	Moisture	T	47	1.03 g	12.31 g	9.89 g
500-150781-C-8	DUPLICATE	Moisture	T	48	1.03 g	12.55 g	9.85 g
500-150781-C-9	DFC-AUX-ZONE L-NORTH6-6.5	Moisture	T	49	1.00 g	12.67 g	10.28 g
500-150782-C-1	DFC-AUX-ZONE M-SOUTH5-5.5	Moisture	T	50	1.08 g	12.43 g	10.02 g
500-150782-C-2	DFC-AUX-ZONE M-SOUTH5.5-6	Moisture	T	51	1.02 g	12.28 g	10.05 g
500-150782-C-3	DFC-AUX-ZONE M-SOUTH6-6.5	Moisture	T	52	1.07 g	14.23 g	11.30 g
500-150782-C-4	DFC-AUX-ZONE M-SOUTH6.5-7	Moisture	T	53	1.06 g	12.60 g	10.09 g
500-150782-C-5	DFC-AUX-ZONE M-NORTH5-5.5	Moisture	T	54	1.03 g	13.32 g	10.97 g
500-150782-C-6	DFC-AUX-ZONE M-NORTH5.5-6	Moisture	T	55	1.06 g	13.68 g	11.39 g
500-150782-C-7	DFC-AUX-ZONE M-NORTH6-6.5	Moisture	T	56	1.04 g	13.90 g	11.52 g
500-150782-C-8	DFC-AUX-ZONE M-NORTH6.5-7	Moisture	T	57	1.02 g	12.85 g	10.72 g
500-150867-A-4	Total Solids	Moisture	T	58	1.06 g	14.34 g	10.22 g
500-150873-A-1	Soil - 4	Moisture	T	59	1.05 g	13.35 g	10.72 g
500-150822-A-1	Ag August 2018	Moisture	T	60	1.03 g	13.24 g	8.16 g
500-150822-A-1~DU		Moisture	T	61	1.07 g	12.21 g	7.89 g

Balance ID:	C-971	Oven Temp In:	103.2 Degrees C
Oven ID:	C-0776	Date samples were removed from oven:	09/05/2018
Thermometer ID:	YELLOW	Time Samples were removed from oven:	07:55
Date samples were placed in the oven:	09/04/2018	Temperature - End - Uncorrected:	108.0 Degrees C
Time samples were place in the oven:	12:10	Oven Temp Out:	106.2 Degrees C
Temperature - Start - Uncorrected:	105.0 Degrees C		

Chain of Custody Record

Client Information
 Client Contact: Mr. Daniel Dunn
 Company: EnviroAnalytics Group LLC
 Address: 1515 Des Peres Rd. Suite 300
 City: Saint Louis
 State, Zip: MO, 63131
 Phone: 314-835-2814 (Tel)
 Email: ddunn@enviroanalyticsgroup.com
 Project Name: Rock River Sediment Removal, Janesville
 Site:

Sample Information
 Sampler: Riley Underwood
 Lab PM: Knapp, Jim D
 E-Mail: jim.knapp@testamericainc.com
 Carner Tracking No(s):
 COC No: 500-65114-31136.1
 Page: Page 1 of 2
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, G=gas, B=BI Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625 - PAHS	608 PCB - LL PCB's	4500 P.E - Phosphorus	1648B - Oil & Grease	200.7 - As, Pb, Zn	6010B, 7471B, 8082A, 8270D	6020A, 7470A, 8082A, 8270D	Total Number of Containers	Preservation Codes:
R2	8/31/18	15:15	Water	Water	X	X								2	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - NaHSO4 S - MeOH T - H2SO4 U - Ascorbic Acid V - Acetone W - DI Water X - EDTA Y - EDA Z - other (specify)
G1-01	8/31/18	15:25	Water	Water	X	X								2	
G2-01	8/31/18	15:35	Water	Water	X	X								2	
			Water	Water											
			Water	Water											
			Water	Water											
			Water	Water											
			Water	Water											
			Water	Water											
			Solid	Solid											



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Relinquished by: Riley Underwood
 Date/Time: 8/31/18

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months


Special Instructions/QC Requirements:

Received by: Debra Watson
 Date/Time: 8-9-18
 Company: TAD, TX

Received by: [Signature]
 Date/Time: 10:00
 Company: [Blank]

Received by: [Signature]
 Date/Time: [Blank]
 Company: [Blank]

0.8/co.3

Client Information		Sampler: Lab PM: Knapp, Jim D		COC No: 500-65117-31138.1	
Client Contact: Mr. Daniel Dunn		E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1	
Company: EnviroAnalytics Group LLC		Address: 1515 Des Peres Rd. Suite 300		Job #: Analysis Requested	
City: Saint Louis		State: MO		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Zn Acetate Q - Nitric Acid R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (Specify) Other:	
Phone: 314-835-2814(Tel)		PO #: Purchase Order not required		Total Number of containers	
Email: ddunn@enviroanalyticsgroup.com		WO #: 50014801		Field Filtered Sample (Yes or No)	
Project Name: Rock River Sediment Removal, Jamesville		SSOW#: 1631E - LL Mercury		Perform MS/MSD (Yes or No)	
Site:		Due Date Requested:		Special Instructions/Note:	
Sample Identification		TAT Requested (days): 2 days		N	
R1	8/31/18	15:15	Water	X	
G1-01	↓	15:25	Water	X	
G2-01	↓	15:35	Water	X	
Hg Field Blank	↓	15:45	Water	X	
			Water		
			Water		
			Water		
			Water		
			Water		
			Water		
			Water		
			Water		
 <p>240-100699 Chain of Custody</p>					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>Riley Van Ormel</i> Date/Time: 8/31/18 Company: _____					
Relinquished by: <i>Melby Z</i> Date/Time: 9/1/18 Company: 7A Company					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Date/Time: 9/30 Company: _____					
Cooler Temperature(s) °C and Other Remarks: _____					

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 100699


Client EnviroAnalytics Site Name _____
Cooler Received on 9-1-18 Opened on 9-1-18
FedEx: 1st Grd ~~Exp~~ UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by:



Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
Packing material used: ~~Bubble~~ Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 0.8 °C Corrected Cooler Temp. 0.8 °C
IR GUN #36 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes NO
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes NO
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes NO
If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849151
13. Were VOAs on the COC? Yes NO
14. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes NO
16. Was a LL Hg or Me Hg trip blank present? Yes NO

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Chicago

2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Knapp, Jim D	Lab PM: Knapp, Jim D	Carrier Tracking No(s):
Client Contact: Mr. Daniel Dunn	Phone:	E-Mail: jim.knapp@testamericainc.com	COC No: 500-65114-31136.1
Company: EnviroAnalytics Group LLC			Page: Page 1 of 1

Address: 1515 Des Peres Rd. Suite 300 City: Saint Louis State, Zip: MO, 63131 Phone: 314-835-2814(Tel) 500-150867 COC Email: ddunn@enviroanalyticsgroup.com	Job #: 500-150867
--	-----------------------------

Due Date Requested: TAT Requested (days): 2 days	Analysis Requested	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
PO #: Purchase Order not required WO #: Project #: 50014801 SSOV#: Site:	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSB (Yes or No) <input checked="" type="checkbox"/> 2540D - TSS 625 - PAHs 608_PCB - LL PCB's 4500_P_E - Phosphorus 1664B - Oil & Grease 200.7 - As,Pb,Zn 6010B, 7471B, 8082A, 8270D 6020A, 7470A, 8082A, 8270D	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSB (Yes or No)	2540D - TSS	625 - PAHs	608_PCB - LL PCB's	4500_P_E - Phosphorus	1664B - Oil & Grease	200.7 - As,Pb,Zn	6010B, 7471B, 8082A, 8270D	6020A, 7470A, 8082A, 8270D	Total Number of containers	Special Instructions/Note:
				Preservation Code	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N	N	N	S	S	D	N	N		
1 RI	8/31/18	15:15		Water			X	X	X	X	X				7	
2 G1-01	8/31/18	15:25		Water			X	X	X	X	X				7	
3 G2-01	8/31/18	15:35		Water			X	X	X	X	X				7	
4 Total Solids	8/31/18	15:50	C	Water Solid									X		1	
5 Leachate Solids	8/31/18	15:55	C	Water Solid									X		1	
				Water												
				Water												
				Water												
				Water												
				Water												
				Solid												

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
---	--

Deliverable Requested: I, II, III, IV, Other (specify) _____
 Special Instructions/QC Requirements: _____

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Riley Underwood</i>	Date/Time: <i>8/31/18</i>	Company:	Received by: <i>Jim Knapp</i>
Relinquished by: <i>Andy N</i>	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

15.1

Do Not Lift Using This Tag

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: PHDA (636) 577-5056
RILEY UNDERWOOD
ENVIRONMENTAL ANALYTICS GROUP LLC
1000 GENERAL MOTORS DR

SHIP DATE: 23AUG18
ACTWGT: 10.00 LB MAN
CAD: 0562071/CAFE3210

JANESVILLE, WI 535462631
UNITED STATES US

TO **SAMPLE RECEIVING**
TESTAMERICA CHICAGO
2417 BOND STREET

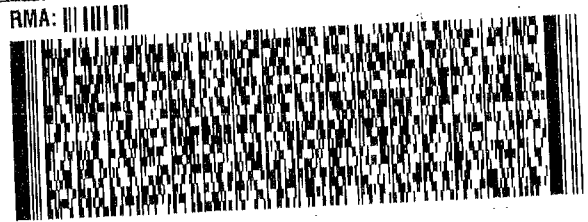
RT **716**
ST **13**

5 **A**
12:00 **9051**
09.01

UNIVERSITY PARK IL 60

(708) 634-5200
THU:
PO:

REF:
DEPT:



FedEx
Express



500-150867 Waybill

FedEx

TRK# **4434 0829 9051**
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US **ORD**



Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-150867-1

Login Number: 150867
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
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.	False	15.1
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.	True	
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	